

National Highways Authority of India

M/s MKC Ujjain-Garoth Mahakaleshwar Highway Pvt. Ltd



Project: Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP on HAM Mode (**Package-III)**

Independent Engineer

M/s L.N.Malviya Infra Project Pvt.Ltd
In Association With M/s Infratech Civil Solutions Consultant.

Monthly Progress Report – (November'22)

Table of Contents

S.N.	Contents	Page No.
1	Executive Summary	1-4
1.1	Construction progress in current month	1
1.2	Summary of strip plan	2-3
1.3	Detailed Strip plan	4
1.4	Current issues and recommended action by IE	4
2	Project Overview	5-12
2.1	Salient Features of the Project	5
2.2	Project Milestones	6
2.3	Location Map	7
2.4	Key Plan	8-12
3	Critical issues and Action Log	13-15
3.1	Pending issues and action log	13
3.2	Obligations as per concessionaire	14-15
4	Physical Progress	16
4.1	ROB Physical Progress	17
4.1	Detailed Physical Progress by Component	18-19
5	Land Acquisition and Clearances	20
6	Mobilization of Resources	21
6.1	Manpower Resources	22
6.2	Resource mobilization by Subcontractor	23
7	Financial Progress Details	24-26
7.1	Pen Picture -Escrow	24
7.2	Escrow Details	25-26
8	Monitoring of maintenance obligations during construction phase	27
9	Summary of Quality Control Tests	28-33
9.1	Tests witnessed by IE/ AE	28-33

9.2	Weather Report	34
10	Accident report	35
11	Annexures	
12.1	Annexure - 2 Visit & Meetings	36
12.2	Annexure – 3 Site Photograph	

Monthly Progress Report November- 2022

Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode under Bharatmala Pariyojna in the state of Madhyapradesh

1. Executive Summary

This report covers the activities undertaken by the **contractor** during the month of November 2022.

1.1 Construction progress in current month

1

Description	Up to Previous Month as per Schedule	Up to Previous Month Achieved	This month as per Schedule	This Month Achieved	Cumulative as per Schedule	Cumulative Achieved
Physical Progress	2.00%	1.09%	5.00%	3.75%	7.00%	4.84%
Financial Progress (Certified IPC)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Expenditure (in Cr)	0.00	0.00	0.00	0.00	0.00	0.00

^{*} This physical progress is calculated in respect to % weightage of each item as specified in schedule 'G' of CA.

^{*} Financial Progress is calculated by considering of estimated amount of work done excluding price adjustment.

Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode under Bharatmala Pariyojna in the state of Madhyapradesh

1.2 Summary of Strip Plan

1.2(A) Highway

1. Work front	unavailable	& Reason
unavailability		

· ·		
	Length (Km)	% Total
1. Carriageway		
Total Length	46.115	-
Total Work Front unavailable	3.085	6.68%
Pending Land	3.085	6.68%
Acquired	43.066	93.32%
Encumbrance		

2. Length completed by layer (MCW)

	Length (Km)	% Total
Total Length	46.115	-
Total Length Completed (Till BC)		0%
BC		
DBM		0%
СТВ		0%
CTSB		0%
Sub-Grade		0%
Embankment	12.02	26.68%
C&G	18.85	41.83%

3. Length completed by layer (Service Road)

	Length (Km)	% Total
Total Length	1.354	-
Total Length		
Completed		0%
(Till BC)		
BC		
DBM		0%
СТВ		0%
CTSB		0%
Sub-Grade		0%
Embankment		0%
Тор		
C&G		0%

Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode under Bharatmala Pariyojna in the state of Madhyapradesh

1.2(B) Structures:

Type of Structure	NOS	In- progress	Completed	Balance to be tackled
Culverts	95	10	0	85
SVUP	3	0	0	3
LVUP	3	0	0	3
VUP	2	0	0	2
ROB	1	0	0	1
Minor Bridge	32	0	0	32
Major Bridge	2	0	0	2
MCW	1	0	0	1
Ramp	2	0	0	2

Ujjain-Garoth Pkg-III

Monthly Progress Report November- 2022

Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode under Bharatmala Pariyojna in the state of Madhyapradesh

1.3 Detailed Strip Plan

1.4 Current issues and recommended action by IE:

Issues: -

1. Getting possession of 3.085 balance km length of project Highway.

IE's recommendations: -

1. Concessionaire should assist Project director by providing of detailed status of balance land those 3G awarded but land was not taken in possession even after expiring of 1 months' notice period of any appeal. In addition, for Liasoning with land owners for taking possession of land.

2. Project Overview

2.1 Salient Feature of Project

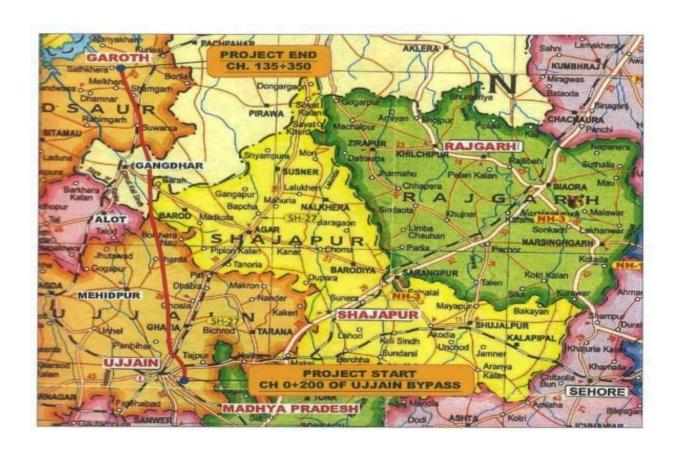
S.N.	Doung										
1	Project Construction of Four Laning of Ujjain Garoth (Packag Suhagada to Bardiya Amra from Km 89+236 to Km 13 section of NH-148NG in the state of Madhyapradesh:										
		(Package-III)									
2	NH No.	148NG									
3	Mode of Execution	HAM									
4	Client/ Authority	National Highways Authority of India									
5	Authority's Engineer	M/s L.N.Malviya Infra Project Pvt.Ltd In Association With M/s Infratech Civil Solutions Consultant.									
6	Concessionaire	M/s MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd									
7	Safety Consultant	Yet to Appoint.									
8	Proof Consultant	Yet to Appoint.									
9	Design Consultant	MKC Infrastructure Ltd.									
10	Project Chainages	Ch. 89+236 to 135+351									
11	No of lanes/ configuration	4 Lane									
12	Contract Price	Rs. 598.00									
13	Date of LOA	07.03.2022									
14	Agreement Date	20.04.2022									
15	Appointed Date	17.10.2022									
16	Scheduled Date of Completion	18.06.2024									
17	Construction Period	Issuance 21 Months (610 Days)									
18	Maintenance Period	15 Year from the date of Completion Certificate									
19	Retention Money	Maximum 5 % of Contract Price									

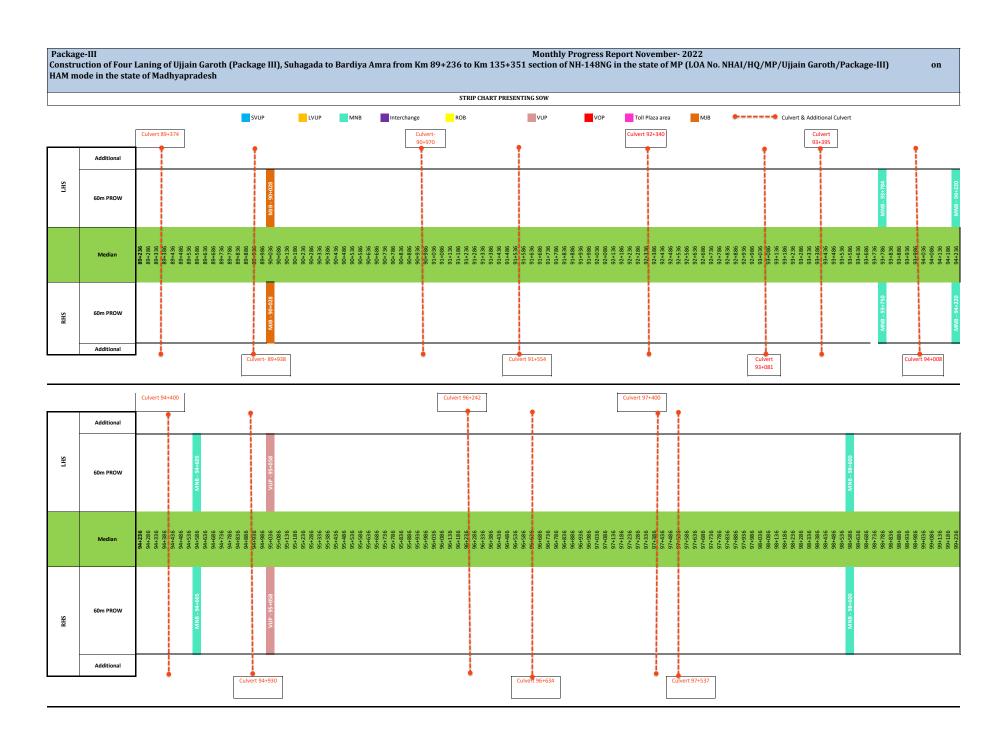
2.2 Project Milestone

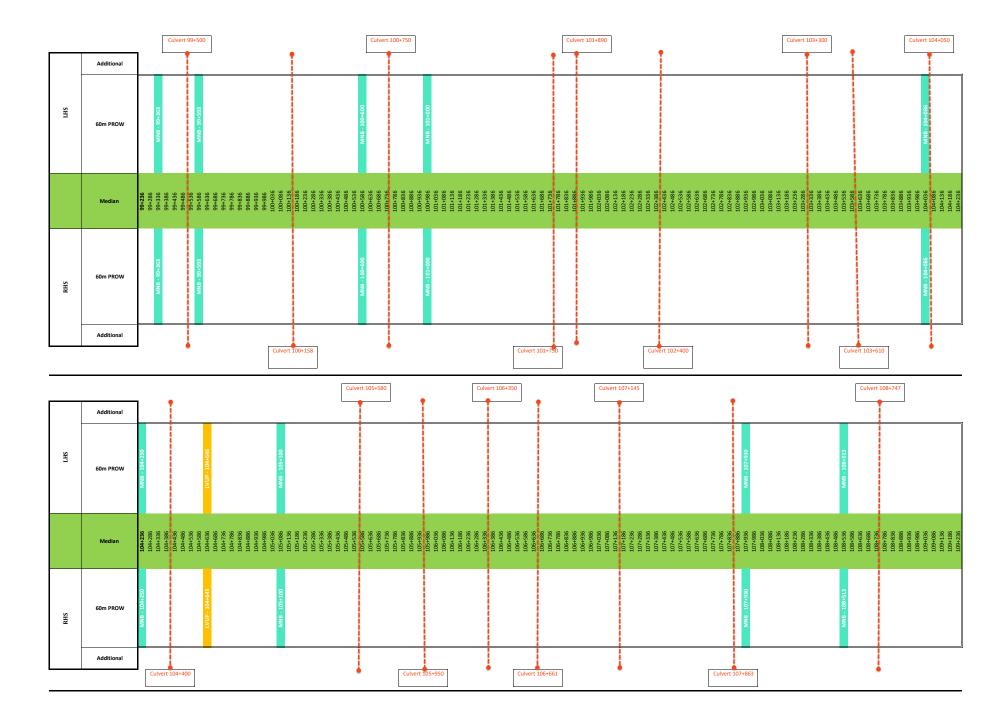
Milestone	Description	Target Date	Revised	
			Date	
Milestone-I	133rd Days from the Appointment			In Progress
	Date and the Financial Progress not	27 th February	-	
	less than 20% of Contract Price	2023		
Milestone-II	300 th Days from the Appointment		-	
	Date and the Financial Progress not	13 th August		
	less than 35% of Contract Price	2023		
Milestone-III	404 th Days from the Appointment		-	
	Date and the Financial Progress not	25 th November		
	less than 75% of Contract Price	2023		
Milestone-IV	610 th Days from the Appointment			
Scheduled	Date and the Financial Progress not	18 th June 2024		
completion	less than 100% of Contract Price			
Date				

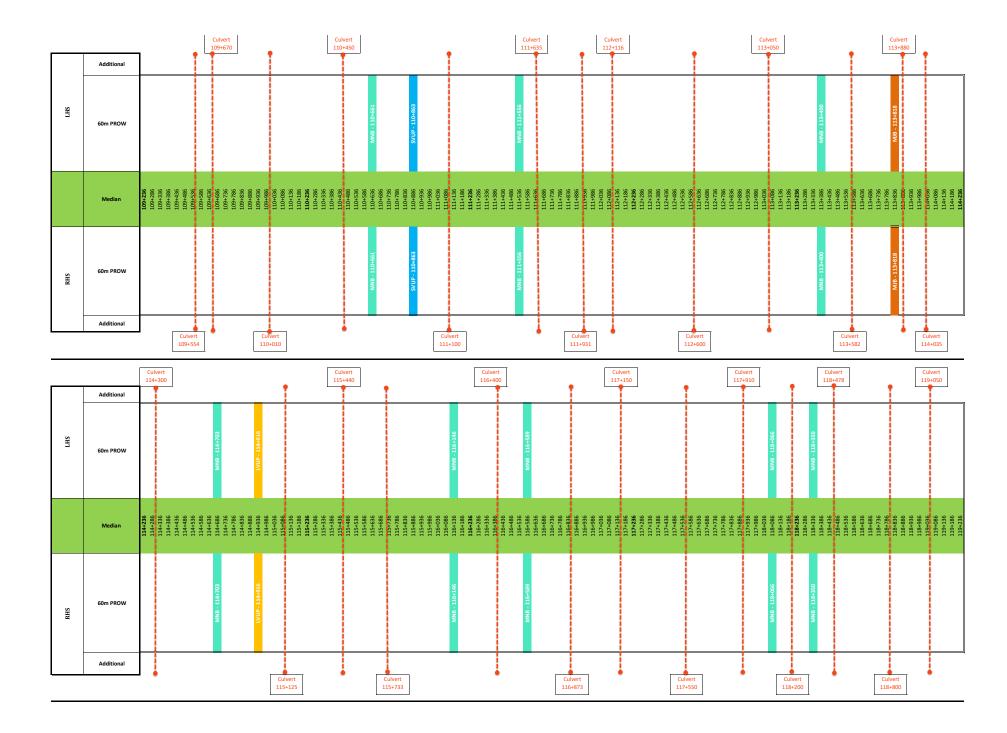
2. Project Overview

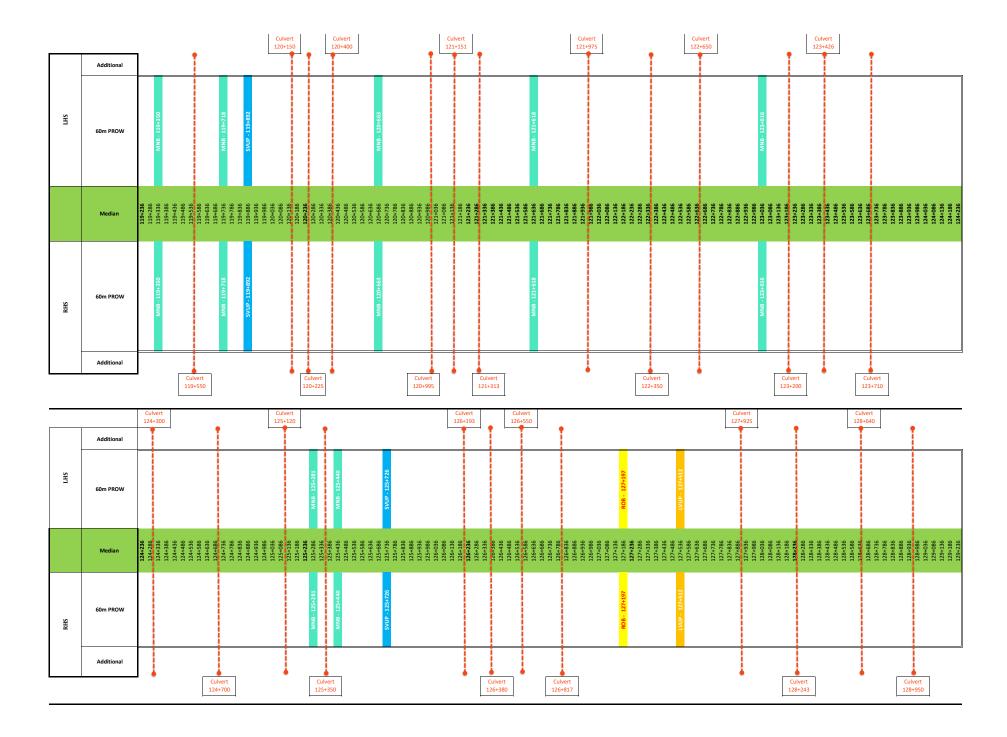
2.1 Location Map

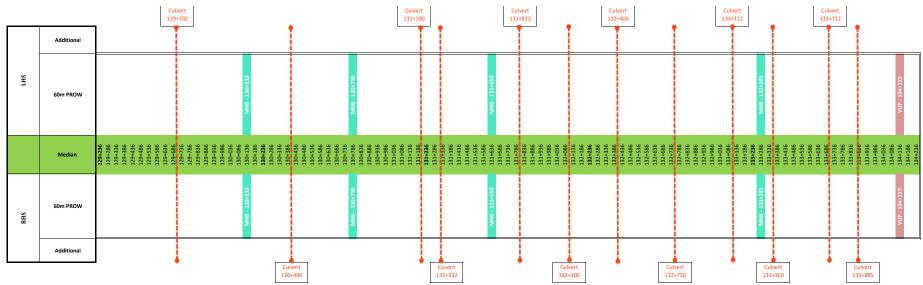












						ver																			
	Additional				1																				
SHTI	60m PROW																			MNB - 130+133					
	Median	134+236	134+286	134+336	134+386	134+436	134+486	134+536	134+586	134+636	134+686	134+736	134+786	134+836	134+886	134+936	134+986	135+036	135+086	135+136	135+186	135+236	135+286	135+336	135+386
RHS	60m PROW																			MNB - 130+133					
	Additional																								

Culvert 29+533

3. Critical issues and action log

3.1 Pending Issues and action log

Sl. No	Issue Description	- 0 - 0	Concerned Independe nt	Length affected (km)	Action(s) taken till now	Action(s) suggested by the IE	Expe cted date	Remarks (Letter and clause ref, if any)
1	Asset's payments		NHAI					Under Process
2	Balance Land Acquisition		NHAI	3.085 km	3.085 km			Under Process
3	HT Line Shifting		NHAI					
4	Approval for Design and Drawings		NHAI					Under Process

3.2 Obligations as per Concessionaire

3.2.1 Obligations of Independent Engineer

Sl. No.	Clause no.	Obligation	Status	Remarks/Letter references
1	Article 4.1	Status of Condition Precedent		
2	Article 11	Shifting of Electrical Utilities	In Progress	
3	Article 21	Appointment of Independent's Engineer	Appointed	

3.2.2 Obligations of Concessionaire

Sl. No.	Clause no.	Obligation	Status	Remarks/Letter references
1	Article 9	Performance Bank Guarantee		
2	Article 9	Balance Performance Bank Guarantee		
3	Article 11	Shifting/Relocation of Electrical Utilities		
4	Article 26	Proposed Insurance Policies As per Article 20		
6	Article 18.1.2	Appointent of Safety Consultant	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/37 Dated-2-11-2022

7		Appointment of Design Director		
8	Article 10	Applicable Permit		
a)		Permission of state government for extraction of boulder from quarry	Permission Recieved	
b)		Permission of village panchayats and pollution control board for installation of crushers	Obtained	
c)		License of use of explosives	Obtained	
d)		Permission of state government of drawing of water from river/reservoir	Obtained	
e)		License from inspector of factories or other competent Independent for setting up batching plant	Obtained	
f)		Clearance of pollution control board for setting up batching plant	Obtained	
g)		Permission of village panchayats and pollution control board for setting up asphalt plant	Obtained	
h)		Permission of village panchayats and state government for borrow earth.	Obtained	
i)		Labour License	Applied	
9		Handover Memorandum	Submitted	
10		Pavement Design Report	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/34 Dated-2-11-2022
11		Plan and Profile & Typical Cross Section	In Progress	
12		Quality Assurance Plan & Manual	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/35 Dated-2-11-2022
13		Construction Methodology	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/41 Dated-4-11-2022

4. Physical Progress

Sl. No.	Component	% Weightage	Physical Progress (During This Month)	Physical Progress (Cumulative, Up to Current Month)	Remarks	
1	Road Works - (Main Carriageway)	35.80%	3.26%	4.35%		
2	Minor Bridge works, underpasses, overpasses &,Box Culvert,& Major Bridge Structures	28.27%	0.49%	0.49%		
3	ROB	12.47%	-	-		
4	Other Works	23.46%	-	-		
	Physical Progress	100%	3.75%	4.84%		

4. ROB Physical Progress

Sl. No.	Description	Status	Remarks
1	Survey	Done	
2	Topo Survey	Done	
3	3D	Under progress	

Detailed Physical Progress-

			Detailed Phy	sical Progress						
ltem	Stage for measurement of Physical Progress	Unit	Planned Scope (As per Scope of work)	Weightage in percentage to the Contract Price	Total Amount	Rate per unit	Progre ss Till date	% of Physic al Progre	Physi	Remar k
	B-New realignment/bypass									
	(1) Earthwork up to top of the sub-			15.68%	937,664,000					
	grade	Km	46.056	10.0071	001,001,000	20,359,214.87				
	(2) Granular work (sub-base, base, shoulders									
	(a) CTSB	Km	46.056	5.70%	340,860,000	7,400,990.10				
Road Works	(ь)СТВ	Km	46.056	3.43%	205,114,000					
riodd works	(3) Shoulders	Km	46.056	0.06%	3,588,000	77,905.16				
	(4) Bituminous work	Km								
	(a) DBM	Km	46.056	6.39%	382,122,000	8,296,899.43				
	(b) BC	Km	46.3	4.54%	271,492,000	5,863,758.10				
	(5) Rigid Pavement	Km		0.00%	-					
	Concrete work	Km		0.00%	-					
				35.80%	2,140,840,000					
	C- New culverts, minor bridges,									
Culvert	underpasses, over passes on existing road,				-					
Cuivert	realignments, bypasses:									
	(1) Cluverts	No	95	7.81%	467,038,000	4,916,189.47				
	(2) Minor bridges	No		0.00%	-					
	(a) Foundation	No	32	5.52%	330,096,000	10,315,500.00				
MNB	(b) Sub-structure	No	32	4.80%	287,040,000	8,970,000.00				
	(c) Super-structure (including crash barriers			4.81%	287,638,000					
	etc. complete	No	32	4.01%	201,030,000	8,988,687.50				
	(5) Grade separated structures				-					
	(a) Underpasses			0.00%	-					
11-1	(i) Foundation	No	8	0.05%	2,990,000	373,750.00				
Underpass	(ii) Sub-structure	No	8	1.74%	104,052,000	13,006,500.00				
	(iii) Super-structure (including crash barriers			0.4747	10.100.000					
	etc. Complete)	No	8	0.17%	10,166,000	1,270,750.00				
	C-New Major Bridges				-					
	(1) Foundation			0.00%	-					
Maias Baidasa saada	(b) Pile Foundation/Well Foundation	No	2	1.51%	90,298,000	45,149,000.00				
Major Bridges works	(2) Sub-structure	No	2	0.42%	25,116,000	12,558,000.00				
	(3) Super-structure (including crash barriers				00 112 000					
	etc.complete	No	2	1.44%	86,112,000	43,056,000.00				
				28.27%	1,690,546,000					

Package-III Monthly Progress Report November- 2022
Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode in the state of Madhyapradesh

	D - New rail-road bridges	I	I	I	- 1	1	1	1	1
	(a) ROB				_			\neg	\top
	(1) Foundation	No	1	0.57%	34.086.000	34,086,000.00			\top
	(2) Sub-structure	No	1	0.33%	19,734,000	19,734,000.00			\top
ROB ₩orks	(3) Super-structure (including crash barriers					,,			+
	etc.complete	No	1 1	1.47%	87,906,000	87,906,000.00			
	(4) Reinforced Earth Wall (Includes					- 1,7,1			+
	Approaches of ROB, Underpasses,	Sam.	31412	10.10%	603,980,000	19,227.68			
		Oqm.	01412	12.47%	745,706,000	10,221.00	$\overline{}$	+-	+
	(i) Service roads/ Slip Roads	Km	8,862	0.85%	50,830,000	5,735,725.57	$\overline{}$	+-	+
	(ii) Toll Plaza	No	0.002	0.00%	-	0,100,120.01	$\overline{}$	+-	+
	(a) Main Toll Plaza	No		1.55%	92,690,000		-	+-	+
	(b) Toll Plaza on Every Entry & E Ramp	No	4	2.94%	175,812,000	43,953,000.00	-	+-	+
	sni	Km	<u> </u>	0.00%	- 110,012,000	40,000,000.00	$\overline{}$	+-	+
	(iv) Road signs, markings, km stones, safety	13111					$\overline{}$	+-	+
	devices,			1.94%	116,012,000			- [
	(a) Road signs, marking, km stones	Km	46.3	0.34%	20,332,000	439,136.07	-+-	+	+
	(b) Concrete Crash Barrier/ W-Beam Crash	15111	40.0			400,100.01	-+-	+	+
	Barrier in Road work	Lm	151.5	9.49%	567,502,000			- [
	(c) Steel Railing	Km	5.57	0.08%	4,784,000		-+-	-	+
	(v) Project facilities	KIII	3.31	0.00%	4,104,000		-+-	+	+
	(a) Bus Shelter	No.	4	0.00%	1,196,000		-+-	+	+
	(b) Truck lav-byes	No.	1	0.00%	1,130,000		-+-	+	+
	(c) Rest areas	No.	i	0.92%	55,016,000		-+-	+	+
	(d) Electrification	140		0.51	30,498,000		-+-	+	+
	(e) Toilet Block	No.	22	0.21%	12,558,000		-+-	+	+
	(vi) Repairs to bridges/structures	No.	46	0.00%	12,330,000		-+-	+	+
	(vii) Road side plantation	km	4	0.84%	50,232,000		-+-	+	+
	(viii) Protection works	KIII		0.047.	30,232,000		-+-	+	+
Other Works	(a) Boulder Pitching on slopes	Km	0.6	0.15%	8,970,000		-+-	+	+
	(b) Toe/Retaining wall / Boundary Wall	Km	2.6	0.11%	6,578,000		-+-	+	+
	(c) River Training Work	Km	0.57	0.16%	9,568,000		$\overline{}$		+
	(ix) Tunnel	15111	0.01	0.00%	- 3,300,000		$\overline{}$		+
	(a) Excavation	Meter		0.00%	_				+
	(b) Construction of support system including	rietei					$\overline{}$		+
	rock bolting, lining etc.	Meter		0.00%	-				
	(c) On complete completion of tunnel	Meter		0.00%	_		-+-		+
	(x) Miscellaneous	Lump sum		0.00%	_				+
	(a) Ramp for Clover Leaf	Km		0.00%	_		$\overline{}$		+
	(b) Ramps for Major Bridge	Km		0.00%			$\overline{}$		+
	(C) Connecting Road	Km	2.363	0.43%	25,714,000		$\overline{}$	$\overline{}$	+
	(d) Tree Cutting	Km	46.3	0.02%	1,196,000		$\overline{}$		+
	(e) Junction	15111	40.0	0.027	-				+
	Major Junction	No.	7	0.22%	13,156,000		$\overline{}$	$\overline{}$	+
	Major Junction	No.	4	0.18%	10,764,000		$\overline{}$	$\overline{}$	+
	(f) Rain Waler Harvesting System	No.	23	0.21%	12,558,000		$\overline{}$	$\overline{}$	+
	(g) Offie Building (Area 500 SQM)	No.		0.20%	12,330,000		-+-	+	+
	(h) ATMS	Km	46.3	2.02%	120,796,000		-+-	+	+
	(i) Pathway	Km	4.6	0.27%	16,146,000		-+	$\overline{}$	+
	() Commay	1311	7.0	23.46%	1,402,908,000		$\overline{}$	$\overline{}$	+
				100.00%	5,980,000,000		-+-		+

5. Land Acquisition and Clearance

5.1 LA Summary

Description	Total Required (Ha)	Total in possession at start (Ha)	Total to be Acquired in (Ha)
Existing ROW			
Pvt. Land To be Acquired	228	284	20.906
Govt. Land To be Transferred	56		
Grand Total	304.906	284	20.906

7. Mobilization of Resources

7.1 Resource mobilization by contractor/ concessionaire Equipment Resources

S.No.	Item Description	Unit	Quantity
1	Hydraulic Excavator (20 Ton)	Nos.	07
2	Dumpers (25 Ton)	Nos.	35
3.	Wheel Loader	Nos.	04
4.	Motor Grader	Nos.	10
5	Crane /Hydra	Nos.	02
6	VTR ROLLER	Nos.	01
7	Pneumatic Tyre Roller (PTR)	Nos.	01
8	Backhoe Loader	Nos.	03
9	Soil Compactor	Nos.	14
10	Mobile Crane	Nos.	02
11	Transit Mixers	Nos.	10
12	Water Tanker	Nos.	03
13	Trailer	Nos.	02
14	Weigh Bridge	Nos.	02
15	Utility Vehicles	Nos.	05
16	Crusher Plant	Nos.	02
17	WMM Plant	Nos.	01
18	Concrete Batching Plant (CP 30)	Nos.	02
19	Broomer	Nos.	03
20	Concrete Batching Plant	Nos.	02
21	Browser	Nos.	04
22	Hot Mix Plant	Nos	01
23	DG Sets	Nos.	08
24	Diesel Tanker	Nos.	02
25	Bike	Nos.	11
26	LMV	Nos.	10
27	Compressor	Nos.	05
		Total	152

Manpower Resources

Sl. No.	Name	Description	Nos.
A		Key personnel	
1	Mr.Jaibir Singh	CGM	1
2	Mr. Ashok Kumar Tripathi	SGM- Highway	1
3	Mohd.Alam	Sr.Project Manager	1
В		Highways	
1		Sr. Engineer/Jr. Engineer/Engineer	12
2	Deepak Dubey	Survey Manager	1
3	Ajay Kumar Morya	Sr. Surveyor	1
4		Asst. Surveyor/Surveyor	8
C		Structures	
1	Sanjeev Kumar	Dy. Project Manager	1
2		Sr. Engineer/Site Engineer/Jr. Engineer	4
3		Supervisor/Senior Supervisor	10
D		Quality Assurance/Control	
1	Anjani Kumar Tiwari	Manager	1
2		Sr. Engineer/Engineer	2
3		Jr. Engineer /Technician/ Lab. Technician	13
E		Planning & Billing	
1	Manmohan Singh Yadav	Manager (Planning & Billing)	1
2		Sr. Engineer	2
3		Ass. Engineer	1
4		Engineer	1
\mathbf{F}		Plant & Equipment	
1	Mukesh Ranjan Prashad	Sr. Manager	1
2		Sr. Engineer/Engineer/Sr. Supervisor	4
3		Foreman/Mechanic/Electrician/JET	10
G		HR & Admin, Accounts, Purchase, Store, IT	
1	Dharmendra	Manager (Liasioning)	1
2	Naresh	Deputy Manager (Accounts)	1
3	Santosh Yadav	Manager (Purchase & Store)	1
4		Dy. Manager/Asst. Manager	2
5		Executives/Jr. Executives	13
		TOTAL	94

7.2 Mobilization of Sub-Contractor

Earth Work Contractor

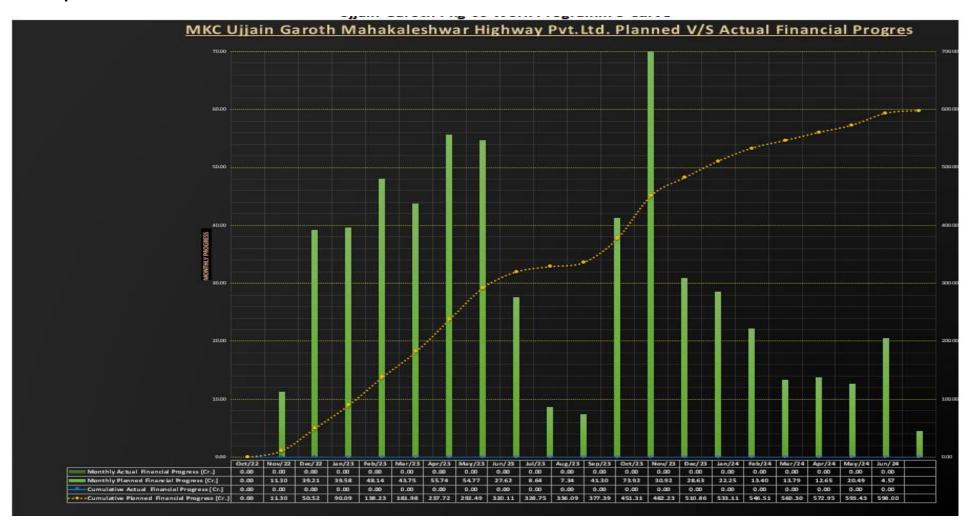
Sr. No	Machinery Name	Numbers
1	Grader	7
2	Roller	10
3	Dumper	50
4	Excavator	14
5	Water Tanker	7
	Total: -	88 Nos

Manpower of Sub-Contractor

S.No.	Subcon. Name	Structure	Highway
1	A K Construction	15	
2	Chamunda infra	12	
3	Global Const	30	
4	HSC Industries	15	
5	Parents Const	14	
6	Jai Maa Durga Construction	10	
7	Shree Balaji Construction	13	
8	Shree Ram Enterprises		10
9	Balaji Earthmovers		08
10	Pooniya Const		23
11	Majisa Const		11
12	Shree Ram & Co.		16
13	Maa Kamakhya Const		13
14	Anand Rulaniya Construction Company		12
	Total: -	109	93

8. Financial Progress-

8.1PenpictureEscrow



8.2 Escrow Details

		Det	ailed Fina	incial Progr	ress				
Stage for measurement of Physical Progress	Unit	Planned Scope (As per scope of work)	Weightage in percentage to the Contract	Total Amount	Rate per unit	Progress Till Date	% of Physical Progress	Value of Physical Progress	Remar
B- New realignment/bypass									
(1) Earthwork up to top of the sub-			15 600/	03.76.64.000					
grade	Km	45.2524	15.68%	93,76,64,000	2,07,20,757.35				
(2) Granular work (sub-base, base, shoulders)									
(a) GSB	Km	45.2524	5.70%	34,08,60,000	75,32,418.17				
(b)WMM	Km	45.2524	3.43%	20,51,14,000	45,32,665.67				
(3) Shoulders	Km	45.2524	0.06%	35,88,000	79,288.61				
(4) Bituminous work	Km								
(a) DBM	Km	45.2524	6.39%	38,21,22,000	84,44,237.21				
(b) BC	Km	46.151	4.54%	27,14,92,000	58,82,689.43				
(5) Rigid Pavement	Km		0.00%	-	***************************************				
Concrete work	Km		0.00%						
			35.80%	2,14,08,40,000					
C- New culverts, minor bridges, underpasses, over passes on existing road, realignments, bypasses:				9					
(1) Cluverts	No	95	7.81%	46,70,38,000	49,16,189.47				
(2) Minor bridges	No		0.00%	-					
(a) Foundation	No	32	5.52%	33,00,96,000	1,03,15,500.00				
(b) Sub-structure	No	32	4.80%	28,70,40,000	89,70,000.00				
(c) Super-structure (including crash barriers etc. complete	No	32	4.81%	28,76,38,000	89,88,687.50				
(a) Underpasses			0.00%	-					
(i) Foundation	No	8	0.05%	29,90,000	3,73,750.00				
(ii) Sub-structure	No	8	1.74%	10,40,52,000	1,30,06,500.00				
(iii) Super-structure (including crash barriers etc.			0.4704	4 04 66 000					
Complete)	No	8	0.17%	1,01,66,000	12,70,750.00				l
C- New Major Bridges				-					
(1) Foundation			0.00%	180					
(a) Open Foundation	No		0.00%	-	#DIV/0!				
(b) Pile Foundation/Well Foundation	No	2	1.51%	9,02,98,000	4,51,49,000.00				
(2) Sub-structure	No	2	0.42%	2,51,16,000	1,25,58,000.00				
(3) Super-structure (including crash barriers etc.complete	No	2	1.44%	8,61,12,000	4,30,56,000.00				
		-	28.27%	1,69,05,46,000	.,00,00,000,000				

(a) ROB (1) Foundation (2) Sub-structure (3) Super-structure (including crash barriers etc.complete (4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. (i) Service roads/ Slip Roads (ii) Toll Plaza (b) Toll Plaza (b) Toll Plaza (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (x) Miscellaneous (d) Tree Cutting (e) Junction Minor Junction Minor Junction No. Major Junction No. Major Junction No.	1 1 1 31412 8.862 4 4	0.57% 0.33% 1.47% 10.10% 12.47% 0.85% 0.00% 1.55%	3,40,86,000 1,97,34,000 8,79,06,000 60,39,80,000 74,57,06,000 5,08,30,000	3,40,86,000.00 1,97,34,000.00 8,79,06,000.00 19,227.68 57,35,725.57		
(2) Sub-structure (3) Super-structure (including crash barriers etc.complete (4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. (ii) Service roads/ Slip Roads (iii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza on Every Entry & E Ramp (iv) Road signs, markings, km stones, safety devices, (ia) Road signs, markings, km stones, safety devices, (a) Road signs, marking, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining Wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	1 31412 8.862 4 4	0.33% 1.47% 10.10% 12.47% 0.85% 0.00% 1.55%	1,97,34,000 8,79,06,000 60,39,80,000 74,57,06,000	1,97,34,000.00 8,79,06,000.00 19,227.68		
(3) Super-structure (including crash barriers etc.complete (4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. (i) Service roads/ Slip Roads (ii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza on Every Entry & E Ramp (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Prodection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	1 31412 8.862 4 4	1.47% 10.10% 12.47% 0.85% 0.00% 1.55%	8,79,06,000 60,39,80,000 74,57,06,000	8,79,06,000.00 19,227.68		
etc.complete (4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. (ii) Service roads/ Slip Roads (iii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza (iv) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Road side plantation (viii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	31412 8.862 4 4	10.10% 12.47% 0.85% 0.00% 1.55%	60,39,80,000 74,57,06,000	19,227.68		
(4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc. (i) Service roads/ Slip Roads (ii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza on Every Entry & E Ramp (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining Wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (Minor Junction Minor Junction Minor Junction No. Major Junction No.	31412 8.862 4 4	10.10% 12.47% 0.85% 0.00% 1.55%	60,39,80,000 74,57,06,000	19,227.68		+ +
ROB, Underpasses, Overpasses, Flyover etc. (i) Service roads/ Slip Roads (ii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza on Every Entry & E Ramp (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones, safety devices, (a) Road signs, marking, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (Minor Junction Major Junction No. Major Junction No.	8.862 4 4	12.47% 0.85% 0.00% 1.55%	74,57,06,000			
(ii) Service roads/ Slip Roads (iii) Toll Plaza (a) Main Toll Plaza (b) Toll Plaza on Every Entry & E Ramp (ivi) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	8.862 4 4	0.85% 0.00% 1.55%				
(ii) Toll Plaza	4 4	0.85% 0.00% 1.55%		57 25 725 57		+ +
(ii) Toll Plaza	4 4	0.00% 1.55%	3,08,30,000		-	+ +
(a) Main Toll Plaza No (b) Toll Plaza on Every Entry & E Ramp No (iii)Road side drains Km (iv) Road signs, markings, km stones, safety devices, (a) Road signs, marking, km stones Km (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work Km (c) Steel Railing Km (v) Project facilities (a) Bus Shelter No. (b) Truck lay-byes No. (c) Rest areas No. (d) Electrification (e) Toilet Block No. (vii) Repairs to bridges/structures No. (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s (b) Ramps for Major Bridge Km (C) Connecting Road (d) Tree Cutting Km (e) Junction Major Junction No. (Major Junction No.	4	1.55%	20 1	31,33,723.37	_	+ +
(b) Toll Plaza on Every Entry & E Ramp (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Tou/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (Minor Junction (Major Junction (No. (Major Junction) (No.	4		9,26,90,000	2,31,72,500.00	-	+ +
(iii)Road side drains (iv) Road signs, markings, km stones, safety devices, (a) Road signs, markings, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.			17,58,12,000	4,39,53,000.00		+
(iv) Road signs, markings, km stones, safety devices, (a) Road signs, marking, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining Wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramp for Major Bridge (C) Connecting Road (d) Tree Cutting (E) Minor Junction (No. (Major Junction) (No.	+	2.94%	17,58,12,000	4,39,33,000.00		+
(a) Road signs, marking, km stones (b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (w) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Repairs to bridges/structures (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (E) Minor Junction (No. (Major Junction) (No.	1	0.00%	-			+
(b) Concrete Crash Barrier/ W-Beam Crash Barrier in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (xi) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction Major Junction No. Major Junction No.	46.151	1.94%	11,60,12,000	25,13,748.35		
in Road work (c) Steel Railing (v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining Wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (E) Project Connection (No. Major Junction (No. Major Junction (No. Major Junction) (A) Mosellaneous (A) Minor Junction (B) Minor Junction (C) Major Junction (C) Massellaneous (C) Major Junction (C) Major Junct	46.151	0.34%	2,03,32,000	4,40,553.83		
(c) Steel Railing Km (v) Project facilities (a) Bus Shelter No. (b) Truck lay-byes No. (c) Rest areas No. (d) Electrification (e) Toilet Block No. (vi) Repairs to bridges/structures No. (vii) Road side plantation km (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (c) Connecting Road Km (d) Tree Cutting Km Minor Junction No. Major Junction No.		9.49%	56,75,02,000			
(v) Project facilities (a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (c) Connecting Road (d) Tree Cutting (e) Junction Minor Junction Major Junction No. Major Junction No.	151.5	9.49%	30,73,02,000	37,45,887.79	65	
(a) Bus Shelter (b) Truck lay-byes (c) Rest areas (d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramps for Clover Leaf (b) Ramps for Major Bridge (c) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	5.57	0.08%	47,84,000	8,58,886.89		
(b) Truck lay-byes No. (c) Rest areas No. (d) Electrification (e) Toilet Block No. (vi) Repairs to bridges/structures No. (vii) Road side plantation km (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel Mete (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lumps' (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km Minor Junction No. Major Junction No.		0.00%				
(c) Rest areas No. (d) Electrification (e) Toilet Block No. (vi) Repairs to bridges/structures No. (vii) Road side plantation km (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (c) Connecting Road Km (d) Tree Cutting Km Minor Junction No. Major Junction No.	4	0.02%	11,96,000	2,99,000.00		
(d) Electrification (e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	1	0.00%			:-	
(e) Toilet Block (vi) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (c) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	1	0.92%	5,50,16,000	5,50,16,000.00	5-9	
(vii) Repairs to bridges/structures (vii) Road side plantation (viii) Protection works (a) Boulder Pitching on slopes (b) Toe/Retaining wall / Boundary Wall (c) River Training Work (ix) Tunnel (a) Excavation (b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction No. Major Junction No.	1	0.51%	3,04,98,000	3,04,98,000.00	9.	
(vii) Road side plantation km (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump si (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (c) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	22	0.21%	1,25,58,000	5,70,818.18		
(vii) Road side plantation km (viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump si (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (c) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.		0.00%	-			
(viii) Protection works (a) Boulder Pitching on slopes Km (b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s: (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (c) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	45.2524	0.84%	5,02,32,000	11,10,040.57		
(b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel Mete (a) Excavation Mete (b) Construction of support system including rock Mete bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lumps (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.		38	-			
(b) Toe/Retaining wall / Boundary Wall Km (c) River Training Work Km (ix) Tunnel Mete (a) Excavation Mete (b) Construction of support system including rock Mete bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lumps (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	0.6	0.15%	89,70,000	1,49,50,000.00	3	
(c) River Training Work Km (ix) Tunnel Mete (a) Excavation Mete (b) Construction of support system including rock Mete bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s' (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	2.6	0.11%	65,78,000	25,30,000.00	- 3	
(ix) Tunnel (a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lump s (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	0.57	0.16%	95,68,000	1,67,85,964.91		
(a) Excavation Mete (b) Construction of support system including rock bolting, lining etc. Mete (c) On complete completion of tunnel Mete (x) Miscellaneous Lumps (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.		0.00%	-			
(b) Construction of support system including rock bolting, lining etc. (c) On complete completion of tunnel Mete (k) Miscellaneous Lumps (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	200	0.00%				
bolting, lining etc. (c) On complete completion of tunnel (x) Miscellaneous (a) Ramp for Clover Leaf (b) Ramps for Major Bridge (C) Connecting Road (d) Tree Cutting (e) Junction Minor Junction Major Junction No. Major Junction No.		The Parameters				
(c) On complete completion of tunnel Mete (x) Miscellaneous Lump s (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction Major Junction No. Major Junction No.	8	0.00%	187		- 1	1 1
(x) Miscellaneous Lump s (a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction Major Junction No.	Ø1	0.00%				
(a) Ramp for Clover Leaf Km (b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	m	0.00%	25	* *		
(b) Ramps for Major Bridge Km (C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.		0.00%	7.8			1
(C) Connecting Road Km (d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.		0.00%			-	
(d) Tree Cutting Km (e) Junction Minor Junction No. Major Junction No.	2.363	0.43%	2,57,14,000	1,08,81,929.75		
(e) Junction Minor Junction No. Major Junction No.	46.3	0.02%	11,96,000	25,831.53	· ·	
Minor Junction No. Major Junction No.		32 22			*	1
Major Junction No.	7	0.22%	1,31,56,000	18,79,428.57	*	
	4	0.18%	1,07,64,000	26,91,000.00	-	1
(f) Rain Waler Harvesting System No.	23	0.21%	1,25,58,000	5,46,000.00	1	1
(g) Offie Building (Area 500 SQM) No.		0.00%	-,,,		*	1
(h) ATMS Km		2.02%	12,07,96,000	26,08,984.88	-	1
(i) Pathway Km	46.3	0.27%	1,61,46,000	35,10,000.00		+ +
(i)	46.3	23.46%	1,40,29,08,000	33,10,000.00	2.0	1
	46.3 4.6		_,,_,_		0%	

10. Monitoring of maintenance obligations during construction phase

10.1 Critical issue and action log

Not Applicable

10.2 Cumulative defects and deficiencies

Project highway work is up to the level of Earthwork, and no defects were noticed in the executed work of embankment and subgrade.

10.3 Status of damage

Not applicable

Monthly Progress Report Nov - 2022

Four Laning of Ujjain Garoth (Package – III) Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP on Hybrid Annuity Mode.

Quality Control Test Report for NOV -2022

		Reference as per IS /			sts Conduc evious Mo			Tests Coning this Mo			sts Conduc this Month		Test Witi	nessed by l	E's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
	L samples	MORTH-900																
1.1	Free Swell Index (FSI)	IS: 2720 (P-40)	As Required	182	182	0	0	0	0	182	182	0	36	0	36	13	0	13
1.2	Grain size analysis	IS: 2720 (P-4)	As Required	182	182	0	0	0	0	182	182	0	36	0	36	13	0	13
1.3	Atterberg's limits (LL & PI)	IS: 2720 (P-5)	As Required	182	182	0	0	0	0	182	182	0	36	0	36	13	0	13
1.4	Proctor test (MDD V/s OMC)	IS: 2720 (P-8)	As Required	182	182	0	0	0	0	182	182	0	36	0	36	13	0	13
1.5	4 days soaked CBR	IS: 2720 (P-16)	As Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Box	row Area Samples	MORTH-900			L				L				I		l.			,
2.1	Free Swell Index (FSI)	IS: 2720 (P-40)	2 tests / 3000 m ₃	550	550	0	80	80	0	630	630	0	110	15	125	42	0	42
2.2	Grain size analysis	IS: 2720 (P-4)	2 tests / 3000 m ₃	550	550	0	80	80	0	630	630	0	110	15	125	42	0	42
2.3	Atterberg's limits (LL & PI)	IS: 2720 (P-5)	2 tests / 3000 m ₃	550	550	0	80	80	0	630	630	0	110	15	125	42	0	42
2.4	` ,	IS: 2720 (P-8)	2 tests / 3000 m ₃	550	550	0	80	80	0	630	630	0	110	15	125	42	0	42
2.5	4 days soaked CBR	IS: 2720 (P-16)	1 test / 3000 m ₃	275	275	0	40	40	0	315	315	0	55	7	62	42	0	42
2.6	Soluble sulphate content	BS: 1337	1 test / per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0 RE	WALL Samples	MORTH-900			•				•									
2.1	Free Swell Index (FSI)	IS: 2720 (P-40)	2 tests / 3000 m ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.2	Grain size analysis	IS: 2720 (P-4)	2 tests / 3000 m ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.3	2 (/	IS: 2720 (P-5)	2 tests / 3000 m ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.4	,	IS: 2720 (P-8)	2 tests / 3000 m ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.5	Shear Test	IS: 2720 (P-39)	1 test / 3000 m ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.6	Soluble sulphate content	BS: 1337	1 test / per source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.0 Fie	ld Density Tests	MORTH-900																
3.1	Field density test on OGL	IS: 2720 (P-28)	1 set of tests / 3000 m ₂	0	0	0	3170	3170	0	3170	3170	0	0	571	571	0	0	0
3.2	Field density test on Emb.	"	1 set of tests /3000 m ₂	0	0	0	4694	4694	0	4694	4694	0	0	845	845	0	0	0
3.3	Field density test on Subgrade	"	1 set of tests / 2000 m ₂	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.4	Field density test on GSB	"	1 test / 1000 m ₂	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.5	Field density test on WMM		1 set of three / 1000 m2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.6	Field density test on Earthen Shoulder		1 set of tests / 2000 m ₂	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.7	Field density test on Backfilling	"	1 set of 2test / 500 m ₂	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.8	Field density test on DLC		1 set of tests / 2000 m ₂	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Reference as per IS /			sts Conduc evious Mo	-		Tests Conding this Mo		1	sts Conduc this Month		Test Witi	nessed by I	E's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
4.0 Co	arse Agg. for Concrete																	
4.1	Gradation	IS: 2386 (P-1)	1 test / day	5	5	0	12	12	0	17	17	0	2	2	4	0	0	0
4.2	Flakiness Index	IS: 2386 (P-1)	Weekly	1	1	0	3	3	0	4	4	0	1	1	2	0	0	0
4.3	Aggregate Impact Value	IS: 2386 (P-4)	Weekly	1	1	0	3	3	0	4	4	0	1	1	2	0	0	0
4.4	Specific Gravity	IS: 2386 (P-3)	Test/Source	2	2	0	0	0	0	2	2	0	1	0	1	0	0	0
4.5	Water Absorption	IS: 2386 (P-3)	Test/Source	2	2	0	0	0	0	2	2	0	1	0	1	0	0	0
4.6	Deleterious Content	IS: 2386 (P-1)	As Required	1	1	0	0	0	0	1	1	0	1	0	1	0	0	0
4.7	Moisture correction	IS: 2386 (P-3)	Per Day	1	1	0	0	0	0	1	1	0	1	0	1	0	0	0
4.8	10% Fine Value	BS: 812 P-3	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.9	Los angles abrasion value	IS: 2386 (P-4)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.10	Soundness	IS: 2386 (P-5)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.11	Alkali Aggregate Reactivity	IS: 2386 (P-7)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4.12	Petrographic Examination	IS: 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.0 Fir	ne Agg. for Concrete																	
5.1	Gradation	IS: 2386 (P-1)	1 test / day	5	5	0	12	12	0	17	17	0	0	2	2	0	0	0
5.2	Specific Gravity	IS: 2386 (P-3)	Test/Source	1	1	0	1	1	0	2	2	0	0	1	1	0	0	0
5.3	Water Absorption	IS: 2386 (P-3)	Test/Source	1	1	0	1	1	0	2	2	0	0	1	1	0	0	0
5.4	Deleterious Content (silt content)	,	As Required	2	2	0	3	3	0	5	5	0	0	1	1	0	0	0
5.5	Moisture correction	IS: 2386 (P-3)	Per Day	1	1	0	12	12	0	13	13	0	0	1	1	0	0	0
5.6	Alkali Aggregate Reactivity	IS: 2386 (P-7)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.7	Soundness	IS: 2386 (P-5)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.8	Organic Impurities	IS: 2386 (P-2)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0 Co	ncrete Cube Compressive strengt	h tests																
	10 Grade																	
	, ,	IS: 516	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0
	,	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	0	0	0	0	0
	15 Grade																	
	,	IS: 516	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0
6.4	for 28 days	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	3	3	0	0	0
For M		TO 516	6 7 1		ı						1			ı				
	•	IS:516	for 7 days	0	0	0	3	3	0	3	3	0	0	3	3	0	0	0
		IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20 kerb			 														<u> </u>
		IS:516	for 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	25 Grade	IS: 516	for 7 days	1 2			2	2					2	2			<u> </u>	
0./	for 7 days	15:510	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0

		Reference as per IS /			sts Conduc evious Mo	-		Tests Coning this Mo			sts Conduc this Month		Test Witi	nessed by I	E's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
6.8	for 28 days	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	0	0	0	0	0
For M	I 30 Grade																	
6.9	for 7 days	IS: 516	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0
6.10	for 28 days	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	0	0	0	0	0
	I 35 Grade																	
6.11	for 7 days	IS: 516	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0
6.12	for 28 days	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	0	0	0	0	0
For M	35 (Pile) Grade	•		•	•			•		•	•		•	•				
6.11	for 7 days	IS: 516	for 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.12	for 28 days	IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For M	I 35 (RE-BLOCK) Grade																	1
6.11	for 7 days	IS: 516	for 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.12	for 28 days	IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For M	I 40 Grade			•	•			•		•	•							
6.12	for 7 days	IS: 516	for 7 days	3	3	0	3	3	0	6	6	0	3	3	6	0	0	0
6.13	for 28 days	IS: 516	for 28 days	0	0	0	3	3	0	3	3	0	0	0	0	0	0	0
For M	I 40 (PANEL) Grade	-		•										•				
6.12	for 7 days	IS: 516	for 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.13	for 28 days	IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For M	45 Grade			•	•			•		•	•							
6.14	for 7 days	IS: 516	for 7 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.15	for 28 days	IS: 516	for 28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For D	LC			•	•			•		•	•							
6.16	for 7 days	IS: 516	for 3 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.17	for 28 days	IS: 516	for 07 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For P	QC CUBE			•	•			•		•	•							
6.16	for 7 days	IS: 516	for 3 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.17	for 28 days	IS: 516	for 07 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For P	QC BEAM			*	•			•		•				•				
6.16	for 7 days	IS: 516	for 3 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.17	for 28 days	IS: 516	for 07 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0 Ce	ement Tests	MORTH 1000	•		•				•		•		•					-
7.1	Fineness of cement	IS: 4031 (P-1)	1 test / lot of cement	1	1	0	1	1	0	2	2	0	1	1	2	0	0	0
7.2	Normal consistency	IS: 4031 (P-4)	1 test / lot of cement	1	1	0	1	1	0	2	2	0	1	1	2	0	0	0
7.3	Initial, final setting times	IS: 4031 (P-5)	1 test / lot of cement	1	1	0	1	1	0	2	2	0	1	1	2	0	0	0

		Reference as per IS /			sts Conduc evious Mo	-		Tests Con			sts Conduc this Month		Test Wit	nessed by l	Œ's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
7.4	Soundness	IS: 4031 (P-3)	1 test / lot of cement	1	1	0	1	1	0	2	2	0	1	1	2	0	0	0
7.5	Compressive strength - 3 days	IS: 4031 (P-6)	for 3 days	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	- 7 days	"	for 7 days	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	- 28 days	"	for 28 days	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
7.6	Chemical properties	IS: 4031	Once per Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Fly																		
8.1	Physical Properties (Fineness)	IS 3812 P-1	Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.2	Suitability for Construction	IS: 516	for 3 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0 Ste	el	MORTH 1000																
9.1	Physical Properties	IS: 1786		0	0	0	3	3	0	3	3	0	0	3	3	0	0	0
9.2	Chemical Properties	IS: 1786		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0 H	T Strands										•							
10.1	Physical Properties	IS: 14268		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.2	Chemical Properties	IS: 14268		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.0 W	ater	MORTH 1000			1		I		1		1		I		1			
11.1	Suitability for Construction	IS: 456		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.0 A	dmixture	MORTH 1000			!		ļ.		!				ļ		!			-
12.1	Suitability for Concrete	IS: 9103		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.0 S	UB-BASE (GSB)	MORTH 401					l		1		1		I		1			
13.1	Gradation	Table 400-2 (Grading-V	')	0	0	0	5	0	5	5	0	5	0	5	5	0	0	0
13.2	Atterberg's limits (LL & PI)	IS: 2720 (P-5)		0	0	0	1	0	0	1	0	0	0	1	1	0	0	0
13.3	Proctor test (MDD V/s OMC)	IS: 2720 (P-8)		0	0	0	1	0	0	1	0	0	0	1	1	0	0	0
13.4	4 days soaked CBR	IS: 2720 (P-16)		0	0	0	1	0	0	1	0	0	0	1	1	0	0	0
13.5	Water Absorption	IS: 2720 (P-3)	Test/Source	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0
13.6	A.I.V	IS: 2386 (P-4)	As Required	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0
14.0 S	UB-BASE / BASE (WMM)	MORTH 406			1		l				1		l		1			
14.1	Gradation	Table 400-12	1 test / 200 m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.2	Atterberg's limits (LL & PI)	IS: 2720 (P-5)	1 test / 200 m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.3	Proctor test (MDD V/s OMC)	IS: 2720 (P-8)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.4	A.I.V	IS: 2386 (P-4)	1 test / 1000 m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.5	FI & EI	IS: 2386 (P-1)	1 test / 500 m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.6	Water Absorption	IS: 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Soundness	IS: 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	umen VG-40	` ′			<u> </u>			,							<u> </u>			
15.1	Specific Gravity at 27 ₀ C	IS: 2380 (P-4)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Reference as per IS /			sts Conduc evious Mo			Tests Con			sts Conduc this Month	_	Test Witi	nessed by I	E's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
15.2	Softening Point(oc)	IS: 1205	1 test per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.3	Penetration at 250c 100gm 5 Sec	IS: 1203	1 test per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.4	Ductility at 27 ₀ c	IS: 1208	1 test per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.5	Viscosity at 60 ₀ /135 ₀ C (CST)	IS: 1206	As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Absolute viscosity		As required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. En	nulsion	MORTH 503																
16.1	RS 1 (Tack coat)	IS: 8887	Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.2	SS 1(Prime coat)	IS: 8887	Per Lot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.0 R	ATE OF SPRAY	MORTH 503																
17.1	Prime coat	As per MORTH& H	3 test / day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17.2	Tack Coat	As per MORTH& H	3 test / day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.0 D	ENSE BITUMINOUS MACADAM	GRADING- 2	MORTH 505															
18.1	Binder Content	As per MORTH& H	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.2	Combined Gradation	As per MORTH& H	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.3	Marshall Test (in Sets)	ASTM D 1559	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.4	A.I.V	IS: 2386 (P-4)	1 test / 350 m3 of Agg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.5	FI & EI	IS: 2386 (P-1)	1 test / 350 m3 of Agg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.6	Water Absorption & Specific Gravity	IS: 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.7	L.A.V.	IS: 2386 (P-4)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.8	Stripping Value	IS: 6241	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.9	Core Density Test		1 test / 700 sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Reference as per IS /			sts Conduc evious Mo	-		Tests Concing this Mo			sts Conduc this Month	-	Test Witi	nessed by I	E's Rep.	Test Wit	nessed by Rep.	NHAI
S.No.	Name of test	MORTH		Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed	Up to previous Month	During this Month	Total	Up to previous Month	During this Month	Total
19.0 D	ENSE BITUMINOUS MACADA	AM GRADING- 1	MORTH 505															
19.1	Binder Content	As per MORTH& H	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.2	Combined Gradation	As per MORTH& H	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.3	Marshall Test (in Sets)	ASTM D 1559	1 test / 400 Tonne Mix	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.4	A.I.V	IS: 2386 (P-4)	1 test / 350 m3 of Agg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.5	FI & EI	IS: 2386 (P-1)	1 test / 350 m3 of Agg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.6	Water Absorption & Specific Gravity	IS: 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.7	L.A.V.	IS: 2386 (P-4)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.8	Stripping Value	IS: 6241	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19.9	Core Density Test	As per MORTH& H	1 test / 700 sqm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total		3248	3248	0	8330	8317	5	11578	11565	5	669	1534	2203	262	0	262

Total Tests Conducted this Month		8330
Total Tests Witnessed by IE's this Month		1534
Total Test Witnessed by IE's in % this Month	18.4	12%

Total Tests Conducted this Month	8330
Total Tests Witnessed by NHAI this Month	0
Total Test Witnessed by NHAI in % this Month	0.00%

Concessionaire's Representative

Independent Engineer's Representative

Four Laning of Ujjain Garoth (Package – III) Suhagada to Bardiya Amra from Km 89+236 to Km 135+351 section of NH-148NG in the state of MP on Hybrid Annuity Mode.

Weather Report for the Month of NOV -2022

SL.		TEMPE	RATURE	REL. HU	MIDITY		RAIN	CUMM.	
NO.	DATE	MIN.	MAX.	MIN.	MAX.	WEATHER	FALL	RAIN	REMARKS
-)	(mm)	FALL	
1	01.11.2022	17.8	30.9	50	72	Mostly Cloudy	0	0	
2	02.11.2022	18.1	31.2	51	73	Mostly Cloudy	0	0	
3	03.11.2022	16.3	29.0	51	70	Mostly Cloudy	0	0	
4	04.11.2022	17.4	31.4	50	74	Mostly Cloudy	0	0	
5	05.11.2022	16.8	29.1	49	68	Mostly Cloudy	0	0	
6	06.11.2022	15.9	28.7	48	69	Mostly Cloudy	0	0	
7	07.11.2022	14.8	28.1	49	70	Mostly Cloudy	0	0	
8	08.11.2022	15.3	29.2	50	71	Mostly Cloudy	0	0	
9	09.11.2022	13.8	28.8	48	72	Mostly Cloudy	0	0	
10	10.11.2022	14.1	29.3	49	68	Mostly Cloudy	0	0	
11	11.11.2022	13.7	30.1	50	74	Mostly Cloudy	0	0	
12	12.11.2022	12.9	29.7	47	67	Mostly Cloudy	0	0	
13	13.11.2022	13.1	28.6	49	69	Mostly Cloudy	0	0	
14	14.11.2022	14.7	30.1	50	71	Mostly Cloudy	0	0	
15	15.11.2022	15.1	31.2	48	70	Mostly Cloudy	0	0	
16	16.11.2022	14.6	29.8	47	66	Mostly Cloudy	0	0	
17	17.11.2022	13.8	30.1	51	74	Mostly Cloudy	0	0	
18	18.11.2022	14.3	29.9	49	70	Mostly Cloudy	0	0	
19	19.11.2022	13.4	30.1	48	67	Mostly Cloudy	0	0	
20	20.11.2022	12.8	31.1	49	69	Mostly Cloudy	0	0	
21	21.11.2022	13.3	30.7	47	70	Mostly Cloudy	0	0	
22	22.11.2022	14.3	32.4	48	71	Mostly Cloudy	0	0	
23	23.11.2022	15.2	32.7	50	70	Mostly Cloudy	0	0	
24	24.11.2022	13.1	31.6	46	67	Mostly Cloudy	0	0	
25	25.11.2022	14.6	30.1	48	70	Mostly Cloudy	0	0	
26	26.11.2022	15.1	32.3	47	71	Mostly Cloudy	0	0	
27	27.11.2022	14.3	29.7	48	69	Mostly Cloudy	0	0	
28	28.11.2022	13.7	30.2	50	71	Mostly Cloudy	0	0	
29	29.11.2022	13.3	29.3	46	68	Mostly Cloudy	0	0	
30	30.11.2022	12.7	28.4	45	67	Mostly Cloudy	0	0	
		Totally T	his Mont	h Rain Fa	all				
R	ain Fall					This Mo	nth	0	
(in mm)								

Monthly Progress Report November-2022 Package-III

Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+200 to Km 135.351 section of NH-148NG in the state of MP (LOA No. NHAI/HQ/MP/Ujjain Garoth/Package-III) on HAM mode in the state of Madhyapradesh

11.2 ACCIDENT DATA REPORT- November-2022

Stretch:- 89+236 To 135+351

Stretch Chainage:- Suhagada to Baradiya Amra

M.P. District:-Mandasur & Jhalawar Police Station: Shamgarh, Garoth, Suwasara, Dug

				A *	B*	C*	D*	E*	F*	G*	Н*	J*		No. of Pers	ons Affected				
SI. I	Date No. (DD:MM:YY	Location: Chainage/Km	Time of Accident									Vehicle Type/ Pedestrian Involve	d				No. of Animals	Help provided by the ambulance/patrol	Remarks
)	Channage/Kin	(AM/PM)	Accident Location	Nature of Accident	Classification of Accident	Causes	Road Feasture	Road Condition	Intersection Type	Weather Condition	Vehical Registration No.	Fatal e	Grevious Injury	Minor Injury	Not Injured	Killed if any	vehicles	
								Upt	o End of Octobe	er-2022, no accident	was occurred			ı		1			

Concessionaire Representative Independent Engineer Representative

* Legend: Use notations given here to fill the data in the columns

A. Urban/Rural and Details of Surrounding Landuse.

B.1-Overturning, 2-Head on Collision, 3-Rear End Collision, 4-Collision Brush/Side Wipe, 5-Right Turn Collision, 6-Skidding,, 7-Left Turn Collision, 8-Others (Pl. Specify)

C.1-Fatal, 2-Grovious Injury, 3-Minor Injured, 4-Non Injury.
D. 1-Drunken, 2-Overspeeding, 3-Vehicle out of control, 4-Fault of driver of motor vehicle/cyclist/passenger, 5-Defect in mechanical condition of motor vehicle /road condition.

E. 1-single lane, 2-two lanes, 3-three lanes of more without central divider, 4-Four lanes or more with central divider

F. 1-Single lane, 2-slight curve, 3-Sharp curve, 4-Flat Road, 5-Gentle incline, 6-Steep incline, 7-Hump, 8-Dip.

G. 1-TJunction, 2-Y Junction, 3-Four arm Junction, 4-Staggered Junction, 5-Junction with more than four arms, 6-Roundabout junction, 7-Manned Rail crossing, 8-Unmanned Rail crossing,

H. 1-Fine, 2-Mist/Fog, 3-Cloudy, 4-Light rain, 5-Heavy rain, 6-Hail/Sleet, 7-Snow, 8-Strong Wind, 9-Dust Storm, 10-Very Hot, 11-Very cold, 12-Other extraordinary weather condition.

J. 1-Car, 2-SUV, 3-Bus, 4-Mini bus, 5-Truck, 6-2Wheelar, 7-3Wheelar, 8-Cylce, 9-Pedestrian.

12. Visit & Meeting

S.N.	Date	Visit & Meeting
1.	26.08.2022	Manager Tech.(NHAI PIU Ujjain) inspected the project site of Package-III
2.	01.11.2022	Team Leader inspected the project site of Package-III
3.	08.11.2022	Project Director NHAI PIU Ujjain) inspected the project site of Package-III
4.	17.11.2022	Project Director NHAI PIU Ujjain) inspected the project site of Package-III
5.	03.12.2022	Project Director NHAI PIU Ujjain) inspected the project site of Package-III

UG-III Site Photograph



FDD Testing of OGL Layer



FDD Testing of Embankmenrt layer



Chainage Pillar Erection







FDD Testing of embankment Layer