



Ref No. MKCIL/ASSAM/PKG-06/227

Date: 03.05.2025

To,
The General Manager
NHIDCL, PMU- Karimganj,
Bipin Pal Road, Ward No-24, Opp. Basak House
Karimganj, Assam-788711.
Email: pmukarimganj@gmail.com

Subject: “Four laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to Km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km) – “**Submission of Monthly Progress Report for the month of April-2025.**”

Ref.:

1. LOA- NHIDCL/Procurement/Assam/2023-24/229226/3086 dated 11.03.2024
2. Concession Agreement on dated 31st May 2024

Dear Sir,

With reference to above cited subject, hereby we are 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,

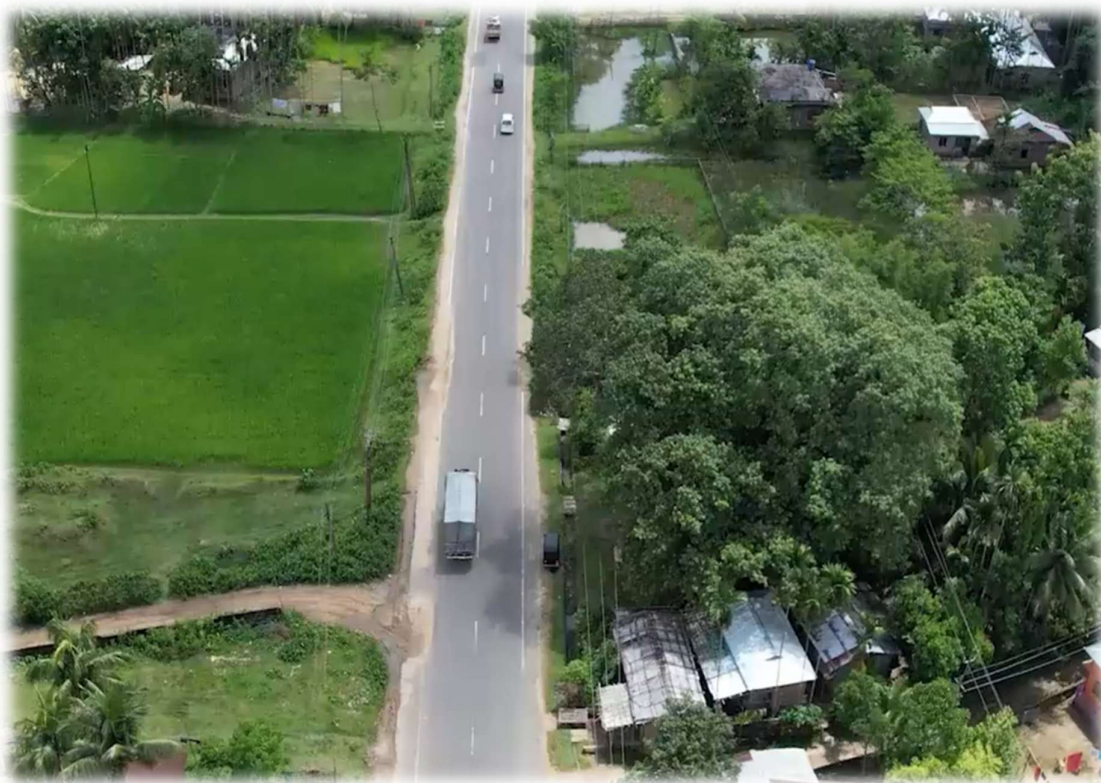


Project Manager
MKC Badarpur Churaibari Kamakhya Highways Private Limited

Encl.: MPR April-2025

Monthly Progress Report

April-2025



Authority		National Highways Infrastructure Development Corporation Limited
Independent Engineer		M/s Agnitio Infrastructure Projects Pvt. Ltd. in JV with M/s Ayoleeza Consultants Pvt. Ltd.
Concessionaire		MKC Badarpur Churaibari Kamakhya Highways Pvt. Ltd.

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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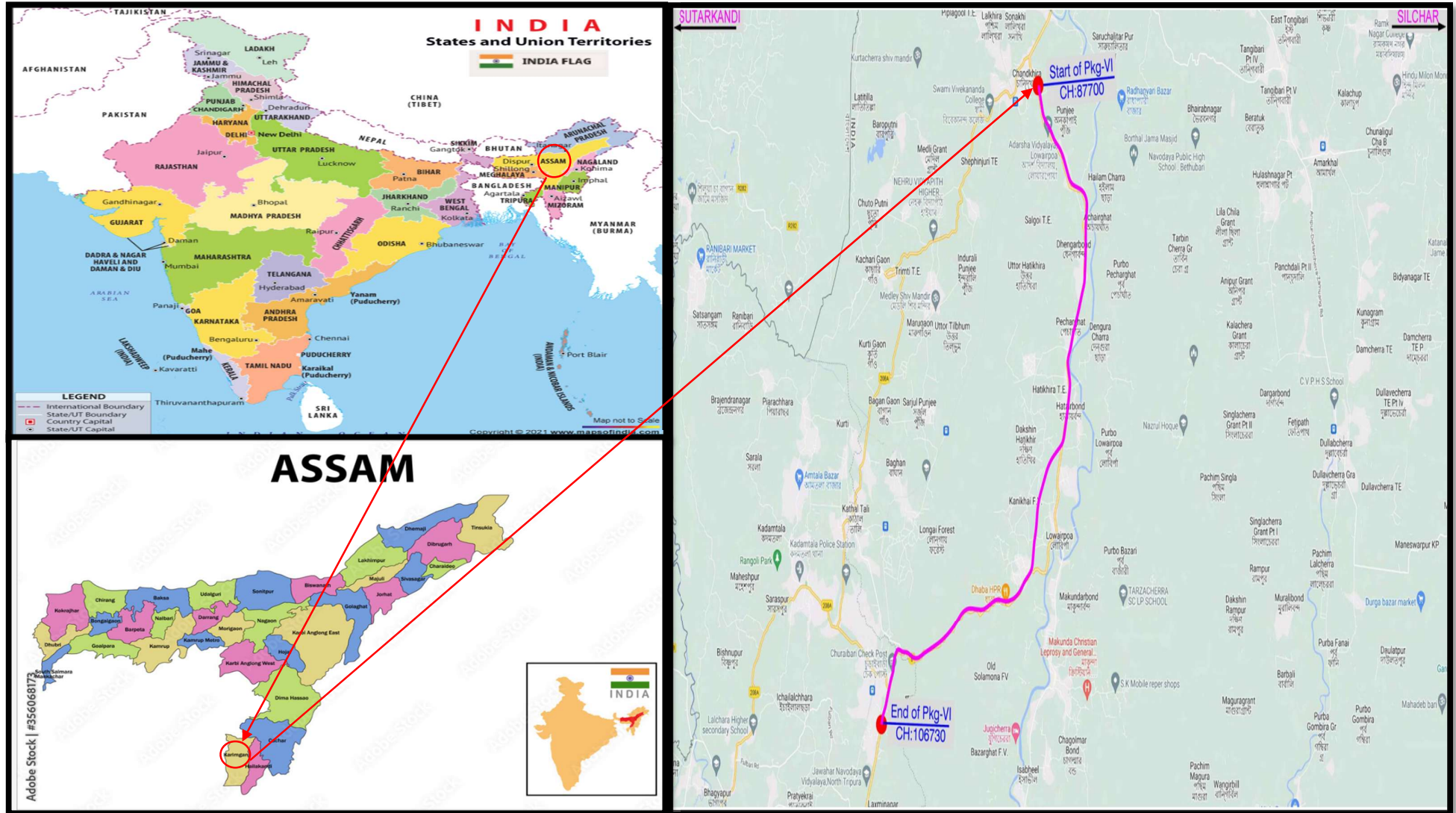
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PROJECT ROAD LOCATION MAP / INDEX MAP



Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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EXECUTIVE SUMMARY

The Concessionaire has signed the Concession Agreement with National Highway Infrastructure Development Corporation Limited (NHIDCL) on dated May 31, 2024. This Executive Summary presents the works progress of the Project Highway during the construction period from March 7, 2025 to March 7, 2027.

1. The Project Road:

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

2. Mobilization:

The Concessionaire has mobilized the required Engineers/ Staff Personnel, Machineries/Equipment's, Plants and established main Base Camp at CH: - 88+700 RHS (Chandkhira).

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

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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

6. 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.	18.800	18.800	0.000	18.800	
2.	Plan & Profile (SR)	Km.	10.440	10.440	0.000	10.440	
3.	RE Wall	SqM.	52300.00	0.00	0.00	52300.00	
4.	Minor Bridge	Nos.	24.00	10.00	1.00	23.00	
5.	Underpass	Nos.	6.00	4.00	0.00	6.00	
6.	Culvert	Nos.	100.00	30.00	5.00	95.00	

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

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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-06/201, dated 18.04.2025 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-06/169 on dated 01.04.2025. 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 March 7, 2025, the Scheduled completion Date shall occur on March 7, 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.

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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 14.508 Km out of 18.800 Km:

Stretches/ Encumbrances Free Land				Encumbrances/ Hindered Land		
Sr. No.	Side	Length (Km)	%	Side	Length (Km)	%
1.	BHS	14.508	77.17%	BHS	4.292	22.82%

b) Hindered due to Tree Cutting:

Description	Total Nos.	Impacted Length (km)	Remark
Total Trees	691	5.95	

c) Encumbrances due to Religious structures etc.:

Sr. No.	Types	Chainage	Side	Remarks
1.	Grave	87+800	RHS	
2.	Small Temple without Shed	88+480	LHS	
3.	Bhagwati Temple	89+750	LHS	
4.	Vishwakarma Temple	90+390	LHS	
5.	Temple Building	92+360	LHS	
6.	Temple	92+780	LHS	
7.	Shiv & Kali Temple	94+200	RHS	
8.	Small Temple Structure	94+300	RHS	
9.	Temple	94+700	RHS	
10.	Temple	94+760	LHS	
11.	Sai Temple	95+280	RHS	
12.	Jama Masjid	95+650	RHS	
13.	Temple	95+750	RHS	
14.	Bishnu Temple	100+800	LHS	
15.	Old Temple Shed & Pipal Tree	102+610	RHS	
16.	Shiv Temple Shed	104+400	LHS	
17.	Temple Building	105+800	RHS	
18.	Shiv Temple	106+390	LHS	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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d) Details of Hindered Land:

Side	LHS				RHS				
SN	From	To	Length (Mtr)	Remarks	SN	From	To	Length (Mtr)	Remarks
1.	87+700	87+730	30.00	Structure	1.	88+030	88+060	30.00	Structure
2.	88+050	88+100	50.00	Structure	2.	88+700	88+750	50.00	Structure
3.	88+540	88+570	30.00	Structure	3.	88+820	88+940	120.00	Structure
4.	88+950	89+020	70.00	Structure	4.	89+230	89+250	20.00	Structure
5.	89+310	89+390	80.00	Structure	5.	89+310	89+390	80.00	Structure
6.	89+430	89+490	60.00	Structure	6.	90+120	90+170	50.00	Structure
7.	89+710	89+810	100.00	Structure	7.	90+330	90+400	70.00	Structure
8.	89+860	89+900	40.00	Structure	8.	90+500	90+530	30.00	Structure
9.	90+010	90+040	30.00	Structure	9.	90+560	90+640	80.00	Structure
10.	90+130	90+160	30.00	Structure	10.	91+110	91+190	80.00	Structure
11.	90+260	90+290	30.00	Structure	11.	91+300	91+340	40.00	Structure
12.	90+330	90+440	110.00	Structure	12.	91+710	91+900	190.00	Structure
13.	90+810	90+920	110.00	Structure	13.	92+240	92+330	90.00	Structure
14.	91+050	91+100	50.00	Structure	14.	92+360	92+450	90.00	Structure
15.	91+140	91+200	60.00	Structure	15.	92+670	92+700	30.00	Structure
16.	91+570	91+630	60.00	Structure	16.	92+790	92+960	170.00	Structure
17.	91+710	91+910	200.00	Structure	17.	93+420	93+500	80.00	Structure
18.	92+100	92+140	40.00	Structure	18.	94+000	94+030	30.00	Structure
19.	92+160	92+400	240.00	Structure	19.	94+210	94+310	100.00	Structure
20.	92+610	92+650	40.00	Structure	20.	94+360	94+490	130.00	Structure
21.	92+680	92+730	50.00	Structure	21.	94+540	94+760	220.00	Structure
22.	93+000	93+050	50.00	Structure	22.	95+110	95+235	125.00	Structure
23.	93+490	93+520	30.00	Structure	23.	95+320	95+340	20.00	Structure
24.	93+730	93+760	30.00	Structure	24.	95+400	95+860	460.00	Structure
25.	94+090	94+120	30.00	Structure	25.	100+400	100+420	20.00	Structure
26.	94+130	94+150	20.00	Structure	26.	100+510	100+610	100.00	Structure
27.	94+200	94+430	230.00	Structure	27.	100+730	100+800	70.00	Structure
28.	94+450	94+500	50.00	Structure	28.	100+920	101+060	140.00	Structure

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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29.	94+560	94+750	190.00	Structure	29.	101+950	102+020	70.00	Structure
30.	95+320	95+350	30.00	Structure	30.	102+208	106+500	4292.00	Forest Land
31.	95+360	95+380	20.00	Structure					
32.	95+400	95+480	80.00	Structure					
33.	95+630	95+890	260.00	Structure					
34.	95+950	95+960	10.00	Structure					
35.	96+550	96+620	70.00	Structure					
36.	100+710	100+860	150.00	Structure					
37.	100+000	101+090	90.00	Structure					
38.	101+250	101+280	30.00	Structure					
39.	101+300	101+350	50.00	Structure					
40.	101+945	102+030	85.00	Structure					
41.	102+208	106+500	4292.00	Forest Land					
Total Length in RMT			7307.00		Total Length in RMT			7077.00	

CHAPTER-1

INTRODUCTION

General

The NHIDCL proposes to implement the development, maintenance, and management of the NH-37 & NH-8 stretch from Silchar to Churibari and spur from Karimganj to Sutarkandi from chainage Km. 38.600 to Km. 106.500 into 4-lane access controlled corridor. The proposed project road has been selected to improve connectivity and reduce travel time from Assam to Tripura. Also, this connectivity will improve international road connectivity between India and Bangladesh. To achieve the above task, NHIDCL has appointed M/s. Aarvee Associates Architects Engineers and Consultants Pvt. Ltd. The Letter of Acceptance was communicated vide letter No. NHIDCL / Assam / DPR / SilcharChuraibari /222542/ 2581 and the agreement was signed on September 1, 2023. The entire project is divided into 5 packages.

Project Overview

As described earlier the project road lies on NH8 and connects Chandkhira village to Churaibari village (Assam Tripura border). The proposed alignment passes through Karimganj district in the state of Assam connecting villages Chandkhira, Lowairpoa, Dakhin Hatikhira etc.

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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CHAPTER-2

CONTRACT DATA

Sr. No.	Items	Description
1.	Name of Project	Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km).
2.	Project Length	18.80 km
3.	Project Bid Cost	449.89 Cr.
4.	Authority	National Highways & Infrastructure Development Corporation Limited
5.	Independent Engineer	M/s Agnitio Infrastructure Projects Pvt. Ltd. in JV with M/s Ayoleeza Consultants Pvt. Ltd.
6.	Concessionaire	MKC Badarpur Churaibari Kamakhya 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/Procurement/Assam/2023-24/228965/3086 dated 11.03.2024
10.	Date of Concession Agreement	May 31, 2024
11.	Appointed Date	March 7, 2025
12.	Construction Period	730 days (from Appointed Date) [24-Months]
13.	Schedule Completion Date	March 7, 2027
14.	O&M Period	15 Years from the date of COD

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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15	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., March 7, 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., May 19, 2026)- (Prior to the occurrence of Project Milestone-II, the Concessionaire shall have expended not less than 35% of the total capital cost set forth in the Financial Package. Provided, however, that at least 70% of the expenditure referred to hereinabove shall have been incurred on physical works which shall not include advances of any kind to any person or expenditure of any kind on plant and machinery and the concessionaire shall have commenced construction of the project and achieved 35% Physical Progress.).
	Milestone- III	620th Day from Appointed Date (i.e., November 17, 2026) (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., March 7, 2027) The concessionaire shall have completed the Project in accordance with the Concession Agreement.

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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	CTSB	CTB	AIL	DBM	BC
MCW	87+700	106+500	18.800	500.00	200.00	100.00	100.00	65.00	40.00
				Sub-Grade	CTSB	WMM	DBM	BC	
Service Road				500.00	200.00	150.00	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.	Minor Bridge	Reconstruction	Nos.	10.00	
		Retained and Widened	Nos.	9.00	
		New Construction	Nos.	5.00	
2.	VUP	New Construction	Nos.	2.00	
3.	LVUP	New Construction	Nos.	4.00	
4.	Box Culvert	Reconstruction	Nos.	25.00	
		Widening	Nos.	6.00	
		New Construction	Nos.	7.00	
5.	Hume Pipe Culvert	Widening	Nos.	10.00	
		Cross Road	Nos.	12.00	
6.	Minor Junction		Nos.	6.00	
7.	W-beam Single faced metal crash barrier		Rmt.	22662.00	
8.	Drain (covered)		Rmt.	20.900	

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 24- Minor Bridge, 6- Underpasses, 100- Culverts.
- Construction of Slip Road of 10.440 Km (L)

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

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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	Inprogress	
3	Clause 18.1.2	Safety Consultant	TBA	
4	Article 21	Appointment of Independent Engineer	Appoint	But, did not received letter from Authority.
5	Clause 10.3	Joint Memorandum	Done	07.03.2025

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	In Process	
6		Permission of Village Panchayet and Pollution Board for installation of crushers	Done	
7		License for use of explosives	N/A	
8		Permission of the State Govt. from drawing water from river/ reservoir	In Process	
9		Any other permits or clearance	In Process	
10		Labour Licence	Done	
11	Clause 12.1	Quality Assurance Plan	Submit	MKCIL-169 dt. 01.04.2025
11		Construction Methodology	Submit	MKCIL-178 dt. 07.04.2025

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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	Qty	Remarks
1.	EHT Crossing	Nos.	8.00	
2.	HT/ LT lines (including Transformers if any)	Nos.	741.00	
3.	HT/ LT crossing	Nos.	67.00	
4.	Water Pipeline	Km	26.98	
5.	Water Pipeline Crossing	Nos.	24.00	

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	691.00	
2.	Total Felling of Trees	230.00	
3.	Balance Trees	461.00	

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 7th 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

Side	LHS				RHS				
SN	From	To	Length (Mtr)	Remarks	SN	From	To	Length (Mtr)	Remarks
1.	87+700	87+730	30.00	Structure	1.	88+030	88+060	30.00	Structure
2.	88+050	88+100	50.00	Structure	2.	88+700	88+750	50.00	Structure
3.	88+540	88+570	30.00	Structure	3.	88+820	88+940	120.00	Structure
4.	88+950	89+020	70.00	Structure	4.	89+230	89+250	20.00	Structure
5.	89+310	89+390	80.00	Structure	5.	89+310	89+390	80.00	Structure

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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6.	89+430	89+490	60.00	Structure	6.	90+120	90+170	50.00	Structure
7.	89+710	89+810	100.00	Structure	7.	90+330	90+400	70.00	Structure
8.	89+860	89+900	40.00	Structure	8.	90+500	90+530	30.00	Structure
9.	90+010	90+040	30.00	Structure	9.	90+560	90+640	80.00	Structure
10.	90+130	90+160	30.00	Structure	10.	91+110	91+190	80.00	Structure
11.	90+260	90+290	30.00	Structure	11.	91+300	91+340	40.00	Structure
12.	90+330	90+440	110.00	Structure	12.	91+710	91+900	190.00	Structure
13.	90+810	90+920	110.00	Structure	13.	92+240	92+330	90.00	Structure
14.	91+050	91+100	50.00	Structure	14.	92+360	92+450	90.00	Structure
15.	91+140	91+200	60.00	Structure	15.	92+670	92+700	30.00	Structure
16.	91+570	91+630	60.00	Structure	16.	92+790	92+960	170.00	Structure
17.	91+710	91+910	200.00	Structure	17.	93+420	93+500	80.00	Structure
18.	92+100	92+140	40.00	Structure	18.	94+000	94+030	30.00	Structure
19.	92+160	92+400	240.00	Structure	19.	94+210	94+310	100.00	Structure
20.	92+610	92+650	40.00	Structure	20.	94+360	94+490	130.00	Structure
21.	92+680	92+730	50.00	Structure	21.	94+540	94+760	220.00	Structure
22.	93+000	93+050	50.00	Structure	22.	95+110	95+235	125.00	Structure
23.	93+490	93+520	30.00	Structure	23.	95+320	95+340	20.00	Structure
24.	93+730	93+760	30.00	Structure	24.	95+400	95+860	460.00	Structure
25.	94+090	94+120	30.00	Structure	25.	100+400	100+420	20.00	Structure
26.	94+130	94+150	20.00	Structure	26.	100+510	100+610	100.00	Structure
27.	94+200	94+430	230.00	Structure	27.	100+730	100+800	70.00	Structure
28.	94+450	94+500	50.00	Structure	28.	100+920	101+060	140.00	Structure
29.	94+560	94+750	190.00	Structure	29.	101+950	102+020	70.00	Structure
30.	95+320	95+350	30.00	Structure	30.	102+208	106+500	4292.00	Forest Land
31.	95+360	95+380	20.00	Structure					
32.	95+400	95+480	80.00	Structure					
33.	95+630	95+890	260.00	Structure					
34.	95+950	95+960	10.00	Structure					
35.	96+550	96+620	70.00	Structure					
36.	100+710	100+860	150.00	Structure					

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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37.	100+000	101+090	90.00	Structure					
38.	101+250	101+280	30.00	Structure					
39.	101+300	101+350	50.00	Structure					
40.	101+945	102+030	85.00	Structure					
41.	102+208	106+500	4292.00	Forest Land					
Total LHS in RMT			7307.00		Total RHS in RMT			7077.00	
Total Length BHS in RMT				14384.00					

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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CHAPTER -6

MOBILIZATION

6.1 Manpower Mobilization of Concessionaire

Sr. No.	Name	Designation	Department	Remark
1	Mr. Satish Chandra Pandeya	Senior General Manager	Tech. & Operation	HQ
2	Mr. Ajeet Kumar Shukla	Project Manager	Project Execution	
3	Mr. Ajeet Kumar	Deputy Manager	HR/Admin	
4	Mr. Dharendra Thapa	Sr. Executive -Admin	HR/Admin	
5	Mr. Vikash Kumar Mishra	Executive	HR/Admin	
6	Mr. Amit Kumar Verma	Supervisor	Admin	
7	Mr. Rakesh Samanta	Deputy Manager	Survey	
8	Mr. Sunil Singh	Sr. Surveyor	Survey	
9	Mr. Dipanker Maity	Sr. Surveyor	Survey	
10	Mr. Saurav Nayak	Asst. Surveyor	Survey	
11	Mr. Vinay Ram Dubey	Asst. Manager	Liaison	
12	Mr. Gulzar Ahmed	Executive	Liaison	
13	Mr. Biswajit Santra	Manager	QA/ QC	
14	Mr. Jitendra Kumar Sah	Engineer	QA/ QC	
15	Mr. Kanhaiya Singh	Lab Technician	QA/ QC	
16	Mr. Shivam Dubey	Lab Technician	QA/ QC	
17	Mr. Sandeep Kumar Vishwakarma	Lab Technician	QA/ QC	
18	Mr. Pawas Kumar	Lab Assistant	QA/ QC	
19	Mr. Mohan Kumar Jha	Sr. Engineer	Highway	
20	Mr. Sonu Singh	Sr. Engineer	Highway	
21	Mr. Ram Narain Sharma	Sr. Supervisor	Highway	
22	Mr. Gopal kharol	Supervisor	Highway	
23	Mr. Surendra Sharma	Sr. Supervisor	Highway	
24	Mr. Ankit Singh	Deputy Manager	Structure	
25	Mr. Jagdish Yadav	Sr. Engineer	Structure	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

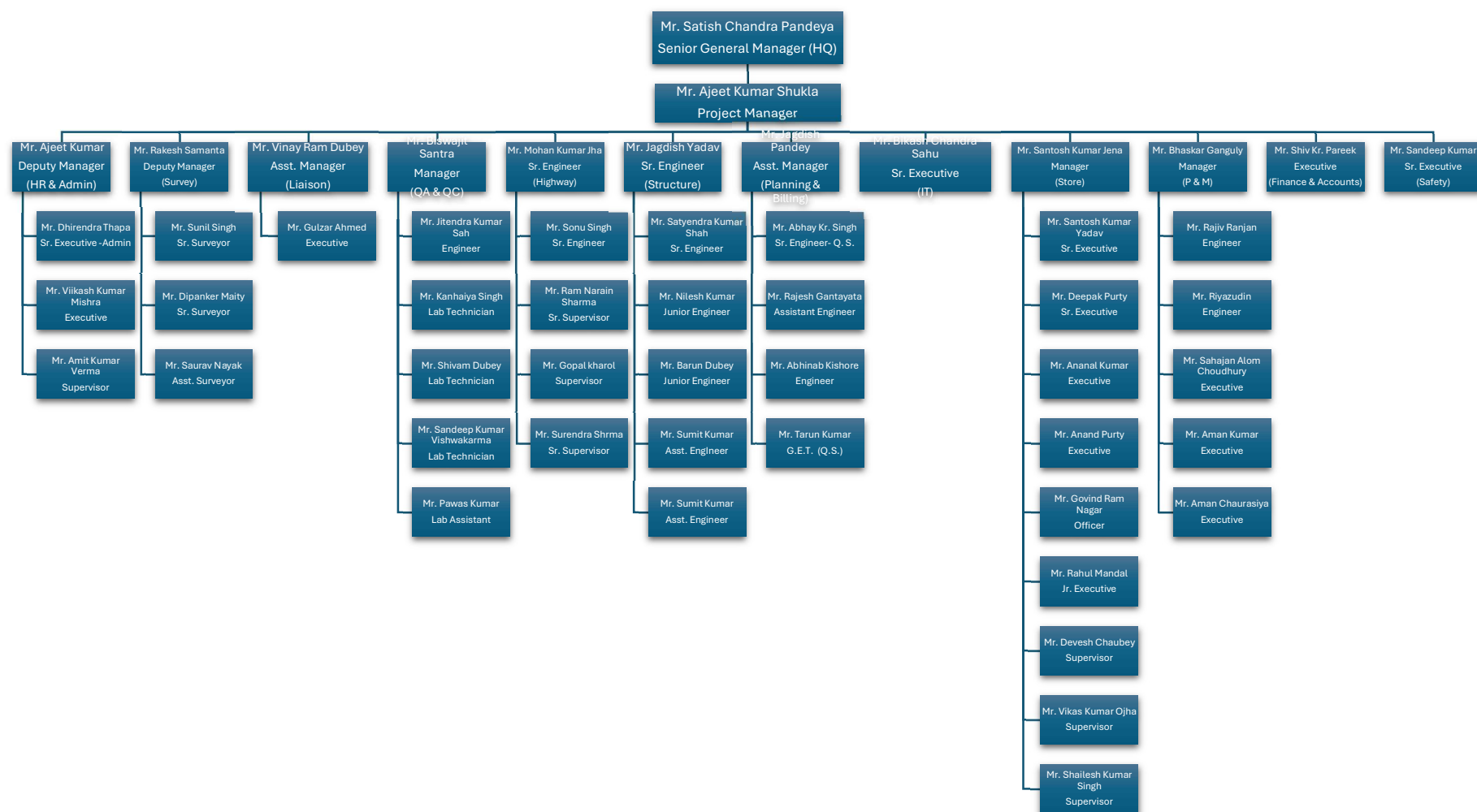
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26	Mr. Satyendra Kumar Shah	Sr. Engineer	Structure	
27	Mr. Nilesh Kumar	Junior Engineer	Structure	
28	Mr. Barun Dubey	Junior Engineer	Structure	
29	Mr. Sumit Kumar	Asst. Engineer	Structure	
30	Mr. Jagdish Pandey	Asst. Manager	Billing	
31	Mr. Abhay Kr. Singh	Sr. Engineer- Q. S.	Billing	
32	Mr. Rajesh Gantayata	Assistant Engineer	Billing	
33	Mr. Abhinab Kishore	Engineer	Billing	
34	Mr. Tarun Kumar	G.E.T. (Q.S.)	Planning & Billing	
35	Mr. Bikash Chandra Sahu	Sr. Executive - IT	IT	
36	Mr. Anish Pati Tiwari	Asst. Manager	Store	
37	Mr. Santosh Kumar Jena	Manager	Store	
38	Mr. Santosh Kumar Yadav	Sr. Executive	Store	
39	Mr. Deepak Purty	Sr. Executive	Store	
40	Mr. Ananal Kumar	Executive	Store	
41	Mr. Anand Purty	Executive	Store	
42	Mr. Govind Ram Nagar	Officer	Store	
43	Mr. Rahul Mandal	Jr. Executive	Store	
44	Mr. Devesh Chaubey	Supervisor	Store	
45	Mr. Vikas Kumar Ojha	Supervisor	Store	
46	Mr. Shailesh Kumar Singh	Supervisor	Store	
47	Mr. Bhaskar Ganguly	Manager	Mechanical	
48	Mr. Rajiv Ranjan	Engineer	Mechanical	
49	Mr. Riyazudin	Engineer	Mechanical	
50	Mr. Sahajan Alom Choudhury	Executive	Mechanical	
51	Mr. Aman Kumar	Executive	Mechanical	
52	Mr. Aman Chaurasiya	Executive	Mechanical	
53	Mr. Shiv Kr. Pareek	Executive - Accounts	F & A	
54	Mr. Sandeep Kumar	Sr. Executive	Safety	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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6.2 Organization Chart of Concessionaire



Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed

Type of Machine	Make	Model	Year of Mfg.
BOLERO CAMPER#ZX 2WD	MAHINDRA	BOLERO CAMPER GOLDZX BS6	2024
BOLERO#CAMPER#GOLDZX	MAHINDRA	BOLERO CAMPER GOLD ZX 2WD PS	2024
CAMPER	MAHINDRA	GOLD ZXD	2025
TRAILER	TATA	LPS 4018 BS3	2016
MOBILE CRANE	ACE	14XW	2024
WEIGH BRIDGE# 120MT	DARSAN	120 MT 16*3 MTR	2024
GENSET	KIRLOSKAR	125 KVA	2025
GENSET	KIRLOSKAR	160 KVA	2025
GENSET 25KVA	KIRLOSKAR	25 KVA	2024
GENSET 25KVA	KIRLOSKAR	25 KVA	2024
GENSET 125KVA	KIRLOSKAR	125 KVA	2024
BACKHOE LOADER 3DX	JCB	3DX ECO XPRT	2024
TOYOTA FORTUNER	TOYOTA	FORTUNER	N/A
SOIL COMPACTOR	HAMM	HC119i	2024
SOIL COMPACTOR	HAMM	HC119i	2024
SOIL COMPACTOR	HAMM	HC119i	2024
MINI ROLLER	CASE	450DX	2023
MINI ROLLER	CASE	450DX	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC205-10M0	2023
EXCAVATOR	KOMATSU	PC210	2021
EXCAVATOR	HYUNDAI	R215L SMART PLUS	2025
EXCAVATOR	HYUNDAI	R215L SMART PLUS	2025
EXCAVATOR	HYUNDAI	R215L SMART PLUS	2025
MOTOR GRADER	CATERPILLAR	120 NG	2023
MOTOR GRADER	CATERPILLAR	122 NG	2024
TIPPER	ASHOK LEYLAND	UE2825	2024
TIPPER	ASHOK LEYLAND	UE2825	2024
TIPPER	ASHOK LEYLAND	UE2825	2024
TIPPER	ASHOK LEYLAND	M3520T	2021
TIPPER	ASHOK LEYLAND	UE2825	2024
TIPPER	ASHOK LEYLAND	UE2825	2024

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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TRANSIT MIXER	ASHOK LEYLAND	UE2820/39 R	2020
TRANSIT MIXER	SCHWING Stetter	AM7SHN2	2020
TRANSIT MIXER	ASHOK LEYLAND	UE2820/39 R	2020
TRANSIT MIXER	SCHWING Stetter	AM7SHN2	2020
TRANSIT MIXER	ASHOK LEYLAND	UE2820/39 R	2023
TRANSIT MIXER	SCHWING Stetter	AM7SHN2	2023
TRANSIT MIXER	ASHOK LEYLAND	UE2820/39 R	2023
TRANSIT MIXER	SCHWING Stetter	AM7SHN2	2023
CONCRETE BATCHING PLANT#45CUM	SCHWING STETTER (INDIA)	H0.75NG	2024
CEMENT SILO SCHWING	SCHWING STETTER (INDIA)	100MT	2024
CEMENT SILO SCHWING	SCHWING STETTER (INDIA)	100MT	2024
CEMENT SILO SCHWING	SCHWING STETTER (INDIA)	100MT	2024
DIESEL DISPENSER ECOMET 1015	ASHOK LEYLAND	CA1015/32 H CC	2024
DIESEL DISPENSER PARTNER MES-C	ASHOK LEYLAND	ZD30DDTi PARTNER Ls	2024
TRACT LOADER 5310	JOHN DEERE TRACT	LOADER 5310	2023
7.5 KVA GENARATOR	BIG TYRE	7.5 KVA GENARATOR	
MOBILE CRANE TRX 30			
TRACTOR & TROLLY			
TRACTOR & TROLLY			
TRANSIT MIXER			
TRANSIT MIXER			
TRANSIT MIXER			

CHAPTER-8

DESIGN AND DRAWING

The project highway has been designed for four lane divided carriageway facility with provision of central raised median of 2.5M. 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	18.800	18.800	0.000	18.800	
2.	Plan & Profile SR	Km	10.440	10.440	0.000	10.440	
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	52300.00	-	-	-	
7.	Minor Junction	Nos	24.00		-	-	
8.	Signage Plan	Nos	1.00	-	-	-	
9.	Rest Area	Nos	1.00	-	-	-	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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Structure Works

S N	Type of Str.	Chainage	Span Arrangement	Submission Letter No.	Date	Status	IE Letter No.	Date	Remarks
1	Pipe Culvert	89+127	1 x 1.2						Cross Road
2	Pipe Culvert	91+448	1 x 1.2						Cross Road
3	Pipe Culvert	91+913	1 x 1.2						Cross Road
4	Pipe Culvert	92+021	1 x 1.2						Cross Road
5	Pipe Culvert	92+100	1 x 1.2						Cross Road
6	Pipe Culvert	92+700	1 x 1.2						Cross Road
7	Pipe Culvert	93+700	1 x 1.2						Cross Road
8	Pipe Culvert	96+000	1 x 1.2						Cross Road
9	Pipe Culvert	96+217	1 x 1.2						Cross Road
10	Pipe Culvert	98+120	1 x 1.2						Cross Road
11	Pipe Culvert	101+235	1 x 1.2						Cross Road
12	Pipe Culvert	101+382	1 x 1.2						Cross Road
1	Pipe Culvert	93+516	1 x 0.9						
2	Pipe Culvert	97+271	2 x 1.20						
3	Pipe Culvert	97+381	2 x 1.20						
4	Pipe Culvert	97+941	2 x 1.20						
5	Pipe Culvert	98+051	3 x 1.20						
6	Pipe Culvert	98+894	3 x 1.20						
7	Pipe Culvert	98+944	2 x 1.20						
8	Pipe Culvert	99+375	2 x 1.20						
9	Pipe Culvert	99+601	2 x 1.20						
10	Pipe Culvert	99+970	2 x 1.20						
1	Box Culvert	88+612	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
2	Box Culvert	89+049	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/103	27-01-2025				
3	Box Culvert	89+847	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/180	07-04-2025				
4	Box Culvert	90+323	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
5	Box Culvert	90+747	1 x 5.0 x 5.0	MKCIL/ASSAM/ PKG-06/179	07-04-2025				
6	Box Culvert	90+970	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
7	Box Culvert	91+349	1 x 4.0 x 4.0	MKCIL/ASSAM/ PKG-06/183	07-04-2025				
8	Box Culvert	91+665	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
9	Box Culvert	92+047	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/085	11-01-2025				
10	Box Culvert	92+862	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/077	06-01-2025				
11	Box Culvert	93+118	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/085	11-01-2025				

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12	Box Culvert	93+354	1 x 2.0 x 2.0						
13	Box Culvert	94+345	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/085	11-01-2025				
14	Box Culvert	94+814	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/085	11-01-2025				
15	Box Culvert	94+925	1 x 2.0 x 2.0						
16	Box Culvert	96+430	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
17	Box Culvert	96+692	1 x 4.0 x 4.0						
18	Box Culvert	96+951	1 x 4.0 x 4.0						
19	Box Culvert	98+374	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
20	Box Culvert	98+444	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/085	11-01-2025				
21	Box Culvert	99+443	1 x 2.0 x 2.0						
22	Box Culvert	99+517	1 x 2.0 x 2.0						
23	Box Culvert	99+693	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/078	06-01-2025				
24	Box Culvert	99+895	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/081	09-01-2025				
25	Box Culvert	100+477	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/103	27-01-2025				
26	Box Culvert	100+666	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/103	27-01-2025				
27	Box Culvert	100+864	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/081	09-01-2025				
28	Box Culvert	101+061	1 x 4.0 x 4.0						
29	Box Culvert	101+192	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
30	Box Culvert	101+383	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
31	Box Culvert	101+538	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
32	Box Culvert	101+883	1 x 2.0 x 2.0						
33	Box Culvert	102+969	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
34	Box Culvert	103+662	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/179	07-04-2025				
35	Box Culvert	103+918	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
36	Box Culvert	104+744	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/074	04-01-2025				
37	Box Culvert	104+941	1 x 2.0 x 2.0	MKCIL/ASSAM/ PKG-06/096	23-01-2025				
38	Box Culvert	105+088	1 x 3.0 x 3.0	MKCIL/ASSAM/ PKG-06/180	07-04-2025				
1	MNB	87+787	1x25						
2	MNB	89+543	1x10	MKCIL/ASSAM/ PKG-06/196	14.04.2025				
3	MNB	89+568	1x20						
4	MNB	90+543	2x6						
5	MNB	92+714	1x20						
6	MNB	95+595	1x20						
7	MNB	97+102	1x6	MKCIL/ASSAM/ PKG-06/210	23.04.2025				
8	MNB	97+458	1x6						
9	MNB	97+673	1x6	MKCIL/ASSAM/ PKG-06/083	09-01-2025				

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10	MNB	97+782	1x6	MKCIL/ASSAM/ PKG-06/083	09-01-2025				
11	MNB	98+267	1x6	MKCIL/ASSAM/ PKG-06/083	09-01-2025				
12	MNB	98+508	1x6	MKCIL/ASSAM/ PKG-06/210	23.04.2025				
13	MNB	98+631	1x6	MKCIL/ASSAM/ PKG-06/210	23.04.2025				
14	MNB	99+045	1x6	MKCIL/ASSAM/ PKG-06/083	09-01-2025				
15	MNB	99+247	1x6	MKCIL/ASSAM/ PKG-06/094	20-01-2025				
16	MNB	102+109	1x6	MKCIL/ASSAM/ PKG-06/071	03-01-2025				
17	MNB	102+508	1x6	MKCIL/ASSAM/ PKG-06/071	03-01-2025				
18	MNB	103+116	1x6	MKCIL/ASSAM/ PKG-06/071	03-01-2025				
19	MNB	103+437	3x6						
20	MNB	103+784	1x6	MKCIL/ASSAM/ PKG-06/071	03-01-2025				
21	MNB	104+443	2x3	MKCIL/ASSAM/ PKG-06/071	03-01-2025				
22	MNB	105+378	1x6						
23	MNB	105+697	1x16						
24	MNB	106+306	1x20						
1	LVUP	88+886	1x12	MKCIL/ASSAM/ PKG-06/072	03-01-2025				
2	LVUP	92+248	1x12	MKCIL/ASSAM/ PKG-06/072	03-01-2025				
3	LVUP	94+625	1x12	MKCIL/ASSAM/ PKG-06/072	03-01-2025				
4	LVUP	98+586	1x12	MKCIL/ASSAM/ PKG-06/072	03-01-2025				
1	VUP	97+000	1x20						
2	VUP	100+290	1x20						
1	Typical		1x2.0	MKCIL/ASSAM/ PKG-06/065	26-12-2024				
2	Typical		1x3.0	MKCIL/ASSAM/ PKG-06/076	06-01-2025				

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CHAPTER-9

PROJECT WORK PROGRESS

9.1 Work Progress:

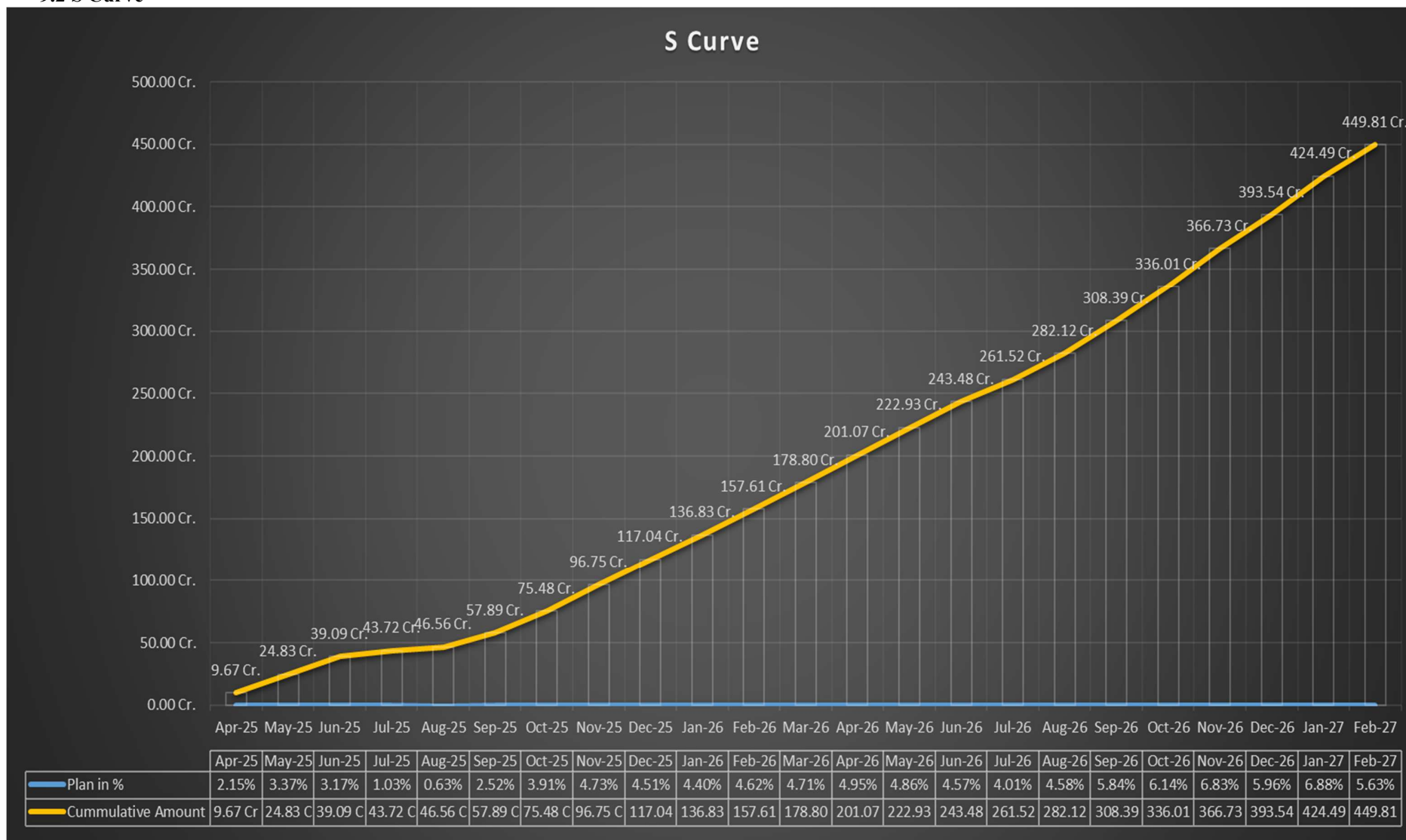
Progress as per Schedule G for the month April-2025.

Item	Stage for measurement of Physical Progress	Unit	Qty.	Weightage in percentage to the contract price	Unit Rate	Physical Progress upto this Month	% Physical Progress	Vaalue of Physical Progress
B - New 4 Lane Realignment/Bypass								
Road works including culverts, minor Bridges, underpasses, overpasses, approaches to ROB/RUB/Major Bridges/Strctures (But excluding service road)	(1) Earthwork upto top of Sub-grade	L-Km	36.86	14.18%	1,73,05,275.92	3.83	10.39%	1.47%
	(2) Granular work (Sub-base, base, shoulder)							
	(a) CTSB	L-Km	36.86	8.97%	1,09,50,788.14			
	(b) CTB	L-Km	36.86	3.40%	41,52,579.17			
	(c) Aggregate Interlocking Layer (AIL)	L-Km	36.86	3.42%	41,69,120.53			
	(3) Shoulders	L-Km	36.86	0.17%	2,05,905.21			
	(4) Bituminous Work							
	(a) DBM	L-Km	36.86	5.50%	67,14,117.75			
	(b) BC	L-Km	37.60	3.56%	42,53,533.07			
	Sub Total-B							
	C - New Culverts, Minor Bridges, underpasses, overpasses on existing road, realignment, bypasses:							
	1) Culverts (Precast)	No.	88.00	5.29%	27,05,074.70	5.00	5.68%	0.30%
	2) Minor Bridge							
	a) Foundation	No.	24.00	9.39%	1,75,89,780.72	3.00	12.50%	1.17%
	b) Sub-Structure	No.	24.00	3.50%	65,68,867.26			
	c) Super-Structure (including Crash Barrier etc. Complete)							
	i) Girder Type - Precast Girder (40%)	No.	6.00	1.72%	1,28,76,045.82			
	ii) Girder Type - Cast in situ superstructure (60%)	No.	6.00	2.58%	1,93,14,068.73			
	iii) Box Type - Cast-in-situ superstructure	No.	18.00	4.80%	1,19,97,073.99			
	5) Grade Separated Structures							
	a) Underpasses							
	i) Foundation	No.	6.00	1.92%	1,43,99,391.18	2.00	33.33%	0.64%
	ii) Sub-Structure	No.	6.00	0.74%	55,21,310.80			
	iii) Super-Structure (including Crash Barrier,Wearing coat etc. Complete)							
	i) Girder Type - Precast Girder (40%)	No.	2.00	0.29%	65,00,848.42			
	ii) Girder Type - Cast in situ superstructure (60%)	No.	2.00	0.43%	97,51,272.64			
	iii) Box Type - Cast-in-situ superstructure	No.	4.00	0.51%	57,44,330.74			
Structures (Elevated Section, Reinforced earth)	4) Reinforced Earth Wall (includes Approaches of ROB, Underpasses, Over passes, Flyover etc.)							
	i) On Casting (5%)	Sq.m	52,300.00	0.08%	66.37			
	ii) On Erection (95%)	Sq.m	52,300.00	1.47%	1,261.12			
UTILITY SHIFTING								
Electrical and Public Health Utilities	EHT Crossing	No.	8.00	2.47%	1,38,99,600.72			
	HT/LT lines (including Transformers if any)	Km	18.80	0.17%	4,11,191.59	4.00	21.28%	0.04%
	HT/LT crossings	No.	67.00	1.16%	7,78,377.64	64.00	95.52%	1.11%
	Water pipeline	L-Km	26.98	1.08%	17,95,828.41	17.62	65.31%	0.70%
	Water pipeline crossings	No.	23.00	0.70%	13,71,598.37			
Other Works								
Other Works	i) - Service Road/ Slip Road	L-Km	20.90	9.43%	2,02,86,014.12			
	iii) Drain							
	a) Road Side Drain (RCC Drain)	L-Km	20.90	3.88%	83,46,403.34			
	b) Unlined Drain	L-Km	15.36	0.05%	1,41,025.93			
	d) Chute Drain	L-Km	13.30	0.14%	4,67,244.60			
	iv) - Road signs,markings, Km Stone, Safety devices							
	(a) Road signs,markings, Km Stone	L-Km	37.60	0.55%	6,63,035.01			
	(d) Concrete Crash Barrier/W Beam Crash Barrier in Road work	L-Km	27.73	2.29%	37,22,467.26			
	v) - Project Facilities							
	(a) Bus Stop	No.	12.00	0.03%	1,11,196.81			
	(b) Rest Area	No.	1.00	0.87%	3,89,18,882.01			
	(c) Rain Water Harvesting	No.	38.00	0.14%	1,61,077.47			
	viii) - Protection Work							
	(a) Boulder Pitching/Geo Cell lying on Slopes	L-Km	13.30	0.51%	17,24,073.58			
	(b) Toe Wall / Retaining Wall	L-Km	2.56	2.74%	4,82,14,225.58			
	x) Miscellaneous							
	(a) Street Lightnring	No.	1,672.00	1.00%	26,853.50			
	(b)ATMS, HTMS, Traffic Aid Posts, Medical aid Posts, Vehicle Recue Posts, Telecom System	Km	18.80	0.89%	21,23,615.47			
Grand Total				100.00%				5.44%

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.2 S Curve

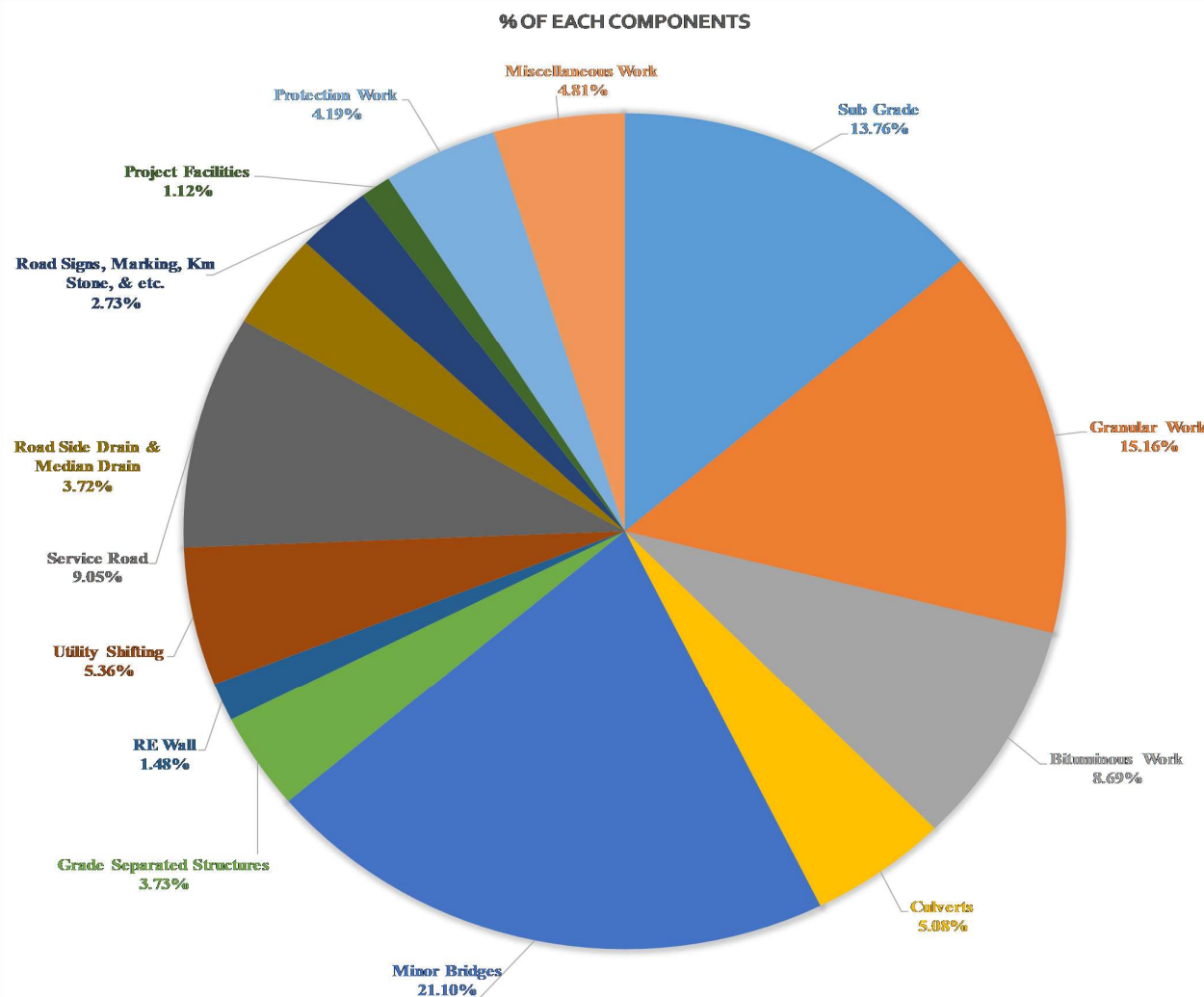


Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.3 Weightages

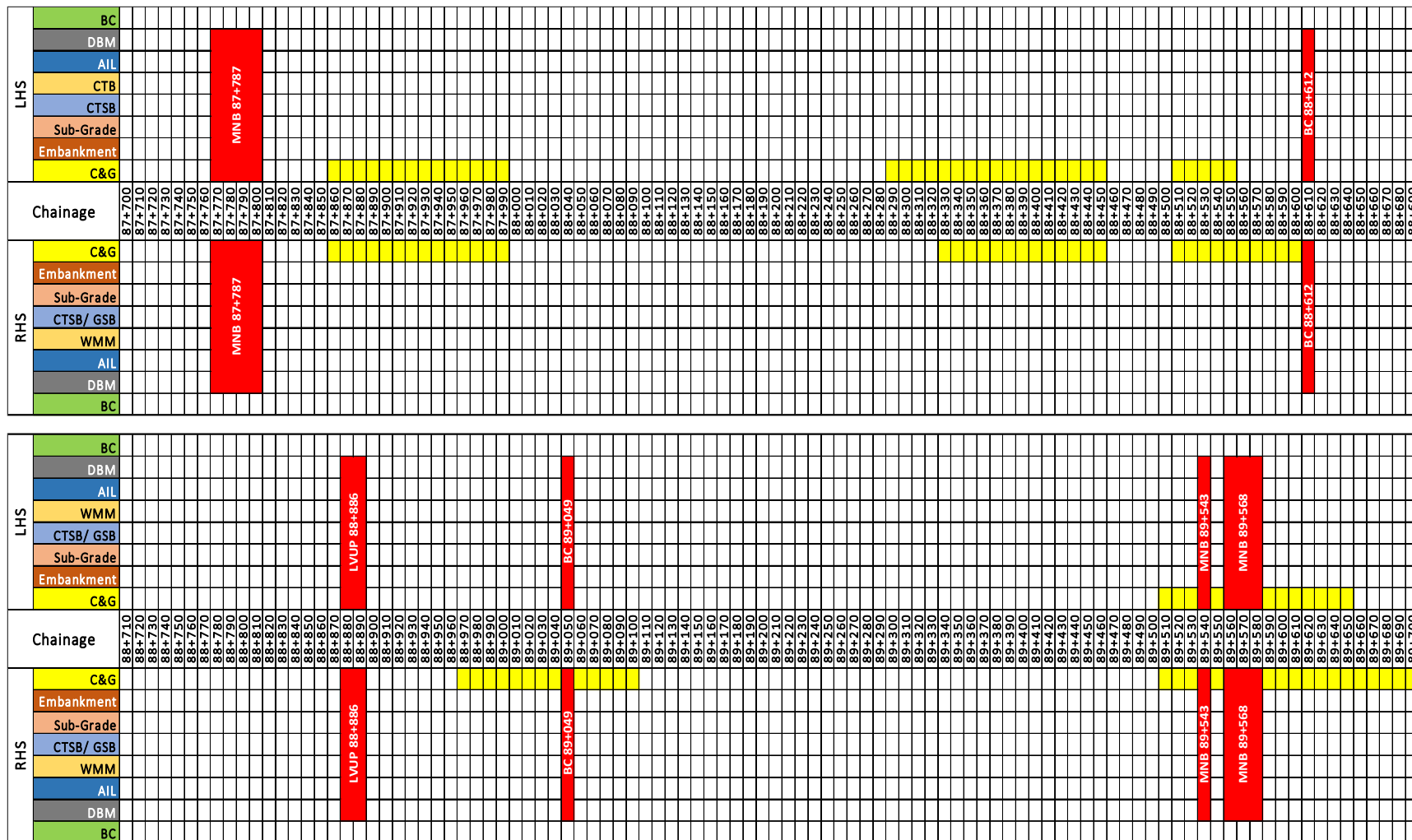
Work Description	% of Each sub components	Amount (Cr.)
Sub Grade	13.76%	61,90,27,089.58
Granular Work	15.16%	68,18,67,723.74
Bituminous Work	8.69%	39,10,72,454.44
Culverts	5.08%	22,85,08,283.55
Minor Bridges	21.10%	94,92,71,507.46
Grade Separated Structures	3.73%	16,79,93,469.35
RE Wall	1.48%	6,66,45,997.94
Utility Shifting	5.36%	24,11,06,737.59
Service Road	9.05%	40,69,89,330.12
Road Side Drain & Median Drain	3.72%	16,74,50,199.22
Road Signs, Marking, Km Stone, & etc.	2.73%	12,30,19,124.67
Project Facilities	1.12%	5,03,91,703.56
Protection Work	4.19%	18,83,09,156.08
Miscellaneous Work	4.81%	21,64,47,222.70
Total	100.00%	4,49,81,00,000.00



Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.4 Strip Chart of Highway:



Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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	LHS	Chainage	RHS	Chainage	LHS	Chainage	RHS	Chainage
	BC	89+710	BC	90+710	BC	90+710	BC	90+710
	DBM	89+720		90+720	DBM	90+720		90+720
	AIL	89+730		90+730	AIL	90+730		90+730
	WMM	89+740		90+740	WMM	90+740		90+740
	CTSB/ GSB	89+750		90+750	CTSB/ GSB	90+750		90+750
	Sub-Grade	89+760		90+760	Sub-Grade	90+760		90+760
	Embankment	89+770		90+770	Embankment	90+770		90+770
	C&G	89+780		90+780	C&G	90+780		90+780
		89+790		90+790		90+790		90+790
		89+800		90+800		90+800		90+800
		89+810		90+810		90+810		90+810
		89+820		90+820		90+820		90+820
		89+830		90+830		90+830		90+830
		89+840		90+840		90+840		90+840
		89+850		90+850		90+850		90+850
		89+860		90+860		90+860		90+860
		89+870		90+870		90+870		90+870
		89+880		90+880		90+880		90+880
		89+890		90+890		90+890		90+890
		89+900		90+900		90+900		90+900
		90+010		90+010		90+010		90+010
		90+020		90+020		90+020		90+020
		90+030		90+030		90+030		90+030
		90+040		90+040		90+040		90+040
		90+050		90+050		90+050		90+050
		90+060		90+060		90+060		90+060
		90+070		90+070		90+070		90+070
		90+080		90+080		90+080		90+080
		90+090		90+090		90+090		90+090
		90+100		90+100		90+100		90+100
		90+110		90+110		90+110		90+110
		90+120		90+120		90+120		90+120
		90+130		90+130		90+130		90+130
		90+140		90+140		90+140		90+140
		90+150		90+150		90+150		90+150
		90+160		90+160		90+160		90+160
		90+170		90+170		90+170		90+170
		90+180		90+180		90+180		90+180
		90+190		90+190		90+190		90+190
		90+200		90+200		90+200		90+200
		90+210		90+210		90+210		90+210
		90+220		90+220		90+220		90+220
		90+230		90+230		90+230		90+230
		90+240		90+240		90+240		90+240
		90+250		90+250		90+250		90+250
		90+260		90+260		90+260		90+260
		90+270		90+270		90+270		90+270
		90+280		90+280		90+280		90+280
		90+290		90+290		90+290		90+290
		90+300		90+300		90+300		90+300
		90+310		90+310		90+310		90+310
		90+320		90+320		90+320		90+320
		90+330		90+330		90+330		90+330
		90+340		90+340		90+340		90+340
		90+350		90+350		90+350		90+350
		90+360		90+360		90+360		90+360
		90+370		90+370		90+370		90+370
		90+380		90+380		90+380		90+380
		90+390		90+390		90+390		90+390
		90+400		90+400		90+400		90+400
		90+410		90+410		90+410		90+410
		90+420		90+420		90+420		90+420
		90+430		90+430		90+430		90+430
		90+440		90+440		90+440		90+440
		90+450		90+450		90+450		90+450
		90+460		90+460		90+460		90+460
		90+470		90+470		90+470		90+470
		90+480		90+480		90+480		90+480
		90+490		90+490		90+490		90+490
		90+500		90+500		90+500		90+500
		90+510		90+510		90+510		90+510
		90+520		90+520		90+520		90+520
		90+530		90+530		90+530		90+530
		90+540		90+540		90+540		90+540
		90+550		90+550		90+550		90+550
		90+560		90+560		90+560		90+560
		90+570		90+570		90+570		90+570
		90+580		90+580		90+580		90+580
		90+590		90+590		90+590		90+590
		90+600		90+600		90+600		90+600
		90+610		90+610		90+610		90+610
		90+620		90+620		90+620		90+620
		90+630		90+630		90+630		90+630
		90+640		90+640		90+640		90+640
		90+650		90+650		90+650		90+650
		90+660		90+660		90+660		90+660
		90+670		90+670		90+670		90+670
		90+680		90+680		90+680		90+680
		90+690		90+690		90+690		90+690
		90+700		90+700		90+700		90+700

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Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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	LHS	Chainage	RHS	Chainage	LHS
	BC	93+710	BC	94+710	BC
	DBM	93+720		94+720	DBM
	AIL	93+730		94+730	AIL
	WMM	93+740		94+740	WMM
	CTSB/ GSB	93+750		94+750	CTSB/ GSB
	Sub-Grade	93+760		94+760	Sub-Grade
	Embankment	93+770		94+770	Embankment
	C&G	93+780		94+780	C&G
		93+790		94+790	
		93+800		94+800	
		93+810		94+810	
		93+820		94+820	
		93+830		94+830	
		93+840		94+840	
		93+850		94+850	
		93+860		94+860	
		93+870		94+870	
		93+880		94+880	
		93+890		94+890	
		93+900		94+900	
		93+910		94+910	
		93+920		94+920	
		93+930		94+930	
		93+940		94+940	
		93+950		94+950	
		93+960		94+960	
		93+970		94+970	
		93+980		94+980	
		93+990		94+990	
		94+000		95+000	
		94+010		95+010	
		94+020		95+020	
		94+030		95+030	
		94+040		95+040	
		94+050		95+050	
		94+060		95+060	
		94+070		95+070	
		94+080		95+080	
		94+090		95+090	
		94+100		95+100	
		94+110		95+110	
		94+120		95+120	
		94+130		95+130	
		94+140		95+140	
		94+150		95+150	
		94+160		95+160	
		94+170		95+170	
		94+180		95+180	
		94+190		95+190	
		94+200		95+200	
		94+210		95+210	
		94+220		95+220	
		94+230		95+230	
		94+240		95+240	
		94+250		95+250	
		94+260		95+260	
		94+270		95+270	
		94+280		95+280	
		94+290		95+290	
		94+300		95+300	
		94+310		95+310	
		94+320		95+320	
		94+330		95+330	
		94+340		95+340	
		94+350		95+350	
		94+360		95+360	
		94+370		95+370	
		94+380		95+380	
		94+390		95+390	
		94+400		95+400	
		94+410		95+410	
		94+420		95+420	
		94+430		95+430	
		94+440		95+440	
		94+450		95+450	
		94+460		95+460	
		94+470		95+470	
		94+480		95+480	
		94+490		95+490	
		94+500		95+500	
		94+510		95+510	
		94+520		95+520	
		94+530		95+530	
		94+540		95+540	
		94+550		95+550	
		94+560		95+560	
		94+570		95+570	
		94+580		95+580	
		94+590		95+590	
		94+600		95+600	
		94+610		95+610	
		94+620		95+620	
		94+630		95+630	
		94+640		95+640	
		94+650		95+650	
		94+660		95+660	
		94+670		95+670	
		94+680		95+680	
		94+690		95+690	
		94+700		95+700	

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Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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RHS	Chainage	RHS							Chainage	LHS							
		BC	DBM	AIL	WMM	CTSB/ GSB	Sub-Grade	Embankment		BC	DBM	AIL	WMM	CTSB/ GSB	Sub-Grade	Embankment	
	98+710								97+710								BC
	98+720								97+720								DBM
	98+730								97+730								AIL
	98+740								97+740								WMM
	98+750								97+750								CTSB/ GSB
	98+760								97+760								Sub-Grade
	98+770								97+770								Embankment
	98+780								97+780								C&G
	98+790								97+790								MNB 97+782
	98+800								97+800								
	98+810								97+810								
	98+820								97+820								
	98+830								97+830								
	98+840								97+840								
	98+850								97+850								
	98+860								97+860								
	98+870								97+870								
	98+880								97+880								
	98+890								97+890								
	98+900								97+900								
98+910								97+910									
98+920								97+920									
98+930								97+930									
98+940								97+940									
98+950								97+950									
98+960								97+960									
98+970								97+970									
98+980								97+980									
98+990								97+990									
99+000								98+000									
99+010								98+010									
99+020								98+020									
99+030								98+030									
99+040								98+040									
99+050								98+050									
99+060								98+060									
99+070								98+070									
99+080								98+080									
99+090								98+090									
99+100								98+100									
99+110								98+110									
99+120								98+120									
99+130								98+130									
99+140								98+140									
99+150								98+150									
99+160								98+160									
99+170								98+170									
99+180								98+180									
99+190								98+190									
99+200								98+200									
99+210								98+210									
99+220								98+220									
99+230								98+230									
99+240								98+240									
99+250								98+250									
MNB 99+247								MNB 99+247									
99+260								98+260									
99+270								98+270									
99+280								98+280									
99+290								98+290									
99+300								98+300									
99+310								98+310									
99+320								98+320									
99+330								98+330									
99+340								98+340									
99+350								98+350									
99+360								98+360									
99+370								98+370									
99+380								98+380									
99+390								98+390									
99+400								98+400									
99+410								98+410									
99+420								98+420									
99+430								98+430									
99+440								98+440									
BC 99+443								BC 98+374									
99+450								98+450									
99+460								98+460									
99+470								98+470									
99+480								98+480									
99+490								98+490									
99+500								98+500									
99+510								98+510									
BC 99+517								MNB 98+508									
99+520								98+520									
99+530								98+530									
99+540								98+540									
99+550								98+550									
99+560								98+560									
99+570								98+570									
99+580								98+580									
99+590								98+590									
99+600								98+600									
99+610								98+610									
99+620								98+620									
99+630								98+630									
99+640								98+640									
99+650								98+650									
99+660								98+660									
99+670								98+670									
99+680								98+680									
99+690								98+690									
99+700								98+700									
BC 99+693								MNB 98+631									
99+710								98+710									
99+720								98+720									
99+730								98+730									
99+740								98+740									
99+750								98+750									
99+760								98+760									
99+770								98+770									
99+780								98+780									
99+790								98+790									
99+800								98+800									
99+810								98+810									
99+820								98+820									
99+830								98+830									
99+840								98+840									
99+850								98+850									
99+860								98+860									
99+870								98+870									
99+880								98+880									
99+890								98+890									
99+900								98+900									
99+910								98+910									
99+920								98+920									
99+930								98+930									
99+940								98+940									
99+950								98+950									
99+960								98+960									
99+970								98+970									
99+980								98+980									
99+990								98+990									
99+000								99+000									
99+010								99+010									
99+020								99+020									
99+030								99+030									
99+040								99+040									
99+050																	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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	LHS						Chainage	RHS					
	BC	DBM	AIL	WMM	CTSB/ GSB	Sub-Grade		BC	DBM	AIL	WMM	CTSB/ GSB	Sub-Grade
							99+710						
							99+720						
							99+730						
							99+740						
							99+750						
							99+760						
							99+770						
							99+780						
							99+790						
							99+800						
							99+810						
							99+820						
							99+830						
							99+840						
							99+850						
							99+860						
							99+870						
							99+880						
							99+890						
							99+900						
							99+910						
							99+920						
							99+930						
							99+940						
							99+950						
							99+960						
							99+970						
							99+980						
							99+990						
							100+000						
							100+010						
							100+020						
							100+030						
							100+040						
							100+050						
							100+060						
							100+070						
							100+080						
							100+090						
							100+100						
							100+110						
							100+120						
							100+130						
							100+140						
							100+150						
							100+160						
							100+170						
							100+180						
							100+190						
							100+200						
							100+210						
							100+220						
							100+230						
							100+240						
							100+250						
							100+260						
							100+270						
							100+280						
							100+290						
							100+300						
							100+310						
							100+320						
							100+330						
							100+340						
							100+350						
							100+360						
							100+370						
							100+380						
							100+390						
							100+400						
							100+410						
							100+420						
							100+430						
							100+440						
							100+450						
							100+460						
							100+470						
							100+480						
							100+490						
							100+500						
							100+510						
							100+520						
							100+530						
							100+540						
							100+550						
							100+560						
							100+570						
							100+580						
							100+590						
							100+600						
							100+610						
							100+620						
							100+630						
							100+640						
							100+650						
							100+660						
							100+670						
							100+680						
							100+690						
							100+700						

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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	LHS	Chainage	RHS	Chainage
	BC	101+710	BC	102+710
	DBM	101+720	DBM	102+720
	AIL	101+730	AIL	102+730
	WMM	101+740	WMM	102+740
	CTSB/ GSB	101+750	CTSB/ GSB	102+750
	Sub-Grade	101+760	Sub-Grade	102+760
	Embankment	101+770	Embankment	102+770
	C&G	101+780	C&G	102+780
		101+790		102+790
		101+800		102+800
		101+810		102+810
		101+820		102+820
		101+830		102+830
		101+840		102+840
		101+850		102+850
		101+860		102+860
		101+870		102+870
		101+880		102+880
		101+890		102+890
		101+900		102+900
		101+910		102+910
		101+920		102+920
		101+930		102+930
		101+940		102+940
		101+950		102+950
		101+960		102+960
		101+970		102+970
		101+980		102+980
		101+990		102+990
		102+000		103+000
		102+010		103+010
		102+020		103+020
		102+030		103+030
		102+040		103+040
		102+050		103+050
		102+060		103+060
		102+070		103+070
		102+080		103+080
		102+090		103+090
		102+100		103+100
		102+110		103+110
		102+120		103+120
		102+130		103+130
		102+140		103+140
		102+150		103+150
		102+160		103+160
		102+170		103+170
		102+180		103+180
		102+190		103+190
		102+200		103+200
		102+210		103+210
		102+220		103+220
		102+230		103+230
		102+240		103+240
		102+250		103+250
		102+260		103+260
		102+270		103+270
		102+280		103+280
		102+290		103+290
		102+300		103+300
		102+310		103+310
		102+320		103+320
		102+330		103+330
		102+340		103+340
		102+350		103+350
		102+360		103+360
		102+370		103+370
		102+380		103+380
		102+390		103+390
		102+400		103+400
		102+410		103+410
		102+420		103+420
		102+430		103+430
		102+440		103+440
		102+450		103+450
		102+460		103+460
		102+470		103+470
		102+480		103+480
		102+490		103+490
		102+500		103+500
		102+510		103+510
		102+520		103+520
		102+530		103+530
		102+540		103+540
		102+550		103+550
		102+560		103+560
		102+570		103+570
		102+580		103+580
		102+590		103+590
		102+600		103+600
		102+610		103+610
		102+620		103+620
		102+630		103+630
		102+640		103+640
		102+650		103+650
		102+660		103+660
		102+670		103+670
		102+680		103+680
		102+690		103+690
		102+700		103+700

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RHS	Chainage	LHS	BC	
			DBM	
			AIL	
			WMM	
			CTSB/ GSB	
			Sub-Grade	
			Embankment	
			C&G	
	105+710			
	105+720			
	105+730			
	105+740			
	105+750			
	105+760			
	105+770			
	105+780			
	105+790			
	105+800			
	105+810			
	105+820			
	105+830			
	105+840			
	105+850			
	105+860			
	105+870			
	105+880			
	105+890			
	105+900			
	105+910			
	105+920			
	105+930			
	105+940			
	105+950			
	105+960			
	105+970			
	105+980			
	105+990			
	106+000			
	106+010			
	106+020			
	106+030			
	106+040			
	106+050			
	106+060			
	106+070			
	106+080			
	106+090			
	106+100			
	106+110			
	106+120			
	106+130			
	106+140			
	106+150			
	106+160			
	106+170			
	106+180			
	106+190			
	106+200			
	106+210			
	106+220			
	106+230			
	106+240			
	106+250			
	106+260			
	106+270			
	106+280			
	106+290			
	106+300			
	106+310			
	106+320			
	106+330			
	106+340			
	106+350			
	106+360			
	106+370			
	106+380			
	106+390			
	106+400			
	106+410			
	106+420			
	106+430			
	106+440			
	106+450			
	106+460			
	106+470			
	106+480			
	106+490			
	106+500			

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.5 Detailed Structure Work Progress

9.5.1 Status of Hume Pipe Culvert

SN	LHS												HPC Chainage	RHS											
	Protection Work	Parapet Wall	Chamber Wall	Top RCC Slab	H/W Final Lift	H/W-2nd Lift	H/W-1st Lift	H/W-PCC M15	Pipe Encasing/Filling	Laying of Pipe	PCC/Granular Bed	LAYOUT & Excavation		LAYOUT & Excavation	PCC/Granular Bed	Laying of Pipe	Pipe Encasing/Filling	H/W-PCC M15	H/W-1st Lift	H/W-2nd Lift	H/W Final Lift	Top RCC Slab	Chamber Wall	Parapet Wall	Protection Work
1													93+516												
2													97+271												
3													97+381												
4													97+941												
5													98+051												
6													98+894												
7													98+944												
8													99+375												
9													99+601												
10													99+970												
	0	0	0	0	0	0	0	0	0	0	0	0	In Progress	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	Completed	0	0	0	0	0	0	0	0	0	0	0	0

1	Not Available	1
2	In Progress	
3	Completed	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.5.2 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	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	88+612	A1											
												A2		A2											
2												A1	89+049	A1											
												A2		A2											
3												A1	89+847	A1											
												A2		A2											
4												A1	90+323	A1											
												A2		A2											
5												A1	90+747	A1											
												A2		A2											
6												A1	90+970	A1											
												A2		A2											
7												A1	91+349	A1											
												A2		A2											
8												A1	91+665	A1											
												A2		A2											
9												A1	92+047	A1											
												A2		A2											
10												A1	92+862	A1											
												A2		A2											

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[illegible]

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1	Not Available	1
2	In Progress	
3	Completed	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.5.3 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	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	87+787	A1											
													A2		A2											
2													A1	89+543	A1											
													A2		A2											
3													A1	89+568	A1											
													A2		A2											
4													A1	90+543	A1											
													A2		A2											
5													A1	92+714	A1											
													A2		A2											
6													A1	95+595	A1											
													A2		A2											
7													A1	97+102	A1											
													A2		A2											
8													A1	97+458	A1											
													A2		A2											
9													A1	97+673	A1											
													A2		A2											
10													A1	97+782	A1											
													A2		A2											
11													A1	98+267	A1											
													A2		A2											

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1	Not Available	1
2	In Progress	
3	Completed	

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9.5.4 Status of VUP

SN	LHS											VUP Chainage	RHS												
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Abutment Pile	Layout & Excavation		Abutment	Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Shaft	Abutment Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1												A1	97+000	A1											
												A2		A2											
2												A1	100+290	A1											
												A2		A2											

1	Not Available	1
2	In Progress	
3	Completed	

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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9.5.5 Status of LVUP

SN	LHS											LVUP 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	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	88+886	A1											
												A2		A2											
2												A1	92+248	A1											
												A2		A2											
3												A1	94+625	A1											
												A2		A2											
4												A1	98+586	A1											
												A2		A2											

CHAPTER-10

QUALITY CONTROL AND MATERIAL

10.1 Quality Control

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

10.2 Site Laboratory

The Site Laboratory is established at Base Camp located at CH: -88+700. 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 Aggregates

The test reports for borrow area earth for available borrow area are approved & test reports for Aggregates are also approved for the available Quarry.

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 Elegant Steel.

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10.3.4 Status of materials source approval & Mix Design

Mix Design				
Sr. No.	Grade	Letter No.	Status	IE Letter No.
1.	PCC (M-10, M-15 M-20) RCC (M-20, M-25, M-30, M-35, M-35 Pile, M-40, M-45 (RCC & PSC) M-35 RE Block. (Cement-Dalmia, Black Tiger, Star)	MKCIL/ASSAM/PKG-06/188 dt. 09.04.2025		

Cement				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Black Tiger Cement	MKCIL/ASSAM/PKG-06/148 dt. 22.03.2025		
2.	Dalmia Cement	MKCIL/ASSAM/PKG-06/149 dt. 22.03.2025		
3.	Max Cement	MKCIL/ASSAM/PKG-06/150 dt. 22.03.2025		
4.	Star Cement	MKCIL/ASSAM/PKG-06/151 dt. 22.03.2025		
5.	Amrit Cement	MKCIL/ASSAM/PKG-06/157 dt. 24.03.2025		

Reinforcement Steel				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Rashmi Metaliks Limited	MKCIL/ASSAM/PKG-06/106 dt. 29.01.2025		
2.	Shyam Steel industries Ltd.	MKCIL/ASSAM/PKG-06/107 dt. 29.01.2025		
3.	SRMB Srijan Pvt. Ltd.	MKCIL/ASSAM/PKG-06/152 dt. 22.03.2025		
4.	Shyam Metalics & Energy Ltd.	MKCIL/ASSAM/PKG-06/175 dt. 04.04.2025		

Admixture				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Berger Paints Pvt. Ltd.	MKCIL/ASSAM/PKG-06/143 dt. 22.03.2025		
2.	CHRYSO India Pvt. Ltd	MKCIL/ASSAM/PKG-06/144 dt. 22.03.2025		
3.	CICO Technologies Ltd.	MKCIL/ASSAM/PKG-06/145 dt. 22.03.2025		
4.	FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-06/146 dt. 22.03.2025		
5.	Vista Chemtech Pvt. Ltd.	MKCIL/ASSAM/PKG-06/147 dt. 22.03.2025		

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Monthly Laboratory Report

Summary of Quality Control Test For The Month of April-2025

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	58	58	0	0	0	0	54	54	0	0	0	0	0.00	
1.2	Grain size analysis	IS : 2720 (P-4)	1 Test / Every 500 m Interval's	58	58	0	0	0	0	54	54	0	0	0	0	0.00	
1.3	Liquid limits (LL)	IS : 2720 (P-5)	1 Test / Every 500 m Interval's	58	58	0	0	0	0	54	54	0	0	0	0	0.00	
1.4	Plasticity Index (PI)	IS : 2720 (P-5)	1 Test / Every 500 m Interval's	58	58	0	0	0	0	54	54	0	0	0	0	0.00	
1.5	Proctor test (MDD & OMC)	IS : 2720 (P-8)	1 Test / Every 500 m Interval's	58	58	0	0	0	0	54	54	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)	265	253	12	20	16	4	285	269	16	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.	120	120	0	48	48	0	168	168	0	0	0	0	0.00	
2.2	Grain size analysis (GSA)	IS : 2720 (P-4)	2 Test's / 3000 Cum.	120	120	0	48	48	0	168	168	0	0	0	0	0.00	
2.3	Liquid limits (LL)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	120	120	0	48	48	0	168	168	0	0	0	0	0.00	
2.4	Plasticity Index (PI)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	120	120	0	48	48	0	168	168	0	0	0	0	0.00	
2.5	Proctor test (MDD & OMC)	IS : 2720 (P-8)	2 Test's / 3000 Cum.	120	120	0	48	48	0	168	168	0	0	0	0	0.00	
2.6	California Bearing Ratio Test (CBR)	IS : 2720 (P-16)	1 Test's / 3000 Cum.	60	60	0	24	24	0	84	84	0	0	0	0	0.00	
2.7	Field Compaction Test (Emb)	IS : 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pit's)	2108	2074	34	172	161	11	2280	2235	45	0	0	0	0.00	
2.8	Field Compaction Test (Subgrade)	IS : 2720 (P-28)	1 Set / 2000 Sqm. (1Set = 10 Pit's)	170	162	8	245	230	15	415	392	23	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	23	23	0	30	30	0	53	53	0	0	0	0	0.00	
4.2	Flakiness Index (FI)	IS : 2386 (P-1)	1 Test for source / Weekly	3	3	0	4	4	0	7	7	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	4	4	0	7	7	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	23	23	0	30	30	0	53	53	0	8	8	0	26.67	
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	

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(IV). Fine Agg. for Concrete		MoRT&H Table - 900-6														
5.1	Gradation	IS : 383	1 Test / Every day's work	23	23	0	30	30	0	53	53	0	0	0	0.0	0.00
5.2	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.0	0.00
5.3	Water Absorption	IS : 2720 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.0	0.00
5.4	Silt Content	IS : 383	1 Test / Weekly	3	3	0	4	4	0	7	7	0	0	0	0.0	0.00
5.5	Moisture correction	IS : 2386 (P-3)	1 Test / Every day's work	23	23	0	30	30	0	53	53	0	0	0	0.0	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	1	1	0	9	9	0	10	10	0	0	0	0	0.00
6.2	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	2	2	0	2	2	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
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	10	10	0	16	16	0	26	26	0	0	0	0	0.00
6.14	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	42	42	0	42	42	0	0	0	0	0.00

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∴ Grade of Concrete : M-35 RCC																	
6.15	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	7	7	0	7	7	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	9	9	0	2	2	0	11	11	0	0	0	0	0.00	
7.2	Normal Consistency	IS : 4031 (P-4)	1 Test Every Batch of Cement	9	9	0	2	2	0	11	11	0	0	0	0	0.00	
7.3	Initial Setting Time	IS : 4031 (P-5)	1 Test Every Batch of Cement	9	9	0	2	2	0	11	11	0	0	0	0	0.00	
7.4	Final Setting time	IS : 4031 (P-5)	1 Test Every Batch of Cement	9	9	0	2	2	0	11	11	0	0	0	0	0.00	
7.5	Compressive Strength (03 Days)	IS : 516	1 Test Every Batch of Cement	8	8	0	3	3	0	11	11	0	0	0	0	0.00	
7.6	Compressive Strength (07 Days)	IS : 516	1 Test Every Batch of Cement	6	6	0	5	5	0	11	11	0	0	0	0	0.00	
7.7	Compressive Strength (28 Days)	IS : 516	1 Test Every Batch of Cement	4	4	0	5	5	0	9	9	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	

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(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

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(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	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	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	0.00
11.4	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test/ 1000 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.5	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	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	0.00
11.7	Soundness	IS : 2386 (P-3)	As Required	0	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	0.00
(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	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	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	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	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	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	0.00
12.7	Soundness	IS : 2386 (P-3)	As Required	0	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	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	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	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	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	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	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	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	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	0.00
13.9	Density of compacted layer	MoRT&H Sec.900	1 Test / 700 Sq.m	0	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00
14.9	Density of Compacted Layer	MoRT&H Sec.900	1 test / 700 Sq.m	0	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	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	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	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	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	0.00

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(XIV). Bitumen (VG-40)																	
15.1	Softening Point(°C)	IS : 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.2	Penetration at 25°C 100gm 5 Sec	IS : 1203	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.3	Ductility at 25°C	IS : 1208	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.4	Absolute Viscosity at 60°/135°C (CST)	IS : 1206 (P-2)	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.5	Kinematic Viscosity at 135°C (CST)	IS : 1206 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.6	Specific Gravity at 27°C	IS : 2380 (P-4)	As Required	0	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	0
15.8	Solubility Test	IS : 1216	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(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	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	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	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	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	0
17.2	Water Content	IS : 8887:2004	As Required	0	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	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	0
18.2	Water Content	IS : 8887:2004	As Required	0	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	0.00
(XVIII).. Dry Lean Concrete (DLC)																	
MoRT&H-600																	
13.1	Gradation	Table 600-1	1 test / day	0	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	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	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	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	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	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	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	0.00
(XIX). Pavement Quality Concrete (PQC)																	
MoRT&H-600																	
14.1	Gradation	Table 600-1	1 Test / Day	0	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	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	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	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	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	0.00
14.7	Compressive Strength (28 day's)	IS : 516		0	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 (Min. 6 Beam's)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.9	Flexural Strength (28 day's)	IS : 516		0	0	0	0	0	0	0	0	0	0	0	0	0	0.00

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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
(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

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(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	

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**CHAPTER-11
CORRESPONDENCE**

11.1 Outward Letter

Sr. No.	Letter No.	Date	Subject	To	Status
1	MKCIL/ASSAM/PKG-06/001	19.04.2024	Regarding Documents Required for Details Design.	DGM (PMU Silchar)	
2	MKCIL/ASSAM/PKG-06/002	08.06.2024	Notification of Force Majeure Due to Political Event (Election) as per Clause 28.4 of the Concession Agreement	GM (PMU Karimganj)	
3	MKCIL/ASSAM/PKG-06/003	10.06.2024	Regarding Notification of another force majeure due to non-political Event (Cyclone Remal) as Per Clause 28.2 of the Concession Agreement.	GM (PMU Karimganj)	
4	MKCIL/ASSAM/PKG-06/005	20.06.2024	Notification of another force majeure Due to non-Political Event (Extremely adverse weather Conditions & Flood) as per Clause 28.2 of the Concession Agreement.	GM (PMU Karimganj)	
5	MKCIL/ASSAM/PKG-06/007	02.07.2024	Request to Issuing to form-III under rule (principal for obtaining Labour License	DGM (PMU Silchar)	
6	MKCIL/ASSAM/PKG-06/011	12.07.2024	Notification for floods and Heavy torrential rain as per Clause 28.2 of the Concession agreement.	DGM (PMU Silchar)	
7	MKCIL/ASSAM/PKG-06/012	15.07.2024	Regarding Maintenance Obligation Prior to Appointed Date	DGM (PMU Silchar)	
8	MKCIL/ASSAM/PKG-06/014	19.07.2024	Regarding Signing Authorization for Letter correspondence and Submission of SPSs & IPCs for Mr. Satish Chandra Pandeya (Sr. GM Tech & Operations)	DGM (PMU Silchar)	
9	MKCIL/ASSAM/PKG-06/020	24.07.2024	Regarding Indent through online Portal of Minor Minerals for the Execution of above said Project	GM (PMU Karimganj)	
10	MKCIL/ASSAM/SPL/001	31.07.2024	Regarding Submission of Presentation for above Said Project	GM (RO Guwahati)	
11	MKCIL/ASSAM/PKG-06/025	14.08.2024	Maintenance of the existing highways during the Development Period	GM (PMU Karimganj)	
12	MKCIL/ASSAM/PKG-06/026	21.08.2024	Regarding Shifting of Electric Pole and Transformer & Requested for a new electrical connection	GM (PMU Karimganj)	
13	MKCIL/ASSAM/PKG-06/027	22.08.2024	Regarding Indent through Online Portal of Minor Minerals for the Execution of above Said Project	GM (PMU Karimganj)	
14	MKCIL/ASSAM/PKG-06/030	31.08.2024	Joint Inspection for Identification for extraction of Soil for Road Works	GM (PMU Karimganj)	
15	MKCIL/ASSAM/PKG-06/031	28.08.2024	Notification of delay in granting Right of Way to the site as per Clause 10.3 of the Concession Agreement.	GM (PMU Karimganj)	
16	MKCIL/ASSAM/PKG-06/033	03.09.2024	Revised Indent through online portal of Minor Minerals for the execution of above said project	GM (PMU Karimganj)	
17	MKCIL/ASSAM/PKG-06/034	03.09.2024	Regarding Drone videography survey as per Clause 13.6 of CA	GM (PMU Karimganj)	
18	MKCIL/ASSAM/PKG-06/038	18.09.2024	NOC for Obtaining Diesel Consumer Pump Facilities and Permission for establishment OF Plant etc. at Chandkhira for MKC Infrastructure Ltd	GM (PMU Karimganj)	
19	MKCIL/ASSAM/PKG-06/039	14.10.2024	Request for allotment of Stone (Boulder & Gravel) under Permit	Managing Director (Assam)	

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				Mineral Development Corporation Ltd)	
20	MKCIL/ASSAM/PKG-06/042	10.10.2024	Submission of Boulder Samples for Conducting Third Party Test	NIT Silchar	
21	MKCIL/ASSAM/PKG-06/044	20.10.2024	Submission of Aggregate 20mm (Kalain Quarry) Samples for Conducting Third Party Test	Delhi Test House	
22	MKCIL/ASSAM/PKG-06/045	20.10.2024	Submission of Aggregate 20mm (Balacherra Quarry) Samples for Conducting Third Party Test	Delhi Test House	
23	MKCIL/ASSAM/PKG-06/046	20.10.2024	Submission of (White colour) Boulder (Madhura Quarry) Samples for Conducting Third Party Test	Delhi Test House	
24	MKCIL/ASSAM/PKG-06/049	19.11.2024	Joint inspection for identification for extraction of soil for road work	GM (PMU Karimganj)	
25	MKCIL/ASSAM/PKG-06/055	03.12.2024	Joint inspection for identification for extraction of soil for road work	GM (PMU Karimganj)	
26	MKCIL/ASSAM/PKG-06/059	07.12.2024	Compliance of Conditions Precedent as per Article 4.1.3 of the Concession Agreement	GM (PMU Karimganj)	
27	MKCIL/ASSAM/PKG-06/062	17.12.2024	Compliance of Conditions Precedent as per clause 4.1.2 and 4.1.3 of the Concession Agreement	GM (PMU Karimganj)	
28	MKCIL/ASSAM/PKG-06/064	24.12.2024	Non-Fulfilment of Land Handover and Pending Obligations by the end of Authority as per Concession Agreement clause 4.1.2.	GM (PMU Karimganj)	
29	MKCIL/ASSAM/PKG-06/065	26.12.2024	Regarding submission of Typical Design and Drawing for Precast Box culvert (1x2x2)	GM (PMU Karimganj)	
30	MKCIL/ASSAM/PKG-06/067	27.12.2024	Regarding Submission of Plan and Profile.	GM (PMU Karimganj)	
31	MKCIL/ASSAM/PKG-06/071	03.01.2025	Regarding Submission of Design and Drawing for Minor Bridges at Ch.102+109, 102+508, 103+116 & 103+788.	GM (PMU Karimganj)	
32	MKCIL/ASSAM/PKG-06/072	03.01.2025	Regarding Submission of Design and Drawings for LVUP at Ch.88+886, 92+248, 94+625 & 98+587.	GM (PMU Karimganj)	
33	MKCIL/ASSAM/PKG-06/074	04.01.2025	Regarding Submission of GADs for Box Culvert (1x2x2) at Ch.96+432, 98+377, 101+538, 102+969, 103+918 & 104+744	GM (PMU Karimganj)	
34	MKCIL/ASSAM/PKG-06/076	06.01.2025	Regarding Submission of Typical Design and Drawing for Box culvert (1x3x3)	GM (PMU Karimganj)	
35	MKCIL/ASSAM/PKG-06/077	06.01.2025	Regarding Submission of GADs for Box Culvert (1x3x3) at Ch.89+847 & 92+862	GM (PMU Karimganj)	
36	MKCIL/ASSAM/PKG-06/078	06.01.2025	Regarding Submission of Design and Drawing for Box culvert at Ch. 99+696 (1x3x3)	GM (PMU Karimganj)	
37	MKCIL/ASSAM/PKG-06/081	09.01.2025	Regarding Submission of D&D for Box Culverts (1x3x3) at Ch.99+898 & 100+864	GM (PMU Karimganj)	
38	MKCIL/ASSAM/PKG-06/082	09.01.2025	Reg.- Request for providing a consent letter to the APDCL	GM (PMU Karimganj)	
39	MKCIL/ASSAM/PKG-06/083	09.01.2025	Regarding Submission of Design and Drawing for Minor Bridges (Widening) at Ch.97+674, 97+784, 98+270 & 99+050	GM (PMU Karimganj)	
40	MKCIL/ASSAM/PKG-06/085	11.01.2025	Regarding Submission of GADs for Box Culvert (1x2x2) at Ch. 92+047, 93+118, 94+345, 94+814 & 98+447	GM (PMU Karimganj)	
41	MKCIL/ASSAM/PKG-06/088	16.01.2025	Request for providing a consent letter to the Assam PHED	GM (PMU Karimganj)	

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42	MKCIL/ASSAM/PKG-06/91	16.01.2025	Regarding Submission of Contract Price Weightage as per Annexure - I of Schedule – G.	GM (PMU Karimganj)	
43	MKCIL/ASSAM/PKG-06/94	20.01.2025	Regarding Submission of Design and Drawing for Minor Bridge (Widening) at Ch. 99+250	GM (PMU Karimganj)	
44	MKCIL/ASSAM/PKG-06/96	23.01.2025	Regarding Submission of GADs for Box Culvert (1x2x2) at Ch.88+612, 90+323, 90+970, 91+665,101+194, 101+383 & 104+941	GM (PMU Karimganj)	
45	MKCIL/ASSAM/PKG-06/98	24.01.2025	Notification of Force Majeure Event pursuant to provision of Clause 28.4.	GM (PMU Karimganj)	
46	MKCIL/ASSAM/PKG-06/101	25.01.2025	Reg. Submission of lower TDS deduction certificate	GM (PMU Karimganj)	
47	MKCIL/ASSAM/PKG-06/103	27.01.2025	Regarding Submission of Design and Drawing for Cast-in-situ Box culvert (1x2x2)	GM (PMU Karimganj)	
48	MKCIL/ASSAM/PKG-06/104	28.01.2025	Regarding Submission of Plan and Profile for Service Road & Slip Road.	GM (PMU Karimganj)	
49	MKCIL/ASSAM/PKG-06/106	29.01.2025	Submission Company Profile of Rashmi Metaliks Limited (TMT) for source approval	GM (PMU Karimganj)	
50	MKCIL/ASSAM/PKG-06/107	29.01.2025	“Submission Company Profile of Shyam Steel Industries Limited (TMT) for source approval	GM (PMU Karimganj)	
51	MKCIL/ASSAM/PKG-06/113	10.02.2025	Notifying Religious structures (18 Nos.) hindrances encountered in PROW	GM (PMU Karimganj)	
52	MKCIL/ASSAM/PKG-06/116	28.02.2025	Regarding Corporate Discount	Sabita Automobiles	
53	MKCIL/ASSAM/PKG-06/118	24.02.2025	Regarding request for provisional Appointment date for commencement of work.	GM (PMU Karimganj)	
54	MKCIL/ASSAM/PKG-06/120	05.03.2025	Appointment of Independent Engineer as per Article 21- Independent Engineer, Clause 21.1 of Concession Agreement.	GM (PMU Karimganj)	
55	MKCIL/ASSAM/PKG-06/122	07.03.2025	Providing signing authorization to sign the Memorandum of Joint site visit	GM (PMU Karimganj)	
56	MKCIL/ASSAM/PKG-06/123	07.03.2025	Reg. Request for Appointed Date for Commencement of work.	GM (PMU Karimganj)	
57	MKCIL/ASSAM/PKG-06/124	07.03.2025	Reg. Compliance of Condition Precedent as per sub clause (d) of Article 4.1.3 of Concession Agreement	GM (PMU Karimganj)	
58	MKCIL/ASSAM/PKG-06/130	15.03.2025	Regarding Submission of Concession Agreement Volumes	GM (PMU Karimganj)	
59	MKCIL/ASSAM/PKG-06/133	17.03.2025	Regarding Submission of Typical RE Block Drawing.	GM (PMU Karimganj)	
60	MKCIL/ASSAM/PKG-06/134	17.03.2025	Regarding Submission of Design & Drawing for Precast Boundary Wall.	GM (PMU Karimganj)	
61	MKCIL/ASSAM/PKG-06/137	18.03.2025	Submission of Review and comments on EHT line shifting.	GM (PMU Karimganj)	
62	MKCIL/ASSAM/PKG-06/140	21.03.2025	Re-Submission of Design & Drawing for Precast Boundary Wall	GM (PMU Karimganj)	
63	MKCIL/ASSAM/PKG-06/143	22.03.2025	Submission profile & credential of Berger Paints Pvt. Ltd. for source approval of Admixture.	GM (PMU Karimganj)	
64	MKCIL/ASSAM/PKG-06/144	22.03.2025	Submission profile & credential of CHRYSO India Pvt. Ltd. for source approval of Admixture	GM (PMU Karimganj)	
65	MKCIL/ASSAM/PKG-06/145	22.03.2025	Submission profile & credential of CICO Technologies Limited for source approval of Admixture.	GM (PMU Karimganj)	

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66	MKCIL/ASSAM/PKG-06/146	22.03.2025	Submission profile & credential of FOSROC Chemicals (India) Pvt. Ltd. for source approval of Admixture	GM (PMU Karimganj)	
67	MKCIL/ASSAM/PKG-06/147	22.03.2025	ASSAM PKG-06 Letter No.-147 Submission profile & credential of VISTA Chemtech Pvt. Ltd. for source approval of Admixture	GM (PMU Karimganj)	
68	MKCIL/ASSAM/PKG-06/148	22.03.2025	Submission profile & credential of Black Tiger Cement for source approval of Cement.	GM (PMU Karimganj)	
69	MKCIL/ASSAM/PKG-06/149	22.03.2025	Submission profile & credential of Dalmia Cement (Bharat) Limited for source approval of Cement.	GM (PMU Karimganj)	
70	MKCIL/ASSAM/PKG-06/150	22.03.2025	Submission profile & credential of Max Cement for source approval of Cement.	GM (PMU Karimganj)	
71	MKCIL/ASSAM/PKG-06/151	22.03.2025	Submission profile & credential of Star Cement Limited for source approval of Cement.	GM (PMU Karimganj)	
72	MKCIL/ASSAM/PKG-06/152	22.03.2025	Submission profile & credential of SRMB Srijan Pvt. Ltd. for source approval of TMT.	GM (PMU Karimganj)	
73	MKCIL/ASSAM/PKG-06/157	24.03.2025	Submission profile & credential of Amrit Cement Limited for source approval of Cement.	GM (PMU Karimganj)	
74	MKCIL/ASSAM/PKG-06/160	25.03.2025	Procurement of Earth/ Soil with respect to the referred Govt. Initiative.	GM (PMU Karimganj)	
75	MKCIL/ASSAM/PKG-06/163	29.03.2025	Land Possession Issues.	GM (PMU Karimganj)	
76	MKCIL/ASSAM/PKG-06/166	31.03.2025	Submission of Workmen's Compensation (WC) Insurance Policy	GM (PMU Karimganj)	
77	MKCIL/ASSAM/PKG-06/169	01.04.2025	"Submission of Quality Assurance Plan as per Clause 12.1 of Concession Agreement."	GM (PMU Karimganj)	
78	MKCIL/ASSAM/PKG-06/170	01.04.2025	Delay in Appointment of IE (Reminder)	GM (PMU Karimganj)	
79	MKCIL/ASSAM/PKG-06/172	02.04.2025	Submission of Pavement Design Report for Main Carriageway & Service Road	GM (PMU Karimganj)	
80	MKCIL/ASSAM/PKG-06/178	07.04.2025	Submission of General Construction Methodology as per Clause 12.1 of Concession Agreement	GM (PMU Karimganj)	
81	MKCIL/ASSAM/PKG-06/179	07.04.2025	Submission of D&D for Box culverts at Ch.90+747 (1x5x2) & 103+662 (1x3x3)	GM (PMU Karimganj)	Approved
82	MKCIL/ASSAM/PKG-06/180	07.04.2025	Regarding Submission of GAD for Box Culvert (1x3x3) at Ch. 89+847 & 105+088	GM (PMU Karimganj)	Approved
83	MKCIL/ASSAM/PKG-06/181	07.04.2025	Regarding Submission of Design and Drawing for Minor Bridge at Ch. 104+446 (2x3x3).	GM (PMU Karimganj)	Approved
84	MKCIL/ASSAM/PKG-06/182	07.04.2025	Submission of lower TDS deduction certificate	GM (PMU Karimganj)	
85	MKCIL/ASSAM/PKG-06/183	07.04.2025	Regarding Submission of Design & Drawing for Box Culvert at Ch. 91+349 (1x4x3)	GM (PMU Karimganj)	Approved
86	MKCIL/ASSAM/PKG-06/184	07.04.2025	Joint Inspection for finalization of location for additional Box-Culvert and Hume Pipe Culvert	GM (PMU Karimganj)	
87	MKCIL/ASSAM/PKG-06/188	09.04.2025	Regarding Submission of Concrete mix design	GM (PMU Karimganj)	
88	MKCIL/ASSAM/PKG-06/193	12.04.2025	Submission Profile & Credential of Universal test House	GM (PMU Karimganj)	
89	MKCIL/ASSAM/PKG-06/196	14.04.2025	Submission of Design & Drawing for Minor Bridge at Ch. 89+543 (1x10)	GM (PMU Karimganj)	
90	MKCIL/ASSAM/PKG-06/200	18.04.2025	Submission of Typical Design & Drawing for Drain (GFRP Bar)	GM (PMU Karimganj)	

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91	MKCIL/ASSAM/PKG-06/201	18.04.2025	Submission of work program	GM (PMU Karimganj)	
92	MKCIL/ASSAM/PKG-06/203	19.04.2025	Submission of profile & credential of Elegant Steel.	GM (PMU Karimganj)	
93	MKCIL/ASSAM/PKG-06/204	19.04.2025	Submission of third-party test report of aggregate of 10mm,20mm Water, Fine aggregate (River Sand) for source approval	GM (PMU Karimganj)	
94	MKCIL/ASSAM/PKG-06/207	21.04.2025	Reminder – Relocation and Shifting of Religious Structures”	GM (PMU Karimganj)	
95	MKCIL/ASSAM/PKG-06/208	21.04.2025	Regarding Submission of Typical Design & Drawing for Friction Slab Crash Barrier (GFRP Bar)	GM (PMU Karimganj)	
96	MKCIL/ASSAM/PKG-06/210	23.04.2025	Regarding Submission of Design & Drawing for MNB Ch. 97+102, 98+511 & 98+634 (1x6.0m	GM (PMU Karimganj)	
97	MKCIL/ASSAM/PKG-06/213	24.04.2025	Submission of Typical Design & Drawing for Toe Wall	GM (PMU Karimganj)	
98	MKCIL/ASSAM/PKG-06/216	26.04.2025	Request for the clearance of the reserve forest land as per article 10 Clause 10.3 and 10.4 of Concession agreement.	GM (PMU Karimganj)	
99	MKCIL/ASSAM/PKG-06/217	26.04.2025	Request for clearance of hindrance of structures as per article 10, Clause 10.3 and 10.4.	GM (PMU Karimganj)	
100	MKCIL/ASSAM/PKG-06/220	29.04.2025	Notifying the delay in Design and Drawing.	GM (PMU Karimganj)	

11.2 Inward Letter (NHIDCL)

S N	Letter No.	Date	Subject	From	Remarks
1	NHIDCL/Procurement/ASSAM/2023-24/229226/3086	11.03.2024	Letter of Award (LOA)	NHIDCL	
2	RO-GHY/Meeting Notice/0132/15036	27.05.2024	Review Meeting	RO Guwahati	
3	NHIDCL/PMU-Karimganj/MKC/2024-25/12	25.06.2024	Regarding maintenance of the existing highway during the Development Period.	PMU Karimganj	
4	RO-GHY/Meeting Notice/0132/15561	30.07.2024	Review Meeting	RO Guwahati	
5	PMU-Karimganj/MKC/2024-25/18	19.07.2024	Regarding maintenance of the existing highway during the Development Period.	GM, PMU Karimganj	
6	PMU-Karimganj/MKC/2024-25/19	19.07.2024	Regarding maintenance of the existing highway during the Development Period.	GM, PMU Karimganj	
7	NHIDCL/PMU-Karimganj/MKC/Safety/2024-25/93	16.10.2024	Regarding installation of safety signage & pavement marking on exisisting road	GM, PMU Karimganj	
8	NHIDCL/PMU-Karimganj/MKC/Land/2024-25/126	22.11.2024	Certificate of handing over and taking over of allotted land reg.	GM, PMU Karimganj	
9	NHIDCL/PMU-Karimganj/MKC/APDCL/2024-25/139	29.11.2024	Provisional approval for construction and installation of 33kv, 11 kv, LT DTRs	GM, PMU Karimganj	
10	NHIDCL/PMU-Karimganj/MKC/APDCL/2024-25/155	10.12.2024	Condition Precedent as per clause 4.1.2 and 4.1.3	GM, PMU Karimganj	
11	NHIDCL/PMU-Karimganj/APDCL/2024-25/181	10.01.2025	Dismantling of electrical poles from Km 97+500 to 100+500	GM, PMU Karimganj	
12	NHIDCL/PMU-Karimganj/APDCL/Pkg-6/2024-25/183	14.01.2025	Consent Letter to APDCL for SBC pkg-6	GM, PMU Karimganj	
13	NHIDCL/PMU-Karimganj/PHE-Sribhumi/Pkg-6/2024-25/196	30.01.2025	Consent letter to PHED	GM, PMU Karimganj	

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14	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2024-25/199	04.02.2025	Maintenance of existing highways	GM, PMU Karimganj	
15	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2024-25/202	08.02.2025	Regarding the requirement of additional land	GM, PMU Karimganj	
16	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2024-25/228	05.03.2025	Comments on the shifting of proposed Plan of EHT Line under PGCIL	GM (P), PMU Karimganj	
17	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2024-25/230	06.03.2025	Observation on submission of Contract Price Weightage as per Annexure-1 of Schedule-G.	GM (P), PMU Karimganj	
18	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2024-25/245	26.03.2025	Estimates of Utility Shifting	GM (P), PMU Karimganj	
19	NHIDCL/PMU-Karimganj/DC/2024-25/249	27.03.2025	Procurement of Earth/ Soil under the Scheme of Amrit Sarovar	GM (P), PMU Karimganj	
20	NHIDCL/PMU-Karimganj/MKC/Pkg-6/2025-26/260	08.04.2025	Regarding Site inspection dated 03.04.2025	GM (P), PMU Karimganj	
21	NHIDCL/PMU-Karimganj/Pkg-6/2025-26/263	09.04.2025	Declaration of Appointed Date	GM (P), PMU Karimganj	
22	NHIDCL/PMU-Karimganj/Pkg-6/2025-26/274	16.04.2025	Submission of Work Program with S-curve	GM (P), PMU Karimganj	

**CHAPTER-12
NON-CONFORMANCE REPORT**

NIL

Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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CHAPTER-13

WEATHER REPORT

Sl no.	Date	Temperature (In °c)		Humidity (In %)		Rainfall (mm)	Weather Condition
		Maximum	Minimum	Maximum	Minimum		
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

**CHAPTER-14
ACCIDENT REPORT**

NIL

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.

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CHAPTER-16



FDD Testing in Embankment Layer



PCC work of Box-culvert at ch-91+350

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MNB Raft work at ch-89+543



Raft work of Box-culvert at ch-89+847

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Pre-cast Box-Culvert Erection work at ch-101+535



Cube Testing in front GM-NHIDCL (Authority)