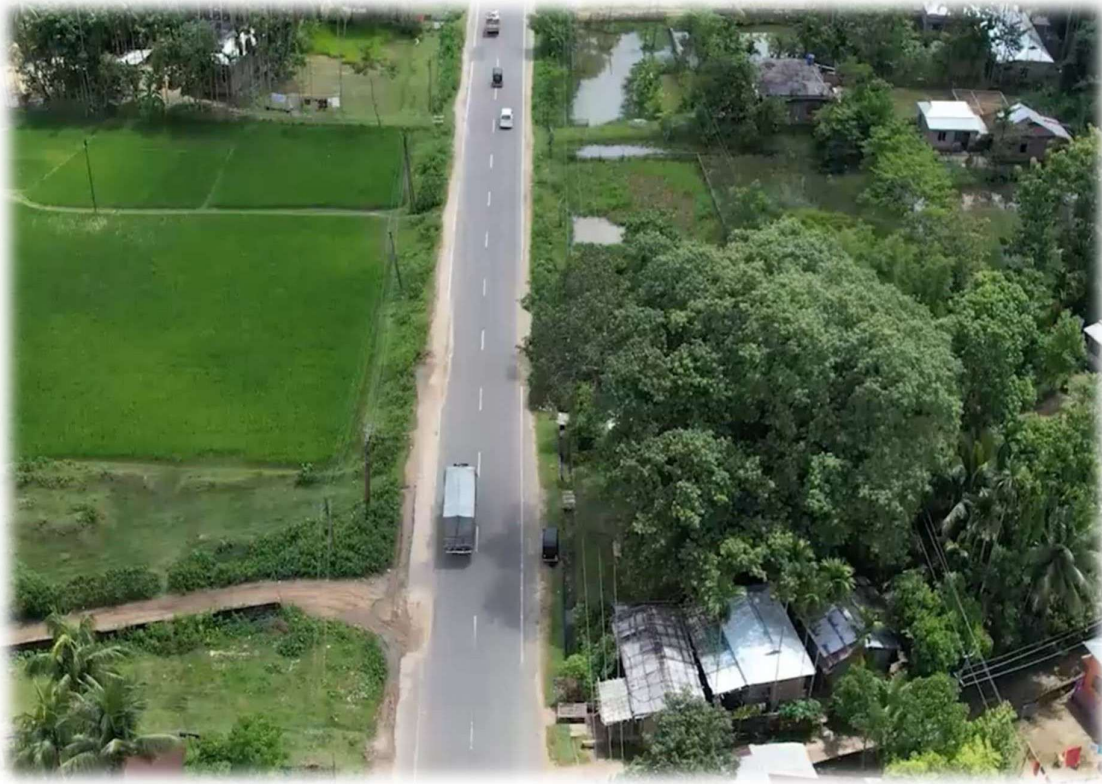


Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

Monthly Progress Report

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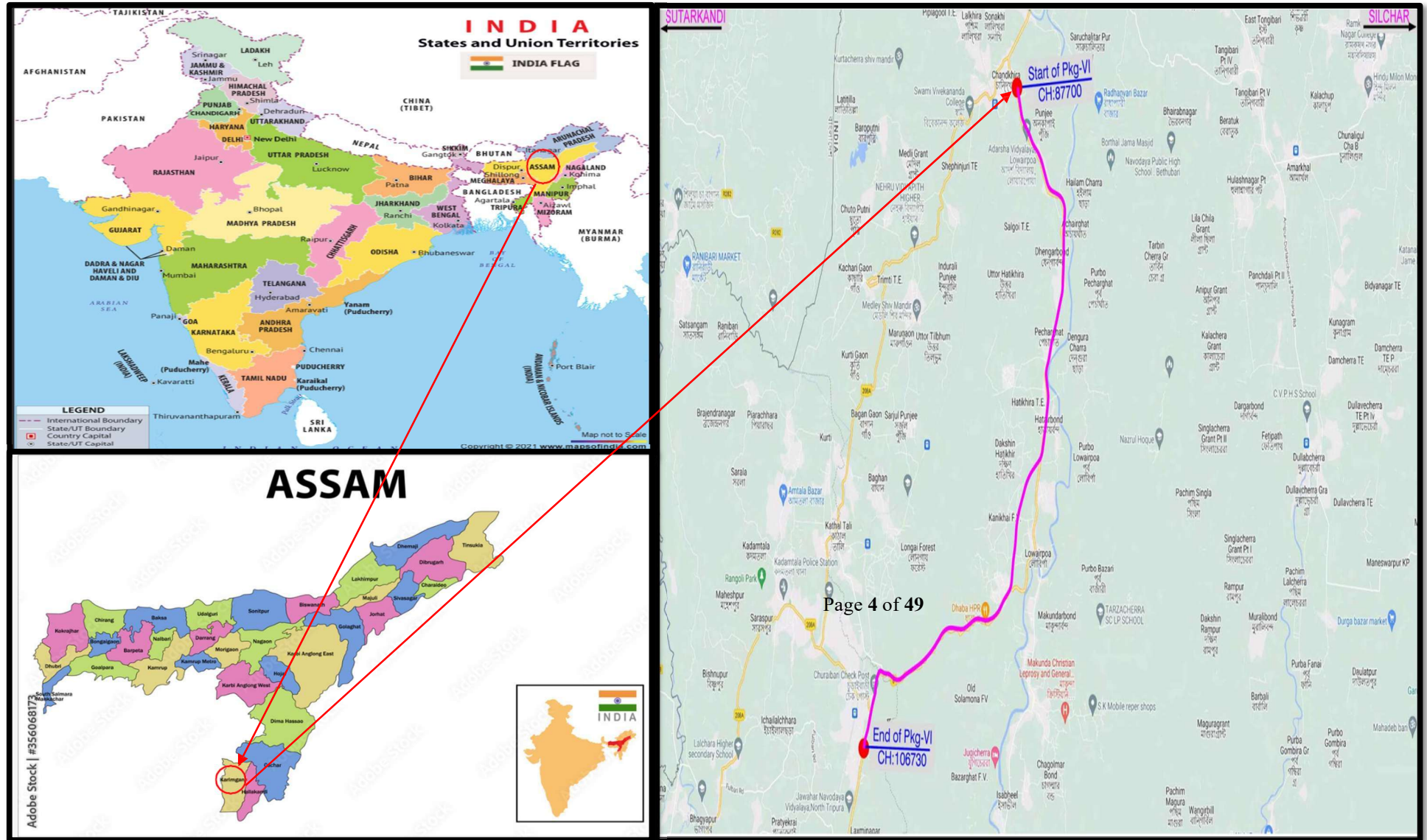
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Four Laning of Badarpur-Churaibari section of NH-37 & NH-8 from Design chainage 87.700 (Chandkhira) to km. 106.500 (Churaibari) in the state of Assam on HAM mode. Package-VI (Length=18.80 km)

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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)

PROJECT LOCATION MAP / INDEX MAP



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 LHS (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

5. Status of Project Works Progress:

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

6. Design and Drawing

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

7. Work Program:

The Concessionaire submitted the revised stage-wise completion schedule and work program vide letter No. **MKCIL/Assam/PKG-06/574** dated 21.11.2025 for approval of the IE/Authority, which was approved by the Independent Engineer vide letter No. **AIPPL-AYOLEEZA/IE/NHIDCL/ Karimganj/PKG06/212** dated. 27.11.2025.

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-6/169** 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.

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)

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.

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

Procurement of ROW- The existing ROW and the stretches of 18.80 km. are subjected to following:

a) Stretches/ Hindered Free Land out of 18.800 km:

Stretches/ Encumbrances Free Land				Encumbrances/ Hindered Land		
Sr. No.	Side	Length (Km)	%	Side	Length (Km)	%
1.	BHS	12.715	67.6%	BHS	6.085	32.36%

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	92+780	LHS	
6.	Small Temple Structure	94+300	RHS	
7.	Temple	94+760	LHS	
8.	Jama Masjid	95+650	RHS	
9.	Temple	95+750	RHS	
10.	Bishnu Temple	100+800	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)

11	Old Temple Shed & Pipal Tree	102+610	RHS	
12.	Shiv Temple Shed	104+400	LHS	
13.	Temple Building	105+800	RHS	
14.	Shiv Temple	106+390	LHS	

d) Details of Hindered Land:

DETAILS OF ENCUMBRANCES WITHIN ROW										
Sr. No	Chainage		Side	Total Length (KM)	Description	Chainage		Side	Total Length (KM)	Description
	From	To				From	To			
1	87+700	87+750	LHS	0.050	Structure	88+000	88+040	RHS	0.040	Structure
2	88+010	88+100	LHS	0.090	Structure	90+100	90+270	RHS	0.170	Structure
3	88+960	88+980	LHS	0.020	Structure	91+300	91+340	RHS	0.040	Structure
4	89+390	89+530	LHS	0.140	Structure	91+700	91+800	RHS	0.100	Structure
5	89+700	89+830	LHS	0.130	Structure	92+290	92+320	RHS	0.030	Structure
6	89+870	89+900	LHS	0.030	Structure	92+580	92+640	RHS	0.060	Structure
7	90+030	90+060	LHS	0.030	Structure	92+900	93+000	RHS	0.100	Structure
8	90+080	90+100	LHS	0.020	Structure	93+430	93+460	RHS	0.030	Structure
9	90+130	90+180	LHS	0.050	Structure	93+950	94+000	RHS	0.050	Structure
10	90+200	90+430	LHS	0.230	Structure	94+540	94+560	RHS	0.020	Structure
11	90+800	90+900	LHS	0.100	Structure	94+620	94+640	RHS	0.020	Structure
12	91+530	91+630	LHS	0.100	Structure	95+100	95+200	RHS	0.100	Structure
13	91+700	91+920	LHS	0.220	Structure	95+650	95+680	RHS	0.030	Structure
14	92+370	92+400	LHS	0.030	Structure	95+700	95+850	RHS	0.150	Structure
15	93+500	93+530	LHS	0.030	Structure	100+430	100+450	RHS	0.020	Structure
16	93+740	93+760	LHS	0.020	Structure	100+500	100+600	RHS	0.100	Structure
17	94+200	94+400	LHS	0.200	Structure	100+720	100+800	RHS	0.080	Structure
18	94+480	94+500	LHS	0.020	Structure	100+950	101+050	RHS	0.100	Structure
19	94+630	94+700	LHS	0.070	Structure	102+208	106+500	RHS	4.292	Forest Land
20	95+250	95+350	LHS	0.100	Structure					
21	95+480	95+500	LHS	0.020	Structure					
22	95+600	95+795	LHS	0.195	Structure					
23	100+700	100+850	LHS	0.150	Structure					
24	100+950	101+050	LHS	0.100	Structure					
25	101+230	101+350	LHS	0.120	Structure					
26	101+920	102+000	LHS	0.080	Structure					
27	102+208	106+500	LHS	4.292	Forest Land					
Total Hindered Length				6.637	LHS				5.532	RHS
Total Hindered Length BHS in RMT				12.169						

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)

14. Current Issues: -

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

- a) Non-availability of land:** - As per the Concession Agreement, 100% of the land is to be handed over to the Concessionaire within 90 days from the Appointed Date. However, only approximately **67.6%** of the land is currently free from encumbrances.

As per Joint Handover Memorandum (Appendix-I) dated 07.03.2025

<u>SUMMARY OF LAND ACQUISITION & CLEARANCES</u>						
Sl. No	Total Land Required (in Ha)	Available Land (in Ha)	Remaining Land (In Ha)	Encumbrance free length (in Km)	% Available encumbrance free length	% Available encumbrance free length excluding forest land
1	86.65	64.7969	3A- 5.0266 Ha - Forest Land – 14.11 Ha. Total : 19.1366 Ha.	14.508 Km	77.17%	100%

Authorized Representative:



M/s M/K C Infrastructure Ltd. Churaibari Kamakhya (Pkg-6) Highways Pvt. Ltd.

Date: 07/03/2025

Place: Sri Bhumi (Karimganj)

General Manager(P)

(Signature)

General Manager (P)

NHIDCL, PMU-Karimganj

Karimganj, Assam

PMU-Karimganj

NHIDCL

b) Proposal of COS: -

1. The proposal of Change of scope for Retaining wall is still pending by the end of the IE/Authority.

The Concessionaire has intimated the Independent Engineer vide letter MKCIL/ASSAM/PKG-6/550 dated 07.11.2025 regarding the proposal for the construction of a retaining wall that mainly arise due to ROW constraint in high-embankment stretches, covering a total length of approximately 440 meters.

2. The proposal of Change of scope for unsuitable soil is still pending by the end of the IE /Authority.

1st Case: The Concessionaire has intimated the Authority/I.E. vide letter MKCIL/ASSAM/PKG-6/222 dated 01.05.2025 regarding the Change of Scope as per Article 16 due to presence of unsuitable soil encountered at several stretches of the project highway.

During the Field Soil Investigation (FSI) conducted at our site laboratory, the soil samples found fail in the test. When placed in water, the soil samples were observed to float, indicating unsuitable for construction purpose. Due to abnormal behavior of the soil, no further standard testing could be carried out on these samples.

2nd Case: The Concessionaire has intimated the Authority/I.E. vide letter MKCIL/ASSAM/PKG-6/224 dated 01.05.2025 regarding the Change of Scope as per Article 16 for several weaker stretches of weak soil strata which have been encountered during the geotechnical investigations. These weak soil zones were neither identified or indicated in the Detailed Project Report (DPR) nor in Concession Agreement for the above-mentioned project.

c) Remark of joint inspection- The remarks from the joint inspection, referenced under letter no. MKCIL/ASSAM/PKG-06/250, for the existing minor bridges at locations 98+267 and 99+247 are still pending from the IE/Authority. These remarks were requested due to the settlement observed by the Concessionaire at the foundation of the both the structure.

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

e) Unpredictable rainfall: - During this month, the occurrence of unpredictable rainfall has adversely affected site activities, resulting in a slowdown in the overall progress of the project.

f) Delay in Completion of Formalities: - The necessary formalities for the EHT line shifting works have not yet been finalized by the Authority.

g) Non-Permission from PWD Authorities: - PWD authorities are not allowing machinery movement through the PWD road for transporting good and construction materials.

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)

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

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

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

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)

CHAPTER-1

INTRODUCTION

General

The NHIDCL proposes to implement the development, maintenance, and management of the NH-37 & NH-8 stretch from Silchar to Churaibari 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 / Silchar Churaibari /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)

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	449.81 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)

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., November 18, 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)

CHAPTER -3

SALIENT FEATURES OF PROJECT HIGHWAY

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

Section	Design Chainage		Stretch in Km.	Sub-Grade	GSB	R-WMM	DBM	BC
	From	To						
MCW	87+700	106+500	18.800	500.00	200.00	205.00	65.00	40.00
				Sub-Grade	R-GSB	R-WMM	DBM	BC
Service Road/Slip Road				500.00	200.00	175.00	50.00	30.00
Note: -The approval of Pavement design is still pending by the end of IE/Authority.								

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)		L-Km.	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, 48- Culverts.
- Construction of Slip Road of 10.460 Km (L)
- Construction of Sr. 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) 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
- b) Operation and Maintenance centers
- c) Way side Amenities/ Service Areas
- d) Bus Bay and Bus Shelter
- e) Pedestrian Facilities
- f) Highway Lighting
- g) Rainwater Harvesting
- h) Environmental Management Plan
- i) Advanced Traffic Management System (ATMS)
- j) Highway Patrol Unit
- k) Emergency Medical Services
- l) 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)

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	MKCIL/ASSAM/PKG-06/383
2	Article 11	Utilities, Associated Roads and Trees	In-progress	
3	Clause 18.1.2	Safety Consultant	Not done	
4	Article 21	Appointment of Independent Engineer	Appointed	Partially Mobilized
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	Submitted	
2	Article 11	Shifting and Relocation Electrical Utilities	In-progress	
3	Article 26	Insurance	Done	
4	Clause 4.1.3 (Schedule-E)	Applicable Permits	Done	
5		A permission of State Govt. for boulders extraction	Done	
6		Permission of Village Panchayet and Pollution Board for installation of crushers	Done	
7		License for use of explosives	N/A	
8		Permission of the State Govt. from drawing water from river/ reservoir	Done	
9		Labour License	Done	
10	Clause 12.1	Quality Assurance Plan	Submitted	MKCIL-169 dt. 01.04.2025
11		Construction Methodology	Submitted	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)

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	Status	Remark
1	EHT Crossing	Nos.	8	Approval is pending	
2	HT/ LT lines (including Transformers if any)	Nos.	741	In Progress	
3	HT/ LT crossing	Nos.	67	In Progress	
4	Water Pipeline	Km	26.98	In Progress	
5	Water Pipeline Crossing	Nos.	24	In Progress	

5.3 Tree Cutting

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

Sr. No.	Description	Total	Remarks
1.	Total Number of Trees	691.00	Non-Forest area
2.	Total Felling of Trees	460.00	
3.	Balance Trees	231.00	

5.4 Land Acquisition

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

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)

CHAPTER -6

MOBILIZATION

6.1 Manpower Mobilization of Concessionaire

Sr. No.	Name of Employee	Designation	Department
1.	Satish Chandra Pandey	Sr.GM	HQ
2.	Ajeet Kumar Shukla	Project Manager	Project Execution
3.	Ajeet Kumar	Deputy Manager	HR/Admin
4.	Vikash Kumar Mishra	Executive	HR/Admin
5.	Amit Kumar Verma	Supervisor	Admin
6.	Rakesh Samanta	Deputy Manager	Survey
7.	Asim Pal	Asst. Manager	Survey
8.	Sunil Singh	Senior Surveyor	Survey
9.	Lakshman Samai	Surveyor	Survey
10.	Saurav Nayak	Junior Surveyor	Survey
11.	Vinay Ram Dubey	Assistant Manager	Liaison
12.	Gulzar Ahmed	Executive	Liaison
13.	Biswajit Santra	Manager	QA/ QC
14.	Jitendra Kumar Sah	Engineer	QA/QC
15.	Kanhaiya Singh	Lab Technician	QA/QC
16.	Shivam Dubey	Lab Technician	QA/QC
17.	Sandeep Kumar Vishwakarma	Lab Technician	QA/QC
18.	Nilamber Mahto	Lab Technician	QA/QC
19.	Shivam Shroshria	G.E. T	QA/QC
20.	Pritom Manna	Junior Engineer	QA/QC
21.	Debjyoti jena	Junior Engineer	QA/QC
22.	Deepak Kumar Mishra	Deputy Manager	Highway
23.	Mohan Kumar Jha	Senior Engineer	Highway
24.	Sonu	Senior Engineer	Highway
25.	Beetan Banarje	Senior Engineer RE Wall	Highway
26.	Ashwini Gupta	Engineer	Highway
27.	Md Shariqre Alam	Jr. Engineer	Highway
28.	Pawan Gupta	Jr. Engineer	Highway
29.	Sadanand Yadav	Jr. Engineer	Highway
30.	Ram Narain Sharma	Sr. Supervisor	Highway
31.	Surendra Sharma	Sr. Supervisor	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)

32.	Bharat Mahto	Sr. Supervisor	Highway
33.	Gopal Karol	Supervisor	Highway
34.	Karuparthi Kumarswamy	DPM	Structure
35.	Sohan Mishra	Manager	Structure
36.	Jagdish Yadav	Senior Engineer	Structure
37.	Varun Kumar Gautam	Engineer	Structure
38.	Abhishek Singh	Engineer	Structure
39.	Vishal Kumar	Engineer	Structure
40.	Nilesh Kumar	Junior Engineer	Structure
41.	Barun Dubey	Junior Engineer	Structure
42.	Sumit Kumar	Junior Engineer	Structure
43.	Shubham Pandey	Junior Engineer	Structure
44.	Ankit Krishnaut	GET	Structure
45.	Jagdish Pandey	Manager	Planning & Billing
46.	Abhay Kr. Singh	Senior Engineer	Planning & Billing
47.	Rajesh Gantayata	Assistant Engineer	Planning & Billing
48.	Abhinab Kishore	Engineer	Planning & Billing
49.	Harsh	Engineer	Planning & Billing
50.	Tarun Kumar	Get	Planning & Billing
51.	Bikash Chandra Sahu	Senior Executive	IT
52.	Santosh Kumar Jena	Manager	Store
53.	Santosh Kumar Yadav	Senior Executive	Store
54.	Ankit Kumar	Executive	Store
55.	Shiva Dutta Pani	Executive	Store
56.	Asheesh Shukla	Executive	Store
57.	Govind Ram Nagar	Officer	Store
58.	Rahul Mandal	Jr. Executive	Store
59.	Vikas Kumar Ojha	Supervisor	Store
60.	Shailesh Kumar Singh	Supervisor	Store
61.	Ram Mohan Pandey	Supervisor	Store
62.	Sanjay Singh	Supervisor	Store
63.	Arvind Ray	Supervisor	Store
64.	Yashwant Raj	Supervisor	Store
65.	Bhaskar Ganguly	Manager	Mechanical
66.	Milan Kumar Swain	Sr. Engineer	Mechanical
67.	Rajiv Ranjan	Engineer	Mechanical
68.	Sahajan Alom Choudhury	Executive	Mechanical
69.	Aman Kumar	Executive	Mechanical

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)

70.	Mithilesh Kumar	Executive	Mechanical
71.	Debasis Sahoo	Sr, Supervisor	Mechanical
72.	Vijay Ram Dubey	Fleet In-Charge	Mechanical
73.	Shiv Kr. Pareek	Executive	F & A
74.	Shivam Singh	Junior Executive	H.S.E - Safety
75.	Rishu Kumar	Engineer	Electrical

6.2 Manpower Mobilization of Independent Engineer

SI.no	Name	Designation	DOJ
1	Manoj Kumar Jha	Team Leader	01.05.2025
2	Pritam Kumar Singh	Resident Engineer	19.05.2025
3	Shankar Kumar Singh	Bridge Engineer	08.08.2025
4	Ujjwal Rout	Senior Pavement Specialist	18.08.2025
5	Bhanu Pratap Verma	SQME	04.08.2025
6	Sourav Chakraborty	Assistant Highway Engineer	15.05.2025
7	Swadesh suman	Assistant Bridge Engineer	13.08.2025
8	Lakhan Singh	Survey Engineer	18.08.2025
9	Pushkar Mishra	Assistant Quality Material Engineer	24.07.2025

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)

CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed: -

Sr. no.	Type of Machine	Nos	Remark
1	Excavator	11	
2	Tipper	34	
3	Farana 30 Ton capacity crane	02	
4	Hydra 14 Ton capacity	01	
5	Batching plant	01	
6	RE block Plant	01	
7	WMM Plant 250 TPH	01	
8	Soil Compactor Roller	08	
9	Mini Tandem Roller	01	
10	Motor Grader	03	
11	Transit Mixer	11	
12	Backhoe Loader	04	
13	LMV Vehicle	11	
14	Diesel Tanker	02	
15	Trailer	01	
16	DG	12	
17	Tractor	03	
18	Boom Placer	01	
19	Water Tanker	01	
20	Loader	01	
21	Paver	01	

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)

**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 **November 30, 2025**, is enclosed in this chapter of the report.

Road Works

S N	Description	Unit	Total	Submitted	Approval	Remarks
1.	Plan & Profile MCW	Km	18.800	18.800	18.800	
2.	Plan & Profile SR	Km	10.440	10.440	10.440	
3.	Typical Cross Section	Nos	1.00	1.00	0.00	
4.	Pavement Design Report	Nos	1.00	1.00	0.00	Approval is still pending by the end of IE/authority.
5.	RE Wall	Nos	5.00	3.00	3.00	
7.	Minor Junction	Nos	24.00	-	-	
8.	Signage Plan	Nos	1.00	-	-	
9.	Rest Area	Nos	1.00	-	-	

Structure Works; -

Description	Total Nos	Submitted	Approved	Remarks
LVUP	4	4	4	
VUP	2	2	2	
MNB	24	22	22	
Box Culverts	38	38	38	Revised 4 Nos D & D Submitted under letter reference MKCIL/ASSAM/PKG-6/571 dated-18.11.2025
Pipe Culvert	10	10	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)

CHAPTER-9

PROJECT WORK PROGRESS

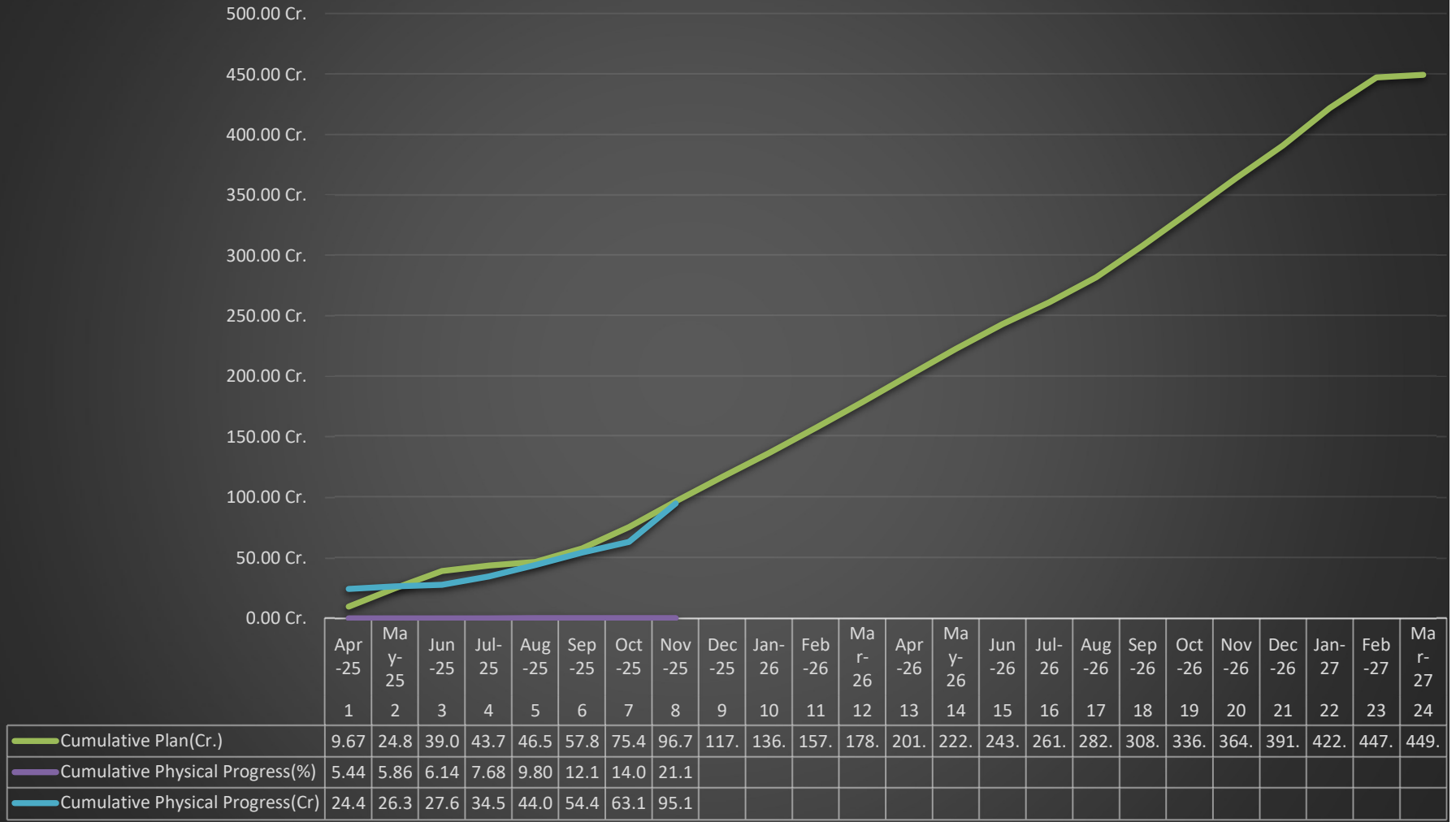
9.1 Work Progress:

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

Schedule-G							
Item	Stage for measurement of Physical Progress	Unit	Qty.	Weightage in percentage to the contract price	Physical Progress	% of Physical Progress	Value of Physical progress
Road works including culverts, minor Bridges, underpasses, overpasses, approaches to ROB/RUB/Major Bridges/Strctures (But excluding service road)	A - Widening and strengthening of existing road						
	(1) Earthwork upto top of Sub-grade	L-Km	26.17	15.79%	5.75	22.0%	3.5%
	(2) Granular work (Sub-base, base,shoulder)						
	(a) GSB	L-Km	26.17	5.19%		0.0%	0.0%
	(b) WMM	L-Km	26.17	4.89%		0.0%	0.0%
	(3) Shoulders	L-Km	26.17	0.21%		0.0%	0.0%
	(4) Bituminous Work						
	(a) DBM	L-Km	26.17	3.80%		0.0%	0.0%
	(b) BC	L-Km	26.17	2.57%		0.0%	0.0%
	(6) Widening and repair of culverts	No.	32.00	1.30%	4.00	12.5%	0.2%
	(7) Widening and repair of Minor Bridges	No.	18.00	4.44%	11.00	61.1%	2.7%
	B - New 4 Lane Realignment/Bypass						
	(1) Earthwork upto top of Sub-grade	L-Km	10.67	5.16%	0.96	9.0%	0.5%
	(2) Granular work (Sub-base, base, Shoulder)						
	(a) GSB	L-Km	10.67	2.50%		0.0%	0.0%
	(b) WMM	L-Km	10.67	1.83%		0.0%	0.0%
	(3) Shoulders	L-Km	10.67	0.43%		0.0%	0.0%
	(4) Bituminous Work						
	(a) DBM	L-Km	10.67	1.38%		0.0%	0.0%
	(b) BC	L-Km	10.67	0.92%		0.0%	0.0%
	C- New Culverts, Minor Bridges, underpasses, overpasses on existing road, realignment, bypasses:						
	1) Culverts	No.	64.00	3.52%	45.00	70.3%	2.5%
	2) Minor Bridges						
	a) Foundation	No.	62.00	7.87%	20.00	32.3%	2.5%
	b) Sub-Structure	No.	62.00	2.54%	11.00	17.7%	0.5%
	c) Super-Structure (including Crash Barrier etc. Complete) If pre-cast girders/ segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments						
	c-i) Precast Girder - On Casting (40%)	No.	20.00	2.32%		0.0%	0.0%
	c-ii) Slab - after Completion of Slab (60%)	No.	42.00	3.48%	11.00	26.2%	0.9%
	5) Grade Separated Structures						
	a) Underpasses						
	i) Foundation	No.	16.00	3.12%	16.00	100.0%	3.1%
	ii) Sub-Structure	No.	16.00	1.38%	16.00	100.0%	1.4%
	iii) Super-Structure (including Crash Barrier,Wearing coat etc. Complete) If pre-cast girders/ segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments						
	iii-a) Precast Girder - On Casting (40%)	No.	4.00	0.74%	2.00	50.0%	0.4%
	iii-b) Slab - after Completion of Slab (60%)	No.	12.00	1.10%	8.00	66.7%	0.7%
Structures (Elevated Section, Reinforced earth)	7) Reinforced earth Wall including Approaches or ROB,Underpasses, Over passes, Flyover etc. If pre-cast girders are used with fascia panels/blocks, 5% of weightage of the stage in percentage to bid project cost is assigned to the casting of such precast blocks/blocks for complete approach						
	i) Re-Wall using Panel/Blocks Casting (5%)	Sq.m	52,300.00	0.08%	42,000.00	80.3%	0.1%
	ii) Re-Wall using Panel/Blocks Erection (95%)	Sq.m	52,300.00	1.56%	150.00	0.3%	0.0%
Electrical and Public Health Utilities	UTILITY SHIFTING						
	EHT Crossing	No.	8.00	1.59%			
	HT/LT lines (including Transformers if any)	Km	18.80	0.35%	7.00	37.2%	0.1%
	HT/LT crossings	No.	67.00	2.36%	34.00	50.7%	1.2%
	Water pipeline	L-Km	26.98	0.49%	26.98	100.0%	0.5%
	Water pipeline crossings	No.	23.00	0.32%	3.00	13.0%	0.0%
MISSCELANEOUS WORKS							
Other Works	i) - Service Road / Slip Road	L-Km	20.90	4.23%			
	iii) Road Side Drains	L-Km	20.90	3.78%	2.50	12.0%	0.5%
	iv) - Road signs,markings, Km Stone, Safety devices						
	(a) Road signs,markings, Km Stone	L-Km	37.60	0.53%		0.0%	0.0%
	(b) Concrete Crash Barrier/W Beam Crash Barrier in Road work	L-Km	25.96	2.20%		0.0%	0.0%
	v) - Project Facilities						
	(a) Bus bays	No.	12.00	0.03%		0.0%	0.0%
	(c) Rest Area	No.	1.00	0.59%			
	viii) - Protection Work						
	(b) Toe / Retaining Wall	L-Km	2.56	2.60%		0.0%	0.0%
	x)Miscellaneous						
	(a) Street Lightning	No.	1,672.00	0.54%		0.0%	0.0%
	(b)ATMS, HTMS, Traffic Aid Posts, Medical aid Posts, Vehicle Recue Posts, Telecom System	L-Km	37.60	0.44%		0.0%	0.0%
	(c) Boundary Wall	L-Km	37.51	1.37%		0.0%	0.0%
	(d) Junction	No.	24.00	0.33%		0.0%	0.0%
	(e) Rain Water Harwesting (RWH)	No.	38.00	0.13%		0.0%	0.0%
Grand Total >>>				100.00%			21.174%

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)

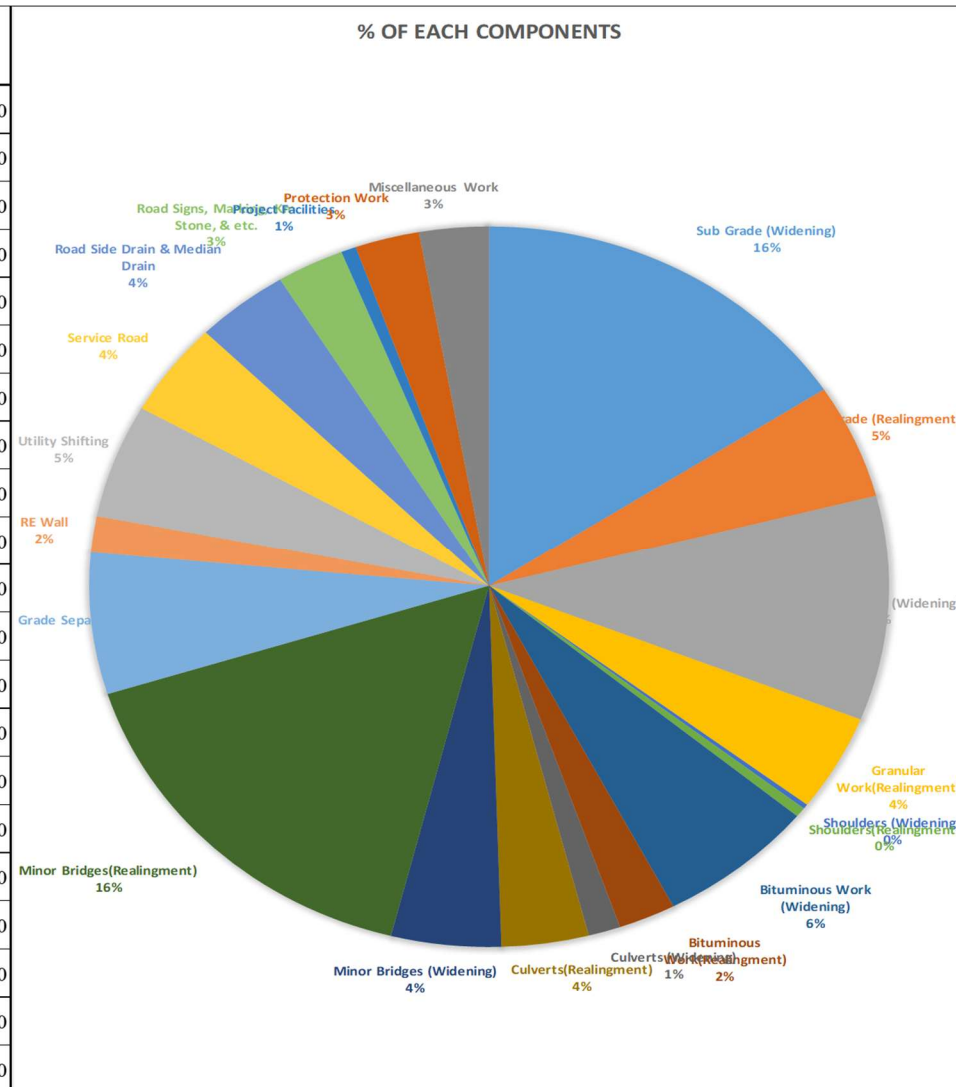
9.2 S Curve



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)

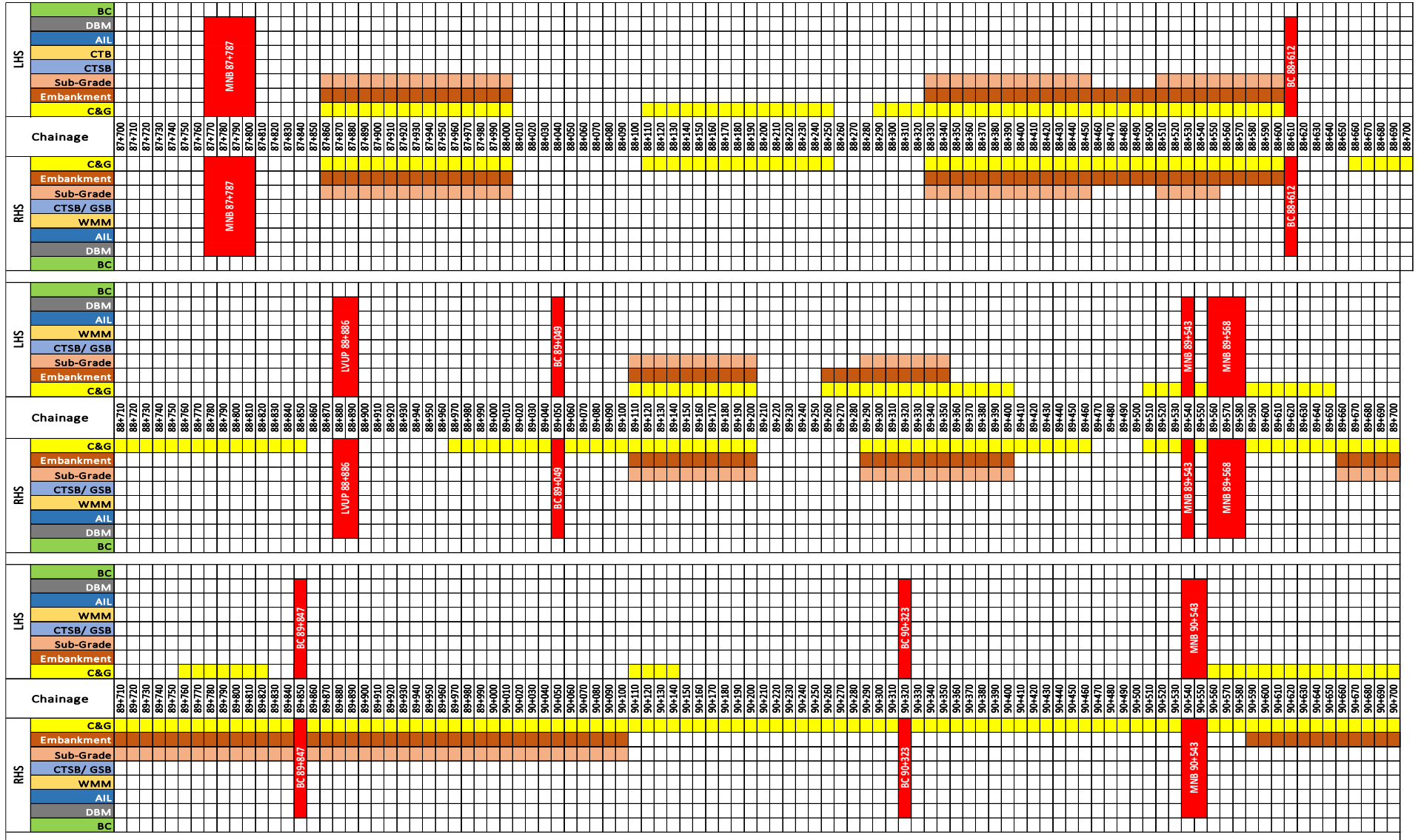
9.3 Weightages

Work Description	% of Each sub components	Amount (Cr.)
Sub Grade (Widening)	15.79%	71,02,49,990.00
Sub Grade (Realingment)	5.16%	23,21,01,960.00
Granular Work (Widening)	10.09%	45,38,58,290.00
Granular Work(Realingment)	4.33%	19,47,67,730.00
Shoulders (Widening)	0.21%	94,46,010.00
Shoulders(Realingment)	0.43%	1,93,41,830.00
Bituminous Work (Widening)	6.37%	28,65,28,970.00
Bituminous Work(Realingment)	2.31%	10,39,06,110.00
Culverts (Widening)	1.30%	5,84,75,300.00
Culverts(Realingment)	3.52%	15,83,33,120.00
Minor Bridges (Widening)	4.44%	19,97,15,640.00
Minor Bridges(Realingment)	16.20%	72,86,92,200.00
Grade Separated Structures	6.34%	28,51,79,540.00
RE Wall	1.64%	7,37,68,840.00
Utility Shifting	5.11%	22,98,52,910.00
Service Road	4.23%	19,02,69,630.00
Road Side Drain & Median Drain	3.78%	17,00,28,180.00
Road Signs, Marking, Km Stone, & etc.	2.73%	12,27,98,130.00
Project Facilities	0.61%	2,74,38,410.00
Protection Work	2.60%	11,69,50,600.00
Miscellaneous Work	2.81%	12,63,96,610.00



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)

9.4 Highway Progress:



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)

RHS		LHS	
Chainage	C&G Embankment Sub-Grade CTSB/ GSB WMM AiL DBM BC	Chainage	C&G Embankment Sub-Grade CTSB/ GSB WMM AiL DBM BC
90+710		91+710	
90+720		91+720	
90+730		91+730	
90+740		91+740	
90+750		91+750	
90+760		91+760	
90+770		91+770	
90+780		91+780	
90+790		91+790	
90+800		91+800	
90+810		91+810	
90+820		91+820	
90+830		91+830	
90+840		91+840	
90+850		91+850	
90+860		91+860	
90+870		91+870	
90+880		91+880	
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91+670		92+670	
91+680		92+680	
91+690		92+690	
91+700		92+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)									
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		96.710	96.720	96.730	96.740	96.750	96.760	96.770	96.780
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		96.800	96.810	96.820	96.830	96.840	96.850	96.860	96.870
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		96.890	96.900	96.910	96.920	96.930	96.940	96.950	96.960
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		96.980	96.990	97.000	97.010	97.020	97.030	97.040	97.050
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.070	97.080	97.090	97.100	97.110	97.120	97.130	97.140
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.160	97.170	97.180	97.190	97.200	97.210	97.220	97.230
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.250	97.260	97.270	97.280	97.290	97.300	97.310	97.320
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.340	97.350	97.360	97.370	97.380	97.390	97.400	97.410
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.430	97.440	97.450	97.460	97.470	97.480	97.490	97.500
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.520	97.530	97.540	97.550	97.560	97.570	97.580	97.590
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.610	97.620	97.630	97.640	97.650	97.660	97.670	97.680
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.700	97.710	97.720	97.730	97.740	97.750	97.760	97.770
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.790	97.800	97.810	97.820	97.830	97.840	97.850	97.860
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.880	97.890	97.900	97.910	97.920	97.930	97.940	97.950
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		97.970	97.980	97.990	98.000	98.010	98.020	98.030	98.040
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		98.060	98.070	98.080	98.090	98.100	98.110	98.120	98.130
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		98.150	98.160	98.170	98.180	98.190	98.200	98.210	98.220
LHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		98.240	98.250	98.260	98.270	98.280	98.290	98.300	98.310
RHS	Chainage	C&G	Embankment	Sub-Grade	CTSB/ GSB	WMM	AIL	DBM	BC
		98.330	98.340	98.350	98.360	98.370	98.380		

LHS		RHS	
Chainage	BC DBM AIL WMM CTSB/ GSB Sub-Grade Embankment C&G	Chainage	BC DBM AIL WMM CTSB/ GSB Sub-Grade Embankment C&G
99+710		100+710	
99+720		100+720	
99+730		100+730	
99+740		100+740	
99+750		100+750	
99+760		100+760	
99+770		100+770	
99+780		100+780	
99+790		100+790	
99+800		100+800	
99+810		100+810	
99+820		100+820	
99+830		100+830	
99+840		100+840	
99+850		100+850	
99+860		100+860	
99+870		100+870	BC 100+864
99+880	BC 99+895	100+880	100+880
99+890	BC 99+895	100+890	100+890
99+900		100+900	100+900
99+910		100+910	100+910
99+920		100+920	100+920
99+930		100+930	100+930
99+940		100+940	100+940
99+950		100+950	100+950
99+960		100+960	100+960
99+970		100+970	100+970
99+980		100+980	100+980
99+990		100+990	100+990
100+000		101+000	101+000
100+010		101+010	101+010
100+020		101+020	101+020
100+030		101+030	101+030
100+040		101+040	101+040
100+050		101+050	101+050
100+060		101+060	BC 101+061
100+070		101+070	101+070
100+080		101+080	101+080
100+090		101+090	101+090
100+100		101+100	101+100
100+110		101+110	101+110
100+120		101+120	101+120
100+130		101+130	101+130
100+140		101+140	101+140
100+150		101+150	101+150
100+160		101+160	101+160
100+170		101+170	101+170
100+180		101+180	101+180
100+190		101+190	BC 101+192
100+200		101+200	101+200
100+210		101+210	101+210
100+220		101+220	101+220
100+230		101+230	101+230
100+240		101+240	101+240
100+250		101+250	101+250
100+260		101+260	101+260
100+270		101+270	101+270
100+280		101+280	101+280
100+290	VUP 100+290	101+290	101+290
100+300		101+300	101+300
100+310		101+310	101+310
100+320		101+320	101+320
100+330		101+330	101+330
100+340		101+340	101+340
100+350		101+350	101+350
100+360		101+360	101+360
100+370		101+370	BC 101+383
100+380		101+380	101+380
100+390		101+390	101+390
100+400		101+400	101+400
100+410		101+410	101+410
100+420		101+420	101+420
100+430		101+430	101+430
100+440		101+440	101+440
100+450		101+450	101+450
100+460		101+460	101+460
100+470		101+470	101+470
100+480	BC 100+477	101+480	101+480
100+490		101+490	101+490
100+500		101+500	101+500
100+510		101+510	101+510
100+520		101+520	101+520
100+530		101+530	101+530
100+540		101+540	BC 101+538
100+550		101+550	101+550
100+560		101+560	101+560
100+570		101+570	101+570
100+580		101+580	101+580
100+590		101+590	101+590
100+600		101+600	101+600

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)

RHS	Chainage	LHS					
		BC	DBM	AIL	WMM	CTS/ GSB	Sub-Grade
	104+710						
	104+720						
	104+730						
	104+740						
	104+750						
	104+760						
	104+770						
	104+780						
	104+790						
	104+800						
	104+810						
	104+820						
	104+830						
	104+840						
	104+850						
	104+860						
	104+870						
	104+880						
	104+890						
	104+900						
	104+910						
	104+920						
	104+930						
	104+940						
	104+950						
	104+960						
	104+970						
	104+980						
	104+990						
	105+000						
	105+010						
	105+020						
	105+030						
	105+040						
	105+050						
	105+060						
	105+070						
	105+080						
	105+090						
	105+100						
	105+110						
	105+120						
	105+130						
	105+140						
	105+150						
	105+160						
	105+170						
	105+180						
	105+190						
	105+200						
	105+210						
	105+220						
	105+230						
	105+240						
	105+250						
	105+260						
	105+270						
	105+280						
	105+290						
	105+300						
	105+310						
	105+320						
	105+330						
	105+340						
	105+350						
	105+360						
	105+370						
	105+380						
	105+390						
	105+400						
	105+410						
	105+420						
	105+430						
	105+440						
	105+450						
	105+460						
	105+470						
	105+480						
	105+490						
	105+500						
	105+510						
	105+520						
	105+530						
	105+540						
	105+550						
	105+560						
	105+570						
	105+580						
	105+590						
	105+600						
	105+610						
	105+620						
	105+630						
	105+640						
	105+650						
	105+660						
	105+670						
	105+680						
	105+690						
	105+700						
	104+710						
	104+720						
	104+730						
	104+740						
	104+750						
	104+760						
	104+770						
	104+780						
	104+790						
	104+800						
	104+810						
	104+820						
	104+830						
	104+840						
	104+850						
	104+860						
	104+870						
	104+880						
	104+890						
	104+900						
	104+910						
	104+920						
	104+930						
	104+940						
	104+950						
	104+960						
	104+970						
	104+980						
	104+990						
	105+000						
	105+010						
	105+020						
	105+030						
	105+040						
	105+050						
	105+060						
	105+070						
	105+080						
	105+090						
	105+100						
	105+110						
	105+120						
	105+130						
	105+140						
	105+150						
	105+160						
	105+170						
	105+180						
	105+190						
	105+200						
	105+210						
	105+220						
	105+230						
	105+240						
	105+250						
	105+260						
	105+270						
	105+280						
	105+290						
	105+300						
	105+310						
	105+320						
	105+330						
	105+340						
	105+350						
	105+360						
	105+370						
	105+380						
	105+390						
	105+400						
	105+410						
	105+420						
	105+430						
	105+440						
	105+450						
	105+460						
	105+470						
	105+480						
	105+490						
	105+500						
	105+510						
	105+520						
	105+530						
	105+540						
	105+550						
	105+560						
	105+570						
	105+580						
	105+590						
	105+600						
	105+610						
	105+620						
	105+630						
	105+640						
	105+650						
	105+660						
	105+670						
	105+680						
	105+690						
	105+700						
	104+710						
	104+720						
	104+730						
	104+740						
	104+750						
	104+760						
	104+770						
	104+780						
	104+790						
	104+800						
	104+810						
	104+820						
	104+830						
	104+840						
	104+850						
	104+860						
	104+870						
	104+880						
	104+890						
	104+900						
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	104+930						
	104+940						
	104+950						
	104+960						
	104+970						
	104+980						
	104+990						
	105+000						
	105+010						
	105+020						
	105+030						
	105+040						
	105+050						
	105+060						
	105+070						
	105+080						
	105+090						
	105+100						
	105+110						
	105+120						
	105+130						
	105+140						
	105+150						
	105+160						
	105+170						
	105+180						
	105+190						
	105+200						
	105+210						
	105+220						
	105+230						
	105+240						
	105+250						
	105+260						
	105+270						
	105+280						
	105+290						
	105+300						
	105+310						
	105+320						
	105+330						

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)

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	MNB 106+306	
	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)

9.5 Detailed Structure Work Progress

9.5.1 Status of HPC

SN	LHS							HPC Chainage	RHS						
	H/W Final Lift	H/W-2nd Lift	H/W-1st Lift	H/W-PCC M15	Laying of Pipe	PCC/Granular Bed	Layout & Excavation		Layout & Excavation	PCC/Granular Bed	Laying of Pipe	H/W-PCC M15	H/W-1st Lift	H/W-2nd Lift	H/W Final Lift
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							

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)

9.5.2 Status of Box Culvert

	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 A2	88+612	A1 A2										
2												A1 A2	89+049	A1 A2										
3												A1 A2	89+847	A1 A2										
4												A1 A2	90+323	A1 A2										
5												A1 A2	90+747	A1 A2										
6												A1 A2	90+970	A1 A2										
7												A1 A2	91+349	A1 A2										
8												A1 A2	91+665	A1 A2										
9												A1 A2	92+047	A1 A2										
10												A1 A2	92+862	A1 A2										
11												A1 A2	93+118	A1 A2										
12												A1 A2	93+354	A1 A2										
13												A1 A2	94+345	A1 A2										
14												A1 A2	94+814	A1 A2										
15												A1 A2	94+925	A1 A2										
16												A1 A2	96+430	A1 A2										
17												A1 A2	96+692	A1 A2										
18												A1 A2	96+951	A1 A2										
19												A1 A2	98+374	A1 A2										
20												A1 A2	98+444	A1 A2										
21												A1 A2	99+443	A1 A2										
22												A1 A2	99+517	A1 A2										
23												A1 A2	99+693	A1 A2										
24												A1 A2	99+895	A1 A2										
25												A1 A2	100+477	A1 A2										
26												A1 A2	100+666	A1 A2										
27												A1 A2	100+864	A1 A2										
28												A1 A2	101+061	A1 A2										
29												A1 A2	101+192	A1 A2										
30												A1 A2	101+383	A1 A2										
31												A1 A2	101+538	A1 A2										
32												A1 A2	101+883	A1 A2										
33												A1 A2	102+969	A1 A2										
34												A1 A2	103+662	A1 A2										
35												A1 A2	103+918	A1 A2										
36												A1 A2	104+744	A1 A2										
37												A1 A2	104+941	A1 A2										
38												A1 A2	105+088	A1 A2										

1	Not Available	
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)

9.5.3 Status of Minor Bridge

Sl.no.	LHS					Minor Bridge Chainage	RHS				
	Super-structure	Sub-structure	Foundation	Excavation	Abutment		Abutment	Excavation	Foundation	Sub-structure	Super-structure
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				
12					A1	98+508	A1				
					A2		A2				
13					A1	98+631	A1				
					A2		A2				
14					A1	99+045	A1				
					A2		A2				
15					A1	99+247	A1				
					A2		A2				
16					A1	102+109	A1				
					A2		A2				
17					A1	102+508	A1				
					A2		A2				
18					A1	103+116	A1				
					A2		A2				
19					A1	103+437	A1				
					A2		A2				
20					A1	103+784	A1				
					A2		A2				
21					A1	104+443	A1				
					A2		A2				
22					A1	105+378	A1				
					A2		A2				
23					A1	105+697	A1				
					A2		A2				
24					A1	106+306	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)

9.5.4 Status of VUP

SN	LHS							VUP Chainage	RHS							
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	Sub-structure	Foundation	Layout & Excavation		Abutment	Layout & Excavation	Foundation	Sub-structure	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	

9.5.5 Status of LVUP

SN	LHS									LVUP Chainage	RHS										
	Miscellaneous Item	Crash Barrier	Approach Slab	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	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									

1	Not Available	1
2	In Progress	
3	Completed	

CHAPTER-10

QUALITY CONTROL AND MATERIAL

10.1 Quality Control

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

10.2 Site Laboratory

The Site Laboratory is established at Base Camp located at CH: -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 30th November 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 Dalmia Cement (OPC 53 Grade), Star Cement (OPC 53 Grade) & Max Cement (OPC 53 Grade) for the project work.

10.3.3 Reinforcement Steel

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

10.3.4 Status of materials source approval & Mix Design

10.3.5

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 cement)	MKCIL/ASSAM/P KG-06/188 dt. 09.04.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/38
2.	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- Star cement)	MKCIL/ASSAM/P KG- 06/188 dt.09.04.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/39

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)

3.	RCC M-50 (RCC & PSC) (Cement- Dalmia cement)	MKCIL/ASSAM/PKG-06/579 dt. 24.11.2025	Partially Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/216
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Cement				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Black Tiger Cement	MKCIL/ASSAM/PKG-06/148 dt. 22.03.2025	Not approved	
2.	Dalmia Cement	MKCIL/ASSAM/PKG-06/149 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/11
3.	Max Cement	MKCIL/ASSAM/PKG-06/150 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/26
4.	Star Cement	MKCIL/ASSAM/PKG-06/151 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/12
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	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/63
2.	Shyam Steel industries Ltd.	MKCIL/ASSAM/PKG-06/107 dt. 29.01.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/13
3.	SRMB Srijan Pvt. Ltd.	MKCIL/ASSAM/PKG-06/152 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/16
4.	Elegant Steel	MKCIL/ASSAM/PKG-06/203 dt. 19.04.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/64
5.	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	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/15
2.	CHRYSO India Pvt. Ltd	MKCIL/ASSAM/PKG-06/144 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/18
3.	CICO Technologies Ltd.	MKCIL/ASSAM/PKG-06/145 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/19
4.	FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-06/146 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/20
5.	Vista Chemtech Pvt. Ltd.	MKCIL/ASSAM/PKG-06/147 dt. 22.03.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/17
6.	Hexatron Industry Limited	MKCIL/ASSAM/PKG-06/580 dt. 24.11.2025	Approved	AIPPL-AYOLEEZ/IE/NHIDCL-Karimganj/Pkg-06/215

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)

Pre-Stressing Components				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1	3 Power Pre-Stressing LLP	MKCIL/ASSAM/PKG- 06/520 dt. 06.10.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDC/Karimganj/Pkg-06/182
2	JK Company	MKCIL/ASSAM/PKG- 06/553 dt. 10.11.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDC/Karimganj/Pkg-06/201

Expansion Joint Sheets				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1	Mageba Bridge Products Private Limited	MKCIL/ASSAM/PKG- 06/559 dt. 18.11.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDC/Karimganj/Pkg-06/196
2	JK Company	MKCIL/ASSAM/PKG- 06/564 dt. 14.11.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDC/Karimganj/Pkg-06/201
3	Maurer Sanfield (India) Limited	MKCIL/ASSAM/PKG- 06/560 dt. 12.11.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDC/Karimganj/Pkg-06/197

GFRP Bar				
Sr. No.	Brand Name	Letter No.	Status	IE letter no.
(a)	Tata steel	MKCIL/ASSAM/PKG- 06/272 dt. 31.05.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/58
(b)	Fibertron Composite Private	MKCIL/ASSAM/PKG- 06/408 dt. 28.07.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/106

Test Laboratory				
Sr. No.	Brand Name	Letter No.	Status	IE letter no.
1	Avian Lab	MKCIL/ASSAM/PKG-06/270 dt. 31.05.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/54
2	Delhi test house	MKCIL/ASSAM/PKG-06/154 dt. 22.03.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/10
3	Universal Lab	MKCIL/ASSAM/PKG-06/193 dt. 12.04.2025	Approved	L AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/32
4	Shree Bala ji	MKCIL/ASSAM/PKG-06/194 dt. 12.04.2025	Approved	AIPPL- AYOLEEZ/IE/NHIDCL- Karimganj/Pkg-06/31

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)

Monthly Laboratory Report

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

Summary of Quality Control Test For The Month of November -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	58	58	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	58	58	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	58	58	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	58	58	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	58	58	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)	542	519	23	14	14	0	556	533	23	3	3	0	21.43	
(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.	213	213	0	18	18	0	231	231	0	5	5	0	27.78	
2.2	Grain size analysis (GSA)	IS : 2720 (P-4)	2 Test's / 3000 Cum.	213	213	0	18	18	0	231	231	0	4	4	0	22.22	
2.3	Liquid limits (LL)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	213	213	0	18	18	0	231	231	0	6	6	0	33.33	
2.4	Plasticity Index (PI)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	213	213	0	18	18	0	231	231	0	6	6	0	33.33	
2.5	Proctor test (MDD & OMC)	IS : 2720 (P-8)	2 Test's / 3000 Cum.	213	213	0	18	18	0	231	231	0	7	7	0	38.89	
2.6	California Bearing Ratio Test (CBR)	IS : 2720 (P-16)	1 Test's / 3000 Cum.	108	108	0	9	9	0	117	117	0	4	4	0	44.44	
2.7	Field Compaction Test (Emb)	IS : 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pit's)	3125	3046	79	253	240	13	3378	3286	92	110	97	13	43.48	
2.8	Field Compaction Test (Subgrade)	IS : 2720 (P-28)	1 Set / 2000 Sqm. (1Set = 10 Pit's)	611	578	33	184	174	10	795	752	43	98	88	10	53.26	
(III). Coarse Agg. for Concrete Work's		MoRT&H Table -900-6															
3.1	Gradation of Coarse Aggregate	IS : 2386 (P-1)	1 Test / Every day's work	237	237	0	30	30	0	267	267	0	8	8	0	26.67	
3.2	Flakiness Index (FI)	IS : 2386 (P-1)	1 Test for source / Weekly	31	31	0	4	4	0	35	35	0	1	1	0	25.00	
3.3	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test for source / Weekly	31	31	0	4	4	0	35	35	0	1	1	0	25.00	
3.4	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	4	4	0	0	0	0	4	4	0	0	0	0	0.00	
3.5	Water Absorption	IS : 2386 (P-3)	1 Test / Source	4	4	0	0	0	0	4	4	0	0	0	0	0.00	
3.6	Deleterious Constituents	IS : 2386 (P-2)	1 Test / As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
3.7	Moisture correction	IS : 2386 (P-3)	1 Test / Day	237	237	0	30	30	0	267	267	0	10	10	0	33.33	
3.8	Soundness	IS : 2386 (P-5)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
3.9	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(IV). Fine Agg. for Concrete		MoRT&H Table -900-6															
4.1	Gradation	IS : 383	1 Test / Every day's work	237	237	0	30	30	0	267	267	0	11	11	0.0	36.67	
4.2	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.0	0.00	
4.3	Water Absorption	IS : 2720 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.0	0.00	
4.4	Silt Content	IS : 383	1 Test / Weekly	27	27	0	5	5	0	32	32	0	1	1	0.0	20.00	
4.5	Moisture correction	IS : 2386 (P-3)	1 Test / Every day's work	237	37	0	30	30	0	267	67	0	10	10	0.0	33.33	

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)

(V). Concrete Cube's Compressive Strength Test		IS: 516															
➤ Grade of Concrete : M-10 PCC																	
5.1	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	39	39	0	30	30	0	69	69	0	0	0	0	0.00	
5.2	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	80	80	0	23	23	0	103	103	0	0	0	0	0.00	
➤ Grade of Concrete : M-15 PCC																	
5.3	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	34	34	0	11	11	0	45	45	0	0	0	0	0.00	
5.4	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	43	43	0	19	19	0	62	62	0	3	3	0	15.79	
➤ Grade of Concrete : M-20 PCC																	
5.5	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	
5.6	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																	
5.7	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	
5.8	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																	
5.9	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	
5.10	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																	
5.11	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	36	36	0	33	33	0	69	69	0	7	7	0	21.21	
5.12	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	42	42	0	73	73	0	115	115	0	20	20	0	27.40	
➤ Grade of Concrete : M-30 RCC																	
5.13	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	203	203	0	56	56	0	259	259	0	15	15	0	26.79	
5.14	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	482	482	0	109	109	0	591	591	0	60	60	0	55.05	
➤ Grade of Concrete : M-35 RCC																	
5.15	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	73	73	0	10	10	0	83	83	0	3	3	0	30.00	
5.16	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	191	191	0	11	11	0	202	202	0	30	30	0	272.73	
➤ Grade of Concrete : M-35 Pile																	
5.17	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	
5.18	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																	
5.19	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	105	105	0	22	22	0	127	127	0	5	5	0	22.73	
5.20	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	272	272	0	67	67	0	339	339	0	30	30	0	44.78	
➤ Grade of Concrete : M-40 RCC																	
5.21	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	61	61	0	20	20	0	81	81	0	5	5	0	25.00	
5.22	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	120	120	0	98	98	0	218	218	0	40	40	0	40.82	
➤ Grade of Concrete : M-45 RCC/PSC																	
5.23	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	
5.24	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	
➤ Grade of Concrete : M-50 RCC/PSC																	
5.25	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	
5.26	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																	
5.27	for 7 days	IS : 516	As per Frequency MoRT&H	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
5.28	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																	
6.1	Fineness of Cement	IS : 4031 (P-1)	1 Test Every Batch of Cement	43	43	0	5	5	0	48	48	0	3	3	0	60.00	
6.2	Normal Consistency	IS : 4031 (P-4)	1 Test Every Batch of Cement	43	43	0	5	5	0	48	48	0	3	3	0	60.00	
6.3	Initial Setting Time	IS : 4031 (P-5)	1 Test Every Batch of Cement	43	43	0	5	5	0	48	48	0	3	3	0	60.00	
6.4	Final Setting time	IS : 4031 (P-5)	1 Test Every Batch of Cement	43	43	0	5	5	0	48	48	0	3	3	0	60.00	
6.5	Compressive Strength (03 Days)	IS : 516	1 Test Every Batch of Cement	43	43	0	7	7	0	50	50	0	4	4	0	57.14	
6.6	Compressive Strength (07 Days)	IS : 516	1 Test Every Batch of Cement	46	46	0	7	7	0	53	53	0	4	4	0	57.14	
6.7	Compressive Strength (28 Days)	IS : 516	1 Test Every Batch of Cement	40	40	0	9	9	0	49	49	0	5	5	0	55.56	
6.8	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	
6.9	Specific Gravity	IS : 4031 (P-11)	1 Test Every Batch of Cement	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
(VII). Granular Sub-Base (GSB)		MoRT&H Clause - 401															
7.1	Gradation	Table 400-2	1 Test /400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
7.2	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	
7.3	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	
7.4	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	
7.5	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	
7.6	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	
7.7	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	
7.8	Aggregate Impact Value (AIV)	IS : 2386 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
7.9	Field Compaction Test (GSR)	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	

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)

(VIII). Wet Mix Macadam (WMM)			MoRT&H-406																
8.1	Gradation	Table 400-13	1 Test / 200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.2	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	0.00	
8.3	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	0.00	
8.4	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	0.00	
8.5	Combined Flakiness & Elongation (FI & EL)	IS : 2386 (P-1)	1 Test / 500 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.6	Water Absorption	IS : 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.7	Soundness	IS : 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
8.8	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	0.00	
(IX). Dense Bituminous Macadam (DBM)			MoRT&H-500																
9.1	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	0.00	
9.2	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	0.00	
9.3	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	0.00	
9.4	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	0.00	
9.5	Combined Flakiness & Elongation (FI & EL)	IS : 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.6	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	0.00	
9.7	Stripping Value	IS : 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.8	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	0.00	
9.9	Density of compacted layer	MoRT&H Sec.900	1 Test / 700 Sqm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.10	Soundness	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
9.11	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	0.00	
9.12	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	0.00	
9.13	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	0.00	
9.14	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	0.00	
(X). Bituminous Concrete (BC)			MoRTH-500																
10.1	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	0.00	
10.2	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	0.00	
10.3	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	0.00	
10.4	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	0.00	
10.5	Combined Flakiness & Elongation (FI & EL)	IS : 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.6	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	0.00	
10.7	Stripping Value	IS : 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.8	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	0.00	
10.9	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	0.00	
10.10	Soundness	IS : 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
10.11	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	0.00	
10.12	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	0.00	
10.13	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	0.00	
10.14	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	0.00	
(XI). Bitumen (VG-40)																			
11.1	Softening Point(°C)	IS : 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.2	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	0.00	
11.3	Ductility at 25°C	IS : 1208	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
11.4	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	0.00	
11.5	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	0	
11.6	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	0.00	
11.7	Flash Point	IS : 1209 (IS: 1448 P-69)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11.8	Solubility Test	IS : 1216	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(XII). MODIFIED BITUMEN (PMB 76E-10)																			
12.1	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	0.00	
12.2	Softening Point (°C)	IS : 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
12.3	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	0.00	
12.4	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	0.00	
(XIII). Emulsion (SS-1)																			
13.1	Viscosity @ 25°C	IS : 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13.2	Water Content	IS : 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13.3	Prime coat	IS : 8887:2004	3 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(XIV). Emulsion (RS-1)																			
14.1	Viscosity @ 50°C	IS : 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14.2	Water Content	IS : 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14.3	Tack Coat	IS : 8887:2004	3 test / Day	0	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)																
(XV). Coarse Aggregates																
15.1	Gradation	IS : 2386 (P-1)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.2	Fl & El	IS : 2386 (P-1)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.3	Aggregate Impact Value	IS : 2386 (P-4)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.4	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.5	Water Absorption	IS : 2386 (P-3)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.6	Deleterious Content	IS : 2386 (P-1)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.7	L.A.V.	IS : 2386 (P-4)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.8	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.9	Soundness	IS : 2386(P-5)	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
15.10	Petrographic Examination	IS : 2386 (P-8)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
15.11	Stone Polished Value	BS-812 (P-114)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0	0.00
(XVI). Fine Aggregates																
16.1	Gradation	IS : 383	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.2	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.3	Water Absorption	IS : 2386 (P-3)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.4	Deleterious Content	IS : 2386 (P-1)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.5	Silt Content	IS : 2386 (P-4)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.6	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.7	Soundness	IS : 2386(P-5)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.8	Organic Impurities	IS : 2386 (P-8)	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
16.9	Fineness Modulus	IS : 383	1 Test / Source	3	3	0	1	1	0	4	4	0	0	0	0	0.00
(XVII). TMT Bar's (Steel)																
17.1	Physical properties	IS : 1786	~ 10mm - 1 sample/25 MT, 10-16mm-1sample/35 MT,	11	11	0	0	0	0	11	11	0	0	0	0	0.00
17.2	Chemical properties	IS : 1786	> 16mm - 1 sample/45 MT	11	11	0	0	0	0	11	11	0	0	0	0	0.00
(XVIII). Construction Water																
18.1	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
(XXIX). Chemical Admixture																
19.1	Physical & Chemical properties	IS : 9103	1 Test/ Per Lot	1	1	0	0	0	0	1	1	0	0	0	0	0.00
(XX). Cement (OPC-53 Grade)																
20.1	Physical & Chemical properties	IS : 8112	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0	0.00
(XXI). Soil - Borrow Area																
21.1	Mechanical	IS : 2720 (P-39)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXII). NP-4 Hume Pipe Test																
22.1	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
(XXIII). Bitumen (Emulsion)																
23.1	Bitumen Emulsion SS-1	IS : 8887	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
23.2	Bitumen Emulsion RS-1	IS : 8887	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXIV). Bitumen (VG-40)																
24.1	Bitumen VG-40	IS : 73	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXV). Bitumen (PMB)																
25.1	Bitumen PMB	IS : 15462-2019	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVI). Curing Compound																
26.1	Physical & Chemical properties	ASTM C309	1 Test/ Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVII). Soil																
26.1	Direct Shear Test	ASTM C309	As per Source 1 Test/ As Required	3	3	0	0	0	0	3	3	0	0	0	0	0.00
26.2	SBC Test (by PLT)	IS : 1888-2021	As per Source 1 Test/ As Required	5	5	0	4	4	0	9	9	0	0	0	0	0.00
Remarks:																

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)

**CHAPTER-11
CORRESPONDENCE**

11.1 Outward Letter

Sr.no.	Letter no.	Date	Subject	To
1	MKCIL/ASSAM/PKG-06/535	01.11.2025	Regarding Unseasonal Rain fall in the Month of October 2025.	TL (AIPPL)
2	MKCIL/ASSAM/PKG-06/540	03.11.2025	Notification of Force Majeure event under clause 28.5 of Concession Agreement.	TL (AIPPL)
3	MKCIL/ASSAM/PKG-06/543	04.11.2025	Reg. Slow Progress of work.	TL (AIPPL)
4	MKCIL/ASSAM/PKG-06/544	04.11.2025	Submission of Monthly Progress Report for the month of October-2025.	TL (AIPPL)
5	MKCIL/ASSAM/PKG-06/545	04.11.2025	Regarding submission of Forest royalty challan and statutory permission and compliance.	TL (AIPPL)
6	MKCIL/ASSAM/PKG-06/547	05.11.2025	Maintenance and repairing of existing highways.	TL (AIPPL)
7	MKCIL/ASSAM/PKG-06/549	07.11.2025	Regarding Submission of Pipe Culvert Drawing at Ch. 97+271 & 97+381.	TL (AIPPL)
8	MKCIL/ASSAM/PKG-06/550	07.11.2025	"Proposal of Retaining wall under Article 16-To issue the Change of Scope Notice."	TL (AIPPL)
9	MKCIL/ASSAM/PKG-06/553	10.11.2025	Regarding Submission of Profile and Credentials JK Company for Approval – Procurement of Pre-Stressing Components.	TL (AIPPL)
10	MKCIL/ASSAM/PKG-06/554	10.11.2025	Submission of third-party Petrography test report of aggregate 20mm for Source Approval for Meghalaya Quarry.	TL (AIPPL)
11	MKCIL/ASSAM/PKG-06/555	10.11.2025	Regarding Submission of Revised Design & Drawing for Box Culvert at Ch. 93+355 & 101+833.	TL (AIPPL)
12	MKCIL/ASSAM/PKG-06/557	12.11.2025	Submission of Extended Performance Security in the form of Surety Bond.	GM (NHIDCL)
13	MKCIL/ASSAM/PKG-06/558	12.11.2025	Regarding Submission of Profile and Credentials Hexatron Industry Limited for Approval – Chemical Admixture.	TL (AIPPL)
14	MKCIL/ASSAM/PKG-06/559	12.11.2025	Regarding Submission of Profile and Credentials Mageba Bridge Products Private Limited for Approval – Bridge Bearing and Expansion Joint Sheets.	TL (AIPPL)
15	MKCIL/ASSAM/PKG-06/560	12.11.2025	Regarding Submission of Profile and Credentials Maurer Sanfield (India) Limited for Approval – Bridge Bearing and Expansion Joint Sheets".	TL (AIPPL)
16	MKCIL/ASSAM/PKG-06/561	12.11.2025	Notification about the resistance offered by the local residents to the construction activity.	TL (AIPPL)
17	MKCIL/ASSAM/PKG-06/562	13.11.2025	Submission of Extended Performance Security in the form of Surety Bond.	E.D Director
18	MKCIL/ASSAM/PKG-06/563	14.11.2025	"Regarding Submission of Profile and Credentials for Approval – Re-Bar Coupler."	TL (AIPPL)

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)

19	MKCIL/ASSAM/PKG-06/564	14.11.2025	"Regarding Submission of Profile and Credentials for Approval – JK-Expansion Joint Sheet."	TL (AIPPL)
20	MKCIL/ASSAM/PKG-06/568	17.11.2025	Request for Release of Payment – Payment Milestone-02.	TL (AIPPL)
21	MKCIL/ASSAM/PKG-06/571	18.11.2025	Regarding Submission of Revised Design & Drawing for Box Culvert at Ch. 92+862, 99+696, 103+662 & 105+088 (1x3x3).	TL (AIPPL)
22	MKCIL/ASSAM/PKG-06/574	21.11.2025	Submission of Revised Work Program and S-Curve.	TL (AIPPL)
23	MKCIL/ASSAM/PKG-06/576	22.11.2025	Reg. Submission of Fine Aggregate Samples for Conducting Third Party Test.	Managing Director (Avian Test Lab)
24	MKCIL/ASSAM/PKG-06/579	24.11.2025	Regarding Submission of Concrete Mix design.	TL (AIPPL)
25	MKCIL/ASSAM/PKG-06/580	24.11.2025	"Regarding Submission of Profile and Credentials for Approval – Chemical Admixture."	TL (AIPPL)
26	MKCIL/ASSAM/PKG-06/581	24.11.2025	Submission of Detailed Cost Estimate along with design and drawing of AUP under Article 16 (COS).	GM (NHIDCL)
27	MKCIL/ASSAM/PKG-06/584	27.11.2025	Regarding Curing arrangement of Structure Work at Site.	TL (AIPPL)
28	MKCIL/ASSAM/PKG-06/585	27.11.2025	Regarding Compliance for the Observation of Regional Office, Guwahati on Pavement Design Report.	TL (AIPPL)
29	MKCIL/ASSAM/PKG-06/588	28.11.2025	Regarding submission of drone videography.	TL (AIPPL)
30	MKCIL/ASSAM/PKG-06/589	28.11.2025	"Delay in Providing Right of Way & Forest Clearance for works permission to the Concessionaire in Respect of All Land."	TL (AIPPL)
31	MKCIL/ASSAM/PKG-06/590	28.11.2025	Regarding Failure of Existing Box Culvert and Proposal for COS.	TL (AIPPL)
32	MKCIL/ASSAM/PKG-06/591	28.11.2025	Regarding Submission of Revised Design and Drawing for MNB at Ch. 95+595 (1x20)	TL (AIPPL)

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11.2. Inward Letter AIPPL and NHIDCL

Sr. No.	Letter no.	Date	Subject	From
1.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/182	01.11.2025	Regarding Submission of Profile and Credentials for Approval - Procurement of Prestressing Components.	AIPPL-AYOLEEZA (IV)
2.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/183	03.11.2025	Notice for proper maintenance of existing highways - Reg.	AIPPL-AYOLEEZA (IV)
3.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/184	03.11.2025	Regarding submission of Design and Drawings (D&D) & source Approvals-Reg.	AIPPL-AYOLEEZA (IV)
4.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/185	03.11.2025	Regarding submission of Design and Drawings (D&D) & source Approvals-Reg.	AIPPL-AYOLEEZA (IV)
5.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/186	06.11.2025	Regarding Monthly Progress Report for the Month of October 2025.	AIPPL-AYOLEEZA (IV)
6.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/187	06.11.2025	Review & Comments of Independent Engineer Regarding Submission of Monthly Progress Report for the month of October 2025.	AIPPL-AYOLEEZA (IV)
7.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/188	08.11.2025	Finalization of Additional New Culverts as per Schedule B of Concession Agreement.	AIPPL-AYOLEEZA (IV)
8.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/189	08.11.2025	Construction of Toe Wall (0.60 m Height) as per schedule B of Concession Agreement.	AIPPL-AYOLEEZA (IV)
9.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/191	17.11.2025	Submission of Weekly Progress Report.	AIPPL-AYOLEEZA (IV)
10.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/192	17.11.2025	Return of Payment Milestone -II. Reg.	AIPPL-AYOLEEZA (IV)
11.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/193	18.11.2025	Return of Payment Milestone -II. Reg.	AIPPL-AYOLEEZA (IV)
12.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/195	18.11.2025	Regarding submission of profile & credentials for Approval of chemical Admixture.	AIPPL-AYOLEEZA (IV)
13.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/196	18.11.2025	Regarding submission of profile & credentials for Approval - Bridge bearing and Expansion joint sheets.	AIPPL-AYOLEEZA (IV)
14.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/197	18.11.2025	Regarding submission of Profile & Credentials for Approval – Bridge Bearing and Expansion Joint Sheets.	AIPPL-AYOLEEZA (IV)
15.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/198	18.11.2025	Submission of chainage-wise details of Level Difference, Cutting & Filling Quantity of Approved and to-be-Approved Plan & Profile, and Verification of FRL-Reg.	AIPPL-AYOLEEZA (IV)
16.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/200	20.11.2025	Submission of Clarifications/Compliance on Observations Raised by RO-Guwahati Regarding Proposed Pavement Design - Reg.	AIPPL-AYOLEEZA (IV)
17.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/201	20.11.2025	Regarding submission of profile & credentials for Approval for Procurement of Pre-Stressing Components, Re-bar Coupler & Expansion Joint Sheet.	AIPPL-AYOLEEZA (IV)
18.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/202	20.11.2025	Submission of Third-Party Petrography Test Report of Aggregate 20mm for Source Approval for Meghalaya Quarry" (Lumshnong).	AIPPL-AYOLEEZA (IV)

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19.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/203	21.11.2025	Regarding submission of Revised design & Drawings approval for Box Culvert at Ch 93+555&101+833/, Ch 92+862, Ch 99+696, Ch 103+662, & Ch 105+088(1x3x3).	AIPPL-AYOLEEZA (IV)
20.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/204	21.11.2025	Sub: Delay in Achievement of Project Milestone-I as per Concession Agreement.	AIPPL-AYOLEEZA (IV)
21.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/205	22.11.2025	Submission of Weekly Progress Report.	AIPPL-AYOLEEZA (IV)
22.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/206	24.11.2025	Regarding Curing Arrangement of Structure Works at Site.	AIPPL-AYOLEEZA (IV)
23.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/207	25.11.2025	COS Notice for Change of Service Road Composition-Reg.	AIPPL-AYOLEEZA (IV)
24.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/208	25.11.2025	Regarding repairing of Damaged PHE water pipelines and ensuring protection at utilities during execution-Reg.	AIPPL-AYOLEEZA (IV)
25.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/209	25.11.2025	Submission of Manufacturer's Source Approval for RCC Hume Pipes.	AIPPL-AYOLEEZA (IV)
26.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/210	27.11.2025	Regarding Submission of Pipe Culvert Drawings at Ch. 97+271 & Ch. 97+381.	AIPPL-AYOLEEZA (IV)
27.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/211	27.11.2025	Submission of Bar Bending Schedule for approval Reg.	AIPPL-AYOLEEZA (IV)
28.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/212	27.11.2025	Provisional Approval of the Revised Work Program and Mandatory Assurance of Manpower, Machinery, and Material Mobilization.	AIPPL-AYOLEEZA (IV)
29.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/213	27.11.2025	Submission of Quarterly Videography as per Contractual Provisions - Reg.	AIPPL-AYOLEEZA (IV)
30.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/215	28.11.2025	Regarding Submission of Profile & Credential for Approval -Chemical Admixture.	AIPPL-AYOLEEZA (IV)
31.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/216	28.11.2025	Provisional Approval of Concrete Mix Design for Grade M50 using Dalmia Cement.	AIPPL-AYOLEEZA (IV)
32.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/218	01.12.2025	Technical Observations on COS Detailed Cost Estimate Submitted for AUP at Ch.104+450-Request for Revised Submission.	AIPPL-AYOLEEZA (IV)
33.	AIPPL-AYOLEEZA/IE/NHIDCL/Karimganj/PKG-06/219	02.12.2025	Submission of Repair & Rehabilitation Proposal for Existing Box Culvert at Ch. Km 101+061 as per Provisions of Concession Agreement.	AIPPL-AYOLEEZA (IV)

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)

CHAPTER-12

Force Majeures

12.1 Force Majeures- Due to certain non-political event the overall progress of the Project is being obstructed, the details of indirect political event are as mentioned in terms of correspondence below.

SN	Letter no.	Date	Subject	To
1	MKCIL/ASSAM/PKG-06/540	03.11.2025	Notification of Force Majeure event under clause 28.5 of Concession Agreement.	TL (AIPPL)

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)

CHAPTER-13

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)**

**CHAPTER-14
WEATHER REPORT**

Sl no.	Date	Temperature (In °c)		Humidity (In %)		Rainfall (mm)	Weather Condition
		Minimum	Maximum	Minimum	Maximum		
1	01-11-2025	27.2	30.4	76.0	88.0	0.0	Sunny
2	02-11-2025	26.9	29.8	75.0	90.0	20.6	Cloudy/Rainy
3	03-11-2025	26.5	30.0	79.0	89.0	0.0	Sunny
4	04-11-2025	26.3	28.5	81.0	88.0	31.2	Cloudy/Rainy
5	05-11-2025	26.2	28.4	82.0	89.0	35.4	Cloudy/Rainy
6	06-11-2025	26.8	29.2	80.0	87.0	0.0	Sunny
7	07-11-2025	26.9	30.4	79.0	89.0	0.0	Sunny
8	08-11-2025	26	31.2	80.0	88.0	0.0	Sunny
9	09-11-2025	27.2	30.8	78.0	90.0	0.0	Sunny
10	10-11-2025	26.8	31.0	77.0	88.0	0.0	Sunny
11	11-11-2025	26.6	30.9	79.0	87.0	0.0	Sunny
12	12-11-2025	27.8	30.6	78.0	90.0	0.0	Sunny
13	13-11-2025	26.2	28.4	74.0	85.0	0.0	Sunny
14	14-11-2025	25.9	29.2	73.0	79.0	0.0	Sunny
15	15-11-2025	24.7	28.1	72.0	78.0	0.0	Sunny
16	16-11-2025	26.6	29.8	76.0	84.0	0.0	Sunny
17	17-11-2025	24.9	27.6	74.0	81.0	0.0	Sunny
18	18-11-2025	23.7	26.8	70.0	80.0	0.0	Sunny
19	19-11-2025	24.9	27.1	75.0	81.0	0.0	Sunny
20	20-11-2025	25.1	27.2	71.0	77.0	0.0	Sunny
21	21-11-2025	24.8	26.9	72.0	79.0	0.0	Sunny
22	22-11-2025	26.5	28.7	70.0	81.0	0.0	Sunny
23	23-11-2025	27.6	28.9	72.0	79.0	0.0	Sunny
24	24-11-2025	24.3	26.4	70.0	78.0	0.0	Sunny
25	25-11-2025	24.2	26.1	71.0	76.0	0.0	Sunny
26	26-11-2025	23.5	28.8	70.0	76.0	0.0	Sunny
27	27-11-2025	23.9	25.1	71.0	79.0	0.0	Sunny
28	28-11-2025	23.4	25.8	70.0	78.0	0.0	Sunny
29	29-11-2025	23.1	24.9	69.0	79.0	0.0	Sunny
30	30-11-2025	23.8	25.6	80.0	88.0	0.0	Sunny

Rainfall Data					
SN	Description	Total Rainfall(mm)	Up to previous month(mm)	This month(mm)	Remark
1	Rainfall	4429.9	4342.7	87.2	

The maximum & minimum weather records are summarized below:

TEMPERATURE/ RAINFALL PERIOD: 1 st November, 2025 to 30 th , 2025				
Temperature		Rainfall		
Maximum (in ° C)	Minimum (in ° C)	Maximum (in mm)	Minimum (in mm)	Total Days
31.2	23.1	35.4	20.6	03

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)

CHAPTER-15
ACCIDENT REPORT

NIL

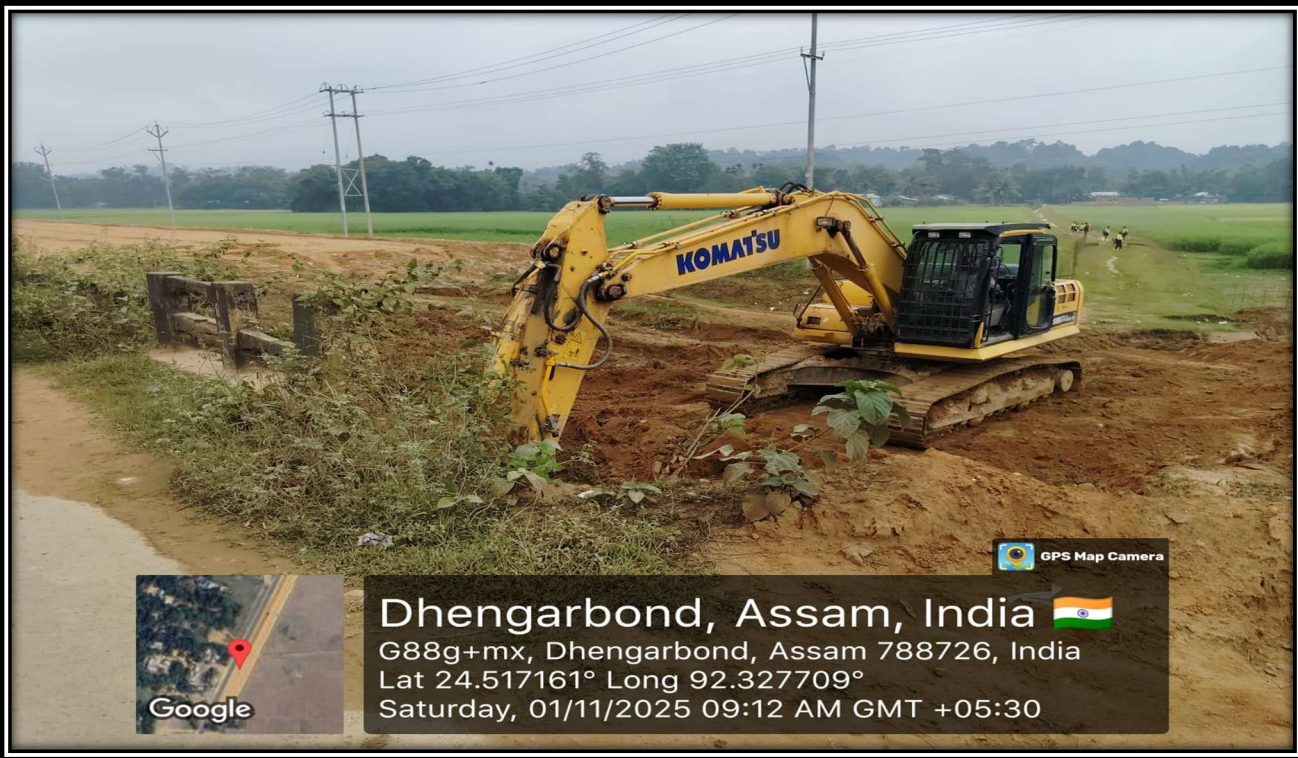
CHAPTER-16

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.

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)

CHAPTER-17

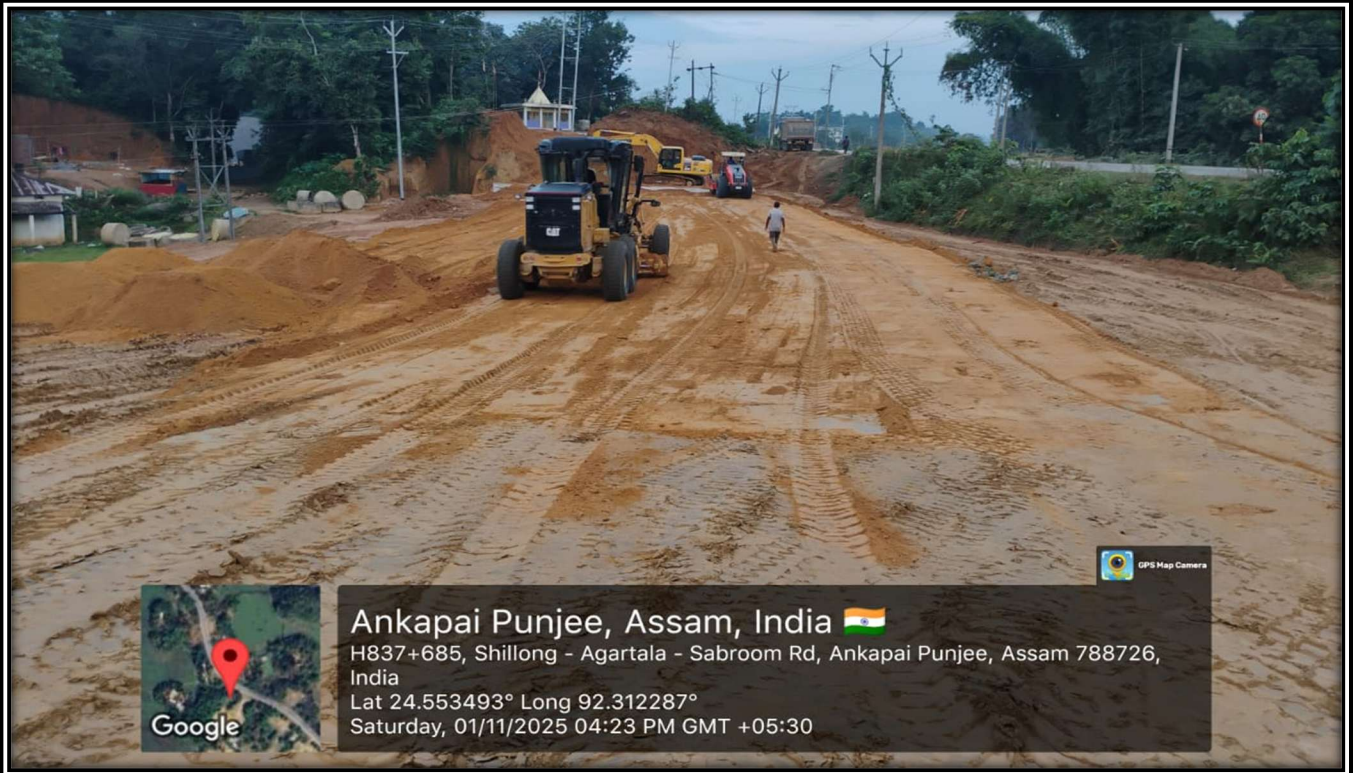


Excavation work at chainage-93+355(Box-culvert)



Concrete pouring work at chainage-97+200 (RCC line drain)

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)



Embankment preparation work at chainage-88+580 (LHS)



Reinforcement Placing work at chainage-97+000(VUP)

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)



Excavation work for Toe wall at chainage-98+370 (RHS)



Reinforcement Placing work at chainage-98+300 (Toe wall)

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)



Concrete Pouring work at chainage-90+543(MNB wall)



Existing road maintenance work at chainage 89+600

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)



FSCB casting work in Progress at Ch.- 95+350



FDD checking of subgrade at chainage-88+500 (BHS)

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)



Utility shifting work at chainage-94+200



Subgrade rectification work at chainage-101+500(RHS)

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)



Soil filling work at chainage for 100+400 (PVD work.)



Diversion preparation work at chainage-101+380 (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)



Barricading work at chainage-94+814



Excavation work atch-96+951 (Box-culvert)