




4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

Monthly Progress Report

April - 2026



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

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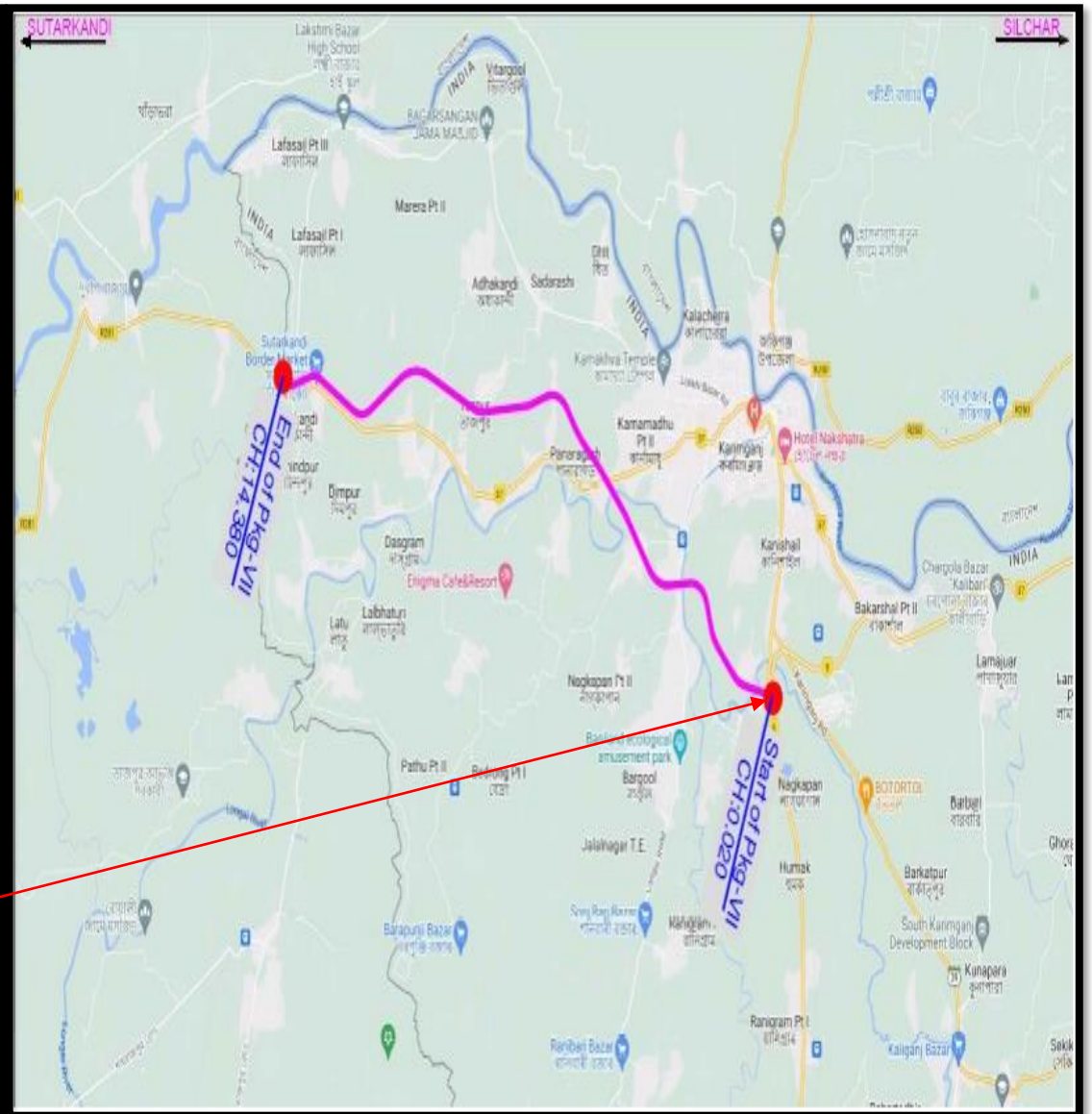
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PROJECT LOCATION MAP / INDEX MAP



4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

EXECUTIVE SUMMARY

The Concessionaire has signed the Concession Agreement with National Highway Infrastructure Development Corporation Limited (NHIDCL) on dated September 17, 2024. This Executive Summary presents the works progress of the Project Highway during the construction period from February 28, 2025 to February 27, 2027.

1. The Project Road:

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2. Mobilization:

The Concessionaire has mobilized the required Engineers/ Staff Personnel, Machineries/Equipment's, Plants and established main Base Camp at CH: - 5+600 LHS (Darakona).

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

3. Pre-Construction Activity:

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

4. EPC Contractor:

MKC Infrastructure Limited the details of project highway works have been included in Chapter-09 of this report.

5. Design and Drawing

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

7. Work Program:

At the time of commencement of works, the Concessionaire submitted the Stage wise completion schedule Work Program Vide Letter No. MKCIL/ASSAM/PKG-07/162, dated 17.04.2025 for Authority/IE's approval. Based on the monthly works plan, the works is being carried out by the Concessionaire.

8. Quality Control and Material:

The works is being carried out by the Concessionaire as per Quality Assurance Plan submitted to Authority Vide Letter MKCIL/ASSAM/PKG-07/139 on dated 07.04.2025. Each construction activity is being checked/verified as per the RFI's submitted to Authority/ IE by the Concessionaire.

9. Supervision and Monitoring of Project works:

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

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10. Site Visit and Meeting:

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

11. Schedule Completion Date:

As per Schedule-G of the Concession Agreement shall occur on the 730th day from the Appointed Date. The declared Appointed Date being February 28, 2025, the Scheduled completion Date shall occur on February 27, 2027.

12. Operation and Maintenance (O&M):

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

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

Procurement of ROW- The existing ROW and the stretches of 14.360 km. are subjected to following:

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

Stretches/ Hindered Free Land				Encumbrances/ Hindered Land		
Sr. No.	Side	Length (Km)	%	Side	Length (Km)	%
1.	BHS	12.200	90.20%	BHS	2.180	10.80%

b) Hindered due to Tree Cutting:

Description	Total Nos.	Cutting Tree	Balance	Impacted Length (km)	Remarks
Total Trees	407	256	151	1.0	

c) Encumbrances due to Religious Structure:

Sr. No.	Types	Chainage	Side	Status	Remarks
1.	Temple	4+150	LHS	Shifting in Progress	
2.	Masjid	4+500	BHS		Delay by CALA

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d) Details of Hidered Land:

DETAILS OF ENCUMBRANCES WITHIN ROW							
Sr. No	Chainage		Side	Total Length (KM)	Description	Work Affected	Remarks
	From	To					
1	0+250	0+350	BHS	100.00	Brick Industry	Earth Work	
2	2+700	2+850	BHS	150.00	Residential Houses	RE Wall	
3	3+650	3+700	BHS	50.00	Residential Houses	Earth work	
4	3+900	3+980	BHS	80.00	Assam Type House & Shade	Earth Work	
4	4+080	4+180	LHS	100.00	Assam Type House& Temple	Earth Work	
5	4+200	4+300	BHS	100.00	Assam Type House	Earth Work	
5	4+420	4+550	RHS	130.00	Masjid & Kabristan	Earth Work	
6	4+650	4+700	RHS	50.00	Assam Type House	Earth Work	
6	5+400	5+450	BHS	50.00	Assam Type House	Earth Work	
7	5+450	5+480	BHS	30.00	Assam Type residential houses	Earth work	
7	5+550	5+650	BHS	100.00	Assam Type residential houses	VUP	
8	6+600	6+650	BHS	50.00	RCC & Assam Type Houses	Box-culvert	
8	7+250	7+300	BHS	50.00	Assam/RCC Type Houses & Kabristan	Box-culvert	
9	9+280	9+400	BHS	120.00	Assam Type residential houses	Toe Wall and earth work	
9	10+900	10+950	BHS	50.00	Assam Type residential houses	Earth work	
10	11+250	11+400	BHS	150.00	Assam Type residential houses	Earth Work	
10	12+250	12+450	BHS	200.00	Assam Type residential houses	Earth Work	
11	12+590	12+620	BHS	30.00	Assam Type residential houses	Earth Work	
11	12+800	12+900	BHS	100.00	Assam Type residential houses	Earth Work	
12	13+100	13+200	RHS	100.00	Assam Type residential houses	Earth Work	
12	13+400	13+500	BHS	100.00	Assam Type residential houses	Earth Work	
13	13+650	13+680	LHS	30.00	Assam Type residential houses	Earth Work	
13	13+800	13+900	BHS	100.00	Assam Type residential houses	Earth Work	
14	13+950	14+050	LHS	100.00	LPAI Boundary wall and Gate	Earth Work	
14	14+150	14+200	BHS	50.00	ICP-BSF Gate	Minor Bridge	
15	14+240	14+250	RHS	10.00	ICP-BSF Vehicles Scanning Machine	Earth Work	
Total Hindered Length				2180.00			

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b) Approval of Material Source:- Approval from the Independent Engineer is still pending for the proposed material sources, and admixtures (refer the Concessionaire's Chapter no. 10 & Table no 10.3.4)

c) Existing Road Maintenance: One time tender floating decision for maintenance of the existing road is pending by the end of the Authority.

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

d) Non-Permission from PWD Authorities: - The Concessionaire has submitted its concern regarding the permission for using the PWD rural roads for carrying of forest materials under Bharat Mala Project vide letter no. MKCIL/ASSAM/PKG-07/176 dated 24.04.2025.

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

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

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

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CHAPTER-1

INTRODUCTION

General

The NHIDCL proposes to implement the development, maintenance, and management of the Spur from NH-8 near Karimganj to Sutarkandi (India-Bangladesh border) Km. 0.020 to Km. 14.380 into 4-lane access controlled corridor. The proposed project road has been selected to improve connectivity and reduce travel time from Assam to Tripura. Also, this connectivity will improve international road connectivity between India and Bangladesh. To achieve the above task, NHIDCL has appointed M/s. Aarvee Associates Architects Engineers and Consultants Pvt. Ltd. The Letter of Awarded was communicated vide letter No. NHIDCL / Assam / DPR / Silchar-Churaibari /222542/2581 and the agreement was signed on September 1st, 2023.

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

Project Overview

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

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CHAPTER-2

CONTRACT DATA

Sr. No.	Items	Description
1.	Name of Project	4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.
2.	Project Length	14.360 km
3.	Project Bid Cost	380.26 Cr.
4.	Authority	National Highways & Infrastructure Development Corporation Limited
5.	Independent Engineer	M/s Technocrats Advisory Services Private Limited in association with M/s MAV Associates LLP
6.	Concessionaire	MKC Badarpur Churaibari Kamakhya (PKG-7) Highways Private Limited
7.	Design Consultant	Geo Designs & Research Pvt. Ltd.
8.	DPR Consultant	Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
9.	LOA No. & Date	NHIDCL/ Assam/ NH-37/ Sil-Churai/ Pkg-VII/ 233357/ 3087 dated 11.03.2024
10.	Date of Concession Agreement	September 17, 2024
11.	Appointed Date	February 28, 2025
12.	Construction Period	730 days (from Appointed Date) [24-Months]
13.	Schedule Completion Date	February 27, 2027
14.	O&M Period	15 Years from the date of COD

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15.	Project Milestone	
	Milestone- I (Achieved on 15.01.2026)	<p>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 11, 2025)-</p> <p>(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)</p>
	Milestone- II (Achieved on 21.04.2026)	<p>438th Day from Appointed Date (i.e., May 12, 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.).</p>
	Milestone- III	<p>620th Day from Appointed Date (i.e., November 10, 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).</p>
	Scheduled Completion Date	<p>730th Day from Appointed Date (i.e., February 27, 2027)</p> <p>The concessionaire shall have completed the Project in accordance with the Concession Agreement.</p>

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CHAPTER -3

SALIENT FEATURES OF PROJECT HIGHWAY

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

Section	Design Chainage		Stretch in Km.	Pavement Composition in mm.						
	From	To		Sub-Grade	R-GSB	R-WMM	DBM	BC	DLC	PQC
MCW	00+020	12+900	12.880	500.00	200.00	190.00	50.00	30.00	-	-
	12+900	14+380	1.480	500.00	150.00	-	-	-	150.00	180.00
				Sub-Grade	GSB	R-WMM	BC	-		
Service Road				500.00	200.00	185.00	30.00	-		

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

Sr. No.	Description	Unit	As per CA	Remarks	
1.	Railway over Bridge	New Construction	Nos.	1	
2.	Major Bridge	New Construction	Nos.	3	
3.	Minor Bridge	New Construction	Nos.	7	
		Reconstruction	Nos.	1	
4.	VUP	New Construction	Nos.	2	
5.	LVUP	New Construction	Nos.	9	
6.	SVUP	New Construction	Nos.	1	
7.	Box Underpass	New Construction	Nos.	4	
8.	Box Culvert	New Construction	Nos.	28	
		Reconstruction	Nos.	4	
		Additional	Nos.	20	
9.	Pipe Culvert	Additional	Nos.	20	
10.	Bus Bay		Nos.	2	
11.	Major Junction		Nos.	2	
12.	Minor Junction		Nos.	4	
13.	W-beam Single faced metal crash barrier		Rmt.	17602	
14.	Drain (covered)		Rmt.	2960	

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CHAPTER -4

SCOPE OF THE WORKS AND PROJECT FACILITIES

4.1 Scope of Works

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

- Reconstruction of existing 2 lane carriageway to 4 lane divided carriageway including strengthening existing carriageway by providing bituminous overlays in accordance with the Specifications and Standards.
- Construction of 1- ROB, 3- Major Bridge, 8- Minor Bridge, 16- Underpasses, 52- Culverts.
- Construction of Slip Road of 4.16 Km

4.2 Project Facilities

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

- a) 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 centres
- 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 Petrol Unit
- k) Emergency Medical Services
- l) Crane Services

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CHAPTER -5

PRE-CONSTRUCTION ACTIVITIES

5.1 Obligations

Obligations of Authority-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 4.1.2	Condition Precedent	Done	MKCIL/ASSAM/PKG-07/261
2	Article 11	Utilities, Associated Roads and Trees	In Progress	
3	Clause 18.1.2	Safety Consultant	Awaited	
4	Article 21	Appointment of Independent Engineer	Done	Partially Mobilized
5	Clause 10.3	Joint Memorandum	Done	

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	Done	
8		Permission of the State Govt. from drawing water from river/ reservoir	Done	
9			Labour Licence	Done
10	Clause 12.1	Quality Assurance Plan	Submitted	MKCIL/ASSAM/PKG-07/139 dt. 07.04.2025
11		Construction Methodology	Submitted	MKCIL/ASSAM/PKG-07/150 dt. 14.04.2025

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5.2 Shifting of Utilities

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

Sl. No.	Utility/ Hindrance Type	Unit	Nos.	Remarks
1.	HT/LT Lines (including Transformer if any)	Kms	4.36	In progress
2.	HT/ LT crossing	Nos.	8	50% Done
3.	Water Pipelines	Kms	4.65	Done
4.	Water Pipeline Crossing	Nos.	14.00	Done

5.3 Tree Cutting

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

Sr. No.	Description	Total	Remarks
1.	Total Number of Trees	407.00	
2.	Total Felling of Trees	256.00	
3.	Balance Trees	151.00	

5.4 Land Acquisition

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

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**CHAPTER -6
MOBILIZATION**

6.1 Manpower Mobilization of Concessionaire

Sr. No.	Name of Employee	Designation	Department
1	Satish Chandra Pandeya	Sr. GM	HQ
2	Vinay Kumar Pandey	GM (Projects)	Project
3	Gaijianpov Gonmei	Asst. Manager	Accounts
4	Rituraj Gop	Sr. Engineer	Billing/Planning
5	Shubham Kumar	Engineer	Billing/Planning
6	Surajit Samanta	Engineer	Billing/Planning
7	Sambasiva Rao Chilla	Deputy Manager	HR/Admin
8	Sanjeev Kumar Pandey	Executive	HR/Admin
9	Tupidhar Das	Executive	HR/Admin
10	Golu Meena	Supervisor	HR/Admin
11	Vageesh Tripathi	Senior Engineer	Structure
12	Jaydeep Bhattacharya	Sr. Engineer	Structure
13	Brijesh Kumar	Engineer	Structure
14	Souvik Paul	Engineer	Structure
15	Ankit Chaurasiya	Supervisor	Structure
16	Deepak Chahuan	Jr. Engineer	Structure
17	Ratan Thakur	Supervisor	Structure
18	Sandeep Kumar	Supervisor	Structure
19	Alok Kumar Choudhary	Deputy Manager	Highway
20	Tapas Basak	Engineer	Highway
21	Janmejay Kar	Asst. Manager	Highway
22	Vishal Mishra	Asst. Manager	Highway
23	Krishna Singh	Supervisor	Highway
24	Dinesh Kumar	Engineer	Highway
25	Md Mohbub Ahmed	Supervisor	Highway
26	Joga Ram	Supervisor	Highway
27	Amardeep Chaudhary	Supervisor	Highway
28	Pawan Kumar	Jr.Engineer	Highway
29	Shyambabu Singh	Manager	Liaison
30	Sahil	Sr. Executive	Liaison
31	Subrata Dinda	Senior Manager	P&M
32	Amit Bhadauriya	Executive	P&M
33	Indrajit Majumdar	Supervisor	P&M
34	Prabhakar Kumar	Jr. Engineer	P&M
35	Joy Kanoo	Supervisor	P&M
36	Priyesh Kumar Sharma	Supervisor	P&M
37	Alok Kumar Ghadai	Engineer	P&M
38	Ranjit Kumar Prajapati	Exective	P&M
39	Lakshman Shil	Fleet Supervisor	P&M
40	Sachin	Engineer	P&M

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41	Mrityunjay	Engineer	P&M
42	Ravi Shanker Tripathi	Sr. Manager	QA/QC
43	Ankit Kumar	Sr. Engineer	QA/QC
44	Vivek Kumar Singh	Sr.Lab Tec	QA/QC
45	Ram Prakash	Technician	QA/QC
46	Sujay De Sarkar	Engineer	QA/QC
47	Amit Pathak	Technician	QA/QC
48	Deepak Kumar Pandey	Executive	QA/QC
49	Manish Kumar Mandal	Lab tech	QA/QC
50	Shiv Shankhadhar	Lab tech	QA/QC
51	Debabrata Nath	Engineer	QA/QC
52	Abhishek Raj	Lab Asst	QA/QC
53	Pawan Kumar	Safety Asst.	Safety
54	Chandan Kumar Dash	Sr. Manager	Store
55	Tapan Sur	Sr. Manager	Store
56	Neeraj Kumar	Sr. Engineer	Store
57	Pradip Kumar Saha	Sr. Exective	Store
58	Sujeet Kumar	Supervisor	Store
59	Sumanta Datta	Supervisor	Store
60	Milan Samantha	Supervisor	Store
61	Amit Sikarwar	Executive	Store
62	Amit Kumar	Jr. Engineer	Store
63	Abhishek Dwivedi	Jr. Engineer	Store
64	Mohit	Supervisor	Store
65	Jainendra Pratap Singh	Executive	Store
66	Bipin Kumar Mohapatra	Manager	Store
67	Ashis Koley	Deputy Manager	Survey
68	Koushik Routh	Sr. Surveyor	Survey
69	Amit Singh	Surveyor	Survey
70	Koushik Samanta	Surveyor	Survey

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed

S.no	Equipment type	Unit	Qty	Remarks
1	LMV	Nos.	17	
2	TIPPER	Nos.	35	
3	MOBILE CRANE	Nos.	4	
4	SOIL COMPACTOR	Nos.	12	
5	EXCAVATOR	Nos.	09	
6	BACK HOE LOADER	Nos.	05	
7	DIESEL DISPENCER	Nos.	2	
8	TRANSIT MIXER	Nos.	09	
9	TRACTOR	Nos.	2	
10	GRADER	Nos.	3	
11	BABY ROLLER	Nos.	1	
12	HM PLANT	Nos.	1	
13	BATCHING PLANT	Nos.	1	
14	RE BLOCK PLANT	Nos.	1	
15	DG	Nos.	9	
16	TRAILER	Nos.	2	
17	CRUSHER	Nos.	2	
18	WATER TANKER	Nos.	05	
19	LOADER	Nos.	2	
20	BOOM PLACER	Nos	01	

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-8

DESIGN AND DRAWING

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

8.1 Design

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

8.2 Drawings

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

8.3 Status of Approval of Drawings

The status of drawing submission and approval of GAD for road and structure works as on April-30, 2026, is enclosed in this chapter of the report.

Road Works

Description	Total Nos	Submitted	Approved
Plan and Profile	1	1	1
Pavement Design Report (Flexible)	1	1	1
Pavement Design Report (Rigid)	1	1	1
RE Block Drawing	1	1	1
Boundary Wall Drawing	1	1	1
Typical Drain	1	1	0
Friction Slab CB Drawing	1	1	0
Typical Toe Wall	1	1	1
Typical Retaining Wall Flat	1	1	1
Typical Retaining Wall Emk.	1	1	0
RE Wall	4	2	0

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

Structure Works:-

Structure				
Description	Total Nos	Submitted	Approved	Remarks Assam Pkg-07
Box Underpass	4	4	4	
SVUP	1	1	1	
LVUP	9	9	9	
VUP	2	2	2	
MNB	8	8	7	
MJB	3	3	2	
ROB	1	1	1	Approved from Railway.
Box Culvert	32	30	30	20 Addi. Culvert 1x4x3 & 20 Addi. Pipe Culvert 1x1.2m

**4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.**

CHAPTER-9

PROJECT WORK PROGRESS

Project Name :-	Four Laning of Karimganj - Sutarkandi section of NH-37 from Design chainage 0.020 (Assam-Agartala Road NH-8 near Kanisail Pt II) to Km. 14.380 (Sutarkandi, India-Bangladesh Border) in the state of Assam (Package-7)						
Authority Engineer :-	National Highways & Infrastructure Development Corporation Limited						
Independent Engineer :-	M/s Technocrats Advisory Services Pvt. Ltd. in association with M/s MAV Associates LLP						
Concessionaire :-	MKC Badarpur Churaibari Kamakhya (PKG-7) Highways Pvt. Ltd.						
Total Contract Price :-	3,80,26,00,000						
<u>Schedule-G</u>							
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/ Structures (but excluding service roads)	A - Widening and strengthening of existing road						
	(1) Earthwork upto top of Sub-grade	L-Km	3.27	0.46%	1.09	33.35%	0.15%
	(2) Granular work (Sub-base, base, shoulder)						
	(a) GSB	L-Km	3.27	0.43%	1.00	30.59%	0.13%
	(b) WMM	L-Km	0.34	0.03%			
	(3) Shoulders	L-Km	0.34	0.01%			
	(4) Bituminous Work						
	(a) DBM	L-Km	0.34	0.06%			
	(b) BC	L-Km	0.34	0.02%			
	(5) Rigid Pavement						
	Concrete Work	L-Km	2.93	1.55%			
	B- New 4 Lane Realignment/Bypass						
	(1) Earthwork upto top of Sub-grade	L-Km	23.77	26.87%	12.29	51.69%	13.89%
	(2) Granular work (Sub-base, base, shoulder)						
	(a) GSB	L-Km	23.77	4.07%	4.10	17.25%	0.70%
	(b) WMM	L-Km	23.77	2.76%			
	(3) Shoulder	L-Km	23.77	0.67%			
	(4) Bituminous Work						
	(a) DBM	L-Km	23.77	1.78%			
	(b) BC	L-Km	23.77	1.15%			
	C- New Culverts, Minor Bridges, underpasses, overpasses on existing road, realignment, bypasses:						
	1) Culverts	No.	64.00	4.55%	35.00	54.69%	2.49%
	2) Minor Bridge						
a) Foundation	No.	22.00	2.76%	17.00	77.27%	2.13%	
b) Sub-Structure	No.	22.00	1.27%	8.00	36.36%	0.46%	

**4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.**

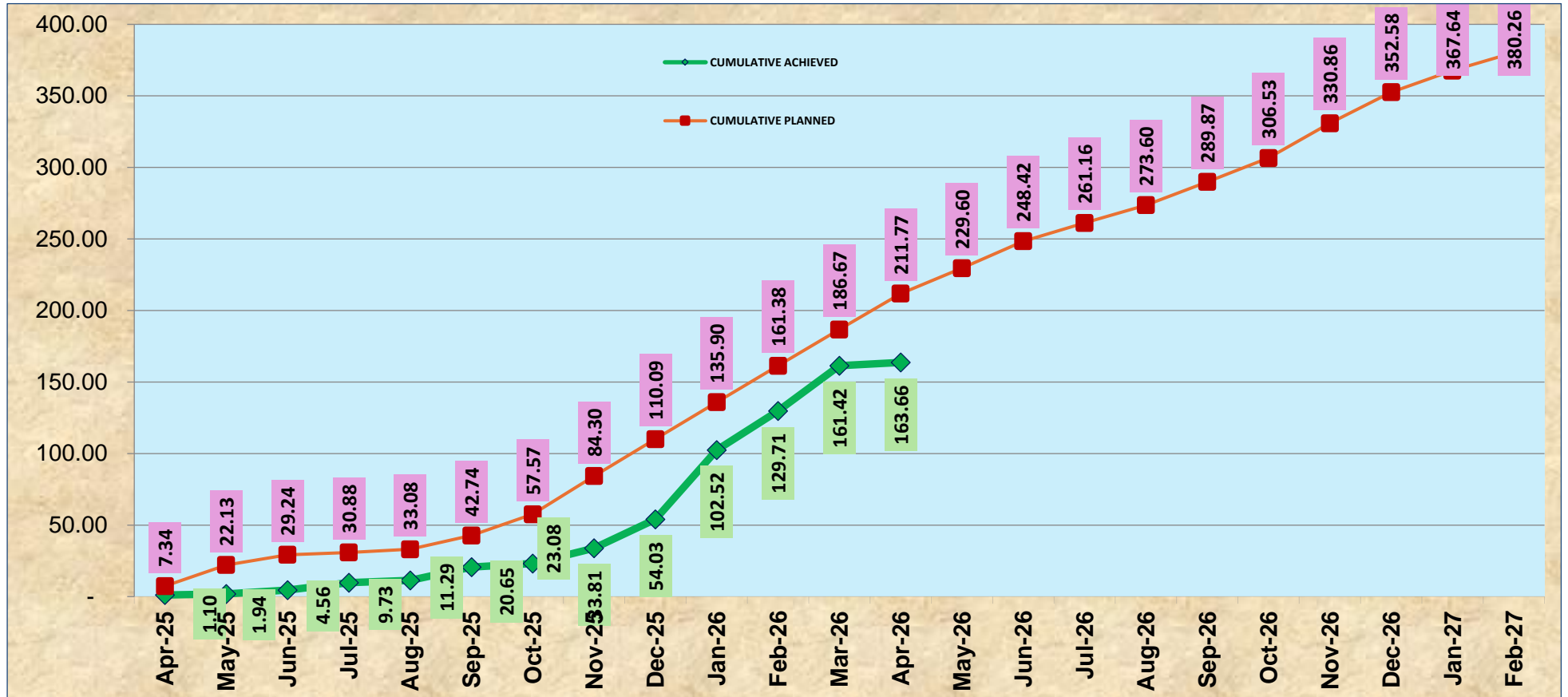
	c) Super-Structure (including Crash Barrier etc. Complete) If pre-cast girders/ segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.						
	c-i) Precast Girder - On Casting (40%)	No.	6.00	0.72%	2.00	33.33%	0.24%
	c-ii) Slab - after Completion of Slab (60%)	No.	16.00	1.07%	4.00	25.00%	0.27%
	5) Grade Separated Structures						
	a) Underpasses (Box Underpass, SVUP, LVUP, VUP)						
	i) Foundation	No.	38.00	5.31%	24.00	63.16%	3.35%
	ii) Sub-Structure	No.	38.00	3.61%	22.00	57.89%	2.09%
	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.						
	- Girder Type - Precast Girder (40%)	No.	6.00	1.41%			
	c-ii) Slab - after Completion of Slab (60%)	No.	32.00	2.12%	12.00	37.50%	0.79%
Major Bridge works and ROB/RUB	C- New Major Bridges						
	(1) Foundation						
	(b) Pile Foundation / Well Foundation	No.	24.00	5.91%	24.00	100.00%	5.91%
	(2) Sub-structure	No.	24.00	1.61%	24.00	100.00%	1.61%
	(3) Super-structure (including crash barriers etc. complete) If pre-cast girders/ segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.						
	-Super-structure - Precast Girder (40%)	No.	18.00	1.09%	15.00	83.33%	0.91%
	c-ii) Slab - after Completion of Slab (60%)	No.	18.00	1.64%			
	D- New rail-road bridges						
	(a) ROB						
	(1) Foundation	No.	10.00	2.50%	10.00	100.00%	2.50%
	(2) Sub-structure	No.	10.00	1.06%			
	(3) Super-structure (including crash barriers etc. complete) If pre-cast girders/ segments are used, 40% of the weightage of the stage in percentage to the bid project cost is assigned to the casting of such precast girders/ segments.						
	-Super-structure - Precast Girder (40%)	No.	8.00	0.90%	2.00	25.00%	0.22%
	c-ii) Slab - after Completion of Slab (60%)	No.	8.00	1.34%			

**4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
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Structures (Elevated Section, Reinforced earth)	4) Reinforced Earth Wall (includes Approaches of ROB, Underpasses, Over passes, Flyover etc.)						
	i) Re Block Casting (5%)	Sq.m	24,984.00	0.03%	13,081.45	52.36%	0.02%
	ii) Re Block Erection (95%)	Sq.m	24,984.00	0.63%			
Electrical and Public Health Utilities	UTILITY SHIFTING						
	HT/LT lines (including Transformers if any)	Km	4.36	0.04%	2.38	54.59%	0.02%
	HT/LT crossings	No.	65.00	1.03%	20.00	30.77%	0.32%
	Water pipeline	Km	4.65	0.03%	4.65	100.00%	0.03%
	Water pipeline crossings	No.	14.00	0.06%	14.00	100.00%	0.06%
Other Works	OTHER WORKS						
	i) Service Road / Slip Road	L-Km	4.164	1.78%			
	iii) Road Side Drain	L-Km	2.96	0.44%	0.50	16.89%	0.07%
	iv) - Road signs, markings, Km Stone, Safety devices						
	(a) Road signs, markings, Km Stone	L-Km	14.36	0.30%			
	(b) Concrete Crash Barrier/W Beam Crash Barrier in Road work	L-Km	30.96	2.42%			
	v) - Project Facilities						
	(a) Bus bay	No.	2.00	0.08%			
	viii) Protection Work						
	(a) Boulder Pitching on Slope / Slope Protection Work	L-Km	4.32	2.32%			
	(b) Precast Toe Wall / Retaining Wall	L-Km	13.81	10.94%	5.90	42.72%	4.67%
	x) Miscellaneous						
	(a) Street Lightning	No.	188.00	0.09%			
	(b) Junction/Interchange	No.	6.00	0.18%			
	(c) Precast Boundary Wall	L-Km	27.04	0.42%			
	(d) ATMS, HTMS, Traffic Aid Posts, Medical aid Posts, Vehicle Recue Posts, Telecom System	L-Km	28.72	0.34%			
(e) Rain Water Harvesting	No.	28.00	0.17%				
Grand Total >>>				100.00%			43.04%

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
 Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.2 S Curve

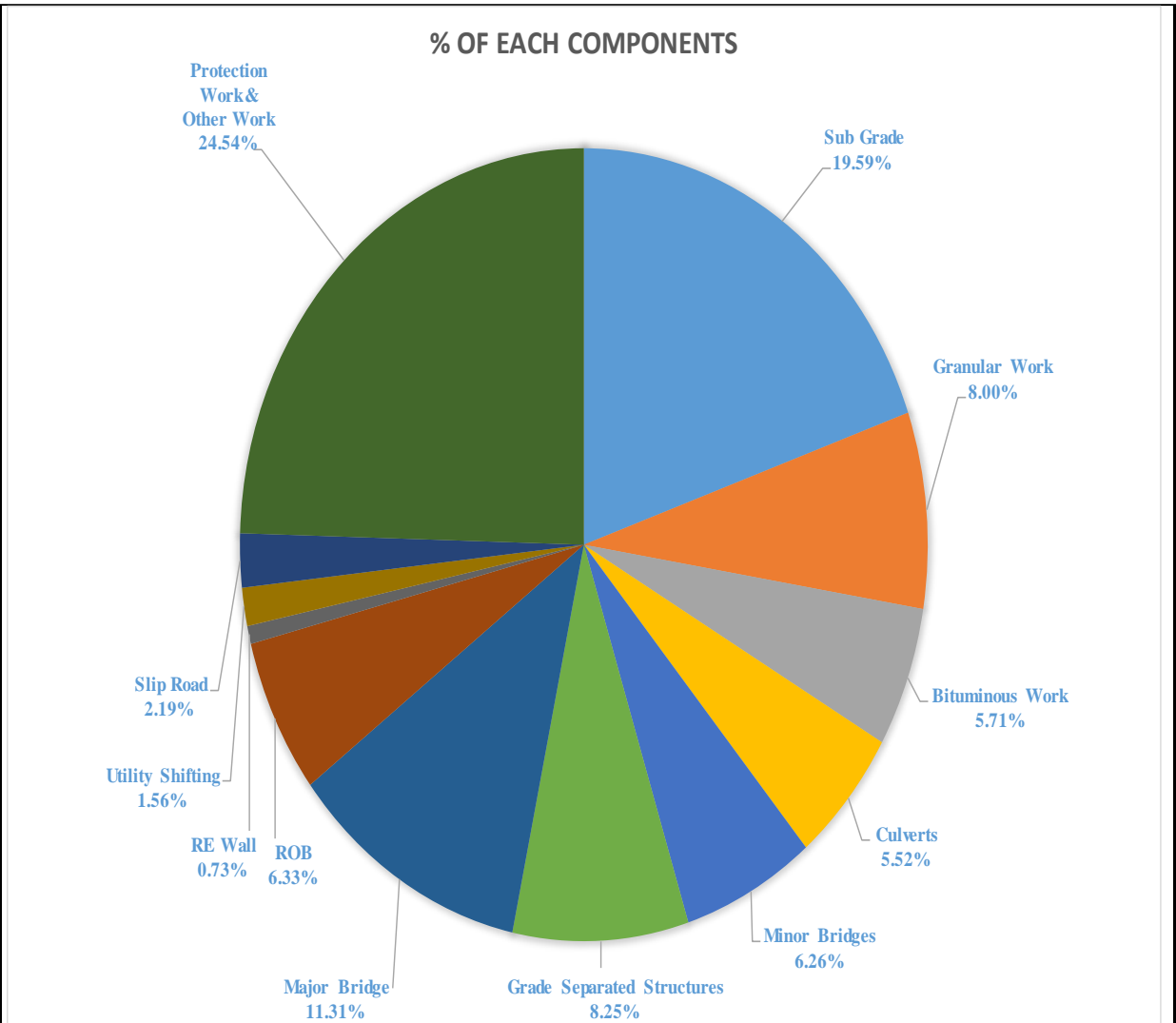


VALUES (IN CR.)	MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	CUMULATIVE PLANNED	7.34	22.13	29.24	30.88	33.08	42.74	57.57	84.30	110.09	135.90	161.38	186.67	211.77	229.60	248.42	261.16	273.60	289.87	306.53	330.86	352.58	367.64	380.26
CUMULATIVE ACHIEVED		1.10	1.94	4.56	9.73	11.29	20.65	23.08	33.81	54.03	102.52	129.71	161.42	163.36										
		0.29%	0.51%	1.20%	2.56%	2.97%	5.43%	6.07%	8.89%	14.21%	26.96%	34.11%	42.45%	43.04%										

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
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9.3 Weightages (Earthwork, Granular Work, Bituminous Work, Culvert, MJB, MNB, Underpass, ROB, RE Wall, Utility Shifting, SR and Others)

Work Description	% of Each sub components	Amount (Cr.)
Sub Grade	19.59%	74,50,23,653.02
Granular Work	8.00%	30,43,19,594.30
Bituminous Work	5.71%	21,70,88,192.72
Culverts	5.52%	20,99,29,557.88
Minor Bridges	6.26%	23,80,73,489.15
Grade Separated Structures	8.25%	31,37,15,716.05
Major Bridge	11.31%	43,00,02,339.39
ROB	6.33%	24,07,16,649.18
RE Wall	0.73%	2,78,77,340.41
Utility Shifting	1.56%	5,92,90,359.01
Slip Road	2.19%	8,34,60,380.79
Protection Work& Other Work	24.54%	93,31,02,728.10
Total	100.00%	3,80,26,00,000.00



**4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.**

LHS	Chainage	RHS						LHS						
		BC	DBM	R-WMM	R-GSB	Sub-Grade	Embankment	C&G	Embankment	Sub-Grade	R-GSB	R-WMM	DBM	BC
	3+030													
	3+040													
	3+050													
	3+060													
	3+070													
	3+080													
	3+090													
	3+100													
	3+110													
	3+120													
	3+130													
	3+140													
	3+150													
	3+160													
	3+170													
	3+180													
	3+190													
	3+200													
	3+210													
	3+220													
	3+230													
	3+240													
	3+250													
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	4+590							</						

**4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
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RHS		LHS	
Chainage	C&G Embankment Sub-Grade R-GSB R-WMM DBM BC	Chainage	C&G Embankment Sub-Grade R-GSB R-WMM DBM BC
11+030		9+030	
11+040		9+040	
11+050		9+050	
11+060		9+060	
11+070		9+070	
11+080		9+080	
11+090		9+090	
11+100		9+100	
11+110		9+110	
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		10+930	
		10+940	
		10+950	
		10+960	
		10+970	
		10+980	
		10+990	
		11+000	
		11+010	
		11+020	

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border)
 Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

LHS		Chainage		RHS	
BC	DBM	C&G	Embment	Sub-Grade	R-GSB
		12+030			
		12+040			
		12+050			
		12+060			
		12+070			
		12+080			
		12+090			
		12+100			
		12+110			
		12+120			
		12+130			
		12+140			
		12+150			
		12+160			
		12+170			
		12+180			
		12+190			
		12+200			
		12+210			
		12+220			
		12+230			
		12+240			
		12+250			
		12+260			
		12+270			
		12+280			
		12+290			
		12+300			
		12+310			
		12+320			
		12+330			
		12+340			
		12+350			
		12+360			
		12+370			
		12+380			
		12+390			
		12+400			
		12+410			
		12+420			
		12+430			
		12+440			
		12+450			
		12+460			
		12+470			
		12+480			
		12+490			
		12+500			
		12+510			
		12+520			
		12+530			
		12+540			
		12+550			
		12+560			
		12+570			
		12+580			
		12+590			
		12+600			
		12+610			
		12+620			
		12+630			
		12+640			
		12+650			
		12+660			
		12+670			
		12+680			
		12+690			
		12+700			
		12+710			
		12+720			
		12+730			
		12+740			
		12+750			
		12+760			
		12+770			
		12+780			
		12+790			
		12+800			
		12+810			
		12+820			
		12+830			
		12+840			
		12+850			
		12+860			
		12+870			
		12+880			
		12+890			
		12+900			
		12+910			
		12+920			
		12+930			
		12+940			
		12+950			
		12+960			
		12+970			
		12+980			
		12+990			
		13+000			
		13+010			
		13+020			
		13+030			
		13+040			
		13+050			
		13+060			
		13+070			
		13+080			
		13+090			
		13+100			
		13+110			
		13+120			
		13+130			
		13+140			
		13+150			
		13+160			
		13+170			
		13+180			
		13+190			
		13+200			
		13+210			
		13+220			
		13+230			
		13+240			
		13+250			
		13+260			
		13+270			
		13+280			
		13+290			
		13+300			
		13+310			
		13+320			
		13+330			
		13+340			
		13+350			
		13+360			
		13+370			
		13+380			
		13+390			
		13+400			
		13+410			
		13+420			
		13+430			
		13+440			
		13+450			
		13+460			
		13+470			
		13+480			
		13+490			
		13+500			
		13+510			
		13+520			
		13+530			
		13+540			
		13+550			
		13+560			
		13+570			
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		13+680			
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		13+720			
		13+730			
		13+740			
		13+750			
		13+760			
		13+770			
		13+780			
		13+790			
		13+800			
		13+810			
		13+820			
		13+830			
		13+840			
		13+850			
		13+860			
		13+870			
		13+880			
		13+890			
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		13+930			
		13+940			
		13+950			
		13+960			
		13+970			
		13+980			
		13+990			
		14+000			
		14+010			
		14+020			
		14+030			
		14+040			
		14+050			
		14+060			
		14+070			
		14+080			
		14+090			
		14+100			
		14+110			
		14+120			
		14+130			
		14+140			
		14+150			
		14+160			
		14+170			
		14+180			
		14+190			
		14+200			
		14+210			
		14+220			
		14+230			
		14+240			
		14+250			
		14+260			
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		14+360			
		14+370			
		14+380			
		14+390			
		14+400			
		14+410			
		14+420			
		14+430			
		14+440			
		14+450			
		14+460			
		14+470			
		14+480			
		14+490			
		14+500			
		14+510			
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		14+730			
		14+740			
		14+750			
		14+760			
		14+770			
		14+780			
		14+790			
		14+800			
		14+810			
		14+820			
		14+830			
		14+840			
		14+850			
		14+860			
		14+870			
		14+880			
		14+890			
		14+900			
		14+910			
		14+920			
		14+930			
		14+940			
		14+950			
		14+960			
		14+970			
		14+980			
		14+990			
		15+000			
		15+010			
		15+020			
		15+030			
		15+040			
		15+050			
		15+060			
		15+070			
		15+080			
		15+090			
		15+100			
		15+110			
		15+120			
		15+130			
		15+140			
		15+150			
		15+160			
		15+170			
		15+180			
		15+190			
		15+200			
		15+210			
		15+220			
		15+230			
		15+240			
		15+250			
		15+260			
		15+270			
		15+280			
		15+290			
		15+300			
		15+310			
		15+320			
		15+330			
		15+340			
		15+350			
		15+360			
		15+370			
		15+380			
		15+390			

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9.5.1 Status of Box Culvert: -

SN	LHS											Box Culvert Chainage	RHS												
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed	Layout & Excavation		Abutment	Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	00+043	A1											
												A2		A2											
2												A1	00+207	A1											
												A2		A2											
3												A1	00+341	A1											
												A2		A2											
4												A1	01+254	A1											
												A2		A2											
5												A1	01+652	A1											
												A2		A2											
6												A1	01+973	A1											
												A2		A2											
7												A1	02+143	A1											
												A2		A2											
8												A1	02+340	A1											
												A2		A2											
9												A1	02+440	A1											
												A2		A2											
10												A1	03+418	A1											
												A2		A2											
11												A1	03+646	A1											
												A2		A2											
12												A1	03+925	A1											
												A2		A2											
13												A1	04+018	A1											
												A2		A2											
14												A1	04+340	A1											
												A2		A2											
15												A1	04+534	A1											
												A2		A2											
16												A1	04+847	A1											
												A2		A2											
17												A1	05+126	A1											
												A2		A2											
18												A1	05+920	A1											
												A2		A2											
19												A1	06+190	A1											
												A2		A2											
20												A1	06+642	A1											
												A2		A2											
21												A1	07+668	A1											
												A2		A2											
22												A1	07+832	A1											
												A2		A2											
23												A1	07+906	A1											
												A2		A2											
24												A1	08+188	A1											
												A2		A2											
25												A1	08+926	A1											
												A2		A2											
26												A1	08+576	A1											
												A2		A2											
27												A1	09+543	A1											
												A2		A2											
28												A1	09+779	A1											
												A2		A2											
29												A1	10+529	A1											
												A2		A2											
30												A1	11+073	A1											
												A2		A2											
31												A1	11+921	A1											
												A2		A2											
32												A1	12+223	A1											
												A2		A2											
33												A1	12+663	A1											
												A2		A2											
34												A1	13+065	A1											
												A2		A2											
35												A1	13+380	A1											
												A2		A2											
36												A1	13+740	A1											
												A2		A2											

9.5.2 Status of SVUP Culvert:

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SN	LHS										SVUP Chainage	RHS														
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed		Layout & Excavation	Abutment	Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work	
1											A1	03+728	A1													
											A2		A2													

9.5.3 Status of Minor Bridge: -

Sr.No	LHS										MNB Chainage	RHS														
	Miscellaneous Item	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft		PCC/Granular Bed	Layout & Excavation	Abutment	Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	00+742	A1												
												A2		A2												
2												A1	01+768	A1												
												A2		A2												
3												A1	06+213	A1												
												A2		A2												
4												A1	07+306	A1												
												A2		A2												
5												A1	09+003	A1												
												A2		A2												
6												A1	09+293	A1												
												A2		A2												
7												A1	11+363	A1												
												A2		A2												
8												A1	14+195	A1												
												A2		A2												

9.5.3 Status of Major Bridge: -

SN	LHS											RHS														
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Abutment Pile		Layout & Excavation	Abutment	Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Shaft	Abutment Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item	
1												A1	00+526	A1												
												P1		P1												
												P2		P2												
												A2		A2												
2												A1	02+880	A1												
												P1		P1												
												P2		P2												
												A2		A2												
3												A1	05+322	A1												
												P1		P1												
												P2		P2												
												A2		A2												

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9.5.4 Status of ROB:-

SN	LHS										ROB Chainage	RHS													
	Miscellaneous Item	Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Abutment Pile		Layout & Excavation	Abutment	Abutment	Layout & Excavation	Abutment Pile	Abutment Pile Cap	Abutment Shaft	Abutment Cap	Dirt Wall	RCC Girder	Desk Slab	Approach Slab	Crash Barrier	Miscellaneous Item
1											A1	04+624	A1												
											A2		A2												
2											P1	04+624	P1												
										P2	P2														
											P3		P3												

9.5.5 Status of Underpass:-

SN	LHS										Underpass Chainage	RHS													
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Wall 1st Lift	Haunch	Raft	PCC/Granular Bed		Layout & Excavation	Abutment	Abutment	Layout & Excavation	PCC/Granular Bed	Raft	Haunch	Wall 1st Lift	Wall 2nd Lift	Wall Final Lift	Top Haunch	Top Slab	Parapet Wall	Protection Work
1												A1	1+142	A1											
												A2	LVUP	A2											
2												A1	3+886	A1											
												A2	LVUP	A2											
3												A1	4+212	A1											
												A2	LVUP	A2											
4												A1	5+414	A1											
												A2	LVUP	A2											
5												A1	7+213	A1											
												A2	LVUP	A2											
6												A1	9+332	A1											
												A2	LVUP	A2											
7												A1	10+098	A1											
												A2	LVUP	A2											
8												A1	10+834	A1											
												A2	LVUP	A2											
9												A1	12+310	A1											
												A2	LVUP	A2											
10												A1	03+728	A1											
												A2	SVUP	A2											
11												A1	2+999	A1											
												A2	VUP	A2											
12												A1	5+622	A1											
												A2	VUP	A2											

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

CHAPTER-10

QUALITY CONTROL AND MATERIAL

10.1 Quality Control

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

10.2 Site Laboratory

The Site Laboratory is established at Base Camp located at CH: -5+600. All the required material tests are being conducted in the laboratory for the project road.

10.3 Materials Testing & Third Party Test

The testing to be carried out in the site laboratory includes tests of soil, aggregates, cement, steel, sand, embankment fill, sub grade, granular subbase and cement concrete. The details of test conducted up to 30th April, 2026 are enclosed.

10.3.1 Soil and Agregates

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

10.3.2 Cement

The Concessionaire is using approved sources of Cement as Black Tiger (OPC 53 Grade), Dalmia Cement (OPC 53 Grade), Star Cement (OPC 53 Grade), Amrit 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 Metalics and Energy Limited.

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10.3.4 Status of Materials Source approval

Cement				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Black Tiger Cement	MKCIL/ASSAM/PKG-07/106 dt. 24.03.2025		
2.	Dalmia Cement	MKCIL/ASSAM/PKG-07/107 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/34
3.	Max Cement	MKCIL/ASSAM/PKG-07/108 dt. 24.03.2025		
4.	Star Cement	MKCIL/ASSAM/PKG-07/109 dt. 24.03.2025		
5.	Amrit Cement	MKCIL/ASSAM/PKG-07/110 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/141

Reinforcement Steel				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Rashmi Metaliks Limited	MKCIL/ASSAM/PKG-07/483 dt. 25.11.2025	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/139
2.	Shyam Steel industries Ltd.	MKCIL/ASSAM/PKG-07/112 dt. 24.03.2025	In-Principle Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/26
3.	SRMB Srijan Pvt. Ltd.	MKCIL/ASSAM/PKG-07/113 dt. 24.03.2025	In-Principle Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/32
4.	Shyam Metalics & Energy Ltd.	MKCIL/ASSAM/PKG-07/132 dt. 04.04.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/16
5.	Elegant steel	MKCIL/ASSAM/PKG-07/167 dt. 19.04.2025	Approved	TASPL-MAV/NH-37/MKICL/2025/AUG/59
6.	M/s AMIT METALINKS LTD	MKCIL/ASSAM/PKG-07/609 dt. 18.02.2026	Submitted	
7.	M/s OCL Iron & Steel Ltd.	MKCIL/ASSAM/PKG-07/550 dt. 02.01.2026	Approved	TASPL-MAV/NH-37/MKCIL/2026/March/181

Admixture				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Berger Paints Pvt. Ltd.	MKCIL/ASSAM/PKG-07/101 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/146
2.	CHRYSO India Pvt. Ltd	MKCIL/ASSAM/PKG-07/102 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/147
3.	CICO Technologies Ltd.	MKCIL/ASSAM/PKG-07/103 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKICL/2025/SEPT/71
4.	FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-07/104 dt. 24.03.2025	Approved	TASPL-MAV/NH-37/MKICL/2025/SEPT/70
5.	Vista Chemtech Pvt. Ltd.	MKCIL/ASSAM/PKG-07/105 dt. 24.03.2025		
6.	Shyam Metalics & Energy Limited	MKCIL/ASSAM/PKG-07/132 Dt. 04.04.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/08

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7.	STP Pvt Limited	MKCIL/ASSAM/PKG-07/491		
8.	TP	MKCIL/ASSAM/PKG-07/492	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/151
9.	HEXATRON Industries Limited	MKCIL/ASSAM/PKG-07/503	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/145
10.	CAC Pvt Limited	MKCIL/ASSAM/PKG-07/489	Approved	TASPL-MAV/NH-37/MKCIL/2026/JAN/152
11.	M/s FOSROC Chemicals (India) Ltd.	MKCIL/ASSAM/PKG-07/626 dt. 05.03.2026	Submitted	
12.	M/s OCL Bitumen (VG-40 & VG-30)	MKCIL/ASSAM/PKG-07/649 dt. 26.03.2026	Submitted	

Other				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Titan Technovators.	MKCIL/ASSAM/PKG-07/264 dt. 04.07.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/39
2.	Abhuva innovation	MKCIL/ASSAM/PKG-07/265 dt. 04.07.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/40
3.	Elegant steel	MKCIL/ASSAM/PKG-07/167 Dt 19.04.2025	Approved	TASPL-MAV/NH-37/MKCIL/2025/MAY/28
4.	Geogrid	MKCIL/ASSAM/PKG-07/577 Dt 19.04.2025	Submitted	
5.	Expansion Joint (M/s JK Prestressing Co.)	MKCIL/ASSAM/PKG-07/578 Dt 19.04.2025	Submitted	
6.	Ms DP Wire,Usha Martin & TATA Steel	MKCIL/ASSAM/PKG-07/620 Dt 18.02.2026	Submitted	
7.	Ms HINCOL, HPCL, BITUMIX INDIA LLP & JALNIDHI BITUMEN	MKCIL/ASSAM/PKG-07/619 Dt 26.02.2026	Submitted	
8.	M/s Techfab India Industries Limited,GeoSys India & Maccaferri	MKCIL/ASSAM/PKG-07/606 Dt 18.02.2026	Submitted	
9.	OM SAI CONSULTANTS KNP PVT LTD	MKCIL/ASSAM/PKG-07/587 Dt 06.02.2026	Submitted	
10.	Shree Balaji Test House Pvt.Ltd	MKCIL/ASSAM/PKG-07/584 Dt 05.02.2026	Submitted	
11.	LRPC Cable HT Strands	MKCIL/ASSAM/PKG-07/620 dt. 26.02.2026	Approved	TASPL-MAV/NH-37/MKCIL/2026/March/175
12.	M/s TATA Steel- HT Strand Wire	MKCIL/ASSAM/PKG-07/620 dt. 26.02.2026	Approved	TASPL-MAV/NH-37/MKCIL/2026/March/178
13.	Grout Mix Design	MKCIL/ASSAM/PKG-07/658 dt. 28.03.2026	Submitted	
14.	M/s Fibretron Composites Pvt Ltd	MKCIL/ASSAM/PKG-07/681 dt. 20.04.2026	Submitted	

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

10.3.5 Monthly Laboratory Report

Sr.No.	Name of test	Reference as per IS/MoRT&H	Frequency of Tests	Total Tests Conducted upto Previous Month			No. of Tests Conducted during this Month			No. of Tests Conducted upto this Month			No. of Tests Cecked 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	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.2	Grain size analysis	IS : 2720 (P-4)	1 Test / Every 500 m Interval's	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.3	Liquid limits (LL)	IS : 2720 (P-5)	1 Test / Every 500 m Interval's	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.4	Plasticity Index (PI)	IS : 2720 (P-5)	1 Test / Every 500 m Interval's	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.5	Proctor test (MDD & OMC)	IS : 2720 (P-8)	1 Test / Every 500 m Interval's	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.6	California Bearing Ratio Test (CBR)	IS : 2720 (P-16)	As Required	33	33	0	0	0	0	33	33	0	0	0	0	0.00	
1.7	Field Compaction Test (OGL)	IS : 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pft's)	333	320	13	0	0	0	333	320	13	0	0	0	0.00	
(II). Borrow area Samples (EMB/SG)		MoRT&H (Clause-305)															
2.1	Free Swelling Index (FSI)	IS : 2720 (P-40)	2 Test's / 3000 Cum.	300	300	0	0	0	0	300	300	0	0	0	0	#DIV/0!	
2.2	Grain size analysis (GSA)	IS : 2720 (P-4)	2 Test's / 3000 Cum.	300	300	0	0	0	0	300	300	0	0	0	0	#DIV/0!	
2.3	Liquid limits (LL)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	300	300	0	0	0	0	300	300	0	0	0	0	#DIV/0!	
2.4	Plasticity Index (PI)	IS : 2720 (P-5)	2 Test's / 3000 Cum.	300	300	0	0	0	0	300	300	0	0	0	0	#DIV/0!	
2.5	Proctor test (MDD & OMC)	IS : 2720 (P-8)	2 Test's / 3000 Cum.	300	300	0	0	0	0	300	300	0	0	0	0	#DIV/0!	
2.6	California Bearing Ratio Test (CBR)	IS : 2720 (P-16)	1 Test / 3000 Cum.	150	150	0	0	0	0	150	150	0	0	0	0	#DIV/0!	
2.7	Field Compaction Test (Emb)	IS : 2720 (P-28)	1 Set / 3000 Sqm. (1Set = 10 Pft's)	2356	2324	33	0	0	0	2356	2324	33	0	0	0	#DIV/0!	
2.8	Field Compaction Test (Subgrade)	IS : 2720 (P-28)	1 Set / 2000 Sqm. (1Set = 10 Pft's)	391	387	4	0	0	0	391	387	4	0	0	0	#DIV/0!	
(III). Coarse Agg. for Concrete Work's		MoRT&H Table -900-6															
4.1	Gratation of Coarse Aggregate	IS : 2386 (P-1)	1 Test / Every day's work	282	263	19	30	30	0	312	293	19	5	5	0	16.67	
4.2	Flakiness Index (FI)	IS : 2386 (P-1)	1 Test for source / Weekly	47	43	4	5	5	0	52	48	4	1	1	0	20.00	
4.3	Aggregate Impact Value (A.I.V)	IS : 2386 (P-4)	1 Test for source / Weekly	47	43	4	5	5	0	52	48	4	1	1	0	20.00	
4.4	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	6	6	0	0	0	0	6	6	0	0	0	0	0.00	
4.5	Water Absorption	IS : 2386 (P-3)	1 Test / Source	6	6	0	0	0	0	6	6	0	0	0	0	0.00	
4.6	Deleterious Constituents	IS : 2386 (P-2)	1 Test / As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
4.7	Moisture correction	IS : 2386 (P-3)	1 Test / Day	312	312	0	30	30	0	342	342	0	5	5	0	16.67	
4.8	Soundness	IS : 2386 (P-5)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
4.9	Alkali Aggregate Reactivity	IS : 2386 (P-7)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
(IV). Fine Agg. for Concrete		MoRT&H Table -900-6															
5.1	Gratation	IS : 383	1 Test / Every day's work	263	263	0	30	30	0	293	293	0	3	3	0.0	10.00	
5.2	Specific Gravity	IS : 2386 (P-3)	1 Test / Source	6	6	0	0	0	0	6	6	0	0	0	0.0	0.00	
5.3	Water Absorption	IS : 2720 (P-3)	1 Test / Source	6	6	0	0	0	0	6	6	0	0	0	0.0	0.00	
5.4	Silt Content	IS : 383	1 Test / Weekly	47	47	0	5	5	0	52	52	0	1	1	0.0	20.00	
5.5	Moisture correction	IS : 2386 (P-3)	1 Test / Every day's work	312	312	0	30	30	0	342	342	0	3	3	0.0	10.00	
(V). Concrete Cube's Compressive Strength Test		IS : 516															
Δ Grade of Concrete : M-10 PCC																	
6.1	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	172	172	0	9	9	0	181	181	0	1	1	0	11.11	
6.2	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	341	341	0	30	30	0	371	371	0	3	3	0	10.00	
Δ Grade of Concrete : M-15 PCC																	
6.3	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	63	63	0	1	1	0	64	64	0	0	0	0	0.00	
6.4	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	91	91	0	5	5	0	96	96	0	1	1	0	20.00	
Δ Grade of Concrete : M-20 PCC																	
6.5	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
6.6	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Δ Grade of Concrete : M-20 RCC																	
6.7	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	17	17	0	0	0	0	17	17	0	0	0	0	#DIV/0!	
6.8	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	3	3	0	0	0	0	3	3	0	0	0	0	#DIV/0!	

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Grade of Concrete : M-20 for KERB															
6.9	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0.00
6.1	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	0	0	0	0	0	0	0	0	0	0	0	0.00
Grade of Concrete : M-25 RCC															
6.11	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	486	486	0	35	35	0	521	521	0	4	4	11.43
6.12	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	889	889	0	118	118	0	1007	1007	0	12	12	10.17
Grade of Concrete : M-30 RCC															
6.13	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	199	199	0	3	3	0	202	202	0	1	1	33.33
6.14	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	382	382	0	28	28	0	410	410	0	3	3	10.71
Grade of Concrete : M-35 RCC															
6.15	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	95	95	0	11	11	0	106	106	0	3	3	27.27
6.16	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	341	341	0	31	31	0	372	372	0	4	4	12.90
Grade of Concrete : M-35 Pile															
6.17	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	62	62	0	0	0	0	62	62	0	0	0	#DIV/0!
6.18	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	140	140	0	0	0	0	140	140	0	0	0	#DIV/0!
Grade of Concrete : M-35 RE BLOCK															
6.19	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	80	80	0	3	3	0	83	83	0	1	1	33.33
6.2	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	192	192	0	33	33	0	225	225	0	4	4	12.12
Grade of Concrete : M-40 RCC															
6.21	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	49	49	0	8	8	0	57	57	0	2	2	25.00
6.22	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	132	132	0	24	24	0	156	156	0	3	3	12.50
Grade of Concrete : M-40 PILE															
6.21	for 7 days	IS : 516	As per Frequency MoRT&H Table 1700-09	130	130	0	0	0	0	130	130	0	0	0	#DIV/0!
6.22	for 28 days	IS : 516	As per Frequency MoRT&H Table 1700-09	451	451	0	0	0	0	451	451	0	0	0	#DIV/0!
Grade of Concrete : M-55 GIRDER/PSC															
6.25	for 7 days	IS : 516	As per Frequency MoRT&H	25	25	0	3	3	0	28	28	0	2	2	66.67
6.26	for 28 days	IS : 516	As per Frequency MoRT&H	81	81	0	17	17	0	98	98	0	10	10	58.82
(VI). Cement tests															
7.1	Fineness of Cement	IS : 4031 (P-1)	1 Test Every Batch of Cement	33	33	0	2	2	0	35	35	0	1	1	50.00
7.2	Normal Consistency	IS : 4031 (P-4)	1 Test Every Batch of Cement	33	33	0	2	2	0	35	35	0	1	1	50.00
7.3	Initial Setting Time	IS : 4031 (P-5)	1 Test Every Batch of Cement	33	33	0	2	2	0	35	35	0	1	1	50.00
7.4	Final Setting time	IS : 4031 (P-5)	1 Test Every Batch of Cement	33	33	0	2	2	0	35	35	0	1	1	50.00
7.5	Compressive Strength (03 Days)	IS : 516	1 Test Every Batch of Cement	41	41	0	5	5	0	46	46	0	2	2	40.00
7.6	Compressive Strength (07 Days)	IS : 516	1 Test Every Batch of Cement	41	41	0	8	8	0	49	49	0	2	2	25.00
7.7	Compressive Strength (28 Days)	IS : 516	1 Test Every Batch of Cement	36	36	0	9	9	0	45	45	0	3	3	33.33
7.8	Soundness	IS : 4031 (P-3)	1 Test Every Batch of Cement	2	2	0	0	0	0	2	2	0	0	0	0.0
7.9	Specific Gravity	IS : 4031 (P-11)	1 Test Every Batch of Cement	1	1	0	0	0	0	1	1	0	0	0	0.0

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(VII). Granular Sub-Base (GSB)		MoRT&H Clause - 401																	
8.1	Gradation	Table 400-2	1 Test /400 Cum.	37	37	0	0	0	0	0	0	37	37	0	0	0	0	0	#DIV/0!
8.2	Liquid limits (LL)	IS: 2720 (P-5)	1 Test /400 Cum.	37	37	0	0	0	0	0	0	37	37	0	0	0	0	0	#DIV/0!
8.3	Plasticity Index (PI)	IS: 2720 (P-5)	1 Test /400 Cum.	2	2	0	0	0	0	0	0	2	2	0	0	0	0	0	#DIV/0!
8.4	Moisture Prior to Compaction Test	IS: 2720 (P-2)	1 Test /400 Cum.	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	#DIV/0!
8.5	Proctor test (MDD & OMC)	IS: 2720 (P-8)	1 Test Per Source / As Required	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	#DIV/0!
8.6	California Bearing Ratio Test (CBR)	IS: 2720 (P-16)	1 Test Per Source / As Required	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	#DIV/0!
8.7	Water Absorption	IS: 2720 (P-3)	1 Test Per Source / As Required	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	#DIV/0!
8.8	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	As Required	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	#DIV/0!
8.9	Field Compaction Test (GSR)	IS: 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	68	68	0	0	0	0	0	0	68	68	0	0	0	0	0	#DIV/0!
(VIII). Cement Treated Sub Base (CTSBS)		MoRT&H Clause - 403 & IRC-37: 2018																	
9.1	Gradation	MoRT&H Table 400-4	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.2	Liquid limits (LL)	IS: 2720 (P-5)	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.3	Plasticity Index (PI)	IS: 2720 (P-5)	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.4	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.5	Unconfined Compressive Strength (UCS)	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.6	Cement Content	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.7	Flexural Strength	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.8	Soundness Test	BIS: 4332 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9.9	Field Compaction Test (CTSBS)	IS: 2720 (P-28)	2 Test's 500 Sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(IX). Cement Treated Base (CTB)		MoRT&H Clause - 403 & IRC-37: 2018																	
10.1	Gradation	MoRT&H Table 400-4	1 Test 400 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.2	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.3	Unconfined Compressive Strength (UCS)	IS: 516	3 Specimens each 400 ton/ Minimum 2 tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.4	Cement Content	IS: 516	3 Specimens each 400 ton/ Minimum 2 Tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.5	Flexural Strength	IS: 516	3 Specimens each 400 ton/ Minimum 2 Tests per day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.6	Soundness Test	BIS: 4332 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10.7	Field Compaction Test (CTSB)	IS: 2720 (P-28)	2 Test's 500 Sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(X). Wet Mix Macadam (WMM)		MoRT&H-406																	
11.1	Gradation	Table 400-13	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.2	Atterberg limits (LL & PI)	IS: 2720 (P-5)	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.3	Proctor test (MDD Vs OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.4	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	1 Test/ 1000 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.5	Combined Flakiness & Elongation (FI & EI)	IS: 2386 (P-1)	1 Test /500 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.6	Water Absorption	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.7	Soundness	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11.8	Field Compaction Test (WMM)	IS: 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XI). Aggregate Inter Layer (AIL)		MoRT&H-406																	
12.1	Gradation	Table 400-13	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.2	Atterberg limits (LL & PI)	IS: 2720 (P-5)	1 Test /200 Cum.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.3	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.4	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	1 Test/ 1000 Cum	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0.00
12.5	Combined Flakiness & Elongation (FI & EI)	IS: 2386 (P-1)	1 Test /500 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.6	Water Absorption	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.7	Soundness	IS: 2386 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12.8	Field Compaction Test (AIL)	IS: 2720 (P-28)	1 Set / 1000 Sqm. (1Set = 3 Pit's)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XII). Dense Bituminous Macadam (DBM)		MoRT&H-500																	
13.1	Binder Content & Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.2	Mix Combined Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.3	Marshall Test (In Sets)	ASTM-D-1559	1 Set/ 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.4	Aggregate Impact Value (AIV)	IS: 2386 (P-4)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.5	Combined Flakiness & Elongation (FI & EI)	IS: 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.6	Water Absorption & Specific Gravity	IS: 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.7	Stripping Value	IS: 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.8	Maximum Sp.Gravity (Gmm)	ASTM D 2041	1 Set/ 400 MTMix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.9	Density of compacted layer	MoRT&H Sec 900	1 Test / 700 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.10	Soundness	IS: 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.11	Sand equivalent test	IS: 2720 (P-37)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.12	plasticity Index	MoRT&H Sec 900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.13	percentage of Fractured face	MoRT&H Sec 900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13.14	Polished Stone Value	IS: 812 (P-114)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00

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(XIII). Bituminous Concrete (BC)			MoRTH-500													
14.1	Binder Content & Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.2	Mix Combined Gradation	As per MoRT&H	1 Test / 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.3	Marshall Test (In Sets)	ASTM-D-1559	1 Tet/ 400 Tonnes	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.4	Aggregate Impact Value (A.I.V)	IS: 2386 (P-4)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.5	Combined Flakiness & Elongation (Fl & El)	IS: 2386 (P-1)	1 Test / 350 Cum	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.6	Water Absorption & Specific Gravity	IS: 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.7	Stripping Value	IS: 6241	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.8	Maximum Sp.Gravity(Gmm)	ASTM D 2041	1 set/ 400 MTMix	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.9	Density of Compacted Layer	MoRT&H Sec.900	1 test / 700 Sq.m	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.10	Soundness	IS: 2386 (P-3)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.11	Sand equivalent test	IS: 2720 (P-37)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.12	plasticity Index	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.13	percentage of Fractured face	MoRT&H Sec.900	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.14	Polished Stone Value	BS: 812 (P-114)	1 Test/ Source & As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XIV). Bitumen (VG-40)																
15.1	Softening Point(°c)	IS: 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.2	Penetration at 25°c 100gm 5 Sec	IS: 1203	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.3	Ductility at 25°c	IS: 1208	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.4	Absolute Viscosity at 60°/135°c (CST)	IS: 1206 (P-2)	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.5	Kinematic Viscosity at 135°c (CST)	IS: 1206 (P-3)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
15.6	Specific Gravity at 27°c	IS: 2380 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15.7	Flash Point	IS: 1209 (IS: 1448 P-69)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
15.8	Solubility Test	IS: 1216	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
(XV). MODIFIED BITUMEN (PMB 76E-10)																
16.1	Specific Gravity at 27°c	IS: 2380 (P-4)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.2	Softening Point (°C)	IS: 1205	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.3	Seperation, Difference in Softening Point (0°c)	IS: 15462: 2019	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16.4	Elastic Recovery at 15°c	IS: 15462: 2019	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVI). Emulsion (SS-1)																
17.1	Viscosity @ 25°c	IS: 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0
17.2	Water Content	IS: 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
17.3	Prime coat	IS: 8887:2004	3 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVII). Emulsion (RS-1)																
18.1	Viscosity @ 50°c	IS: 8887:2004	1 Test Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0
18.2	Water Content	IS: 8887:2004	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0
18.3	Tack Coat	IS: 8887:2004	3 test / Day	0	0	0	0	0	0	0	0	0	0	0	0	0.00
(XVIII). Lean Concrete (DLC)			MIX DESIGN	MoRT&H-600												
13.1	Gradation	Table 600-1	1 test / day	15	15	0	2	2	0	17	17	0	1	1	0	50.00
13.2	Field Compaction Test	IS: 2720 (P-28)	1 Set(3 pit) of tests / 2000 sqm.	12	12	0	6	6	0	18	18	0	2	2	0	33.33
13.3	Proctor test (MDD & OMC)	IS: 2720 (P-8)	As required	2	2	0	0	0	0	2	2	0	0	0	0	#DIV/0!
13.4	Aggregate Impact Value (A.I.V)	IS: 2386 (P-4)	As required	2	2	0	0	0	0	2	2	0	0	0	0	#DIV/0!
13.5	Flakiness & Elongation (Fl & El)	IS: 2386 (P-1)	As required	2	2	0	0	0	0	2	2	0	0	0	0	#DIV/0!
13.6	Water Absorption	IS: 2386 (P-3)	As required	1	1	0	0	0	0	1	1	0	0	0	0	#DIV/0!
13.7	Moisture correction	IS: 2386 (P-3)	1 test / Day	2	2	0	0	0	0	2	2	0	0	0	0	#DIV/0!
13.8	Compressive Strength (07 day's)	IS: 516	07 days / Each Day 5 Cube's	11	11	0	4	4	0	15	15	0	1	1	0	25.00
(XIX). Pavement Quality Concrete (PQC)			MIX DESIGN	MoRT&H-600												
14.1	Gradation	Table 600-1	1 Test / Day	20	20	0	0	0	0	20	20	0	0	0	0	#DIV/0!
14.2	Aggregate Impact Value (A.I.V)	IS: 2386 (P-4)	As Required	2	2	0	0	0	0	2	2	0	0	0	0	#DIV/0!
14.3	Flakiness 7 Elongation (Fl & El)	IS: 2386 (P-1)	As Required	1	1	0	0	0	0	1	1	0	0	0	0	#DIV/0!
14.4	Water Absorption	IS: 2386 (P-3)	As Required	1	1	0	0	0	0	1	1	0	0	0	0	#DIV/0!
14.5	Slump Test	IS: 1199	1 Test Each Dumper	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14.6	Compressive Strength (07 day's)	IS: 516	Compressive Strength (07 day's)	6	6	0	0	0	0	6	6	0	0	0	0	#DIV/0!
14.7	Compressive Strength (28 day's)	IS: 516		6	6	0	0	0	0	6	6	0	0	0	0	#DIV/0!
14.8	Flexural Strength (07 day's)	IS: 516	As per Frequency 02 Beam's /150 Cum	6	6	0	0	0	0	6	6	0	0	0	0	#DIV/0!
14.9	Flexural Strength (28 day's)	IS: 516	(Min. 6 Beam's)	6	6	0	0	0	0	6	6	0	0	0	0	#DIV/0!

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THIRD PARTY TESTS (NABL ACCREDITED LABORATORY)															
(XX). Coarse Aggregates															
18.1	Gradation	IS: 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.2	Fl & El	IS: 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.3	Aggregate Impact Value	IS: 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.4	Specific Gravity	IS: 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.5	Water Absorption	IS: 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.6	Deleterious Content	IS: 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.7	L.A.V.	IS: 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.8	Alkali Aggregate Reactivity	IS: 2386 (P-7)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.9	Soundness	IS: 2386 (P-5)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.10	Petrographic Examination	IS: 2386 (P-8)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
18.11	Stone Polished Value	IS: 812 (P-114)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
(XXI). Fine Aggregates															
19.1	Gradation	IS: 383	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.2	Specific Gravity	IS: 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.3	Water Absorption	IS: 2386 (P-3)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.4	Deleterious Content	IS: 2386 (P-1)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.5	Silt Content	IS: 2386 (P-4)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.6	Alkali Aggregate Reactivity	IS: 2386 (P-7)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.7	Soundness	IS: 2386 (P-5)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.8	Organic Impurities	IS: 2386 (P-8)	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
19.9	Fineness Modulus	IS: 383	1 Test / Source	2	2	0	0	0	0	2	2	0	0	0	0.00
(XXII). TMT Bar's (Steel)															
20.1	Physical properties	IS: 1786	< 10mm - 1 sample/25 MT, 10-16mm- 1sample/35 MT,	6	6	0	0	0	0	6	6	0	0	0	0.00
20.2	Chemical properties	IS: 1786	> 16mm - 1 sample/45 MT	6	6	0	0	0	0	6	6	0	0	0	0.00
20.3	Factory Visit	IS: 1786	Elegant Steel Jointly	1	1	0	1	1	0	2	2	0	1	1	100.00
(XXIII). Construction Water															
21.1	Suitability for construction	IS: 456	1 Test Per Source / As Required	1	1	0	0	0	0	1	1	0	0	0	0.00
(XXIV). Chemical Admixture															
22.1	Physical & Chemical properties	IS: 9103	1 Test / Per Lot	2	2	0	0	0	0	2	2	0	0	0	0.00
(XXV). Cement (OPC-53 Grade)															
23.1	Physical & Chemical properties	IS: 8112	1 Test / Source	3	3	0	0	0	0	3	3	0	0	0	0.00
(XXVI). Soil - Borrow Area															
24.1	Mechanical	IS: 2720 (P-39)	1 Test / Source	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVII). NP-4 Hume Pipe Test															
25.1	600 MM	IS: 458	1 test per Lot /of 50 Pipes	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXVIII). Bitumen (Emulsion)															
26.1	Bitumen Emulsion SS-1	IS: 8887	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0.00
26.2	Bitumen Emulsion RS-1	IS: 8887	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXIX). Bitumen (VG-40)															
27.1	Bitumen VG-40	IS: 73	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXX). Bitumen (PMB)															
28.1	Bitumen PMB	IS: 15462-2019	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0.00
(XXXI). Curing Compound															
29.1	Physical & Chemical properties	ASTM C309	1 Test / Per Lot	0	0	0	0	0	0	0	0	0	0	0	0.00

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10.3.6 Lab Equipment List

LAB EQUIPMENT FOR ASSAM PKG-07			
SINO.	Description of Goods		Quantity
1	COA RSE SIEVES	45 C M DIA-GI-75.0 M M	2.0 No s
2	COA RSE SIEVES	45 C M DIA-GI-63.0 M M	2.0 No s
3	COA RSE SIEVES	45 C M DIA-GI-53.0 M M	2.0 No s
4	COA RSE SIEVES	45 C M DIA-GI-50.0 M M	2.0 No s
5	COA RSE SIEVES	45 C M DIA-GI-45.0 M M	2.0 No s
6	COA RSE SIEVES	45 C M DIA-GI-40.0 M M	2.0 No s
7	COA RSE SIEVES	45 C M DIA-GI-37.5 M M	2.0 No s
8	COA RSE SIEVES	45 C M DIA-GI-31.5 M M	2.0 No s
9	COA RSE SIEVES	45 C M DIA-GI-25.0 M M	2.0 No s
10	COA RSE SIEVES	45 C M DIA-GI-26.5 M M	2.0 No s
11	COA RSE SIEVES	45 C M DIA-GI-22.4 M M	2.0 No s
12	COA RSE SIEVES	45 C M DIA-GI-20.0 M M	2.0 No s
13	COA RSE SIEVES	45 C M DIA-GI-19.0 M M	2.0 No s
14	COA RSE SIEVES	45 C M DIA-GI-16.0 M M	2.0 No s
15	COA RSE SIEVES	45 C M DIA-GI-14.0 M M	2.0 No s
16	COA RSE SIEVES	45 C M DIA-GI-13.20 M M	2.0 No s
17	COA RSE SIEVES	45 C M DIA-GI-12.50 M M	2.0 No s
18	COA RSE SIEVES	45 C M DIA-GI-11.20 M M	2.0 No s
19	COA RSE SIEVES	45 C M DIA-GI-10.00 M M	2.0 No s
20	COA RSE SIEVES	45 C M DIA-GI-9.5 M M	2.0 No s
21	COA RSE SIEVES	45 C M DIA-GI-6.7 M M	2.0 No s
22	COA RSE SIEVES	45 C M DIA-GI-6.3 M M	2.0 No s
23	COA RSE SIEVES	45 C M DIA-GI-5.6 M M	2.0 No s
24	COA RSE SIEVES	45 C M DIA-GI-4.75 M M	2.0 No s
25	COA RSE SIEVES	45 C M DIA-GI-2.8 M M	2.0 No s
26	COA RSE SIEVES	45 C M DIA-GI-2.36 M M	2.0 No s
27	COA RSE SIEVES	45 C M DIA-GI-1.18 M M	2.0 No s
28	Lid & Pan	45 C M DIA-GI F r a m e -450 M M	2.0 No s
29	FINE SIEVES	20 C M DIA-B R A S S -10 M M	2.0 No s
30	FINE SIEVES	20 C M DIA-B R A S S -6.3 M M	1.0 No s
31	FINE SIEVES	20 C M DIA-B R A S S -5.6 M M	2.0 No s
32	FINE SIEVES	20 C M DIA-B R A S S -5.0 M M	1.0 No s
33	FINE SIEVES	20 C M DIA-B R A S S -4.75 M M	2.0 No s
34	FINE SIEVES	20 C M DIA-B R A S S -3.35 M M	1.0 No s
35	FINE SIEVES	20 C M DIA-B R A S S -2.80 M M	2.0 No s
36	FINE SIEVES	20 C M DIA-B R A S S -2.36 M M	4.0 No s
37	FINE SIEVES	20 C M DIA-B R A S S -2.0 M M	2.0 No s
38	FINE SIEVES	20 C M DIA-B R A S S -1.4 M M	2.0 No s
39	FINE SIEVES	20 C M DIA-B R A S S -1.7 M M	2.0 No s
40	FINE SIEVES	20 C M DIA-B R A S S -1.18 M M	2.0 No s
41	FINE SIEVES	20 C M DIA-B R A S S -1.0 0 M M	2.0 No s
42	FINE SIEVES	20 C M DIA-B R A S S -0.850 M M	2.0 No s
43	FINE SIEVES	20 C M DIA-B R A S S -0.7 10 M M	2.0 No s
44	FINE SIEVES	20 C M DIA-B R A S S -0.600 M M	4.0 No s
45	FINE SIEVES	20 C M DIA-B R A S S -0.500 M M	2.0 No s
46	FINE SIEVES	20 C M DIA-B R A S S -0.425 M M	2.0 No s
47	FINE SIEVES	20 C M DIA-B R A S S -0.355 M M	1.0 No s
48	FINE SIEVES	20 C M DIA-B R A S S -0.300 M M	4.0 No s
49	FINE SIEVES	20 C M DIA-B R A S S -0.2 12 M M	2.0 No s
50	FINE SIEVES	20 C M DIA-B R A S S -0.180 M M	2.0 No s

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51	FINE SIEVES	20 CM DIA-B RASS-0.150 MM	4.0 No s
52	FINE SIEVES	20 CM DIA-B RASS-0.125 MM	2.0 No s
53	FINE SIEVES	20 CM DIA-B RASS-0.090 MM	2.0 No s
54	FINE SIEVES	20 CM DIA-B RASS-0.075 MM	5.0 No s
55	FINE SIEVES	20 CM DIA-B RASS-0.045 MM	2.0 No s
56	Lid & Pan	20 C M DIA-B R A S S F r a m e -200 M	2.0 No s
57	Ele. Weight. B alance	50 Kg	3.0 No s
58	Ele. Weight. B alance	30 Kg	3.0 No s
59	Ele. Weight. B alance	15 Kg	2.0 No s
60	Ele. Weight. B alance	10 Kg	2.0 No s
61	Precision Ele. B alance	0.6 Kg	2.0 No s
62	Hot Oven Air	90*60*60 c m	1.0 No s
63	Length gauge		2.0 No s
64	flackiness Gauge		2.0 No s
65	A IV Machine		1.0 No s
66	Picno meter Bottle		2.0 No s
67	Vibrating Machine with Digital Timer & Mo uld		1.0 No s
68	Vicat Appratus Needle		1.0 No s
69	Glass Plate	450*450*8 m m	1.0 No s
70	Cube Mould	15 c m	80.0 No s
71	Cube Mould	7.06 c m	18.0 No s
72	Cube Mould	10 c m	18.0 No s
73	Slump Test with Tamping Rod		6.0 No s
74	Water Bath For Soundness		1.0 No s
75	Le-Chatlier Mould	s e t o f 6	1.0 No s
76	Gauging Trow el	150 m m	4.0 No s
77	Concrete Mixer		1.0 No s
78	Vibrating Table	100*100 cm	1.0 No s
79	MDD Mould	Standard 100 m m	4.0 No s
80	MDD Mould	M o d i f i e d 150 m m	2.0 No s
81	CBR Rammer	2.6kg	1.0 No s
82	CBR Rammer	4.89kg	4.0 No s
83	LL Device Hand Operated		1.0 No s
84	Cone Penetrometer		1.0 No s
85	Evapo rating B asin	150 m m	2.0 No s
86	CBR Load Frame		1.0 No s
87	CBR Mould Mild with collar & Base Plate	150 m m	24.0 No s
88	Surcharge weight	Annular (2.5 kg)	24.0 No s
89	Surcharge weight	Slo t t e d (2.5 kg)	24.0 No s
90	Perfo rated P late		24.0 No s
91	Spacer Disk		2.0 No s
92	Straight Edge	300 m m	2.0 No s
93	PL appratus		2.0 No s
94	RMM Digital w.t. B alance		4.0 No s
95	Sand Po uring Cylinder	100 m m	2.0 No s
96	Tray fo r Sand P ouring Cylinder		2.0 No s
97	Container for Sand Po uring Cylinder		2.0 No s
98	Sand Po uring Cylinder	150 m m	1.0 No s
99	Tray fo r Sand P ouring Cylinder		1.0 No s
100	Container for Sand Po uring Cylinder		1.0 No s

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

101	Sand Pouring Cylinder	200 m m	2.0 No s
102	Tray for Sand Po uring Cylinder		2.0 No s
103	Container for Sand Pouring Cylinder		2.0 No s
104	Moisture Cane	50m m	50.0 No s
105	Moisture Cane	75m m	70.0 No s
106	Moisture Cane	100m m	70.0 No s
107	Calcium carbide	500 gm.	10 B o ttle
108	Proving Ring	25KN	2.0 No s
109	Proving Ring	50KN	2.0 No s
110	Dial Gauge	0.01*25m m	4.0 No s
111	Measuring Tape	5 M etre	2.0 No s
112	Measuring Tape	30 M etre	2.0 No s
113	Sto p w atch		2.0 No s
114	Standard Sand (Grade-1)	25 Kg	5 B ags
115	Standard Sand (Grade-2)	25 Kg	5 B ags
116	Standard Sand (Grade-3)	25 Kg	5 B ags
117	Enamel Tray	600*450*50	6.0 No s
118	Enamel Tray	250mm	20.0 No s
119	GI Tray	1000*1000*100	2.0 No s
120	Enamel Tray	300*250*40	6.0 No s
121	Filter Paper for CBR	150 mm	10 P acket
122	Rubber Mallet		4.0 No s
123	Nylon Hammer		2.0 No s
124	Filter Paper for Marshell Test	100 mm	10 P acket
125	Measuring Cylinder B orosill	100 ml	20.0 No s
126	Measuring Cylinder P lastic	250 m l	2.0 No s
127	M easuring Cylinder Glass	250 m l	2.0 No s
128	Measuring Cylinder P lastic	500 m l	2.0 No s
129	Measuring Cylinder P lastic	1000 ml	2.0 No s
130	Vernier Caliver	300 m m	1.0 No s
131	Digital Thermo meter	Pen Type	2.0 No s
132	Rain Gauge		1.0 No s
133	Gas Stove Single Burner		2.0 No s
134	Hammer w ith Handle	500 gm.	4.0 No s
135	Chiesel	25*300 m m	4.0 No s
136	Density Spoon		4.0 No s
137	Finishing Trow el		10.0 No s
138	Mashinory Trow el		10.0 No s
139	Spade		2.0 No s
140	Shovel		2.0 No s
141	Round Hot Plate		1.0 No s
142	Wash B o ttle P lastic	500 m l	1.0 No s
143	Wash Bottle Plastic	1000 ml	1.0 No s
144	Ghamela GI		2.0 No s
145	Hydrometer	SG=1.0-1.5	2.0 No s
146	Density Hydrometer	SG=0.80-0.85	2.0 No s
147	Hand Gloves		5.0 No s
148	Hand Gloves Rubber		5.0 No s
149	Scoop		4.0 No s
150	Measuring Scoop	1000 ml	2.0 No s

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

151	Spatula		4.0 No s
152	Pneumatic Scooter Wheel	4.18 Cft	1.0 No s
153	Beam Mould	10*10*50 c m	9.0 No s
154	Cylindrical Mould	150*300 mm	3.0 No s
155	Marsh Cone Funnel		2.0 No s
156	PH Meter		2.0 No s
157	TDS Meter		2.0 No s
158	Hot Air Oven Digital	24*24 Inc h	1.0 No s
159	Hot Air Oven Thermostat	18*18 Inch	1.0 No s
160	Buoyancy Balance Apparatus		1.0 No s
161	Specific Gravity Apparatus		1.0Nos
162	Rebound Hammer		1.0Nos
163	DLC Hammer		1.0Nos

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

11.1 Outward Letter

Sr. No.	Letter No.	Date	Subject	To
1.	<u>MKCIL/ASSAM/PKG-07/665</u>	06-04-2026	Submission of Monthly Progress Report for the month of March-2026	TL (TASPL)
2.	<u>MKCIL/ASSAM/PKG-07/668</u>	07-04-2026	Submission of DRB and Arbitration Details – Sh. Rajiv Yadav, IASR.	GM (NHIDCL)
3.	<u>MKCIL/ASSAM/PKG-07/670</u>	09-04-2026	Submission of Project Video Recording	TL (TASPL)
4.	<u>MKCIL/ASSAM/PKG-07/676</u>	15-04-2026	Third party Balance Confirmation for the Audit of Financial Year 2025-26.	NHIDCL (RO-Guwahati)
5.	<u>MKCIL/ASSAM/PKG-07/680</u>	20-04-2026	Reminder regarding Delay in Providing Encumbrance-Free Right of Way (RoW) as per Article 10 of Concession Agreement.	TL (TASPL)
6.	<u>MKCIL/ASSAM/PKG-07/681</u>	20-04-2026	Submission of Company Profile & Credential of M/s Fibretron Composites Pvt Ltd for Source Approval of Glass-Fiber Reinforced Polymer (GFRP) Rebar	TL (TASPL)
7.	<u>MKCIL/ASSAM/PKG-07/682</u>	21-04-2026	Reg: "Notification of Achievement of Project Milestone-II	TL (TASPL)
8.	<u>MKCIL/ASSAM/PKG-07/687</u>	24-04-2026	Submission of Dynamic Pile Load Test Report	TL (TASPL)

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

9.	<u>MKCIL/ASSAM/PKG-07/691</u>	28-04-2026	Reg: "Re-Submission of Payment Milestone-V (5th) along with all mandatory supporting documents".	TL (TASPL)
10.	<u>MKCIL/ASSAM/PKG-07/693</u>	30-04-2026	Submission of Statutory Auditor Certificate in Compliance with Concession Agreement	GM (NHIDCL)

11.2 Inward Letter (NHIDCL & TASPL)

Sr. No.	Letter No.	Date	Subject	From
1	<u>TASPL-MAV/NH-37/MKCIL/2026/April/194</u>	10-04-2026	Review of Recommendation for release of Performance Security	TASPL
2	<u>TASPL-MAV/NH-37/PMU/2026/Apr/195</u>	11-04-2026	Submission of Monthly Inspection Report for the Month of March - 2026 (MIR No.11)	TASPL
3	<u>TASPL-MAV/NH-37/MKCIL/2026/April/196</u>	22-04-2026	Achievement of Project Milestone-II"	TASPL
4	<u>TASPL-MAV/NH-37/MKCIL/2026/April/197</u>	22-04-2026	(Regarding "No Breach" Condition under Article 9, Clause 9.3 of Concession Agreement)	TASPL
5	<u>TASPL-MAV/NH-37/MKCIL/2026/April/199</u>	28-04-2026	Payment during Construction period on Achievement of Payment Milestone-V). [Bill period from 17.02.2026 to 23.03.2026)	TASPL
6	<u>TASPL-MAV/NH-37/MKCIL/2026/April/185</u>	10-04-2026	Review and Resubmission of Plan & Profile	TASPL
6	<u>NHIDCL/PMU-Karimganj/MKC/SCPL/2025-26/714</u>	27-04-2026	Regarding Raising of RFI in Data Lake 3.0 Portal -reg	NHIDCL (PMU-Karimganj)
7	<u>NHIDCL/PMU-Karimganj/MKC/SCPL/2025-26/721</u>	30-04-2026	Submission of Statutory Auditor Certificate in compliance with Concession Agreement-reg.(Pkg-07)	NHIDCL (PMU-Karimganj)

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

**CHAPTER-12
NON-CONFORMANCE REPORT**

Sl. No.	NCR Letter reference no.	Date	NCR No.	Subject	Closure By letter No.	Date	Remarks
1	TAPSL-MAV/NH-37/MKCIL/2025/OCT/53	05.08.2025	1	Non-Compliance with Safety Norms at Ch. 12+800 to 13+500 (LHS).”	MKCIL/ASSAM/ PKG-07/336	22.08.2025	
2	TAPSL-MAV/NH-37/MKCIL/2025/OCT/91	10.10.2025	2	Non-Compliance with Safety Norms at Ch. 12+300 to 12+500 (LHS).”	MKCIL/ASSAM/ PKG-7/409	14.10.2025	

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

**CHAPTER-13
WEATHER REPORT**

Sl. no.	Date	Temperature (In °c)		Humidity (In %)		Rainfall (mm)	Weather Condition	Remarks
		Maximum	Minimum	Maximum	Minimum			
1	01-04-2026	25.9	24.7	80.0	76.0	44.20	Rainy	
2	02-04-2026	27.2	25.9	79.0	76.0	14.60	Rainy	
3	03-04-2026	28.1	25.2	77.0	74.0	54.80	Rainy	
4	04-04-2026	27.4	25.3	78.0	76.0	61.40	Rainy	
5	05-04-2026	27.3	24.1	77.0	70.0	31.60	Rainy	
6	06-04-2026	27.1	25.2	76.0	72.0	31.00	Rainy	
7	07-04-2026	26.1	23.8	71.0	63.0	14.40	Rainy	
8	08-04-2026	26.1	25.0	75.0	66.0	0.00	Cloudy/Sunny	
9	09-04-2026	25.5	24.0	75.0	68.0	2.60	Rainy	
10	10-04-2026	25.7	22.5	76.0	67.0	26.20	Rainy	
11	11-04-2026	27.3	25.1	75.0	70.0	2.20	Cloudy/Rainy	
12	12-04-2026	26.1	24.7	76.0	73.0	62.40	Rainy	
13	13-04-2026	27.7	25.8	76.0	74.0	0.00	Cloudy/Sunny	
14	14-04-2026	27.1	25.1	77.0	74.0	78.40	Rainy	
15	15-04-2026	28.1	26.1	76.0	71.0	3.40	Cloudy/Rainy	
16	16-04-2026	29.2	27.1	76.0	72.0	0.00	Sunny	
17	17-04-2026	28.5	27.4	76.0	73.0	9.40	Cloudy/Rainy	
18	18-04-2026	28.1	26.6	77.0	72.0	24.40	Rainy	
19	19-04-2026	27.8	26.1	79.0	74.0	17.40	Rainy	
20	20-04-2026	27.3	24.9	76.0	71.0	85.00	Rainy	
21	21-04-2026	26.7	25.1	76.0	69.0	33.80	Rainy	
22	22-04-2026	27.6	25.1	75.0	66.0	7.40	Cloudy/Rainy	
23	23-04-2026	29.9	27.5	79.0	75.0	0.00	Sunny	
24	24-04-2026	30.5	28.4	79.0	76.0	0.00	Sunny	
25	25-04-2026	27.3	26.3	78.0	70.0	31.20	Rainy	
26	26-04-2026	25.7	23.9	78.0	75.0	35.20	Rainy	
27	27-04-2026	23.7	23.3	82.0	80.0	93.90	Rainy	
28	28-04-2026	24.1	23.4	82.0	79.0	8.40	Rainy	
29	29-04-2026	23.9	23.4	83.0	81.0	8.60	Rainy	
30	30-04-2026	25	24.3	84.0	81.0	0.00	Sunny	

Rainfall Data				
Sr.no.	Description	Total Rainfall	Up to previous month	This month
1	Rainfall	9217.6	8435.7	781.9

The maximum & minimum weather records are summarized below:

TEMPERATURE/ RAINFALL PERIOD: 1 st April, 2026 to 31 th April, 2026				
Temperature		Rainfall		
Maximum (in °C)	Minimum (in °C)	Maximum (in mm)	Minimum (in mm)	Total Days
30.5	22.5	93.9	0	24

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

**CHAPTER-14
ACCIDENT REPORT**

NIL

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-15

ROAD MAINTENANCE & SAFETY REPORT

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

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

CHAPTER-16

PROJECT PROGRESS PHOTOGRAPHS



Soil Dozing Work At Ch- 12+960 Rhs



Settlement road maintenance GSB & DLC Rolling Work

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



ROB P1(BHS)- Pile Cap Concrete Pouring



ROB P2(RHS)- Pile Cap Concrete Pouring

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



TOE WALL Concrete Pouring



MJB- GIRDER Concrete Pouring Ch-02+893

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



MJB PSC GIRDER-06 Stressing Ch- 00+526



MNB- RAFT Steel Reinforcement Ch- 09+003

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.

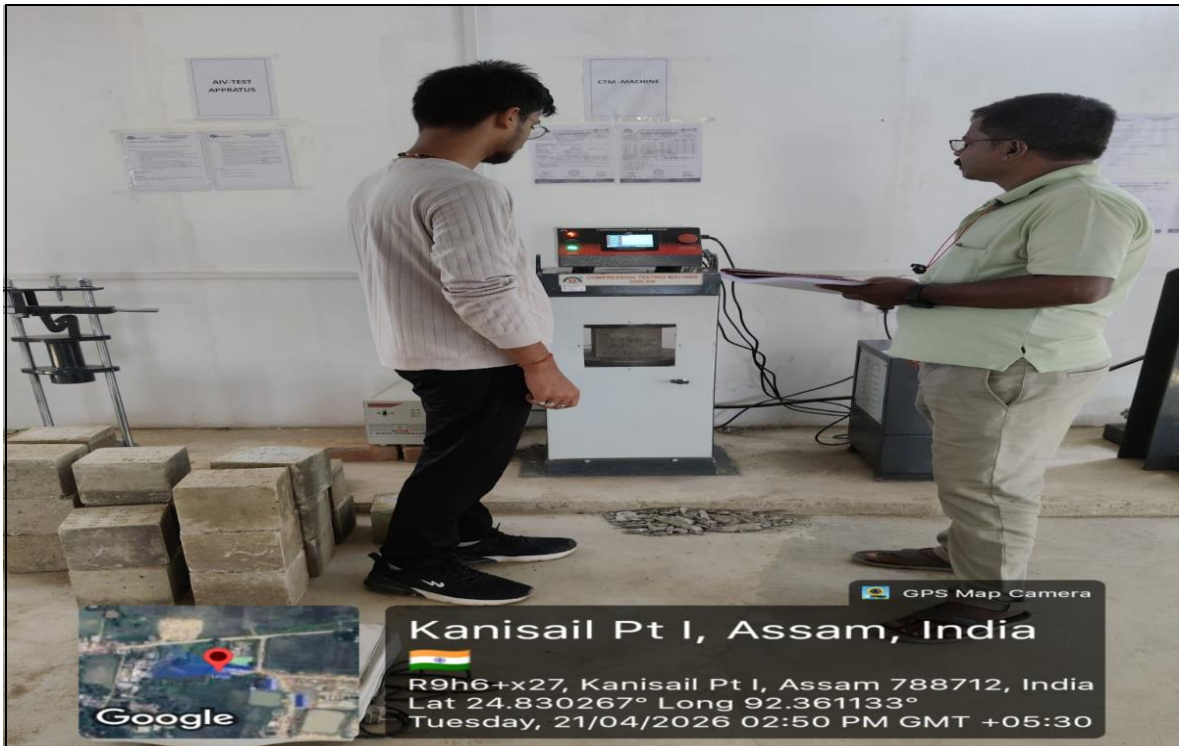


Retaining Wall Excavation Ch- 04+400



Sand Gradation & Aggregate Gradation

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



CUBE TESTING



DLC FDD Test

4-L of NH 37 from design Ch 0+020 on NH-8 near Karimganj to design Chainage 14+380 near Sutarkandi (Spur Connectivity to Indo/Bangladesh Border) Silchar-Churaibari Pkg-7 in the State of Assam on HAM mode.



BUP- 1ST Lift Concrete Pouring Ch- 04+534



RETAINING WALL- RAFT Concrete Pouring Ch - 04+388