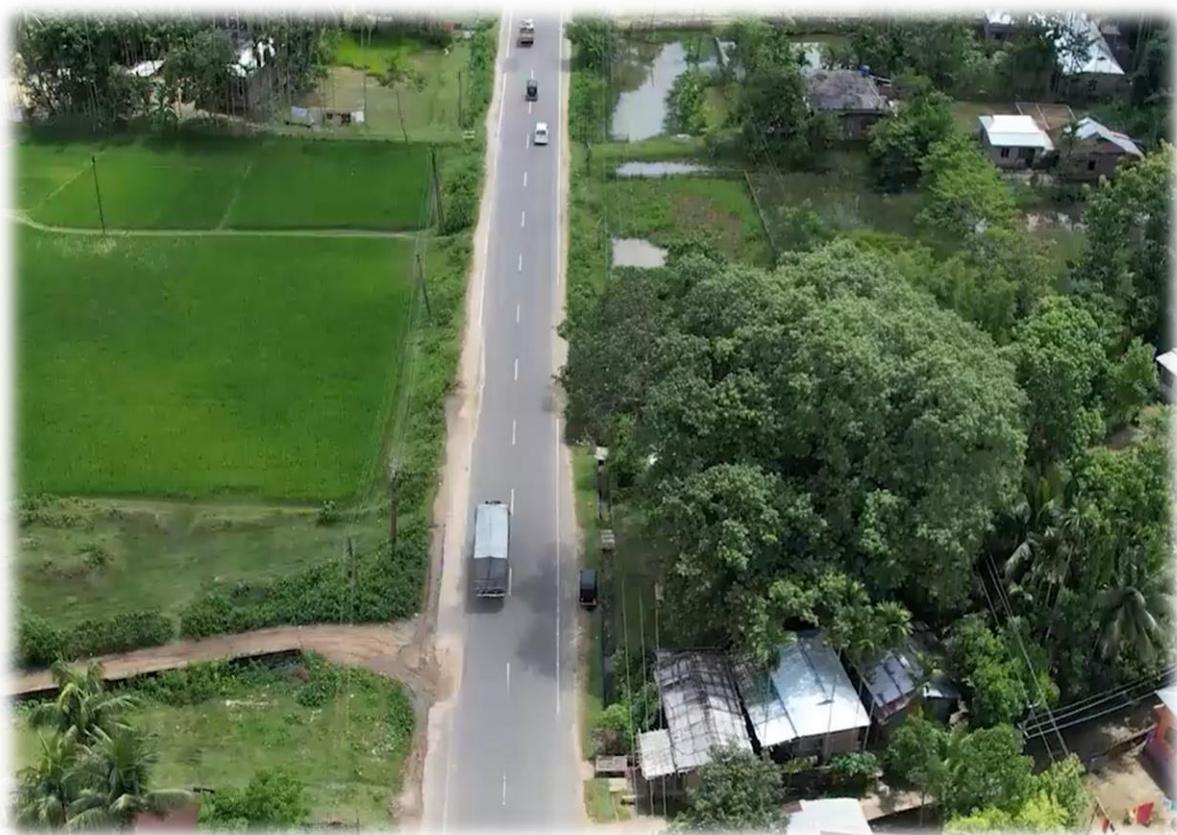


Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Monthly Progress Report

December-2025



Authority		National Highways Authority of India
Independent Engineer		Lion Engineering Consultants Pvt. Ltd.
Concessionaire		MKC Gyaraspur Rahatgarh Mahakaleswar Highways Private Limited.

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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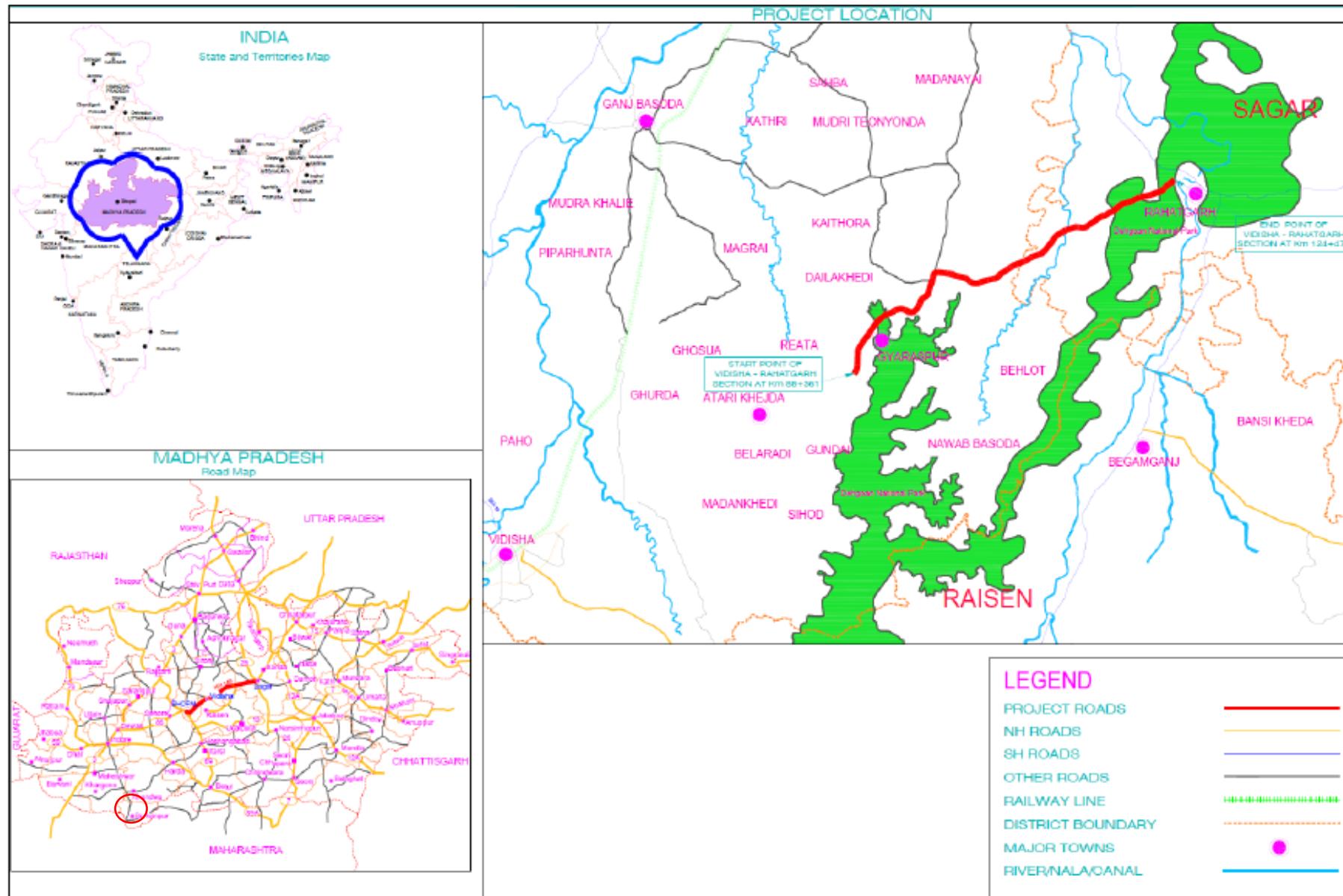
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PROJECT ROAD LOCATION MAP / INDEX MAP



Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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EXECUTIVE SUMMARY

The Concessionaire has signed the Concession Agreement with National Highways Authority of India (NHAI) on dated Mar 10, 2025. This Executive Summary presents the works progress of the Project Highway during the construction period from Nov 6, 2025 to Nov 6, 2027.

1. The Project Road:

Four Laning of section NH-146 from Design 88+361 (existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

2. Mobilization:

The Concessionaire has mobilized the required Engineers/ Staff Personnel, Machineries/Equipment's, Plants and established main Base Camp at CH: - 103+100 RHS (Taravali).

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

3. Pre-Construction Activity:

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

4. EPC Contractor:

MKC Infrastructure Limited

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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

6. Design and Drawing

The status of approval of Working Drawings for road works and structures submitted to Authority as on dated 31-12-2025 is given below.

Sr. No.	Description	UoM	Scope	Submitted	Approved	Balance	Remarks
1.	Plan & Profile (MCW)	Km.	36.109	36.109	16.350	19.759	
2.	Plan & Profile (SR)	Km.	24.432	24.432	2.000	22.432	
3.	RS Wall D & D	Nos.	14	12.00	0.00	2.00	
4.	Minor Bridge	Nos.	06.00	05.00	5.00	01.00	
5.	Underpass	Nos.	14.00	14.00	14.00	0.00	
6.	Culvert	Nos.	65.00	02.00	0.00	63.00	

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

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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7. Work Program:

At the time of commencement of works, the Concessionaire submitted the Stage wise completion schedule Work Program Vide Letter No. MKC/MP/GYARASPUR,236 dated 20.11.2025 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 MKC/MP/GYARASPUR/PKG-04/42 on dated 16.07.2025. Each construction activity is being checked/verified as per the RFI's submitted to Authority/ IE by the Concessionaire.

9. Supervision and Monitoring of Project works:

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

10. Site Visit and Meeting:

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

11. Schedule Completion Date:

As per Schedule-G of the Concession Agreement shall occur on the 730th day from the Appointed Date. The declared Appointed Date being Nov 6, 2025, the Scheduled completion Date shall occur on Nov 6, 2027.

12. Operation and Maintenance (O&M):

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

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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

Procurement of ROW- The existing ROW and the stretches of 36.109 km. are subjected to following:

a) Stretches/ Hindered Free Land 19.004 Km out of 36.109 Km:

Stretches/ Encumbrances Free Land				Encumbrances/ Hindered Land		
Sr. No.	Side	Length (Km)	%	Side	Length (Km)	%
1.	BHS	19.004	53.00%	BHS	17.105	47.00%

b) Encumbrances due to Religious structures etc.:

Sr. No.	Types	Chainage	Side	Remarks
1.	TEMPLE+WELL+WATER STORAGE TANK	90+240	LHS	
2.	TEMPLE GATE	92+840	LHS	
3.	TEMPLE+HAND PUMP+BOREWELL +TOILET	96+480	RHS	
4.	TEMPLE	101+522	RHS	
5.	TEMPLE+BOREWELL	112+595	LHS	
6.	TEMPLE	113+160	RHS	
7.	TEMPLE	113+435	LHS	
8.	TEMPLE	117+860	LHS	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-1

INTRODUCTION

General

The National Highways Authority of India (NHAI) proposes to implement the development, maintenance, and management of the Gyaraspur–Rahatgarh section of NH-146 from Design Chainage Km 88+361 (existing chainage Km 110+315 near Gyaraspur) to Design Chainage Km 124+470 (existing chainage Km 148+180 near Rahatgarh) into a 4-lane access-controlled corridor. The total design length of the project is 36.109 km.

The proposed project aims to improve connectivity within Madhya Pradesh, reduce travel time, and enhance regional economic growth. This corridor will also strengthen the national highway network, ensuring efficient movement of goods and passengers across the state.

To achieve this objective, NHAI has appointed M/s MKC Gyaraspur Rahatgarh Mahakaleshwar Highways Private Ltd, as the Concessionaire under the Hybrid Annuity Mode (HAM). The Letter of Acceptance was issued vide reference MPDIV-21020/3/2024-MP Division (E-file No.254095) dated 09.01.2025, and the Concession Agreement was signed on 10.03.2025.

The project will be executed in accordance with the provisions of the Contract Agreement and relevant specifications, ensuring compliance with quality, safety, and environmental standards..

Project Overview

“The proposed project involves four-laning of NH-146 from Design Chainage km 88+361 (near Gyaraspur, existing km 110+315) to Design Chainage km 124+470 (near Rahatgarh, existing km 148+180), covering a design length of 36.109 km. The alignment lies in the state of Madhya Pradesh and is being executed under NHAI on Hybrid Annuity Mode.”.

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-2

2. Summary of Project

Summary of Progress for December - 2025

Initially, the work was allotted to M/s. MKC Gyaraspur-Rahatgarh (Pkg-4) Gyaraspur Rahatgarh Mahakaleshwar Highway Pvt.Ltd. at the project cost of 536.61 Cr. Appointed date is 06th Nov 2025 and schedule date of completion of construction is 06th Nov 2027 (with 730 days construction period).

The Concessionaire has started the work. Cumulative physical progress including the work done is 6.12%.

CONTRACT DATA

Sr. No.	Items	Description
1.	Name of Project	Four Laning of section NH146 from Design 88+361 existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length 36+109 km) under NH (O) in the State of Madhya Pradesh on Ham Mode.
2.	Project Length	36.109 km
3.	Project Bid Cost	536.61 Cr.
4.	Authority	National Highways Authority of India
5.	Independent Engineer	Lion Engineering Consultants Pvt. Ltd.
6.	Concessionaire	MKC Gyaraspur Rahatgarh Mahakaleshwar Highways Private Limited
7.	Design Consultant	MKC Infrastructure Ltd.
8.	DPR Consultant	Stup Consultants Pvt. Ltd.
9.	LOA No. & Date	MPDIV-21020/3/2024-MP Division (E file no. 254095) dated 09.01.2025
10.	Date of Concession Agreement	Mar 10, 2024
11.	Appointed Date	Nov 6, 2025
12.	Construction Period	730 days (from Appointed Date) [24-Months]
13.	Schedule Completion Date	Nov 6, 2027
14.	O&M Period	15 Years from the date of COD

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Project Milestone	
15	Milestone- I The Project Milestone-I shall occur on the date falling on the 180 th (two hundred and fifty sixth) day from the Appointed Date (i.e., May 5, 2026)- (The concessionaire shall have expended not less than 20% of the total capital cost set forth in the Financial Package and the Concessionaire shall have commenced construction of the Project and achieved 20% Physical Progress)
	Milestone- II 360 th Day from Appointed Date (i.e., Nov 01, 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 550 th Day from Appointed Date (i.e., May 10, 2027) (The concessionaire shall have commenced construction of all Project Facilities and expended not less than 75% of the total capital cost set forth in the Financial Package and the concessionaire shall have commenced construction of the Project and achieved 75% Physical Progress).
	Scheduled Completion Date 730 th Day from Appointed Date (i.e., Nov 6, 2027) The concessionaire shall have completed the Project in accordance with the Concession Agreement.

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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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	GSB	Geogrid	WMM	DBM	BC
MCW	88+361	124+470	36.109	500.00	200.00		200.00	60.00	40.00
				Sub-Grade	GSB	Geogrid	WMM	DBM	BC
Service Road				500.00	200.00		215.00	00.00	30.00

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

Sr. No.	Description		Unit	As per CA	Remarks
1.	Minor Bridge	Reconstruction	Nos.	0	
		Retained and Widened	Nos.	3	
		New Construction	Nos.	3	
2.	VUP		New Construction	Nos.	2
3.	LVUP		New Construction	Nos.	12
4.	Box Culvert	Reconstruction	Nos.	26	
		Widening	Nos.	0	
		New Construction	Nos.	39	
5.	Hume Pipe Culvert	Widening	Nos.	0	
		Cross Road	Nos.	0	
6.	Major Junction			Nos.	13.00
7.	Minor Junction			Nos.	17.00
8.	Thrie-beam Single faced metal crash barrier			Rmt.	63668.4
9	Concrete Single forced barriers.			Rmt.	24432.00
10.	Trapezoidal Drain			Rmt.	340.00

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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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 5- Minor Bridge, 14- Underpasses, 93- Culverts.
- Construction of Service Road of 24.430 Km (L)

4.2 Project Facilities

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

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

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER -5

PRE-CONSTRUCTION ACTIVITIES

5.1 Obligations

Obligations of Authority-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 4.1.2	Condition Precedent	Done	
2	Article 11	Utilities, Associated Roads and Trees	Done	
3	Clause 18.1.2	Safety Consultant	TBA	
4	Article 21	Appointment of Independent Engineer	Appoint	.
5	Clause 10.3	Joint Memorandum	Done	06.11.2025

Obligations of Concessionaire-

Sr. No.	Clause No.	Obligation	Status	Remark/ Reference
1	Clause 9.1	Performance Security	Done	
2	Article 11	Shifting and Relocation Electrical Utilities	In Progress	
3	Article 26	Insurance	Done	
4	Clause 4.1.3 (Schedule-E)	Applicable Permits	Done	
5		A permission of State Govt. for boulders extraction	Done	
6		Permission of Village Panchayet and Pollution Board for installation of crushers	Done	
7		License for use of explosives	In Progress	
8		Permission of the State Govt. from drawing water from river/ reservoir	N/A	
9		Any other permits or clearance	In Process	
10		Labour Licence	Done	
11	Clause 12.1	Quality Assurance Plan	Submit	MKC/MP/GYARASPUR/042 dt. 16.07.2025
11		Construction Methodology	Submit	MKC/MP/GYARASPUR/196 dt. 08.11.2025

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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5.2 Shifting of Utilities

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

Sl. No.	Utility/ Hindrance Type	Unit	Qty	Remarks
1.	Shifting of Transformer	Nos.	08.00	
2.	HT/ LT lines (33Kv , 11 Kv & LT)	Km	18.60	
3.	HT/ LT crossing	Nos.	57.00	
4.	Hand Pump	Nos.	10.00	
5.	Water Pipeline	Km	3.37	
6.	Water Pipeline Crossing	Nos.	5.00	

5.3 Tree Cutting

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

Sr. No.	Description	Total	Remarks
1.	Total Number of Trees	691.00	
2.	Total Felling of Trees	230.00	
3.	Balance Trees	461.00	

5.4 Land Acquisition

The detailed working of Existing ROW, Proposed ROW and Land to be Acquired along the project highway are submitted by NHAI vide Joint Handover Memorandum on dated 4th Nov 2025.

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

HINDRANCE LIST – CHAINAGE WISE DETAILS

S.NO.	CHAINAGE	SIDE	DESCRIPTION	REMARKS
1	88+580	RHS	Agriculture land	
2	89+065	LHS	Well	
3	89+145	RHS	HOUSE	
4	89+190	LHS	HOUSE+TEEN+BOREWELL	
5	89+200	LHS	HOUSE+TEEN	
6	89+210	LHS	HOUSE+TEEN	
7	89+220	LHS	HOUSE	
8	89+325	RHS	HOUSE	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9	89+750	RHS	HOUSE (Wall)	
10	89+875	RHS	HOTEL TEEN ROOF	
11	90+200	LHS	TEMPLE OPEN WELL	
12	90+200	RHS	Agriculture land	
13	90+240	LHS	TEMPLE+WELL+WATER STORAGE TANK	
14	90+490	RHS	Agriculture land	
15	90+700	RHS	HAND PUNP	
16	90+760	RHS	HOUSE+BORE WELL	
17	90+880	RHS	HOUSE+TEEN	
18	90+900	LHS	Agriculture land	
19	90+890	RHS	HOUSE TEEN ROOF	
20	91+895	LHS	WELL	
21	92+840	LHS	TEMPLE GATE	
22	92+905	LHS	HAND PUNP	
23	94+100	BHS	Agriculture land	
24	96+480	RHS	TEMPLE+HAND PUMP+BOREWELL +TOILET	
25	98+500	LHS	Agriculture land	
26	98+500	RHS		
27	98+820	LHS	Agriculture land	
28	99+380	LHS	Agriculture land	
29	99+650	CENTER	HOUSE	
30	99+750	LHS	OLD HOUNSE + BORE WELL	
31	100+120	LHS	HOTEL	
32	100+250	LHS	Agriculture land	
33	100+355	LHS	HOUSE & SHOP	
34	100+555	LHS	HOUSE	
35	100+750	LHS	shop	
36	100+890	LHS	BORE WELL	
37	101+100	LHS	Agriculture land	
38	101+230	LHS	HOTEL	
39	101+260	LHS	HOTEL	
40	101+522	RHS	TEMPLE	
41	102+260	LHS	BORE WELL	
42	103+500	BHS	Agriculture land	
43	103+930	LHS	Well	
44	104+530	CENTER	Well	
45	105+000	BHS	Agriculture land	
46	105+880	RHS	HOUSE	
47	105+900	RHS	HAND PUNP	
48	106+515	LHS	HOUSE+SHOP THATCHED ROOF	
49	106+590	LHS	BOREWELL	
50	106+650	RHS	MUD HOUSE TEEN ROOF	
51	106+660	LHS	BOREWELL	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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52	106+720	LHS	HOUSE	
53	107+000	RHS	Agriculture land	
54	107+040	RHS	HOUSE TEEN ROOF	
55	107+080	RHS	HOUSE	
56	107+110	LHS	HOUSE	
57	107+940	RHS	Petrol Pump	
58	108+540	RHS	DHARAMSHALA	
59	108+600	LHS	Agriculture land	
60	109+400	LHS	Agriculture land	
61	109+780	RHS	VILLAGE ENTRY GATE	
62	110+300	LHS	Agriculture land	
63	111+000	LHS	Agriculture land	
64	112+330	RHS	HOUSE	
65	112+380	RHS	HOUSE	
66	112+535	LHS	HOUSE+BOREWELL	
67	112+555	LHS	HOUSE	
68	112+595	LHS	TEMPLR+BOREWELL	
69	112+640	LHS	HOUSE+BOREWELL	
70	113+160	RHS	TEMPLE	
71	113+435	LHS	TEMPLE	
72	113+700	BHS	Agriculture land	
73	113+920	BHS	Agriculture land	
74	114+605	RHS	WELL	
75	114+680	LHS	WELL	
76	114+750	RHS	WELL	
77	114+825	LHS	WELL	
78	115+050	RHS	WELL	
79	115+680	LHS	WELL	
80	116+100	RHS	Agriculture land	
81	116+290	LHS	HOTEL	
82	116+760	RHS	HOUSE	
83	116+790	RHS	HOUSE+BOREWELL	
84	116+875	CENTER	HOUSE TEEN ROOF	
85	116+955	LHS	HOUSE	
86	117+200	BHS	Agriculture land	
87	117+350	LHS	TEMPLE	
88	117+840	BHS	TEMPLE	
89	117+915	RHS	FOREST CHOWKI	
90	121+190	RHS	WELL	
91	91+520 to 94+100	BHS	Forest Area	Stage 1st approved
92	94+880 to 98+380	BHS	Forest Area	Stage 1st approved
93	102+740 to 103+490	BHS	Forest Area	Stage 1st approved
94	117+895 to 120+410	BHS	Forest Area	Stage 1st approved

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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95	122+670 to 124+470	BHS	Forest Area	Stage 1st approved
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CHAPTER -6

MOBILIZATION

6.1 Manpower Mobilization of Concessionaire

Sr. No.	Name	Designation	Department	Remark
1	Ms. D.S. Foujdar.	Project Manager	Project Execution	
2	Rajesh Panda	Asst. Manager	HR/Admin	
3	Mukesh Sharma	Senior Executive	HR/Admin	
4	Sudhir Sharma	Executive	HR/Admin	
5	Naveen Singh Bisht	Supervisor	HR/Admin	
6	Purushottam Singh	Sr. Surveyor	Survey	
7	Sandip Rana	Sr. Surveyor	Survey	
8	Jugendra Singh	Sr. Surveyor	Survey	
9	Akash	Engineer	Survey	
10	Kamal Singh	Surveyor	Survey	
11	Bhuri Singh	Surveyor	Survey	
12	Suneel Kumar	Surveyor	Survey	
13	Umesh Rawat	Asst. Surveyor	Survey	
14	Pankaj Gupta	Dy. Manager	Liaison	
15	Ajay Kumar Kurmi	Supervisor	Liaison	
16	Laxman Singh Karki	Manager	QA/ QC	
17	Kaushal Kishore Sharma	Manager	QA/ QC	
18	Alok Kumar Singh	Engineer	QA/ QC	
19	Anurag Tiwari	Engineer	QA/ QC	
20	Braj Kishor	Lab Technician	QA/ QC	
21	Shashikant Giri	Lab Technician	QA/ QC	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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22	Bhupendra Singh	Lab Technician	QA/ QC	
23	Yogendra Singh	Jr. Lab Technician	QA/ QC	
24	Bhoodev	Asst. Manager	Highway	
25	Vishvendra Singh	Sr. Engineer	Highway	
26	Saurabh Singh	Sr. Engineer	Highway	
27	Amit	Engineer	Highway	
28	Ajay Singh	Engineer	Highway	
29	Krishnaveer Singh Rawat	Engineer	Highway	
30	Vishnu Kumar	Jr. Engineer	Highway	
31	Kanjibhai Lakhbhai rabari	Sr. Supervisor	Highway	
32	Rohit Kumar Pundhir	Supervisor	Highway	
33	Than Singh	Supervisor	Highway	
34	Laxmi Shankar Dubey	Supervisor	Highway	
35	Samar dey	Deputy Project Manager	Structure	
36	Himanshu Singh	Asst. Manager	Structure	
37	Mahendra Singh Rawat	Sr. Engineer	Structure	
38	Mohit	Engineer	Structure	
39	Kamal Prasad	Engineer	Structure	
40	Nishant Singh	D.E. T	Structure	
41	Ravindra Singh	Asst. Manager	Planning & Billing	
42	Vishwajeet Vishwakarma	Engineer	Planning & Billing	
43	Pavan Santosh Pareek	Senior Executive	F & A	
44	Ashish Raj	Asst. Account	F & A	
45	Sunil Kumar Singh	Sr. Executive	Store	
46	Shivam Tiwari	Executive	Store	
47	Ravindra Singh	Diesel Supervisor	Store	
48	Vibhant Singh	Supervisor	Store	
49	Badr Inath Pandey	Supervisor	Store	
50	Prashant De	Sr. Engineer	Mechanical	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

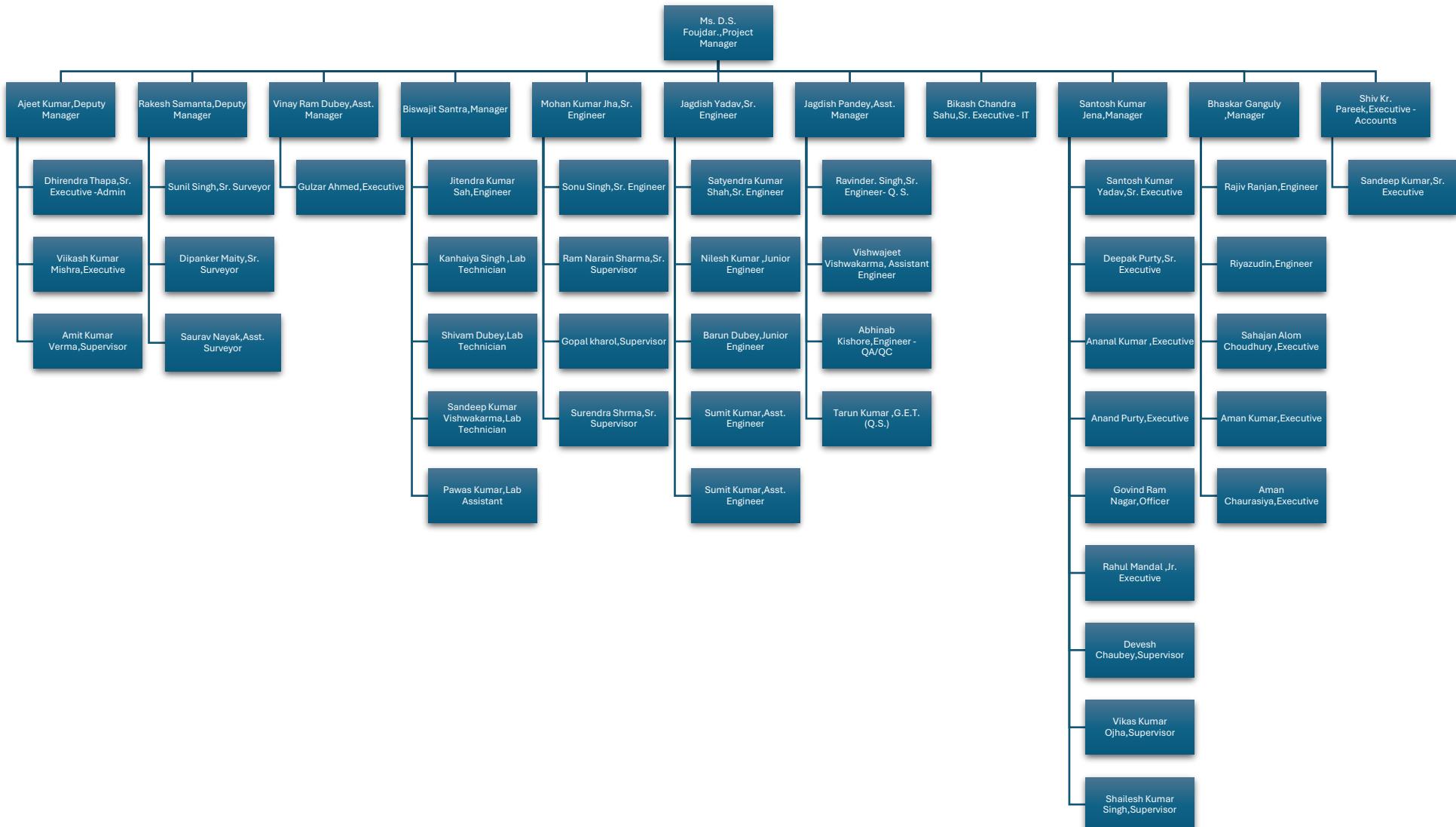
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51	Saurabh Pandey	Electrical- Engineer	Mechanical	
52	Ashok Kumar Meena	Sr. Executive	Mechanical	
53	Krishna Kumar	Executive	Mechanical	
54	Shubham Kumar	Executive	Mechanical	
55	Mahesh Kumar	Fleet Incharge	Mechanical	
56	Sunil Kumar	Supervisor	Mechanical	
57	Nanak Chand	Supervisor	Mechanical	
58	Praveen Kumar	Engineer - IT	IT	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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6.2 Organization Chart of Concessionaire



Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-7

DEPLOYMENT OF PLANTS AND EQUIPMENT / PROJECT SET UP PLAN

7.1 Plants and Equipment Deployed

Sr.N o.	Equipme nt Number	Category of Machinery	Description of Technical Object	Manufacture r of Asset	Model	Rema rk
1	BHL006 0	BACKHOE LOADER	GJ39C1770#BACKHOE LOADER 770 NXE-2W	CASE	770 NXE PLUS- 2WD	
2	BHL006 1	BACKHOE LOADER	GJ39C1593#BACKHOE LOADER 770 NXE-2W	CASE	770 NXE PLUS- 2WD	
3	BHL002 0	BACKHOE LOADER	UK07FH6985#JCB BACKHOE LOADER 3DX PLUS	JCB	3DX PLUS- 2WD	
4	BYR002 1	MINI ROLLER	GJ12CM7694#DYNAPAC MINI ROLLER CC125	DYNAPAC	CC125	
5	CBM000 9	RE BLOCK PLANT	250133#APOLLO ZENITH CONCRETE BLOCK PLANT	APOLLO ZENITH	ZN 600 RB	
6	NEW	RE BLOCK PLANT				
7	CRP0044	CRUSHER	3092/1543/1077#PROPEL FIX CRUSHER 350TPH	PROPEL		
8	CRP0030	CRUSHER	918/3869#PUZ SKID MOUN CRUSHER PLANT200T	PUZZOLAN A	PVSI840 & PMVS1860	
9	CBP0041	CONCRET E PLANT	250002#CONCRETE PLANT APOLLO ATP#30	APOLLO	ATP-30 ZN PLC	
10	CBP0022	CONCRET E PLANT	FBPC230049#CONCRETE PLANT#KYB CONMAT#450	KYB CONMAT	CRP 450IL4	
11	CBP0044	CONCRET E PLANT	FBPC260051#CONCRETE PLANT#KYB CONMAT#450	KYB CONMAT	CRP 450 IL4	
12	CSI0022	CEMENT SILO	CEMENT SILO#INDOTEX#150MT	INDOTEX EQUIPMEN TS	150MT	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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13	CSI0023	CEMENT SILO	CEMENT SILO#INDOTEX#150MT	INDOTEX EQUIPMEN TS	150MT	
14	CSI0040	CEMENT SILO	CEMENT SILO#KAMAL ENTERPRISES#150MT	KAMAL ENTERPRIS ES	150MT	
15	CSI0083	CEMENT SILO	CEMENT SILO#INDOTEX#150MT	INDOTEX EQUIPMEN TS	150MT	
16	NEW	CEMENT SILO				
17	NEW	CEMENT SILO				
18	RBR001 1	ROCK BREAKER	F23G3600#HYDRAULIC ROCK BREAKER 23X	FINE	23X PLUS	
19	DTA003 1	DIESEL TANKER	GJ39T8016#DIESEL DISPENSER ECOMET 1015	ASHOK LEYLAND	ECOMET 1015	
20	NEW	SERVICE VAN	GJ39TA5251#MOBILE SERVICE VAN SV 07	ASHOK LEYLAND	CA1215/42 H CC	
21	WMP000 7	WMM PLANT	2105502#MAXMECH WMM PLANT MWMP-250	MAXMECH	MWMP-250	
22	EXC007 4	EXCAVATOR	006073#HYUNDAI EXC R215LSMARTPLUS	HYUNDAI	R215L SMART PLUS	
23	EXC007 5	EXCAVATOR	0006131#HYUNDAI EXC R215LSMARTPLUS	HYUNDAI	R215L SMART PLUS	
24	EXC012 0	EXCAVATOR	0060212#HYUNDAI EXC R215LSMARTXPLUS	HYUNDAI	R215L SMART X PLUS	
25	EXC001 4	EXCAVATOR	GJ12CM1432#HYUNDAI EXCAVATOR 215LC-7	HYUNDAI	R 215 LC-7	
26	EXC012 1	EXCAVATOR	60174#HYUNDAI EXCAVATOR R215L SMART PLUS	HYUNDAI	R215L SMART X PLUS	
27	GEN014 2	GENSET 25KVA	3H.8322/2121764#KIRLOSKA R GENSET 25KVA	KIRLOSKA R	25 KVA	
28	NEW	GENSET 25KVA	51544#EICHER GENSET 25 KVA	AJASHY	329A0-EG025	
29	GEN017 7	GENSET 125 KVA	GPE 2932#KIRLOSKAR GENSET 125 KVA	KIRLOSKA R	125 KVA	
30	GEN022 9	GENSET 140 KVA	6H.8306.PB23200#KIRLOSKAR GENSET 140KVA	KIRLOSKA R	140 KVA	
31	MTL000 4	TOWER LIGHT	0473#OLIKARA TOWER LIGHT Qube Power	OLIKARA	QUBE POWER	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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32	LMV011 2	BOLERO	GJ12EE2289#MAHINDRA BOLERO SLE	MAHINDRA	BOLERO POWER+ SLE	
33	LMV015 1	BOLERO	GJ18BN8685#MAHINDRA BOLERO B6 BSVI	MAHINDRA	BOLERO B6 BSVI	
34	LMV012 8	BOLERO	GJ12EE3201#MAHINDRA BOLERO B4 BSVI	MAHINDRA	BOLERO B4 BSVI	
35	LMV017 6	BOLERO CAMPER	GJ18BP7780#MAHINDRA BOLERO CAMPER GOLDZX	MAHINDRA	CAMPER GOLDZX BS6	
36	LMV023 4	BOLERO CAMPER	GJ18EB6209#MAHINDRA BOLERO CAMPER#ZX 2WD	MAHINDRA	CAMPER GOLDZX BS6	
37	LMV022 0	BOLERO CAMPER	GJ18EB2172#MAHINDRA BOLERO CAMPER#ZX 2WD	MAHINDRA	CAMPER GOLDZX BS6	
38	LMV021 6	BOLERO CAMPER	GJ18EA3720#MAHINDRA BOLERO CAMPER#ZX 2WD	MAHINDRA	CAMPER GOLDZX BS6	
39	LMV028 5	PICK-UP	MP04YR6940#MAHINDRA PICK-UP	MAHINDRA	BOL MAXX PUP HD 1.7L LX	
40	MCL009 6	MOTOR CYCLE	GJ06NA5506#BAJAJ MOTOR CYCLE CT110ES BS6	BAJAJ	CT 110 ES BS6	
41	MCL023 9	MOTOR CYCLE	MP40ZH7247#HERO MOTOR CYCLE #HF DELUXE	HERO	HF DELUXE	
42	MCL024 0	MOTOR CYCLE	MP40ZH7215#HERO MOTOR CYCLE #HF DELUXE	HERO	HF DELUXE	
43	MCL018 0	MOTOR CYCLE	UK07FL6321#TVS MOTOR CYCLE #TVS SPORT	TVS	TVS SPORT	
44	MCL019 8	MOTOR CYCLE	UK07FP8085#HERO MOTOR CYCLE#HF DELUX	HERO	HF DELUX	
45	MCL019 5	MOTOR CYCLE	UK07FM9644#MOTOR CYCLE# TVS SPORT	TVS	TVS SPORT	
46	MCL019 6	MOTOR CYCLE	UK07FR9432#HERO MOTOR CYCLE#SPLENDOR +	HERO	SPLENDO R+	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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47	MCN002 1	CRANE	GJ12CM7819#ACE MOBILE CRANE 14XW	ACE	14 XW	
48	MCN002 6	CRANE	GJ12CM7680#ACE MOBILE CRANE 14XW	ACE	14 XW	
49	MCN004 7	CRANE	GJ39C1248#ACE#MOBILE#CRANE 23 TON	ACE	F230	
50	MGR002 4	MOTOR GRADER	GJ12CM6059#GRADER LIUGONG CLG 4180D	LIUGONG	CLG 4180D	
51	MGR002 6	MOTOR GRADER	GJ12CM6021#GRADER LIUGONG CLG 4180D	LIUGONG	CLG 4180D	
52	MGR003 3	MOTOR GRADER	UK07FM8092#CAT MOTOR GRADER 120NG	CATERPILLAR	120 NG	
53	MGR003 5	MOTOR GRADER	GJ12CM8369#CAT MOTOR GRADER 120NG	CATERPILLAR	120 NG	
54	SCR0055	SOIL COMPACTOR	UK07FN1029#SOIL COMPACTOR L&T1190 STD	L&T	1190 STD	
55	SCR0056	SOIL COMPACTOR	UK07FN1030#SOIL COMPACTOR L&T1190 STD	L&T	1190 STD	
56	PLF0009	TRAILOR	GJ12BX1156#PLATEFORM A/L 3118 XL	ASHOK LEYLAND	3118 XL	
57	PLF0044	TRAILOR	GJ39TA3897#TATA TRAILER LPT 3118	TATA	LPT 3118 TC	
58	TIP0212	TIPPER	GJ12BX5072#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
59	TIP0282	TIPPER	GJ12BZ9580#AL TIPPER 12WL MJ3520 / 52 T	ASHOK LEYLAND	MJ3520	
60	TIP0285	TIPPER	GJ12BZ9863#AL TIPPER 12WL MJ3520/52T	ASHOK LEYLAND	MJ3520	
61	TIP0336	TIPPER	GJ39T2155#ASHOK LEYLAND TIPPER #TU3525	ASHOK LEYLAND	TU3525	
62	TIP0337	TIPPER	GJ39T2049#ASHOK LEYLAND TIPPER #TU3525	ASHOK LEYLAND	TU3525	
63	TIP0173	TIPPER	GJ12BX4693#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
64	TIP0216	TIPPER	GJ12BY2393#AL TIPPER 12WL M3520T	ASHOK LEYLAND	M3520T	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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65	TIP0122	TIPPER	GJ12BX2037#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
66	TIP0187	TIPPER	GJ12BX4988#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
67	TIP0347	TIPPER	MP04ZV4198#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
68	TIP0349	TIPPER	MP04ZV4204#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
69	TIP0358	TIPPER	MP04ZV4245#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
70	TIP0114	TIPPER	GJ12BX1687#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
71	TIP0346	TIPPER	MP04ZV4118#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
72	TIP0348	TIPPER	MP04ZV4181#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
73	TIP0350	TIPPER	MP04ZV4121#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
74	TIP0354	TIPPER	MP04ZV4291#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
75	TIP0342	TIPPER	GJ39T2513#ASHOK LEYLAND TIPPER #TU3525	ASHOK LEYLAND	TU3525	
76	TIP0338	TIPPER	GJ39T2114#ASHOK LEYLAND TIPPER #TU3525	ASHOK LEYLAND	TU3525	
77	TIP0356	TIPPER	MP04ZV4249#ASHOK LEYLAND TIPPER #UJ3525	ASHOK LEYLAND	UJ3525	
78	TIP0081	TIPPER	GJ12BW6207#A/L TIPPER CT 3118 BS4	ASHOK LEYLAND	CT 3118	
79	TMI0051	TRANSIT MIXER	GJ12BY4028#A/L TRANSIT MIXER UE2820/7CUM	ASHOK LEYLAND	UE2820/39 R	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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80	TMI0051 A	TRANSIT MIXER REAR	MX-GJ12BY4028#SCHWING Stetter TM-MIXER	SCHWING STETTER	AM7SHN2	
81	TMI0027	TRANSIT MIXER	GJ12CM4661#A/L TRANSIT MIXER UE2820/7CUM	ASHOK LEYLAND	UE2820/39 R	
82	TMI0027 A	TRANSIT MIXER REAR	MX-GJ12CM4661#SCHWING Stetter TM-MIXER	SCHWING Stetter	AM7SHN2	
83	TMI0055	TRANSIT MIXER	GJ12BY4364#A/L TRANSIT MIXER UE2820/7CUM	ASHOK LEYLAND	UE2820/39 R	
84	TMI0055 A	TRANSIT MIXER REAR	MX-GJ12BY4364#SCHWING Stetter TM-MIXER	SCHWING STETTER	AM7SHN2	
85	NEW	TRANSIT MIXER		ASHOK LEYLAND		
86	NEW	TRANSIT MIXER REAR		SCHWING STETTER		
87	NEW	TRANSIT MIXER		ASHOK LEYLAND		
88	NEW	TRANSIT MIXER REAR		SCHWING STETTER		
89	NEW	TRANSIT MIXER		ASHOK LEYLAND		
90	NEW	TRANSIT MIXER REAR		SCHWING STETTER		
91	NEW	TRANSIT MIXER		ASHOK LEYLAND		
92	NEW	TRANSIT MIXER REAR		SCHWING STETTER		
93	WLO003 0	WHEEL LOADER	GJ12CM7827#SDLG WHEEL LOADER L958H	SDLG	L958H	
94	WLO003 7	WHEEL LOADER	GJ39C0290#SDLG WHEEL LOADER L936H	SDLG	L936H	
95	WLO003 4	WHEEL LOADER	GJ39C0024#SDLG WHEEL LOADER L936H	SDLG	L936H	
96	WBM00 32	WEIGH BRIDGE	MKC/WBG/00032#WEIGH BRIDGE#MICROTECH 120	MICROTECH	MECW B - 120	
97	WBM00 52	WEIGH BRIDGE	MKC/WBG/21/2025-26#WEIGH BRIDGE MT100	DARSHAN	100 MT	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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98	WBM00 40	WEIGH BRIDGE	MKC/WBG/00040#WEIGH BRIDGE#DARSAN#120MT	DARSAN	120 MT 50*10 FT	
99	WTA003 7	WATER TANKER	GJ06XX8127#TATA WT 20KL LPK2518 BS3	TATA	LPK 2518 BS3	
100	WTA007 3	WATER TANKER	GJ12BW2144#MAHINDRA WTA BLAZO25 BS4	MAHINDRA	BLAZO 25 BS4	
101	TRA002 8	TRACTOR	GJ39CA0509#MAHINDRA TRACTOR B275 DI TU M	MAHINDRA	B275 DI TU MKM DLX	
102	TRA004 0	TRACTOR	GJ39CC3849#MAHINDRA TRACTOR 275 DI	MAHINDRA	275 DI SP PLUS	
103	TRA004 1	TRACTOR	GJ39CC3534#MAHINDRA TRACTOR 275 DI	MAHINDRA	275 DI SP PLUS	
104	TROLLEY	TROLLEY	NEW TROLLEY			
105	WATER TANKER 4KL	WATER TANKER 4KL	WATER TANKER 4KL			
106	WATER TANKER 4KL	WATER TANKER 4KL	WATER TANKER 4KL			
107	WATER TANKER 4KL	WATER TANKER 4KL	WATER TANKER 4KL			
108	WATER TANKER 4KL	WATER TANKER 5KL	WATER TANKER 5KL			
109	WATER TANKER 4KL	WATER TANKER 5KL	WATER TANKER 5KL			

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-8

DESIGN AND DRAWING

The project highway has been designed for four lane divided carriageway facility with provision of central raised median of 4M. 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 Nov 13, 2025, is enclosed in this chapter of the report.

Road Works

Sr. No.	Description	UoM.	Scope	Submitted	Approved	Balance	Remarks
1.	Plan & Profile (MCW)	Km.	36.109	36.109	16.350	19.759	
2.	Plan & Profile (SR)	Km.	24.432	24.432	2.000	22.432	
3.	RS Wall D & D	Nos.	14	12	0	2	
4.	Minor Bridge	Nos.	6	5	5	1	
5.	Underpass (VUP & LVUP)	Nos.	14	14	14	0	
6.	Culvert	Nos.	65	2	0	63	
7.	Typical Cross Section	Nos	14	14	14	0	
8.	Rest Area	Nos	2	-	-	2	
9.	Pavement Design Report	Nos	1	1	0	1	
10.	Minor Junction	Nos	13	00	-	13	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Structure Works

Four laning of section NH-146 from Gyaraspur (Design Chainage km 88+361) to Rahatgarh (Design Chainage km 124+470) in the state of Madhya Pradesh on Hybrid Annuity Mode under Bharatmala Pariyojana Economic Corridor-4 (Project Length- 36.109km)																					
Sr Nos.	Schedule Chainage	Span (Schedule)	Skew (Schedule)	Width MCW	Remarks	Proposed Chainage	Span (Proposed)	Approved	Submission to IE	Approval/Obser. From IE	Submission to IE	Approval/Obser. From IE	Submission to IE	Approval/Obser. From IE	Submission to IE	Approval/Obser. From IE	Submission to IE	Approval/Obser. From IE	Submission to IE	Approval/Obser. From IE	
VUP																					
1	80+540	1x 20 x 5.5	0	2x 10.50		80+540	1x 20 x 5.5	27008/12.11.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	27900/12.11.2025									
2	96+460	1x 20 x 5.5	0	2x 10.50		96+460	1x 20 x 5.5	27008/12.11.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	27900/12.11.2025									
LVUP																					
*	Typical D&D LVUP (1x12x4.5)								Mail Dt. 08.07.25	IE Mail Dt. 08.08.25	Mail Dt. 13.08.25	-	Mail Dt. 30.08.25	26260/24.09.2025	120/05.10.2025						
1	89+305	1x 12 x 4.5	17.38	2x 10.50		89+305	1x 12 x 4.5	26668/06.10.2025	Mail Dt. 02.09.25	IE Mail Dt. 03.09.25	103/24.09.2025	26668/06.10.2025									
2	91+010	1x 12 x 4.5	0	2x 10.50		91+010	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
3	94+875	1x 12 x 4.5	0	2x 10.50		94+875	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
4	99+780	1x 12 x 4.5	0	2x 10.50		99+780	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
5	103+170	1x 12 x 4.5	0	2x 10.50		103+170	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
6	105+000	1x 12 x 4.5	0	2x 10.50		105+000	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
7	106+540	1x 12 x 4.5	0	2x 10.50		106+540	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
8	108+570	1x 12 x 4.5	0	2x 10.50		108+570	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
9	111+100	1x 12 x 4.5	0	2x 10.50		111+100	1x 12 x 4.5	27336/28.10.2025	Mail Dt. 30.08.25	IE Mail Dt. 03.09.25	103/24.09.2025	26260/24.09.2025	120/05.10.2025	27336/28.10.2025							
10	114+985	1x 12 x 4.5	13.24	2x 10.50		114+985	1x 12 x 4.5	26668/06.10.2025	Mail Dt. 02.09.25	IE Mail Dt. 03.09.25	103/24.09.2025	26668/06.10.2025									
11	117+295	1x 12 x 4.5	37.71	2x 10.50		117+295	1x 12 x 4.5	26668/06.10.2025	Mail Dt. 02.09.25	IE Mail Dt. 03.09.25	103/24.09.2025	26668/06.10.2025									
12	122+190	1x 12 x 4.5	15.07	2x 10.50		122+190	1x 12 x 4.5	26668/06.10.2025	Mail Dt. 02.09.25	IE Mail Dt. 03.09.25	103/24.09.2025	26668/06.10.2025									
MJB																					
1	113+400	3x 21	0	1x 12.5	LHS New	113+400	3x 21	2748/08.11.2025	1120/11.10.2025	2748/30.10.2025	188/05.11.2025	27748/08.11.2025	210/13.11.2025					129/08.10.2025	2726/08.10.2025	172/29.10.2025	
2	114+790	5x 30	0	2x 12.5 MCW 2x 8.25 SR	New	114+791	5x 30	2748/08.11.2025	169/30.09.2025	MCW D&D	2748/30.10.2025	125/06.10.2025	A1 & A2	-	188/05.11.2025	27748/08.11.2025	210/13.11.2025	143/08.10.2025	2712/22.10.2025	171/29.10.2025	Test Pile
MNB																					
1	97+105	3x10 8x4	0	1x 12.5	RHS Widening	97+105	3x10.8	27078/16.10.2025	08/09.09.2025	IE Mail Dt. 18.09.25	Mail Dt. 03.10.25	26348/26.09.2025	130/08.10.2025	27078/16.10.2025							
2	116+110	1x10	0	1x 12.5	LHS Widening	116+110	1x10	27078/16.10.2025	Mail Dt. 02.09.25	IE Mail Dt. 03.09.25	Mail Dt. 03.09.25	26348/26.09.2025	130/08.10.2025	27078/16.10.2025							
4	95+300	1x15	0	2x 12.5		95+300	3x5	27075/16.10.2025	08/09.09.2025	IE Mail Dt. 10.09.25	Mail Dt. 17.09.25	26140/19.09.2025	147/09.10.2025	27075/16.10.2025							
5	113+970	1x30	0	2x 12.5		113+970	6x5	27075/16.10.2025	09/05.17.08.2025			26140/19.09.2025	147/09.10.2025	27075/16.10.2025							
6	118+825	1x10	0	1x12.5		118+825	1x10	27075/16.10.2025	08/07.09.2025			26140/19.09.2025	147/09.10.2025	27075/16.10.2025							
Structure																					
Total Nos																					
Approved																					
Submitted																					
LVUP																					
VUP																					
MNB																					
MJB																					

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-9

PROJECT WORK PROGRESS

9.1 Work Progress:

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

Item	Cost Weightage	Stage for measurement of Physical Progress	Unit	Qty.	Weightage in percentage to the contract price	Unit Rate	Amount as per Contract Price	Quantity			Amount			Up to Date	Up to Previous	This Bill	Up to Date	Up to Previous	This Bill
								Up to Date	Up to Previous	This Bill	Up to Date	Up to Previous	This Bill						
Road works including culverts, minor Bridges, underpasses, overpasses, approaches to ROB/RUB/Major Bridges/Structures (But excluding service road)		A-Widening and strengthening of existing road																	
		(1) Earthwork upto Subgrade Top	Km	48.48	11.42%	1,26,39,508.39	61,27,68,422.51	3.650	0.000	3.650	4,61,34,205.62	-	4,61,34,205.62	0.86%	0.00%	0.86%			
		(2) Granular work (Sub-base, base,shoulder)																	
		(a) GSB	Km	48.48	2.13%	23,60,491.64	11,44,37,578.82	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%			
		(b) Reinforced WMM	Km	48.48	2.16%	23,92,190.58	11,59,74,356.08	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%			
		(3) Shoulders	Km	48.48	0.29%	3,26,153.91	1,58,12,071.83	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%			
		(4) Bituminous Work						-											
		(a) DBM	Km	48.48	4.89%	54,16,025.82	26,25,71,098.13	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%			
		(b) BC	Km	48.48	3.62%	40,03,650.58	19,40,98,581.34	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%			
		(5) Widening and repair of minor bridges																	
		a) Foundation	No.	3.00	0.12%	21,36,701.10	64,10,103.30	1.000	0.000	1.000	21,36,701.10	-	21,36,701.10	0.04%	0.00%	0.04%			
		b) Sub-Structure	No.	3.00	0.15%	27,11,837.83	81,35,513.49	1.000	0.000	1.000	27,11,837.83	-	27,11,837.83	0.05%	0.00%	0.05%			

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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(c) Super-Structure (including Crash Barrier, Slab etc. Complete) - Solid Slab	No.	3.00	0.17%	29,77,039.17	89,31,117.50	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
B-New 4 Lane Realignment/Bypass														
(1) Earthwork upto Subgrade Top	Km	20.82	6.67%	1,71,80,951.09	35,77,76,125.51	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(3) Granular work (Sub-base, base,shoulder)														
(a) GSB	Km	20.82	1.04%	26,89,668.23	5,60,09,651.25	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(b) Reinforced WMM	Km	20.82	1.15%	29,61,765.62	6,16,75,807.27	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(4) Shoulders	Km	20.82	0.12%	2,97,618.37	61,97,604.86	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(5) Bituminous Work														
(a) DBM	Km	20.82	2.16%	55,62,415.73	11,58,31,745.19	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(b) BC	Km	20.82	1.72%	44,29,007.52	9,22,29,652.52	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
Sub Total-B														
C- New Culverts, Minor Bridges, underpasses, overpasses on existing road, realignment, bypasses:														
1) Culverts (Precast)														
a) On Casting (40%)	No.	40.00	0.87%	11,62,825.31	4,65,13,012.26	26.000	0.000	26.000	3,02,33,457.97	-	3,02,33,457.97	0.56%	0.00%	0.56%
b) On Erection (60%)	No.	40.00	1.30%	17,44,237.96	6,97,69,518.39	4.000	0.000	4.000	69,76,951.84	-	69,76,951.84	0.13%	0.00%	0.13%
c) Cast in situ	No.	20.00	1.35%	36,33,829.08	7,26,76,581.66	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
2) Minor Bridge														

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	a) Foundation	No.	6.00	0.22%	19,73,251.72	1,18,39,510.31	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	b) Sub-Structure	No.	6.00	0.42%	37,35,120.05	2,24,10,720.32	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(d) Super-Structure (including Erection, Crash Barrier, Slab etc. Complete)	No	6.00	0.32%	28,29,771.04	1,69,78,626.26	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	3) Grade Separated Structures														
	A) Underpasses														
	a) Foundation	No.	28.00	1.72%	32,94,353.45	9,22,41,896.58	22.000	0.000	22.00 0	24,75,775.88	-	7,24,75,775.88	1.35%	0.00%	1.35%
	b) Sub-Structure	No.	28.00	0.55%	10,49,015.66	2,93,72,438.51	12.000	0.000	12.00 0	1,25,88,187.9 3	-	1,25,88,187.93	0.23%	0.00%	0.23%
	(c) Super-Structure (including Crash Barrier etc. Complete) - Box Type	No.	24.00	0.80%	17,83,180.01	4,27,96,320.32	2.000	0.000	2.000	35,66,360.03	-	35,66,360.03	0.07%	0.00%	0.07%
	(c) Super-Structure (including Erection, Crash Barrier, Slab etc. Complete) - Girder Type														
	A. On Casting (40%)	No.	36.00	0.13%	1,91,259.16	68,85,329.68	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	B. On Erection (60%)	No.	36.00	0.19%	2,86,888.74	1,03,27,994.53	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
Major Bridge works and ROB / RUB	(A) Widening and repairs of Major Bridges														
	a) Foundation	No.	4.00	0.31%	41,04,601.40	1,64,18,405.60	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	b) Sub-Structure	No.	4.00	0.09%	12,34,341.79	49,37,367.17	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(c) Super-Structure														
	A. On Casting (40%)	No.	12.00	0.12%	5,42,541.74	65,10,500.93	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	B. On Erection (60%) (Including Slab, Crash Barrier etc.)	No.	12.00	0.18%	8,13,812.62	97,65,751.40	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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B) Major Bridge													
a) Foundation	No.	24.00	1.65%	36,94,405.68	8,86,65,736.21	0.000	0.000	0.000	-	-	-	0.00%	0.00% 0.00%
b) Sub-Structure	No.	24.00	0.48%	10,80,866.60	2,59,40,798.41	0.000	0.000	0.000	-	-	-	0.00%	0.00% 0.00%
(c) Super-Structure													
A. On Casting (40%)	No.	70.00	0.86%	6,60,861.06	4,62,60,273.89	0.000	0.000	0.000	-	-	-	0.00%	0.00% 0.00%
B. On Erection (60%) (Including Slab, Crash Barrier etc.)	No.	70.00	1.09%	8,37,974.44	5,86,58,210.84	0.000	0.000	0.000	-	-	-	0.00%	0.00% 0.00%
Structure s (Elevated Section, Reinforced earth)	4) Reinforced Earth Wall (includes Approaches of ROB, Underpasses, Over passes, Flyover etc.)												
	i) Re-Wall using Panel/Blocks Casting (40%)	Sq.m	1,15,0 16.12	2.85%	1,329.23	15,28,82,338.46	57072. 0	0.000	57072 .000	7,58,61,547.2 4	-	7,58,61,547.24	1.41% 0.00% 1.41%
	ii) Re-Wall using Panel/Blocks Erection (60%)	Sq.m	1,15,0 16.12	5.23%	2,441.40	28,08,00,397.73	2190.6	0.000	2190. 567	53,48,050.86	-	53,48,050.86	0.10% 0.00% 0.10%
Electrical and Public Health Utilities	UTILITY SHIFTING												
	Water pipeline	Km	3.37	0.08%	12,78,749.70	43,09,386.48	0.000	0.000	0.000	-	-	-	0.00% 0.00% 0.00%
	Water pipeline crossings	Nos.	5.00	0.06%	6,29,420.04	31,47,100.21	0.000	0.000	0.000	-	-	-	0.00% 0.00% 0.00%
	HT/LT crossings	Nos.	57.00	0.40%	3,73,903.42	2,13,12,494.96	6.000	0.000	6.000	22,43,420.52	-	22,43,420.52	0.04% 0.00% 0.04%
	HT/LT lines (33KV, 11KV & LT)	Km	18.60	0.99%	28,65,352.91	5,32,81,237.41	5.235	0.000	5.235	1,50,00,122.5 0	-	1,50,00,122.50	0.28% 0.00% 0.28%
	Shifting of Transformer	Nos.	8.00	0.01%	76,382.03	6,11,056.25	3.000	0.000	3.000	2,29,146.09	-	2,29,146.09	0.00% 0.00% 0.00%
	Hand Pump	Nos.	10.00	0.01%	79,921.86	7,99,218.56	0.000	0.000	0.000	-	-	-	0.00% 0.00% 0.00%

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		MISSCELLANEOUS WORKS													
Other Works 39.90 %	i) - Service Road / Slip Road														
	(1) Earthwork upto Sub-grade Top	Km	24.43	3.94%	86,62,560.05	21,16,43,667.24	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(2) Granular work (Sub-base, base),	Km	24.43	0.89%	19,56,410.31	4,77,99,016.76	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(3) Reinforced WMM with Shoulders	Km	24.43	1.32%	29,10,043.39	7,10,98,180.05	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(4) Bituminous Work														
	(a) DBM	Km	24.43	1.28%	28,07,292.49	6,85,87,770.18	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(b) BC	Km	24.43	1.15%	25,23,239.56	6,16,47,788.93	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	ii) Road Side Drains														
	a) Unlined Drain	Km	70.83	0.10%	76,724.98	54,34,583.92	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	b) Lined Drain	Km	0.34	0.01%	12,78,703.31	4,34,759.13	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	c) Chute Drain	Nos	2,020.00	0.06%	1,464.17	29,57,620.18	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	iii) - Road signs,markings, Km Stone, Safety devices														
	(a) Road signs,markings, Km Stone	Km	72.22	1.42%	10,57,403.17	7,63,63,542.20	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	(b) Concrete Crash Barrier/W Beam Crash Barrier in Road work	Km	88.10	8.47%	51,56,169.06	45,42,58,494.55	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
	iv) - Project Facilities														
	(a) Bus Stop	No.	26.00	0.05%	1,06,562.47	27,70,624.35	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

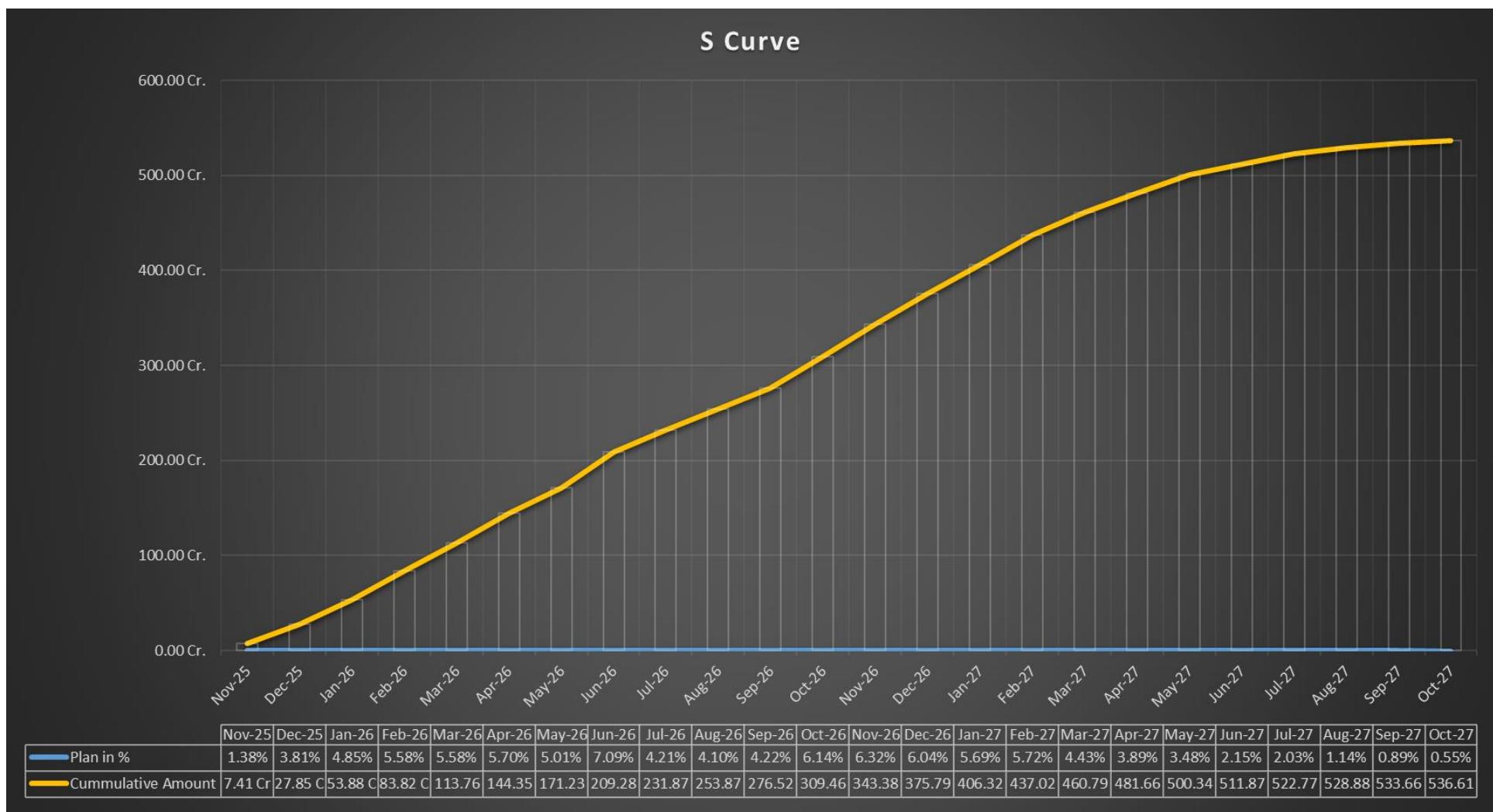
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(b) Rest Area / Truck lay bye	No.	2.00	0.11%	28,77,186.82	57,54,373.64	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(c) Rain Water Harvesting	No.	74.00	0.10%	71,200.78	52,68,857.95	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
v) - Protection Work														
(a) Boulder Pitching	Km	14.76	1.23%	44,84,763.33	6,61,95,106.82	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(b) Toe Wall / Retaining wall	Mtr	31,98 0.00	15.81%	26,520.91	84,81,38,619.95	1987.0 00	0.000	1987. 000	5,26,97,043.0 8	-	5,26,97,043.08	0.98%	0.00%	0.98%
vi)Miscellaneous														
(a) Street Lightning	No.	1,156. 00	0.80%	37,047.51	4,28,26,921.55	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(b)ATMS, HTMS, Traffic Aid Posts, Medical aid Posts, Vehicle Recue Posts, Telecom System	Km	36.11	0.84%	12,54,025.45	4,52,81,604.81	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
(c) Junction	No.	30.00	1.83%	32,67,539.87	9,80,26,196.18	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
vii) Road Side Plantation	Km	57.10	0.50%	4,66,524.80	2,66,40,618.70	0.000	0.000	0.000	-	-	-	0.00%	0.00%	0.00%
Grand Total >>>			100.00%		5,36,61,00,000.00							32,82,02,808.49		6.12%

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9.2 S Curve

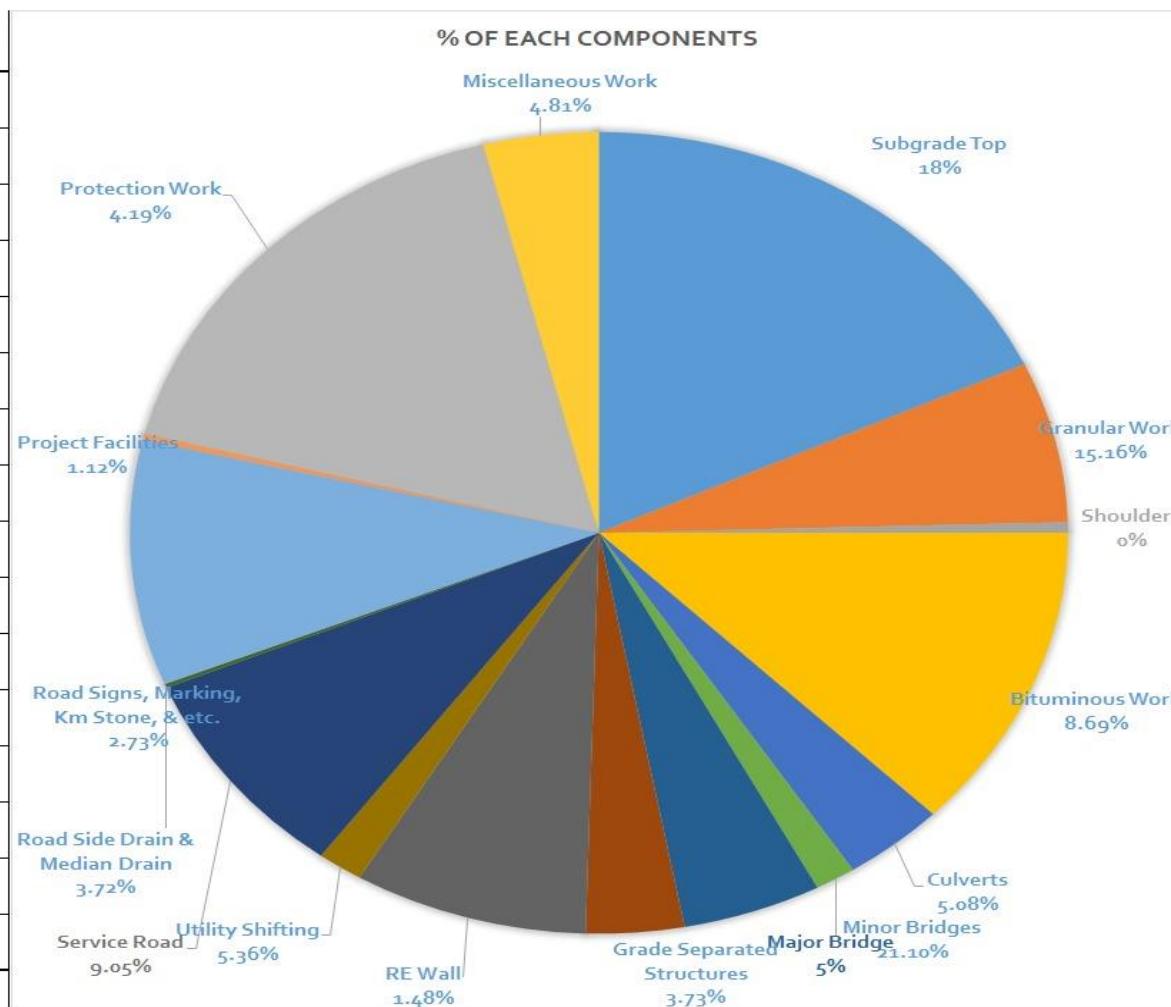


Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.3 Weightages

Work Description	% of Each sub components
Subgrade Top	18.09%
Granular Work	6.49%
Shoulders	0.41%
Bituminous Work	12.39%
Culverts	3.52%
Minor Bridges	1.39%
Major Bridge	4.79%
Grade Separated Structures	3.38%
RE Wall	8.08%
Utility Shifting	1.56%
Service Road	8.59%
Road Side Drain & Median Drain	0.16%
Road Signs, Marking, Km Stone, & etc.	9.89%
Project Facilities	0.26%
Protection Work	17.04%
Miscellaneous Work	3.97%
Total	100.0%



Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.4 Strip Chart of Highway:

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.5 Detailed Structure Work Progress

9.5.1 Status of Box Culvert

SN	LHS							Box Culvert Chainage	RHS							Protection Work
	Protection Work	Parapet Wall	Top Slab	Top Haunch	Wall Final Lift	Wall 2nd Lift	Haunch		PCC/Granular Bed	Layout & Excavation	Abutment	Abutment	Raft	PCC/Granular Bed	Layout & Excavation	Abutment
1								89+020	A1		A1					
									A2		A2					
2								89+436	A1		A1					
									A2		A2					
3								90+141	A1		A1					
									A2		A2					
4								90+211	A1		A1					
									A2		A2					
5								90+336	A1		A1					
									A2		A2					
6								91+441	A1		A1					
									A2		A2					
7								91+746	A1		A1					
									A2		A2					
8								92+126	A1		A1					
									A2		A2					
9								92+326	A1		A1					
									A2		A2					

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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10							A1	92+921	A1						
							A2		A2						
11							A1	93+626	A1						
							A2		A2						
12							A1	93+909	A1						
							A2		A2						
13							A1	94+031	A1						
							A2		A2						
14							A1	94+291	A1						
							A2		A2						
15							A1	94+621	A1						
							A2		A2						
16							A1	96+300	A1						
							A2		A2						
17							A1	96+916	A1						
							A2		A2						
18							A1	99+541	A1						
							A2		A2						
19							A1	99+890	A1						
							A2		A2						
20							A1	102+001	A1						
							A2		A2						
21							A1	102+881	A1						
							A2		A2						
22							A1	103+263	A1						
							A2		A2						
23							A1	104+565	A1						
							A2		A2						

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Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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24							A1	105+095	A1						
							A2		A2						
25							A1	105+367	A1						
							A2		A2						
26							A1	105+514	A1						
							A2		A2						
27							A1	106+400	A1						
							A2		A2						
28							A1	106+926	A1						
							A2		A2						
29							A1	107+515	A1						
							A2		A2						
30							A1	108+956	A1						
							A2		A2						
31							A1	110+196	A1						
							A2		A2						
32							A1	110+662	A1						
							A2		A2						
33							A1	111+892	A1						
							A2		A2						
34							A1	112+185	A1						
							A2		A2						
35							A1	113+212	A1						
							A2		A2						
36							A1	115+405	A1						
							A2		A2						
37							A1	115+954	A1						
							A2		A2						

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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38			A1		117+625	A1	
			A2			A2	
39			A1		117+955	A1	
			A2			A2	
40			A1		118+234	A1	
			A2			A2	
41			A1		118+245	A1	
			A2			A2	
42			A1		118+495	A1	
			A2			A2	
43			A1		118+505	A1	
			A2			A2	
44			A1		118+950	A1	
			A2			A2	
45			A1		118+990	A1	
			A2			A2	
46			A1		119+254	A1	
			A2			A2	
47			A1		119+275	A1	
			A2			A2	
48			A1		119+560	A1	
			A2			A2	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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49							A1	119+575	A1						
							A2		A2						
50							A1	119+955	A1						
							A2		A2						
51							A1	120+300	A1						
							A2		A2						
52							A1	121+050	A1						
							A2		A2						
53							A1	121+405	A1						
							A2		A2						
54							A1	121+655	A1						
							A2		A2						
55							A1	121+760	A1						
							A2		A2						
56							A1	122+005	A1						
							A2		A2						
57							A1	122+435	A1						
							A2		A2						
58							A1	122+750	A1						
							A2		A2						
59							A1	122+755	A1						
							A2		A2						
60							A1	123+785	A1						
							A2	5 Additional	A1						
1	Not Available														
2	In Progress														
3	Completed														

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Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.5.3 Status of Minor Bridge

SN	Miscellaneous Item	LHS								Minor Bridge Chainage	RHS								Miscellaneous Item			
		Crash Barrier	Approach Slab	Desk Slab	PSC Girder	Pedestal	Dirt Wall	Abutment Cap	Abutment Wall		Abutment Pile Cap	Abutment Pile	Abutment	Layout & Excavation	Abutment	Dirt Wall	Pedestal	PSC Girder	Approach Slab	Desk Slab	Crash Barrier	Miscellaneous Item
1										A1	95+380	A1										
										A2		A2										
2										A1	97+105	A1										
										A2		A2										
3										A1	113+970	A1										
										A2		A2										
4										A1	116+110	A1										
										A2		A2										
5										A1	118+697	A1										
										A2		A2										
6										A1	118+825	A1										
										A2		A2										
1	Not Available																					
2	In Progress																					
3	Completed																					

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.5.4 Status of VUP

SN	Miscellaneous Item	LHS						RHS																				
		Crash Barrier	Approach Slab	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile	Layout & Excavation	Abutment	Abutment Cap	Abutment Shaft	Abutment Pile Cap	Desk Slab	RCC Girder	Dirt Wall	Abutment Cap	Abutment Shaft	Abutment Pile	Layout & Excavation	Abutment						
1											A1																	
											A2																	
2											A1																	
											A2																	
<table border="1"> <tr> <td>1</td><td>Not Available</td><td></td></tr> <tr> <td>2</td><td>In Progress</td><td></td></tr> <tr> <td>3</td><td>Completed</td><td></td></tr> </table>																				1	Not Available		2	In Progress		3	Completed	
1	Not Available																											
2	In Progress																											
3	Completed																											

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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9.5.5 Status of LVUP

SN	Miscellaneous Item	LVUP Chainage										Miscellaneous Item
		LHS	RCC Top Slab	Abutment Wall	Bottom Slab Haunch	Raft	PCC/Granular Bed	Layout & Excavation	Abutment	RHS	Top Slab Bracket	
1	Crash Barrier								A1	89+305	A1	
	Approach Slab								A2		A2	
2	Top Slab Bracket								A1	91+010	A1	
	Top Slab Haunch								A2		A2	
3									A1	94+875	A1	
									A2		A2	
4									A1	99+780	A1	
									A2		A2	
5									A1	103+170	A1	
									A2		A2	
6									A1	105+000	A1	
									A2		A2	
7									A1	106+540	A1	
									A2		A2	
8									A1	108+570	A1	
									A2		A2	
9									A1	111+100	A1	
									A2		A2	
10									A1	114+985	A1	
									A2		A2	
11									A1	117+295	A1	
									A2		A2	
12									A1	122+190	A1	
									A2		A2	
1	Not Available											
2	In Progress											
3	Completed											

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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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: -103+100. All the required material tests are being conducted in the laboratory for the project road.

10.3 Materials Testing & Third Party Test

The testing to be carried out in the site laboratory includes tests of soil, aggregates, cement, steel, sand, embankment fill, sub grade, granular subbase and cement concrete. The details of test conducted up to 31st December, 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 Ultratech (OPC 53 Grade), Wonder Cement (OPC 53 Grade), JK Cement (OPC 53 Grade) for the project work.

10.3.3 Reinforcement Steel

The Concessionaire is using approved sources of TMT from M/s MSP steel.

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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10.3.4 Status of materials source approval & Mix Design

Mix Design				
Sr. No.	Grade	Letter No.	Status	IE Letter No.
1.	PCC (M-10, M-15) RCC (M-20, M-25, M-30, M-35, M-35 Pile, M-40,M-40Pile M-45,M-50 (RCC & PSC) M-35 RE Block. (Cement-Ultradec,wonder)	MKC/MP/GYARASPUR/104		

Cement				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Ultradec cement	MKC/MP/GYARASPUR/063	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/27651
2.	wonder Cement	MKC/MP/GYARASPUR/063	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/27651
3.	Jk cement	MKC/MP/GYARASPUR/063	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/27651

Reinforcement Steel				
Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	M/S Agarwal Foundries Pvt. Ltd.	MKC/MP/GYARASPUR/061	cancelled	
2.	Real Ispat & Power Ltd.	MKC/MP/GYARASPUR/061	Observation (factory visit)	
3.	Shyam Sel & Power Ltd.	MKC/MP/GYARASPUR/061	Observation (factory visit)	
4.	Rashmi Metaliks Limited.	MKC/MP/GYARASPUR/139	cancelled	
5.	MSP STEEL & POWER LTD.	MKC/MP/GYARASPUR/139	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/45
6.	Shakambhari (Elegant steel)	MKC/MP/GYARASPUR/250	Observation (factory visit)	
7.	M/S Agarwal Foundries Pvt. Ltd.	MKC/MP/GYARASPUR/061	cancelled	
8.	Real Ispat & Power Ltd.	MKC/MP/GYARASPUR/061	Observation (factory visit)	
9	Fibretron Composites Pvt. Ltd.	MKC/MP/GYARASPUR/061	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/38

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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10.	Srmb Parikshan, Srmb Srijan Pvt. Ltd.	MKC/MP/GYARASPUR/061	cancelled	
11.	Musclerebar Composite Pvt Ltd.	MKC/MP/GYARASPUR/066	Observation (factory visit)	

Admixture

Sr. No.	Brand Name	Letter No.	Status	IE Letter No.
1.	Hexatron industries ltd.	MKC/MP/GYARASPUR/064	Observation (factory visit)	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/27240
2.	CHRYSO India Pvt. Ltd	MKC/MP/GYARASPUR/067		
3.	FOSROC Chemicals (India) Ltd.	MKC/MP/GYARASPUR/138	Approved	Lion /BPL/NHAI/2025/IE5725/Gyaraspur-Rahatgarh/27240

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

Monthly Laboratory Report

MKC		National Highway Authority of India												Le Lion ENGINEERING CONSULTANTS				
Name of the Project :		Four-laning of Gyaraspur Rahatgarh section of NH-146 from Design Chainage km 88+361 (existing chainage km 110+315) to Design Chainage km 124+470 (existing chainage km 148+180) (Project length -36.109 km) under NH(O) in the state of Madhya Pradesh on Hybrid Annuity Mode.																
CLIENT		INDEPENDENT		CONCESSIONAIRE						CONTRACTOR								
NATIONAL HIGHWAY AUTHORITY OF INDIA		M/s Lion Engineering Consultants Pvt. Ltd.		M/S Mahakaleshwar Highways Private Limited.						M/s MKC Infrastructure Ltd.								
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																		
S.No	Description	Description of Tests as per MORTH Aggrement Provisions	Frequency of Tests as per MORTH/C.A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total
1.0	Earth Work																	
1.1	OGI	Grain Size Analysis	1 Tests per 250 Mtr.	210		210				210		210						
1.2		MDD & OMC (Proctor)	1 Tests per 250 Mtr.	210		210				210		210						
1.3		Atterberg Limits (LL& PL)	1 Tests per 250 Mtr.	210		210				210		210						
1.4		FSI	1 Tests per 250 Mtr.	210		210				210		210						
1.5		CBR	1 Tests per 250 Mtr.															
1.6		Field Density of Original Ground	1 Set (10 Pit)/3000m ²	448	4	452	267		267	715	4	719	60		60	22.47%		
1.7	Borrow Area Used for Embankment & Subgrade	Grain Size Analysis	2 Tests per 3000m ³	78		78	51		51	129		129	12		12	23.53%		
1.8		MDD & OMC (Proctor)	2 Tests per 3000m ³	78		78	51		51	129		129	12		12	23.53%		
1.9		Atterberg Limits (LL& PL)	2 Tests per 3000m ³	78		78	51		51	129		129	12		12	23.53%		
1.10		FSI	2 Tests per 3000m ³	78		78	51		51	129		129	12		12	23.53%		
1.11		CBR	1 Test per 3000m ³	33	3	36	28		28	61	3	64	8		8	28.57%		
1.12		Deleterious Content Test	As Required				-											
1.13	Cutting Soil	Grain Size Analysis	2 Tests per 3000m ³															
1.14		MDD & OMC (Proctor)	2 Tests per 3000m ³															
1.15		Atterberg Limits (LL& PL)	2 Tests per 3000m ³															
1.16		FSI	2 Tests per 3000m ³															
1.17		CBR	1 Test per 3000m ³															
1.18		Deleterious Content Test	As Required															
1.19	Embankment	Field Density of Compacted Layers	1 Set (10 Pit)/3000m ²	260		260	367		367	627		627	98		98	26.70%		
1.20	Sub grade	Field Density of Compacted Layers	1 Set (10 Pit)/2000m ²	60		60	580		580	640		640	115		115	19.83%		
1.21	Earthen Shoulders	Field Density of Compacted Layers	1 Set (10 Pit)/2000m ²															
1.22	Reinforced Soil	Angle of Friction	As Required															

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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MKC		National Highway Authority of India		Lion Engineering Consultants														
Name of the Project :		Four-laning of Gyaraspur Rahatgarh section of NH-146 from Design Chainage km 88+361 (existing chainage km 110+315) to Design Chainage km 124+470 (existing chainage km 148+180) (Project length -36.109 km) under NH(O) in the state of Madhya Pradesh on Hybrid Annuity Mode.																
CLIENT		INDEPENDENT		CONCESSIONAIRE				CONTRACTOR										
NATIONAL HIGHWAY AUTHORITY OF INDIA		M/s Lion Engineering Consultants Pvt. Ltd.		M/S Mahakaleshwar Highways Private Limited.				:M/s MKC Infrastructure Ltd.										
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																		
S.No	Description	Description of Tests as per MORTH Aggrement Provisions	Frequency of Tests as per MORTH/C/A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total
2.0	GSB																	
2.1	GSB	Sieve Analysis	1 Test per 400m ³															
2.2		AIV	As Required															
2.3		MDD & OMC	As Required															
2.4		Atterberg Limits	1 Test per 400m ³															
2.5		Field density of Compacted layers	1 Set of Three tests per 1000m ²															
3.0	Wet Mix Macadam																	
3.1	WMM	Flakiness & Elongation Index	1 Test per 500m ³															
3.2		AIV	1 Test per 1000m ³															
3.3		Los Angeles Abrasion Value	As Required															
3.4		Specific Gravity & Water Absorption	As Required															
3.5		Sieve Analysis	1 Test per 200m ³															
3.6		MDD & OMC	As Required															
3.7		Atterberg Limits	1 Test per 200m ³															
3.8		Field Density of Compacted layers	1 set of three test per 1000m ²															

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Name of the Project :		Four-laning of Gyaraspur Rahatgarh section of NH-146 from Design Chainage km 88+361 (existing chainage km 110+315) to Design Chainage km 124+470 (existing chainage km 148+180) (Project length -36.109 km) under NH(O) in the state of Madhya Pradesh on Hybrid Annuity Mode.																
CLIENT			INDEPENDENT		CONCESSIONAIRE						CONTRACTOR							
NATIONAL HIGHWAY AUTHORITY OF INDIA			M/s Lion Engineering Consultants Pvt. Ltd.		M/S Mahakaleshwar Highways Private Limited.						M/s MKC Infrastructure Ltd.							
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																		
S.No	Description	Description of Tests as per MORTH Aggrement Provisions	Frequency of Tests as per MORTH/C.A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total
4.0	Concrete																	
4.1	Coarse Aggregates	Sieve Analysis	Set	90		90	31		31	121		121	12		12	38.71%		38.71%
4.2		Flakiness & Elongation Index	Nos.	35		35	5		5	40		40	2		2	40.00%		40.00%
4.3		AV / Los Angeles Abrasion Value	Nos.	35		35	5		5	40		40	2		2	40.00%		40.00%
4.4		Specific Gravity & Water Absorption	Nos.	12		12				12		12						
4.5	Fine Aggregate	Sieve Analysis	Nos.	90		90	31		31	121		121	12		12	38.71%		38.71%
4.6		Specific Gravity & Water Absorption	Nos.	6		6				6		6						
4.7		Silt Content	Nos.	18		18	10		10	28		28	5		5	17.86%		17.86%
4.8		Fineness Modulus	Nos.	90		90	31		31	121		121	12		12	38.71%		38.71%
5.0	Cement																	
5.1	Cement	Fineness	Nos.	13		13	5		5	18		18	2		2	40.00%		40.00%
5.2		Consistency	Nos.	13		13	5		5	18		18	2		2	40.00%		40.00%
5.3		Initial & Final Setting	Nos.	13		13	5		5	18		18	2		2	40.00%		40.00%
5.4		Soundness Test	Nos.															
5.5		Specific Gravity	Nos.	2		2				2		2						
5.6		Compressive Strength 3 day's	Set	13		13	6		6	19		19	3		3	50.00%		50.00%
5.7		Compressive Strength 7 day's	Set	11		11	7		7	18		18	3		3	42.86%		42.86%
5.8		Compressive Strength 28 day's	Set	11		11	7		7	18		18	3		3	42.86%		42.86%

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Project Details															Quality Assurance & Test Results																			
Name of the Project :		Project Description													Client		Independent		Concessionaire			Contractor												
Project Name		Project Description													Client Name		Independent Name		Concessionaire Name			Contractor Name												
National Highway Authority of India		M/s Lion Engineering Consultants Pvt. Ltd.													M/S Mahakaleshwar Highways Private Limited.		:M/s MKC Infrastructure Ltd.																	
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																																		
S.No	Description	Description of Tests as per MORTH Aggrement Provisions	Frequency of Tests as per MORTH/C.A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE																		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total													
6.0 Mix Design Concrete Cubes																																		
6.1	M10 PCC	Compressive Strength 7 Day's	Set	14	6	20	2	1	3	16	7	23	1			1	50.00%																	
6.2	M15 PCC	Compressive Strength 7 Day's	Set	15	6	21	2	1	3	17	7	24	1			1	50.00%																	
6.3	M20	Compressive Strength 7 Day's	Set	16	6	22	2		2	18	6	24	1			1	50.00%																	
6.4	M25	Compressive Strength 7 Day's	Set	16	6	22	4	1	5	20	7	27	2			2	50.00%																	
6.5	M30	Compressive Strength 7 Day's	Set	16	6	22	4	1	5	20	7	27	2			2	50.00%																	
6.6	M35	Compressive Strength 7 Day's	Set	16	6	22	4	1	5	20	7	27	2			2	50.00%																	
6.7	M35 Re block	Compressive Strength 7 Day's	Set	14	6	20				14	6	20	2			2	#DIV/0!																	
6.8	M40	Compressive Strength 7 Day's	Set	16	6	22	4	1	5	20	7	27	2			2	50.00%																	
6.9	M45	Compressive Strength 7 Day's	Set															#DIV/0!																
6.91	M50 PSC	Compressive Strength 7 Day's	Set						8	2	10	8	2	10	5		5	62.50%																
6.92	M10 PCC	Compressive Strength 28 Day's	Set	13	6	19	2		2	15	6	21	1			1	50.00%																	
6.93	M15	Compressive Strength 28 Day's	Set	15	6	21	2		2	17	6	23	1			1	50.00%																	
6.94	M20	Compressive Strength 28 Day's	Set	15	6	21	2		2	17	6	23	1			1	50.00%																	
6.95	M25	Compressive Strength 28 Day's	Set	15	6	21	3		3	18	6	24	1			1	33.33%																	
6.96	M30	Compressive Strength 28 Day's	Set	15	7	22	3	1	4	18	8	26	1			1	33.33%																	
6.97	M35	Compressive Strength 28 Day's	Set	15	7	22	3	1	4	18	8	26	2			2	66.67%																	
6.98	M35 Re block	Compressive Strength 28 Day's	Set	14	6	20				14	6	20					#DIV/0!																	
6.99	M40	Compressive Strength 28 Day's	Set	16	7	23	3	1	4	19	8	27																						
7.0	M45	Compressive Strength 28 Day's	Set																															
7.01	M50 PSC	Compressive Strength 28 Day's	Set																															

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Name of the Project :		Four-laning of Gyaraspur Rahatgarh section of NH-146 from Design Chainage km 88+361 (existing chainage km 110+315) to Design Chainage km 124+470 (existing chainage km 148+180) (Project length -36.109 km) under NH(O) in the state of Madhya Pradesh on Hybrid Annuity Mode.																
CLIENT			INDEPENDENT		CONCESSIONAIRE						CONTRACTOR							
NATIONAL HIGHWAY AUTHORITY OF INDIA			M/s Lion Engineering Consultants Pvt. Ltd.		M/S Mahakaleshwar Highways Private Limited.						M/s MKC Infrastructure Ltd.							
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																		
S.No	Description	Description of Tests as per MORTH Agrement Provisions	Frequency of Tests as per MORTH/C.A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total
7.0	Cast-in-Situ Concrete Cubes																	
7.01	M10 PCC	Compressive Strength 7 Day's	Set	8		8	19		19	27		27	4		4	21.05%		21.05%
7.02	M15 PCC	Compressive Strength 7 Day's	Set	20		20	40		40	60		60	10		10	25.00%		25.00%
7.03	M20	Compressive Strength 7 Day's	Set	-						-		-						
7.04	M25	Compressive Strength 7 Day's	Set	30		30	96		96	126		126	20		20	20.83%		20.83%
7.05	M30	Compressive Strength 7 Day's	Set	47		47	96		96	143		143	25		25	26.04%		26.04%
7.06	M35	Compressive Strength 7 Day's	Set	32		32	90		90	122		122	20		20	22.22%		22.22%
7.07	M35 Re Block	Compressive Strength 7 Day's	Set	63		63	83		83	146		146	20		20	24.10%		24.10%
7.08	M35 Pile	Compressive Strength 7 Day's	Set				3		3	3		3	1		1			
7.09	M40	Compressive Strength 7 Day's	Set	53		53	49		49	102		102	14		14	28.57%		28.57%
7.10	M50 PSC	Compressive Strength 7 Day's	Set															
7.11	M10 PCC	Compressive Strength 28 Day's	Set				114		114	114		114	36		36	31.58%		31.58%
7.11	M15	Compressive Strength 28 Day's	Set	12		12	151		151	163		163	41		41	27.15%		27.15%
7.12	M20	Compressive Strength 28 Day's	Set													#DIV/0!		#DIV/0!
7.13	M25	Compressive Strength 28 Day's	Set	34		34	291		291	325		325	62		62	21.31%		21.31%
7.14	M30	Compressive Strength 28 Day's	Set	52		52	448		448	500		500	101		101	22.54%		22.54%
7.15	M35	Compressive Strength 28 Day's	Set	14		14	189		189	203		203	42		42	22.22%		22.22%
7.16	M35 Re Block	Compressive Strength 28 Day's	Set	85		85	448		448	533		533	102		102	22.77%		22.77%
7.17	M35 Pile	Compressive Strength 28 Day's	Set													#DIV/0!		#DIV/0!
7.19	M40	Compressive Strength 28 Day's	Set	80		80	375		375	455		455	75		75	20.00%		20.00%
7.20	M45	Compressive Strength 28 Day's	Set															
7.21	M50 PSC	Compressive Strength 28 Day's	Set															

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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Name of the Project :		Four-laning of Gyaraspur Rahatgarh section of NH-146 from Design Chainage km 88+361 (existing chainage km 110+315) to Design Chainage km 124+470 (existing chainage km 148+180) (Project length -36.109 km) under NH(O) in the state of Madhya Pradesh on Hybrid Annuity Mode.														Lion ENGINEERING CONSULTANTS		
CLIENT		INDEPENDENT		CONCESSIONAIRE						CONTRACTOR								
NATIONAL HIGHWAY AUTHORITY OF INDIA		M/s Lion Engineering Consultants Pvt. Ltd.		M/S Mahakaleshwar Highways Private Limited.						:M/s MKC Infrastructure Ltd.								
CURRENT MONTH'S QUALITY ASSURANCE DOCUMENTS, TEST RESULTS (December-2025)																		
S.No	Description	Description of Tests as per MORTH Agreement Provisions	Frequency of Tests as per MORTH/C.A	No.of Tests Conducted up to Previous Month			No. of Tests Conducted This Month			Total No. of Tests Conducted up to This Month			No. of Tests Conducted This Month Witnessed by IE			% Tests witnessed by IE		
				Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total	Pass	Fail	Total
8.00	DBM																	
8.10	DBM	GRADATION	1 TEST PER 400 MT															
8.20		AIV	1 Test per 300m3															
8.30		FI & EI COMBINED	1 Test per 300m3															
8.40		EXTRACTION	1 TEST PER 400 MT															
8.50		MARSHALL STABILITY	2 TEST PER 400 MT															
8.60		GMM	2 TEST PER 400 MT															
9.00	BC																	
9.10	BC	GRADATION	1 TEST PER 400 MT															
9.20		AIV	1 Test per 300m3															
9.30		FI & EI COMBINED	1 Test per 300m3															
9.40		EXTRACTION	1 TEST PER 400 MT															
9.50		MARSHALL STABILITY	2 TEST PER 400 MT															
9.60		GMM	2 TEST PER 400 MT															

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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CHAPTER-11

CORRESPONDENCE

11.1 Outward Letter

Outward Letter Summary

Sr.No.	Month	Letter Date.	Letter No.	Letter No.	Description	To	Remarks
1	Dec-25	1-12-2025	MKC/MP/GYARASPUR/279	279	Point wise reply to observations & Revised submission of Schedule-G.	The Team Leader	
2	Dec-25	1-12-2025	MKC/MP/GYARASPUR/280	280	Regarding Submission of Design and Drawing for RS Wall Location VUP 90+540 & LVUP 91+010	The Independent Engineer	
3	Dec-25	1-12-2025	MKC/MP/GYARASPUR/280A	280A	Reg- Request for Physical and Chemical Testing of Mirco Silia	The Team Leader	
4	Dec-25	2-12-2025	MKC/MP/GYARASPUR/283	283	ग्राम बरमढी तहसील त्यांदा जिला विदिशा की निजी भूमि के खसरा क्रमांक- 511 में 2.3000 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के	The Project Director, NHAI	
5	Dec-25	2-12-2025	MKC/MP/GYARASPUR/284	284	ग्राम ताराली तहसील त्यांदा जिला विदिशा की निजी भूमि के खसरा क्रमांक-751 में 0.9350 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी	The Project Director, NHAI	
6	Dec-25	2-12-2025	MKC/MP/GYARASPUR/288	288	Reg- Request for Approval of Schedule-G	The Team Leader	
7	Dec-25	4-12-2025	MKC/MP/GYARASPUR/294	294	Reg- Intimation Regarding Delay in Road Construction Due to Non-Removal of Encroachments	The Project Director, NHAI	
8	Dec-25	4-12-2025	MKC/MP/GYARASPUR/295	295	Submission of Inspection Report of TECHFAB India Geogrid (TGU Series) after Factory Visit.	The Team Leader	
9	Dec-25	5-12-2025	MKC/MP/GYARASPUR/299	299	Reg-Reg-Submission of Concrete Mix Design of M-10, M-15, M-25, M-30, M-35, M-35(Pile), M-40, M-40 (Pile) & M-35 RE-block for Approval	The Team Leader	
10	Dec-25	5-12-2025	MKC/MP/GYARASPUR/300	300	Reg- Compliance to Site Instruction regarding Embankment Construction with Unapproved Material (Chainage 105+750 to 105+900, RHS).	The Team Leader	
11	Dec-25	5-12-2025	MKC/MP/GYARASPUR/301	301	GR Project Letter No 301 Submission of Quality Assurance Plan (QAP)of Elastomeric Bearing, Strip Seal Expansion Joint & POT-PTFE Bearing Along with ISO Certificate	The Team Leader	
12	Dec-25	8-12-2025	MKC/MP/GYARASPUR/308	308	Request to issue a letter to the Executive Engineer Electrical Division Sagar for Shut Down	The Project Director, NHAI	
13	Dec-25	8-12-2025	MKC/MP/GYARASPUR/309	309	Intimation of un-availability of hindrance free Right of Way (ROW) - Reg.	The Project Director, NHAI	
14	Dec-25	8-12-2025	MKC/MP/GYARASPUR/313	313	ग्राम गौडखेडी पठार तहसील त्यांदा जिला विदिशा की निजी भूमि के खसरा क्रमांक-24 में 2.1320 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी मुरम का शासकीय कार्य में उपयोग के उत्खनन कर परिवहन की अस्थायी अनुज्ञा आदेश दिए जाने बाबत।	The Project Director, NHAI	
15	Dec-25	10-12-2025	MKC/MP/GYARASPUR/315	315	ग्राम गौडखेडी पठार तहसील त्यांदा जिला विदिशा की निजी भूमि के खसरा क्रमांक-24 में 2.1320 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी मुरम का शासकीय कार्य में उपयोग के उत्खनन कर परिवहन की अस्थायी अनुज्ञा आदेश दिए जाने बाबत।	The Project Director, NHAI	
16	Dec-25	10-12-2025	MKC/MP/GYARASPUR/316	316	Resubmission of Profile & Credentials of Hexatron Industries Limited for Source Approval”.	The Team Leader	
17	Dec-25	10-12-2025	MKC/MP/GYARASPUR/317	317	Submission of Borrow area No 1, 2,3,4 & 5 Test Report For approval.	The Team Leader	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

Outward Letter Summary

Sr.No.	Month	Letter Date.	Letter No.	Letter No.	Description	To	Remarks
18	Dec-25	10-12-2025	MKC/MP/GYARASPUR/318	318	Submission of Profile & Credentials of AVN-Micro-92 Densified Micro Silica for Source Approval".	The Team Leader	
19	Dec-25	11-12-2025	MKC/MP/GYARASPUR/321	321	बरमडी तहसील खोदा जिला विदिशा की शासकीय भूमि के खसरा क्रमांक-42 में 1.1700 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी मुरम का शासकीय कार्य में उपयोग के उत्खनन कर परिवहन की अस्थायी अनुज्ञा आदेश दिए जाने बाबत।	The Project Director, NHAI	
20	Dec-25	11-12-2025	MKC/MP/GYARASPUR/322	322	“ग्राम सेनपा तहसील राहतगढ़ जिला सागर की निजी भूमि के खसरा क्रमांक-168 में 5.4100 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी मुरम का शासकीय कार्य में उपयोग के उत्खनन कर परिवहन की अस्थायी अनुज्ञा आदेश दिए जाने बाबत।”	The Project Director, NHAI	
21	Dec-25	11-12-2025	MKC/MP/GYARASPUR/323	323	Submission of Environment, Health & Safety (EHS) Plan”	The Team Leader	
22	Dec-25	11-12-2025	MKC/MP/GYARASPUR/325	325	Regarding Compliance of Observations on Plan and Profile Drawings	The Independent Engineer	
23	Dec-25	12-12-2025	MKC/MP/GYARASPUR/328	328	Reg. “Compliance on Your Observations on QAP”.	The Team Leader	
24	Dec-25	13-12-2025	MKC/MP/GYARASPUR/332	332	Compliance on Removal of Unsuitable Material for Pond Filling at Ch. 122+340”.	The Team Leader	
25	Dec-25	15-12-2025	MKC/MP/GYARASPUR/342	342	“Compliance Report at CH. 89+436 Observation in Erection of Precast Box Culvert”.	The Team Leader	
26	Dec-25	15-12-2025	MKC/MP/GYARASPUR/343	343	Regarding Compliance Submission of Observations on Pavement Crust Design Report	The Independent Engineer	
27	Dec-25	15-12-2025	MKC/MP/GYARASPUR/345	345	ग्राम सेनपा तहसील राहतगढ़ जिला सागर की निजी भूमि के खसरा क्रमांक-135 में 8.5300 हे. क्षेत्र पर तालाब निर्माण गहरीकरण के दौरान, मिट्टी मुरम का शासकीय कार्य में उपयोग के उत्खनन कर परिवहन की अस्थायी अनुज्ञा आदेश दिए जाने बाबत।	The Project Director, NHAI	
28	Dec-25	17-12-2025	MKC/MP/GYARASPUR/351	351	Submission of Revised Contract Price Weightage as per Annexure-I of Schedule-G of Concession Agreement”	The Team Leader	
29	Dec-25	17-12-2025	MKC/MP/GYARASPUR/353	353	Submission of Filter Media Mix Design For RS Wall Use.	The Team Leader	
30	Dec-25	17-12-2025	MKC/MP/GYARASPUR/354	354	Submission of Revised Contract Price Weightage as per Annexure-I of Schedule-G of Concession Agreement”	The Team Leader	
31	Dec-25	17-12-2025	MKC/MP/GYARASPUR/355	355	Regarding Submission of Design and Drawing for Box Culvert at Ch. 99+890 (2x3x3)	The Team Leader	
32	Dec-25	17-12-2025	MKC/MP/GYARASPUR/356	356	Regarding Submission of Design and Drawing for RS Wall Location LVUP 117+288	The Team Leader	
33	Dec-25	18-12-2025	MKC/MP/GYARASPUR/357	357	Regarding Resubmission of Pavement Crust Design Report	The Team Leader	
34	Dec-25	20-12-2025	MKC/MP/GYARASPUR/361	361	Reg. “Request for Factory Visit for Inspection of Metal Beam Crash Barrier, Bitumen, Emulsion & Admixture - HEXATRON INDUSTRIES LIMITED	The Team Leader	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

Outward Letter Summary

Sr.No.	Month	Letter Date.	Letter No.	Letter No.	Description	To	Remarks
35	Dec-25	20-12-2025	MKC/MP/GYARASPUR/362	362	Request for Factory Visit for Inspection of Expansion Joints, POT-PTFE Bearings, Prestressing HDPE Seating Pipe & Anchor Cones	The Team Leader	
36	Dec-25	20-12-2025	MKC/MP/GYARASPUR/363	363	“ग्राम आलिंजा तहसील ग्यारास्पुर के खसरा क्रमांक 4111 में 3.3500 भूमि	The Team Leader	
37	Dec-25	20-12-2025	MKC/MP/GYARASPUR/364	364	“Submission of Monthly drone videography for the month of November-2025 from Km. 88+361 to 124+470 road project”.	The Team Leader	
38	Dec-25	22-12-2025	MKC/MP/GYARASPUR/366	366	Regarding Submission of Revised Design and Drawing for Box Culvert at Ch. 99+890 (2x3x3)	The Independent Engineer	
39	Dec-25	23-12-2025	MKC/MP/GYARASPUR/368	368	Regarding Submission of Design and Drawing for RS Wall Location LVUP 103+161.	The Independent Engineer	
40	Dec-25	23-12-2025	MKC/MP/GYARASPUR/369	369	Regarding Compliance Submission of Observations on Design and Drawing for Box Culvert at Ch. 105+084 (1x5x3) & Ch. 121+050 (1x4x3.5)	The Independent Engineer	
41	Dec-25	24-12-2025	MKC/MP/GYARASPUR/372	372	Reg.- “Submission of Revised Contract Price Weightage as per Annexure-I of Schedule-G of Concession Agreement”.	The Team Leader	
42	Dec-25	26-12-2025	MKC/MP/GYARASPUR/380	380	“Submission of Third-Party Fly Ash Test Report for Approval”.	The Team Leader	
43	Dec-25	26-12-2025	MKC/MP/GYARASPUR/381	381	Submission of Third-Party Physical & Chemical Test Report (AVN-Micro-92 Densified Micro Silica) for Approval.”.	The Team Leader	
44	Dec-25	26-12-2025	MKC/MP/GYARASPUR/384	384	मध्य प्रदेश पंचायती राज्य एवं ग्राम स्वराज्य अधिनियम 1993 के अंतर्गत कंपनी का अधिरोपित कर नियम विशद होने बाबत	The Project Director, NHAI	
45	Dec-25	27-12-2025	MKC/MP/GYARASPUR/385	385	Submission of Concrete Mix Design of M-50 for Approval	The Team Leader	
46	Dec-25	27-12-2025	MKC/MP/GYARASPUR/386	386	Reg. “Submission of Profile & Credentials of Magic Durabuild Material Pvt. Ltd. – Micro Silica for Source Approval.”.	The Team Leader	
47	Dec-25	27-12-2025	MKC/MP/GYARASPUR/387	387	eg. “Submission of “Profile & Credentials of SayE Geostructure (Geotechnical, Geosynthetics – Research & Consultant)”.	The Team Leader	
48	Dec-25	27-12-2025	MKC/MP/GYARASPUR/392	392	Reg.-Submission of Equipment calibration certificate	The Team Leader	
49	Dec-25	30-12-2025	MKC/MP/GYARASPUR/405	405	“Compliance regarding use of unauthorized reinforcement “Elegant Steel TMT 550D”.	The Team Leader	
50	Dec-25	30-12-2025	MKC/MP/GYARASPUR/406	406	Request for Physical Testing of Pond Ash Samples.	Hitech Civil Test Lab	
51	Dec-25	30-12-2025	MKC/MP/GYARASPUR/409	409	Reg- Request for Physical and Chemical Testing of Elegant Steel TMT 550D.	Synergy Testing House.	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

CHAPTER-12
NON-CONFORMANCE REPORT
04 No's

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

CHAPTER-13

WEATHER REPORT

WEATHER REPORT MONTH OF DECEMBER-2025									
S.No	Date	Temp °C		Humidity (%)		Weather Condition	Rainfall (mm)	Cummulative Rain fall (mm)	Remarks
		Min.	Max.	Min.	Max.				
1	01.12.2025	12.0	24.0	36	56	Sunny	-	-	
2	02.12.2025	14.0	25.0	38	57	Sunny	-	-	
3	03.12.2025	15.0	25.0	40	58	Sunny	-	-	
4	04.12.2025	14.0	26.0	38	60	Sunny	-	-	
5	05.12.2025	13.0	25.0	40	56	Sunny	-	-	
6	06.12.2025	15.0	25.0	38	51	Sunny	-	-	
7	07.12.2025	14.0	24.0	36	52	Sunny	-	-	
8	08.12.2025	14.0	25.0	37	50	Sunny	-	-	
9	09.12.2025	15.0	24.0	36	49	Sunny	-	-	
10	10.12.2025	16.0	25.0	37	50	Sunny	-	-	
11	11.12.2025	15.0	23.0	37	49	Sunny	-	-	
12	12.12.2025	14.0	25.0	36	48	Sunny	-	-	
13	13.12.2025	14.0	24.0	38	48	Sunny	-	-	
14	14.12.2025	14.0	23.0	35	52	Sunny	-	-	
15	15.12.2025	15.0	24.0	36	54	Sunny	-	-	
16	16.12.2025	14.0	25.0	38	52	Sunny	-	-	
17	17.12.2025	12.0	24.0	40	50	Sunny	-	-	
18	18.12.2025	12.0	24.0	40	48	Sunny	-	-	
19	19.12.2025	13.0	25.0	38	48	Sunny	-	-	
20	20.12.2025	14.0	23.0	36	50	Sunny	-	-	
21	21.12.2025	12.0	24.0	40	48	Sunny	-	-	
22	22.12.2025	12.0	24.0	39	50	Sunny	-	-	
23	23.12.2025	13.0	25.0	39	51	Sunny	-	-	
24	24.12.2025	14.0	25.0	37	48	Sunny	-	-	
25	25.12.2025	13.0	25.0	36	49	Sunny	-	-	
26	26.12.2025	12.0	25.0	33	51	Sunny	-	-	
27	27.12.2025	13.0	24.0	34	50	Sunny			
28	28.12.2025	13.0	22.0	33	51	Sunny			
29	29.12.2025	12.0	25.0	39	49	Sunny			
30	30.12.2025	13.0	25.0	38	48	Sunny			
31	31.12.2025	12.0	24.0	37	49	Sunny			
					TOTAL		0.00	mm	

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

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The maximum & minimum weather records are summarized below:

TEMPERATURE/ RAINFALL PERIOD: 1st December 2025 to 31st December, 2025				
Temperature		Rainfall		
Maximum (in °C)	Minimum (in °C)	Maximum (in mm)	Minimum (in mm)	Total Days
24.4	13.5	00.0	0.0	00

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

CHAPTER-14
ACCIDENT REPORT

NIL

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

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.

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025

CHAPTER-16



FDD Testing in Embankment Layer



Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025



Ch-89+600 LHS RE-Wall leveling Pad Rolling Work in Progress



LVUP Raft Concrete Pouring Work in Progress at ch. 94+875 LHS

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025



Borrow Area Soil Sampling



Cube Testing in front GM-NHIDCL (Authority)

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025



Cube Testing in Laboratory

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025



Time: 01.05.2026 09:24

Address: M4H6+GQV

Lat/Long: Lat 23.678215 Long
78.111935

Ch 90+540 VUP precast beam reinforcement binding in progress

Four Laning of section NH-146 from Design 88+361 (Existing chainage km 110+315 near Gyaraspur) to Design Chainage km 124+470 (existing chainage km 148+180 near Rahatgarh) (Design Length - 36.109 km) under NH (O) in the State of Madhya Pradesh on Hybrid Annuity Mode.

MPR December-2025



Ch-88+950 to 89+020 LHS MCW EMB 7th layer FDD checking in presence of RE Sir