



Monthly Progress Report –November 2023



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Name of the 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-752D 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.**



Concessionaire:-



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

MONTHLY PROGRESS REPORT

NOVEMBER-2023



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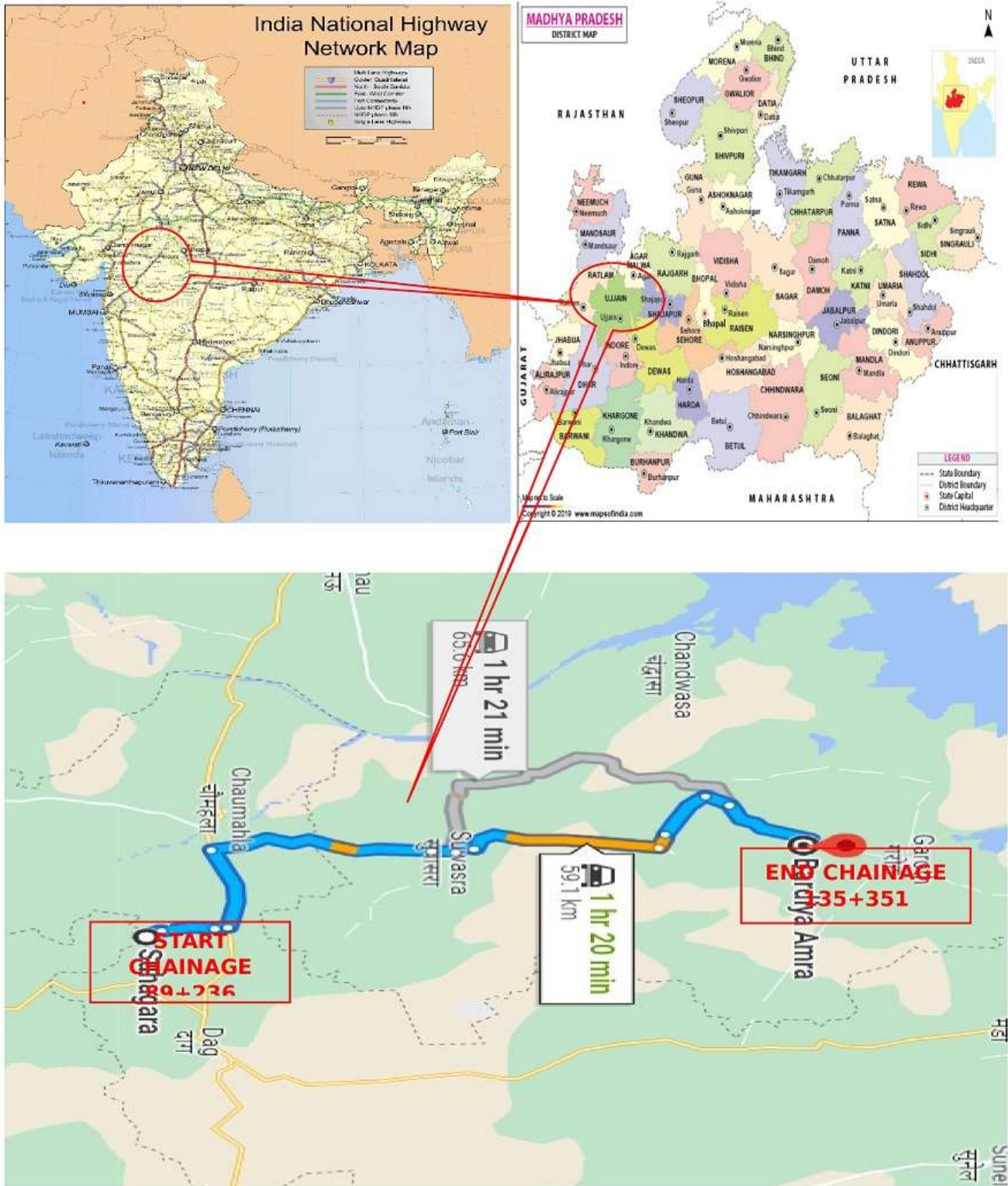
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1. SALIENT FEATURES OF THE PROJECT

SR NO	NAME	DESCRIPTION
1	Project Name	“Construction of Four Laning of Ujjain Garoth (Package III), Suhagada to Bardiya Amra from Km 89+236 to Km 135.351 section of NH-752D 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. Package-III”
2	Length of the Project	46.115 Km
3	Bid Project Cost	598.00 Cr
4	Authority	NATIONAL HIGHWAY AUTHORITY OF INDIA
5	Independent Engineer	M/s L.N. Malviya Infra Projects Pvt. Ltd.
6	Concessionaire	M/S MKC Ujjain-Garoth Mahakaleshwar Highway Pvt. Ltd.
7	EPC	M/s. MKC Infrastructure Limited
8	Safety Consultant	
9	Appointed Date	17-10-2022
10	Construction Period	610 Days from Appointed Date.
11	Schedule Completion Date	18-06-2024
12	Maintenance Period	15 Years commencing from COD
13	IE Appointed Date	28.09.2022

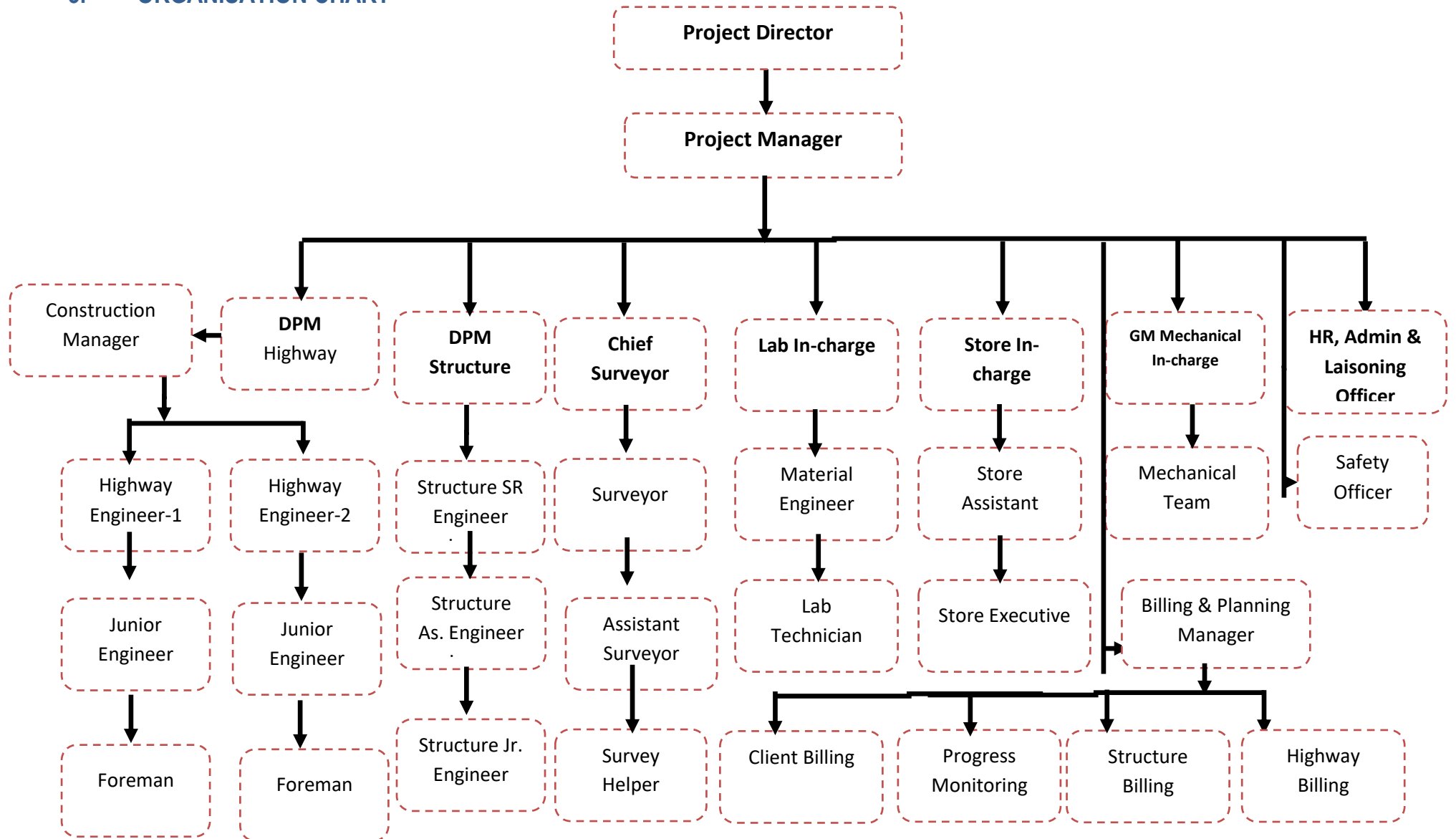
2. LOCATION PLAN



Location Map of the Project (Package- III)



3. ORGANISATION CHART





4. CRITICAL ISSUES AND ACTION LOG

Pending Issues and action log								
Sl. No	Issue Description	Ongoing/ New Issue/ Resolved	Concerned Independent	Length affected (km)	Action(s) taken till now	Action(s) suggested by the IE	Expected date	Remarks (Letter and clause ref, if any)
1	Asset's payments		NHAI					Under Process
2	Balance Land Acquisition		NHAI	0.690 BHS				Under Process
3	EHT Line Shifting		NHAI					Under Process
4	Approval for Design and Drawings		NHAI					Under Process

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	



Obligations of Concessionaire				
Sl. No.	Clause no.	Obligation	Status	Remarks/Letter references
1	Article 9	Performance Bank Guarantee	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/01 Dated-19-05-2022
2	Article 11	Shifting/Relocation of Electrical Utilities		
3	Article 26	Proposed Insurance Policies As per Article 20	Obtained	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/67 Dated-7-12-2022
4	Article 18.1.2	Appointment of Safety Consultant	Done	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/37 Dated-2-11-2022
5		Appointment of Design Director	Done	
6	Article 10	Applicable Permit	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
a)		Permission of state government for extraction of boulder from quarry	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
b)		Permission of village panchayats and pollution control board for installation of crushers	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
c)		License of use of explosives	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
d)		Permission of state government of drawing of water from river/reservoir	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
e)		License from inspector of factories or other competent Independent for setting up batching plant	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
f)		Clearance of pollution control board for setting up batching plant	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
g)		Permission of village panchayats and pollution control board for setting up asphalt plant	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
h)		Permission of village panchayats and state government for borrow earth.	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022



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i)		Labour License	Obtained	MKC Ujjain-Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/68 Dated.08.12.2022
7		Handover Memorandum	Obtained	
8		Pavement Design Report	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/34 Dated-2-11-2022
9		Plan and Profile & Typical Cross Section	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/129 Dated-21-01-2023
10		Quality Assurance Plan & Manual	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/35 Dated-2-11-2022
11		Construction Methodology	Submitted	MKC Ujjain Garoth Mahakaleshwar Highway Pvt.Ltd./2022-23/41 Dated-4-11-2022

5. PROJECT COMPLETION SCHEDULE

SI No	Milestone	Days From Appointed Date (04-03-2022)	% Completion	Scheduled Date	Remarks
1	Milestone-I	133 rd Days	20%	27-02-2023	Achieved as per Milestone C.A .Dated 31-03-2023
2	Milestone-II	300 th Days	35%	13-08-2023	Achieved as per Milestone C.A .Dated 16-08-2023
3	Milestone-III	404 th Days	75%	25-11-2023	In Progress
4	Schedule Completion	610 th Days	100%	18-06-2024	

6. PAYMENT DURING CONSTRUCTION

SI No	Payment milestone	On Achieved of Physical Progress	Remarks
1	I (First)	5 % of Physical Progress	Achieved on 31-01-2023
2	II (Second)	10 % of Physical Progress	Achieved on 31-01-2023
3	III (Third)	20 % of Physical Progress	Achieved on 21-04-2023
4	IV (Fourth)	30 % of Physical Progress	Achieved on 28-06-2023
5	V (Fifth)	40 % of Physical Progress	Achieved on 28-08-2023
6	VI (Sixth)	50% of Physical Progress	In Progress
7	VII (Seventh)	60 % of Physical Progress	
8	VIII (Eighth)	70 % of Physical Progress	
9	IX (Ninth)	80 % of Physical Progress	
10	X (Tenth)	90 % of Physical Progress	



7. MOBILISATION OF PLANT & MACHINERY

Plant & Machinery available at site As on 30-11-2023				
S.No.	Item Description	Unit	Quantity	Remarks
1	Excavator (20 Ton)	Nos.	25	
2	Tipper	Nos.	80	
3.	Wheel Loader	Nos.	04	
4.	Motor Grader	Nos.	17	
5	Crane /Hydra	Nos.	07	
6	Soil Compactor	Nos.	20	
7	Backhoe Loader	Nos.	05	
8	Mobile Crane	Nos.	01	
9	Transit Mixers	Nos.	18	
10	Water Tanker	Nos.	19	
11	Trailer	Nos.	02	
12	Weigh Bridge	Nos.	02	
13	Utility Vehicles	Nos.	05	
14	Crusher Plant	Nos.	06	
15	WMM Plant	Nos.	01	
16	Concrete Batching Plant (CP 30)	Nos.	02	
17	Broomer	Nos.	03	
18	Browser	Nos.	04	
19	Hot Mix Plant (In Pipeline)	Nos.	01	
20	DG Sets	Nos.	08	
21	Diesel Tanker	Nos.	02	
22	Bike	Nos.	23	
23	LMV	Nos.	12	
24	Compressor	Nos.	05	
25	Cement Silo 120 MT	Nos.	2	
26	Tractor Trolley	Nos.	7	
27	JCB	Nos.	05	
28	Dozer	Nos.	04	
Total			312	



8. MOBILISATION OF MANPOWER

Sr. No.	Designation	Available at Site	Remarks
Overall Responsibility of Projects			
1	Mr. Manmohan Singh Yadav (Project Coordinator)	1	
2	Mr. Hardik Sukhadia (Project Manager)	1	
3	Mr. Vaibhav Kumar Chouksey	1	
Highways			
3	Mr. Virendra Yadav (Deputy Project Manager)	1	
4	Senior Engineer	4	
5	Engineer	8	
Structure			
6	Mr. Santanu Batyabal (Deputy Project Manager)	1	
7	Mr. Parmeshwar Singh (Manager)	1	
8	Senior Engineer	2	
9	Engineer	2	
10	Junior Engineer/GET/DET	0	
11	Supervisor	10	
Planning & Billing			
12	Miss Nidhi Verma (Sr. Engineer)	1	
13	Mr. Yogendra Singh (Sr. Engineer)	1	
14	Engineer	3	
15	GET/Assistant	3	
Quality Control			
15	Mr. Anjani Kumar Tiwari (Manager)	1	
16	Engineer	2	
17	Jr. Engineer /Technician/ Lab. Technician	13	
Survey			
18	Mr. Deepak Dixit (Manager)	1	
19	Asst. Surveyor/Surveyor	8	
IT			
20	IT Officer	2	
Safety			
21	Engineer	1	
22	Supervisor	0	
Finance & Accounts			
23	Mr. Naresh (Deputy Manager)	1	
24	Mr. Vikash Pandey (Sr. Executives)	0	
HR & Admin			
25	Mr Dharmendar (Manager Liasioning)	1	
26	Mr. Chetan Joshi (Liasioning)	1	
27	Officer	1	

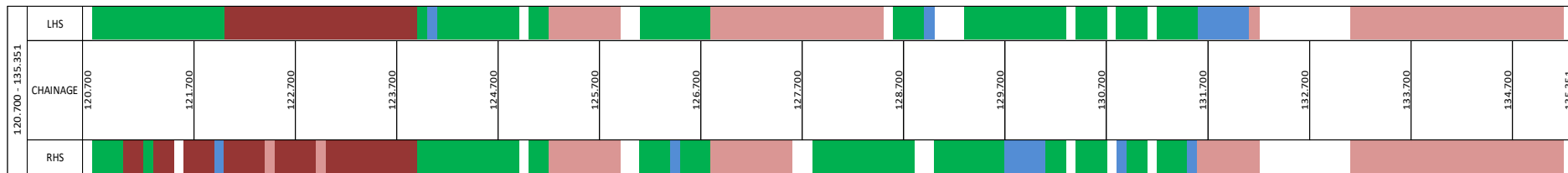
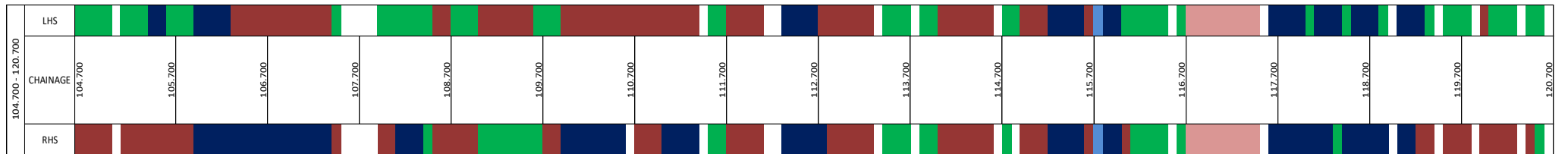
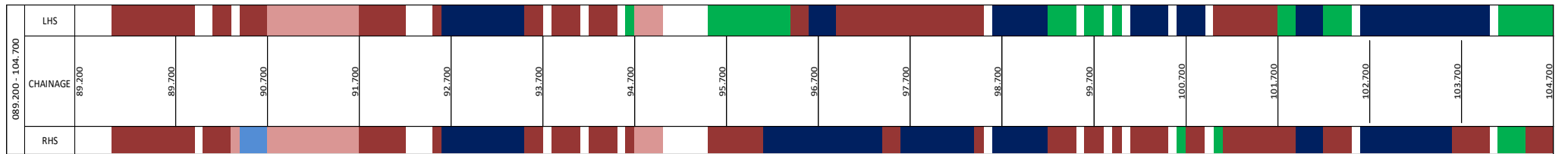


28	Supervisor	1	
Store & Inventory			
29	Mr. Lal Babu Giri (Manager)	1	
30	Executives/Jr. Executives	13	
Plant & Equipment			
31	Mr. Krutibasa Sahoo (Manager)	1	
32	Senior Engineer	1	
33	Engineer	1	
34	Supervisor	3	
35	Foreman/Mechanic/Electrician/GET	10	
Total		99	



9. HIGHWAY STRIP CHART

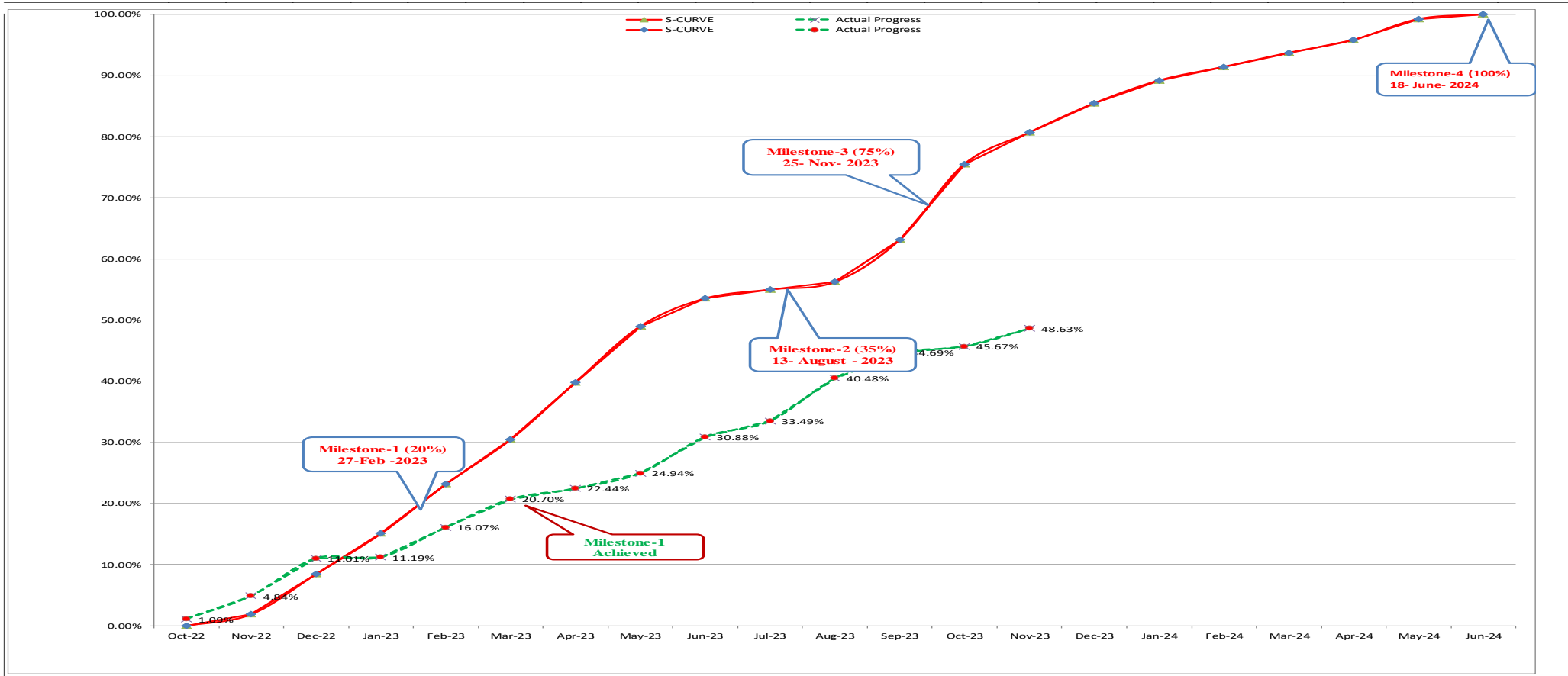
MKC UJJAIN GAROTH MAHAKALESHWAR
 SUHAGADA TO BARDIYA AMRA SECTION OF NH-752-D
 PACKAGE- III (KM 89.200 - 135.351)



C & G
 SUB-GRADE
 GSB
 WMM
 DBM
 BC



10. S-Curve:-



Months	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
Target For the Month	0.00%	1.89%	6.57%	6.63%	8.06%	7.33%	9.34%	9.17%	4.56%	1.45%	1.23%	6.92%	12.37%	5.18%	4.77%	3.73%	2.24%	2.29%	2.09%	3.43%	0.75%
Cumulative Target	0.00%	1.89%	8.46%	15.09%	23.15%	30.48%	39.82%	48.99%	53.55%	55.00%	56.23%	63.15%	75.52%	80.70%	85.47%	89.20%	91.44%	93.73%	95.82%	99.25%	100.00%
Progress For the Month	1.09%	3.75%	6.17%	0.18%	4.88%	4.63%	1.74%	2.50%	5.94%	2.61%	6.99%	4.21%	0.98%	2.96%							
Cumulative Progress	1.09%	4.84%	11.01%	11.19%	16.07%	20.70%	22.44%	24.94%	30.88%	33.49%	40.48%	44.69%	45.67%	48.63%							

11. STRUCTURE STRIP CHART

(A) BOX CULVERT																	
SI No	LHS							P&P Chainage	Chainage as per Schedule-B	Type of Structure	RHS						Remarks
	Parapet wall	U wall	Super Str	Sub Str	Foundation	PCC	Excavation				Excavation	PCC	Foundation	Sub Str	Super Str	U wall	
2								089+375	089+374	BC							
								90+710	090+970	BC							
3								091+547	091+554	BC							
4								092+330	092+340	BC							
5								093+081	093+081	BC							
6								093+395	093+395	BC							
7								094+400	094+400	BC							
8								094+930	094+930	BC							
9								095+200	094+008	BC							
10								096+250	096+242	BC							
11								096+626	096+634	BC							
12								097+460	097+400	BC							
13								097+558	097+537	BC							
14								099+900	099+500	BC							
15								100+100	100+158	BC							
16								100+750	100+750	BC							
17								101+750	101+750	BC							
18								101+893	101+890	BC							
19								102+600	102+400	BC							
20								103+274	103+300	BC							
21								103+610	103+610	BC							
22								104+050	104+050	BC							
23								104+414	104+400	BC							
24								105+580	105+580	BC							
25								105+936	105+950	BC							
26								106+350	106+350	BC							
27								106+667	106+661	BC							
28								107+090	107+863	BC							
29								107+161	107+145	BC							
30								108+763	108+747	BC							
31								109+560	109+554	BC							
32								109+725	109+670	BC							



33							110+008	110+010	BC										
34							110+448	110+450	BC										
35							111+098	111+100	BC										
36							111+745	111+635	BC										
37							111+931	111+931	BC										
38							112+000	112+116	BC										
39							112+300	113+050	BC										
40							112+600	112+600	BC										
41							113+360	113+880	BC										
42							113+600	113+582	BC										
43							114+041	114+035	BC										
44							114+480	114+300	BC										
45							115+125	115+125	BC										
46							115+250	115+440	BC										
47							115+800	115+733	BC										
48							116+530	116+400	BC										
49							116+750	116+873	BC										
50							117+240	117+150	BC										
51							117+918	117+910	BC										
52							118+455	118+200	BC										
53							118+490	118+478	BC										
54							118+822	118+800	BC										
55							119+000	119+050	BC										
56							119+506	119+550	BC										
57							120+159	120+159	BC										
58							120+400	120+400	BC										
59							120+560	120+225	BC										
60							121+017	120+995	BC										
61							121+230	121+151	BC										
62							121+311	121+313	BC										
63							122+007	121+975	BC										
64							122+350	122+350	BC										
65							122+500	122+650	BC										
66							123+420	123+426	BC										
67							123+733	123+710	BC										
68							123+950	123+200	BC										
69							124+085	124+300	BC										
70							124+777	124+700	BC										
71							125+550	125+350	BC										
72							125+870	125+120	BC										
73							126+170	126+163	BC										



74								126+388	126+380	BC								
75								126+561	126+550	BC								
76								127+944	127+925	BC								
77								128+257	128+243	BC								
78								128+652	128+640	BC								
79								128+950	128+950	BC								
80								129+712	129+702	BC								
81								130+400	130+400	BC								
82								131+200	131+190	BC								
83								131+343	131+332	BC								
84								131+830	131+813	BC								
85								132+107	132+100	BC								
86								132+410	132+400	BC								
87								132+720	126+817	BC								
88								132+880	132+750	BC								
89								133+125	133+112	BC								
90								133+363	133+360	BC								
91								133+722	133+712	BC								
92								133+902	133+885	BC								
93								134+400	134+400	BC								
94								135+180	89+938	BC								
95								135+280	Not in C.A	BC								

(B) Minor Bridge

SI No	Misc work	Return/Retaining wall	LHS				P&P Chainage	Chainage as per Schedule -B	Span Arrangement	Type of Structure	RHS							
			Super Str	Sub Str	Foundation	PCC					Excavation	Excavation	PCC	Foundation	Sub Str	Super Str	Return/Retaining wall	Misc work
1							93+784	93+784	1x20	MNB								
2							94+250	94+250	2x20	MNB								
3							94+605	94+605	1x30	MNB								
4							98+600	98+600	1x20	MNB								
5							99+345	99+345	1x10	MNB								



6							99+592	99+592	2x20	MNB							
7							100+600	100+600	2x20	MNB							
8							101+000	101+000	2x20	MNB							
9							104+086	104+086	2x20	MNB							
10							104+251	104+251	1x20	MNB							
11							105+097	105+097	1x30	MNB							
12							107+929	107+929	1x10	MNB							
13							108+513	108+513	1x10	MNB							
14							110+659	110+659	1x10	MNB							
15							111+554	111+554	1x30	MNB							
16							113+409	113+409	2x20	MNB							
17							114+730	114+730	1x20	MNB							
18							116+157	116+157	1x20	MNB							
19							116+594	116+594	1x20	MNB							
20							118+073	118+073	1x10	MNB							
21							118+320	118+320	1x10	MNB							
22							119+346	119+346	1x10	MNB							
23							119+734	119+734	1x10	MNB							
24							120+681	120+681	1x25	MNB							
25							121+620	121+620	1x20	MNB							
26							123+020	123+020	1x20	MNB							
27							125+304	125+304	1x10	MNB							
28							125+446	125+446	1x10	MNB							
29							130+147	130+147	1x10	MNB							



30								90+028	90+028	1x30	MNB						
31								131+662	131+662	1x10	MNB						
32								132+284	132+284	1x10	MNB						

(C) LVUP

SI No.	Misc work	Return/Retaining wall	LHS					P&P Chainage	Chainage as per Schedule-B	Type of Structure	RHS					Return/Retaining wall	Misc work
			Super Str	Sub Str	Foundation	PCC	Excavation				Excavation	PCC	Foundation	Sub Str	Super Str		
1							104+853	104+853	LVUP								
2							114+916	114+916	LVUP								
3							127+512	127+512	LVUP								

(D) SVUP

SI No.	Misc work	Return/Retaining wall	LHS					P&P Chainage	Chainage as per Schedule-B	Type of Structure	RHS					Return/Retaining wall	Misc work
			Super Str	Sub Str	Foundation	PCC	Excavation				Excavation	PCC	Foundation	Sub Str	Super Str		
1							110+841	110+841	SVUP								
2							119+903	119+903	SVUP								
3							126+828	126+828	SVUP								

(E) VUP

SI No.	Misc work	Return/Retaining wall	LHS					P&P Chainage	Chainage as per Schedule-B	Type of Structure	RHS					Return/Retaining wall	Misc work
			Super Str	Sub Str	Foundation	PCC	Excavation				Excavation	PCC	Foundation	Sub Str	Super Str		
1							095+062	095+062	VUP								
2							104+645	104+645	VUP								



(F) Major Bridge																	
SI No.	Misc work	Return/Retaining wall	LHS					P&P Chainage	Chainage as per Schedule-B	Type of Structure	RHS					Return/Retaining wall	Misc work
			Super Str	Sub Str	Foundation	PCC	Excavation				Excavation	PCC	Foundation	Sub Str	Super Str		
1							113+818	113+818	MJB								
2							130+798	130+798	MJB								

12. PROGRESS REPORT

• HIGHWAYS:-

SI No	Description	Total (Km)	Completed (Km)	Balance (Km)	% Of Completion
1	Sub-grade	88.902	68.42	20.482	76.96%
2	GSB	88.362	62.35	26.012	70.56%
3	WMM 1st Layer with Geogrid	88.362	57.55	30.812	65.13%
4	AI (WMM)	88.362	47.23	41.132	53.45%
5	DBM	88.362	29.42	58.942	33.29%
6	BC	88.362	0	88.362	0.00%

• STRUCTURE:-

SI No	Description	Total (Nos)	Completed (Nos)	In Progress (Nos)	Balance (Nos)
1	Box Culvert	190	142	8	40
2	MNB	32	26	5	1
3	SVUP	3	2	1	0
4	LVUP	3	2.5	0.5	0
5	VUP	2	1	1	0

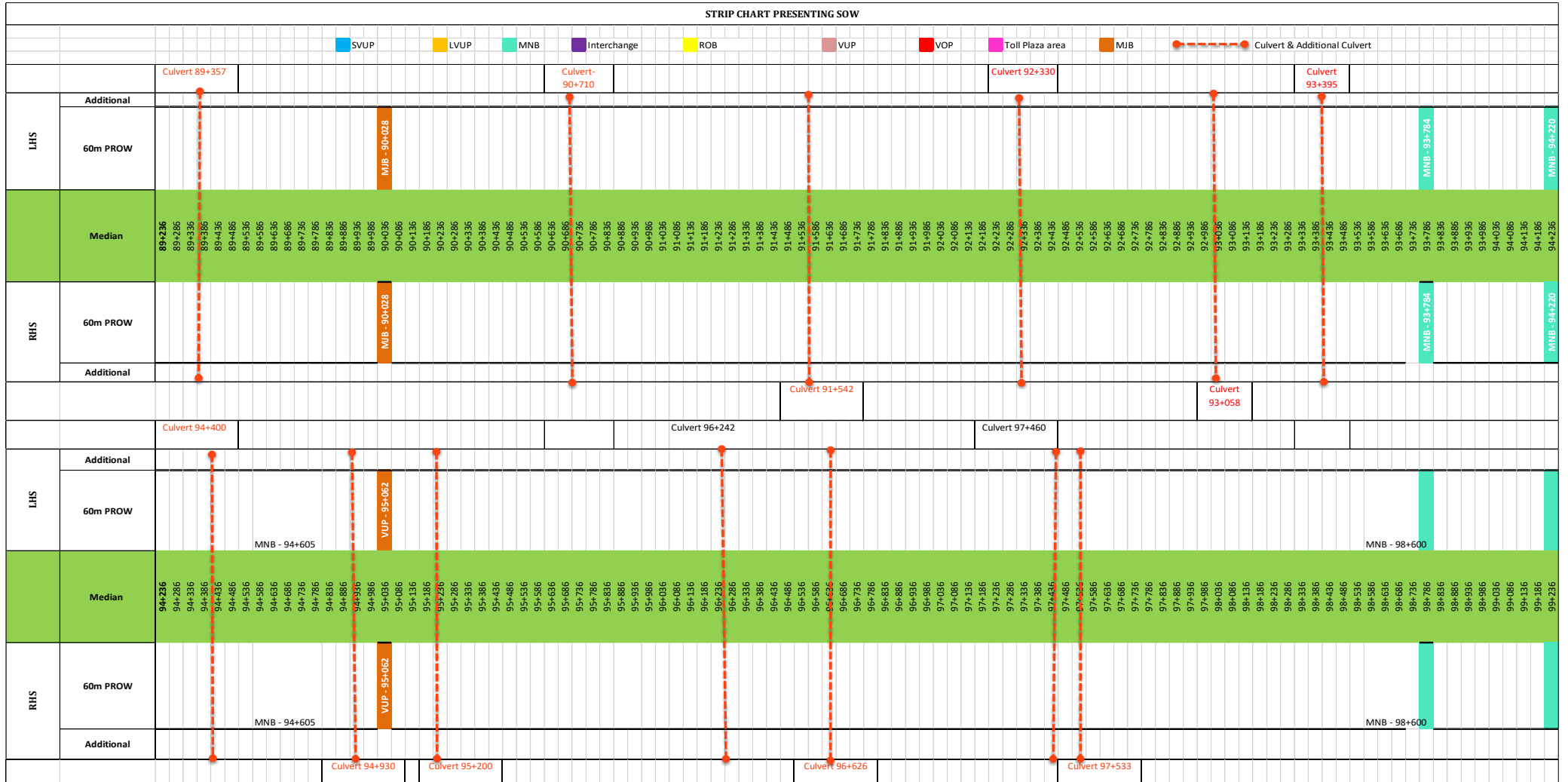
• CONSTRUCTION PROGRESS IN CURRENT MONTH:-

SI No	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
1	Physical Progress	75.52%	45.67%	5.18%	1.82%	80.69%	47.494%
2	Financial Progress (Certified IPC)	75.52%	45.67%	5.18%	1.82%	80.69%	47.494%
3	Expenditure (In Cr)	451.60	273.10	30.96	10.90	482.54	284.01

• Current Issues & recommended action by IE:-

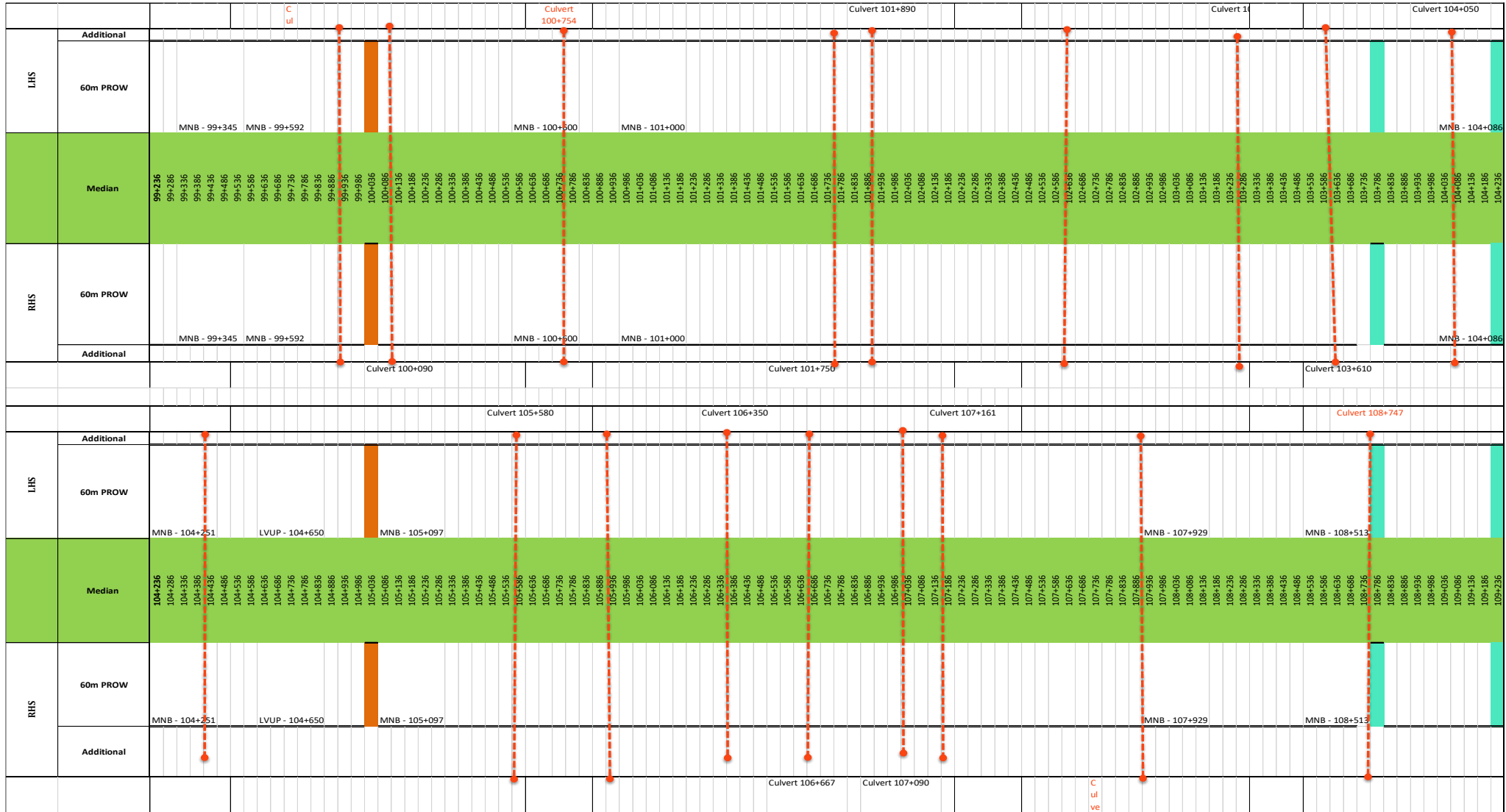
• Issues: -

Detailed Strip Plan:-



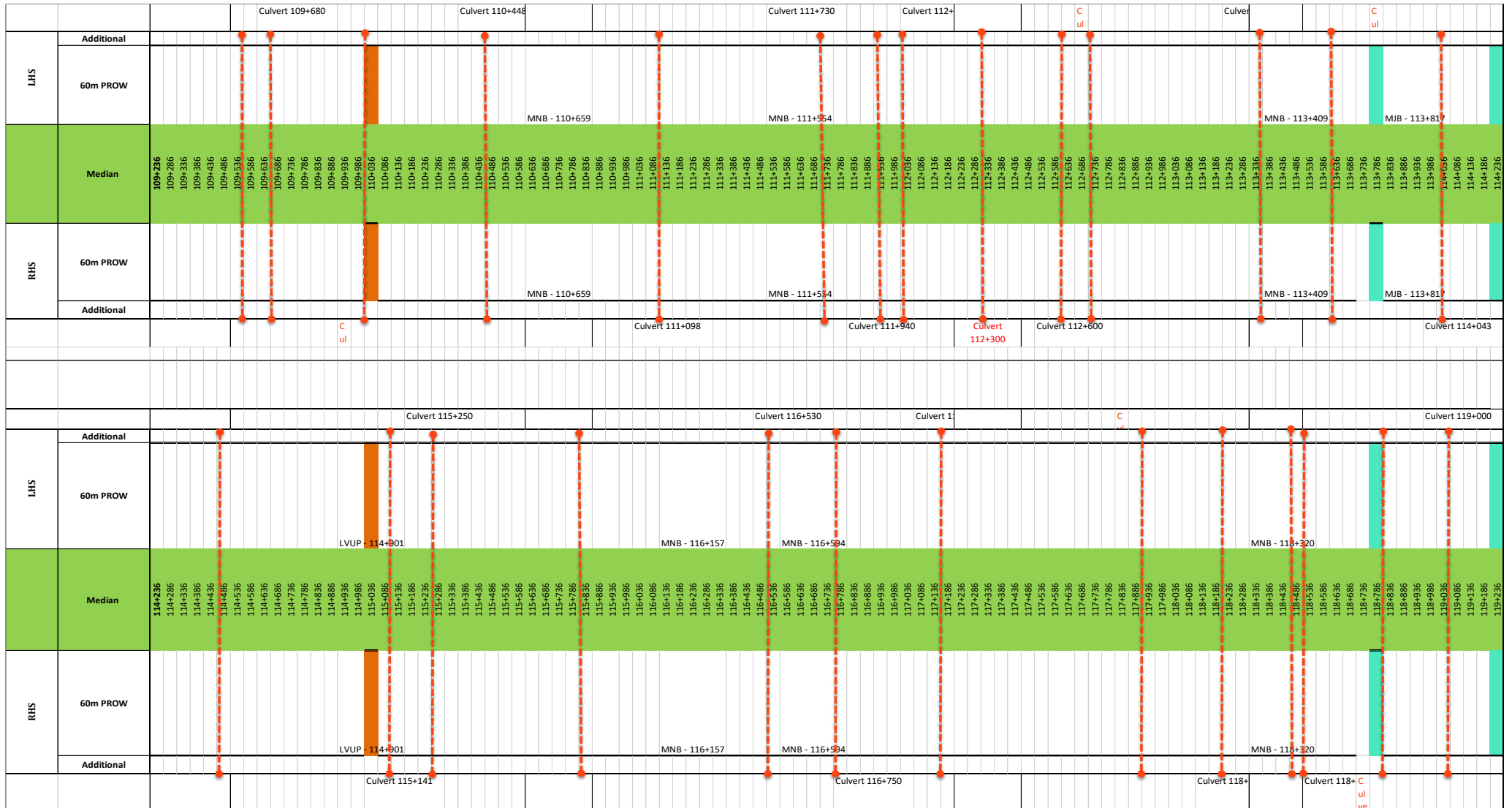


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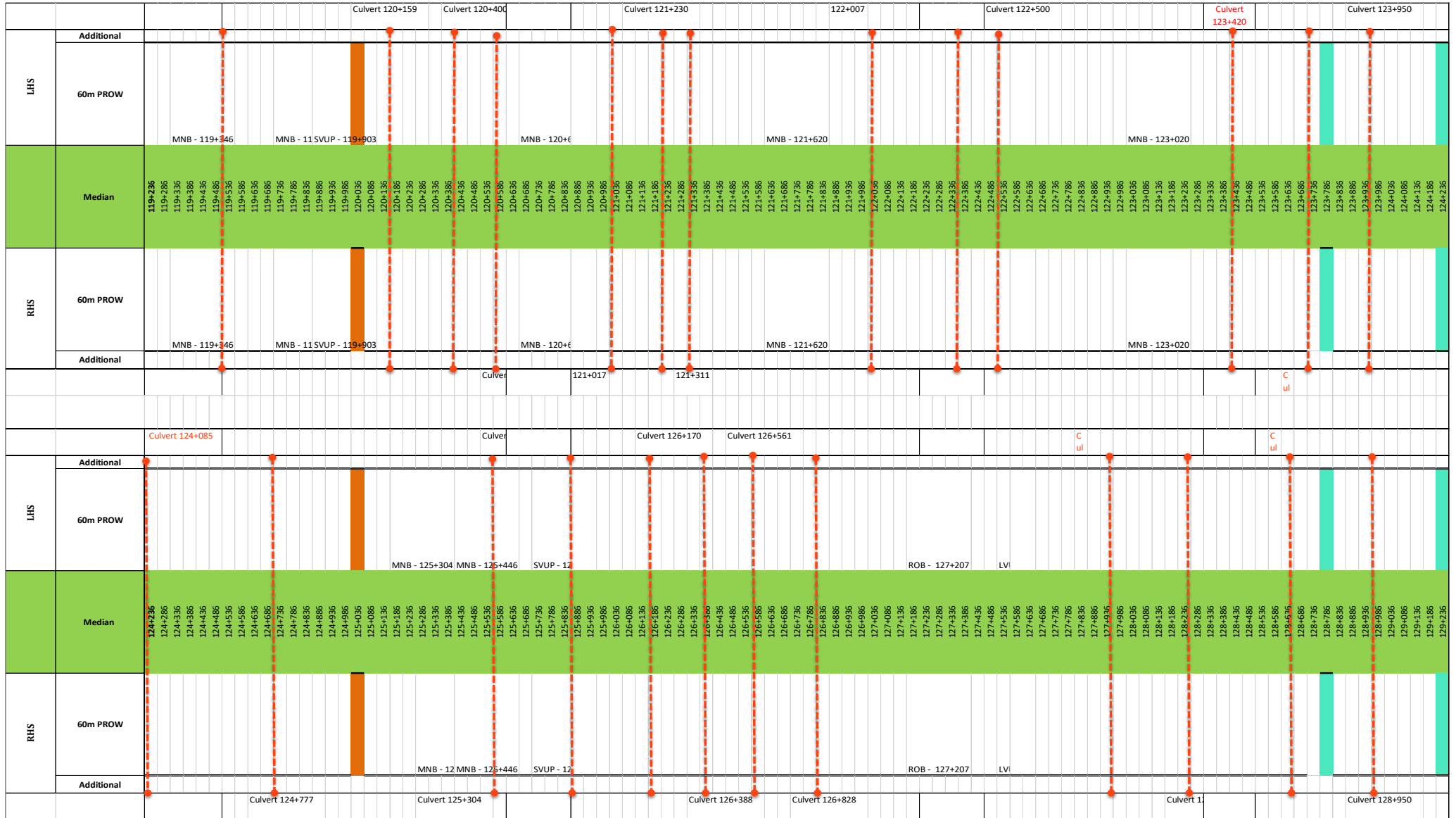


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		Culvert 129+712										Culvert 131+200										Culvert 131+830										Culvert 133+125										Culvert 133+284									
LHS	Additional																																																		
	60m PROW																																																		
Median	129+236																																																		
	129+286																																																		
RHS	60m PROW																																																		
	Additional																																																		
		Culvert 130+400										Culvert 131+343										Culvert 132+										Culvert 133+																			
LHS	Additional																																																		
	60m PROW																																																		
Median	134+236																																																		
	134+286																																																		
RHS	60m PROW																																																		
	Additional																																																		
		Culvert 135+180										Culvert 135+280																																							

13. LAND ACQUISITION AND CILEARENCE

Description	Land (Km)	Remark
Total Land Required	46.115	
Available Land Till 30.09.2023 (LHS)	46.075	
Available Land Till 30.09.2023 (RHS)	46.075	
Unavailable Land Till 30.09.2023 (LHS)	0.040	
Unavailable Land Till 30.09.2023 (RHS)	0.40	
Additional Land Required (ROB)	0.650	
Total Land Unavailable	0.690	

Sr.No	From	To	Length	Remarks
13	122+180	122+190	10	Work Stopped
14	122+200	122+230	30	Work Stopped
15	118+300	118+300	0	Well Payment
Total Length			0.040	Km



14. PHYSICAL PROGRESS

PHYSICAL PROGRESS AS ON 30-11-2023						
Item Description	Unit	Scope of Work		Workdone (Physical Progress)		Remarks
		Quantity	%	Quantity	%	
(1) Earthwork up to top of the sub-grade	L-Km	88.902	15.680%	68.42	12.07%	
(2) Granular work (sub-base, base, shoulders)						
(a) CTSB/GSB	L-Km	88.362	5.700%	62.35	4.02%	
(b-1) WMM 1st Layer with Triaxial Geogrid Reinforced Material	L-Km	88.362	5.050%	57.55	3.29%	
(b-2) WMM Top Layer	L-Km	88.362	1.250%	47.23	0.67%	
(3) Shoulders	L-Km	88.362	0.060%	40.00	0.03%	
(4) Bituminous work						
(a) DBM	L-Km	88.362	6.390%	29.42	2.13%	
(b) BC	L-Km	88.362	4.540%		0.00%	
C- New culverts, minor bridges, underpasses, over passes on existing road, realignments, bypasses:						
(1) Culverts	No.	190.00	7.810%	142	5.84%	
(2) Minor bridges						
(a) Foundation	No.	32.00	5.52%	28.00	4.83%	
(b) Sub-structure	No.	32.00	4.80%	28.00	4.20%	
(c) Super-structure (including crash barriers etc. complete	No.	32.00	4.81%	26	3.91%	
(5) Grade separated structures (a) Underpasses						
(i) Foundation	No.	8.00	0.050%	6.50	0.04%	
(ii) Sub-structure	No.	8.00	1.740%	6.00	1.31%	
(iii) Super-structure (including crash barriers etc. Complete)	No.	8.00	0.170%	5.50	0.12%	
C- New Major Bridges						
(1) Foundation	No.	2.00	1.510%	1	0.76%	
(2) Sub-structure	No.	2.00	0.420%	1	0.21%	
(3) Super-structure (including crash barriers etc. complete						
(ii) Casting of Girders (40%)	No.	2.00	0.576%	0.5	0.14%	
(iii) Girder Erection & Deck Slab (60%)	No.	2.00	0.864%	0.5	0.22%	
D - New rail-road bridges (a) ROB						
(1) Foundation	No.	1.00	0.570%	0.3	0.17%	
(2) Sub-structure	No.	1.00	0.330%	0.1	0.03%	
(3) Super-structure (including crash barriers etc. complete		1.00			0.00%	



(i) Casting of Pre Cast Girder (40%)	No.	1.00	0.588%		0.00%	
(ii) Remaining work of Super Structure including crash barriers etc. (60%)	No.	1.00	0.882%		0.00%	
(4) Reinforced Earth Wall (Includes Approaches of ROB, Underpasses, Overpasses, Flyover etc.)						
(i) Casting of RE Wall RCC Blocks (5%)	Sqm.	18,977.50	0.170%	12886.364	0.12%	
(ii) Completion of RE Wall Erection (including RCC crash barriers with Friction Slab etc.complete)	Sqm.	18,977.50	3.310%		0.00%	
Other Works						
(i) Service roads/ Slip Roads	km	2,708.00	0.850%		0.00%	
(ii) (a) Main Toll Plaza						
a. Completion of PQC (30%)	No.	1.00	0.465%	0.5	0.23%	
b. Completion of Building Works (30%)	No.	1.00	0.465%		0.00%	
c. Completion of all finishing works inclding building and toll Plaza & Fixing of equipments (40%)	No.	1.00	0.620%		0.00%	
(ii) (b) Toll Plaza on Entry & Exit Ramp						
a. Completion of PQC (30%)	No.	4.00	0.882%		0.00%	
b. Completion of Building Works (30%)	No.	4.00	0.882%		0.00%	
c. Completion of all finishing works inclding building and toll Plaza & Fixing of equipments (40%)	No.	4.00	1.176%		0.00%	
(iii) Road Side Drain (Unlined)	km	88.90	0.340%		0.00%	
(iv) Road signs, marking, Km stones, Safety Devices						
(iv) (a) Road signs, marking, Km stones etc.	km	88.90	1.940%		0.00%	
(iv) (b) Concrete/W-Beam Crash Barrier	km	151.50	9.490%	3	0.19%	
(iv) (c) Steel Railing	km	5.57	0.080%		0.00%	
(v) Project Facilities						
(v) (a) Bus Shelter	No.	4.00	0.020%		0.00%	
(v) (c) Truck Lay Bye cum Rest area	No.	1.00	0.920%		0.00%	
(v) (d) Electrification (Highway Lighting including lighting provisions at MCW, Slip Road, Service Road, Bus Bays, Truck Lay Byes, Junctions etc. as per Schedule-B, C & D. Nos. shall be finalized after finalization of lighting Plan & Design)	km	46.10	0.510%		0.00%	
(v) (e) Toilet Block	No.	22.00	0.210%	2	0.02%	
(vii) Road side/Median plantation	No.	36,880.00	0.840%	1000	0.02%	
(vii) Protection Works						
(viii) (a) Boulder Pitching on slopes	km	0.83	0.150%		0.00%	
(viii) (b) Toe Wall/Retaining wall	km	2.60	0.110%		0.00%	
(viii) (c) River Training Work	km	0.83	0.160%		0.00%	
(x) Miscellaneous Works						
(x) (c) Connecting Road	km	3.30	0.430%		0.00%	



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(x) (d) Tree Cutting	km	88.90	0.020%	88.9	0.02%	
(x) (e) (a) Major Junction	No.	2.00	0.220%		0.00%	
(x) (e) (b) Minor Junction	No.	16.00	0.180%		0.00%	
(x) (f) Rain Water Harvesting System	No.	92.00	0.210%		0.00%	
(x) (h) ATMS	km	46.10	2.020%		0.00%	
(x) (i) Pathway	km	4.50	0.270%		0.00%	
(x) (j) Utility Shifting	km	46.10	3.750%	36	2.93%	
Upto date Physical Progress=					47.494%	
Since Previous Progress=					45.67%	
This Month Progress=					1.82%	



15. CORRESPONDENCE

• Details of Incoming Letters - IE

Sr. No.	Letter No.	Date	Description
1	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/900/U-G-3	06-11-2023	Construction of LVUP at Ch- 109+650
2	LNMIPPL/AR/Ujjain-Garoth/2023-24/7030	18-11-2023	Compliance of elevation drawing of VUP at Ch- 95+062
3	LNMIPPL/AR/Ujjain-Garoth/2023-24/7031	18-11-2023	Compliance of elevation drawing of VUP at Ch- 134+100
4	LNMIPPL/AR/Ujjain-Garoth/2023-24/7032	18-11-2023	RE Wall for ROB at Km 127+207, LVUP at Km 127+550 & SVUP at Km 126+828 Ltr. No.-449
5	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/914/U-G-3	18-11-2023	Crossing of state PWD Roads Suwasra to Guradiya
6	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/918/U-G-3	18-11-2023	CM Helpline No. 24795023 dated 22.10.2023
7	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/921/U-G-3	21-11-2023	Reg. Minutes of Meeting (RO Bhopal visited site on dated 02.11.2023)
8	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/924/U-G-3	25-11-2023	Approval of Borrow Area No.-35
9	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/900/U-G-3	06-11-2023	Construction of LVUP at Ch- 109+650
10	LNMIPPL/AR/Ujjain-Garoth/2023-24/7030	18-11-2023	Compliance of elevation drawing of VUP at Ch- 95+062
11	LNMIPPL/AR/Ujjain-Garoth/2023-24/7031	18-11-2023	Compliance of elevation drawing of VUP at Ch- 134+100
12	LNMIPPL/AR/Ujjain-Garoth/2023-24/7032	18-11-2023	RE Wall for ROB at Km 127+207, LVUP at Km 127+550 & SVUP at Km 126+828 Ltr. No.-449
13	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/914/U-G-3	18-11-2023	Crossing of state PWD Roads Suwasra to Guradiya
14	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/918/U-G-3	18-11-2023	CM Helpline No. 24795023 dated 22.10.2023
15	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/921/U-G-3	21-11-2023	Reg. Minutes of Meeting (RO Bhopal visited site on dated 02.11.2023)
16	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/924/U-G-3	25-11-2023	Approval of Borrow Area No.-35
17	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/900/U-G-3	06-11-2023	Construction of LVUP at Ch- 109+650
18	LNMIPPL/AR/Ujjain-Garoth/2023-24/7030	18-11-2023	Compliance of elevation drawing of VUP at Ch- 95+062



18	LNMIPPL/AR/Ujjain-Garoth/2023-24/7031	18-11-2023	Compliance of elevation drawing of VUP at Ch- 134+100
19	LNMIPPL/AR/Ujjain-Garoth/2023-24/7032	18-11-2023	RE Wall for ROB at Km 127+207, LVUP at Km 127+550 & SVUP at Km 126+828 Ltr. No.-449
20	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/914/U-G-3	18-11-2023	Crossing of state PWD Roads Suwasra to Guradiya
21	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/918/U-G-3	18-11-2023	CM Helpline No. 24795023 dated 22.10.2023
22	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/921/U-G-3	21-11-2023	Reg. Minutes of Meeting (RO Bhopal visited site on dated 02.11.2023)
23	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/924/U-G-3	25-11-2023	Approval of Borrow Area No.-35
24	LNMIPPL/PD/NHAI/Ujjain-Garoth/2023-24/900/U-G-3	06-11-2023	Construction of LVUP at Ch- 109+650

• **Details of Incoming Letters – NHAI**

Sr. No.	Letter No.	Date	Description
1	NHAI/PIU/Ujjain/UG-III/2023/1930	06-11-2023	Crossing of State PWD road Suwasra to Guradiya
2	NHAI/PIU/Ujjain/UG-III/ROB/2023/2010	22-11-2023	Submission of Design & Drawing of Composite Girder for ROB at Ch- 127+197

• **Details of Outgoing Letters**

Sr. No.	Letter No.	Date	Description
1	MKC UGMH Pvt.Ltd./2023-24/446	01-11-2023	Submission of Profile and Credential for Metal Beam Crash Barrier (Hexatron Industries Limited).
2	MKC UGMH Pvt.Ltd./2023-24/447	01-11-2023	Regarding Correction in Proposed Level of ROB at Ch. 127+197.
3	MKC UGMH Pvt.Ltd./2023-24/448	03-11-2023	Regarding Submission of Elevation Drawing of VUP at CH-134+100.
4	MKC UGMH Pvt.Ltd./2023-24/449	03-11-2023	Regarding Submission of Elevation Drawing of ROB at CH-127+207, LVUP at Ch- 127+550 & SVUP at Ch- 126+828.
5	MKC UGMH Pvt.Ltd./2023-24/450	03-11-2023	Regarding Compliance of Elevation Drawing of VUP at Ch- 95+062



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6	MKC UGMH Pvt.Ltd./2023-24/454	07-11-2023	Submission of 1st Part Payment Certificate of 6th Payment Milestone.
7	MKC UGMH Pvt.Ltd./2023-24/455	07-11-2023	Submission of Monthly Progress Report.
8	MKC UGMH Pvt.Ltd./2023-24/456	08-11-2023	Submission of Material Testing for Third-Party Laboratory.
9	MKC UGMH Pvt.Ltd./2023-24/457	08-11-2023	Submission of Concrete Mix Design.
10	MKC UGMH Pvt.Ltd./2023-24/458	09-11-2023	Submission of Material for Third Party Laboratory.
11	MKC UGMH Pvt.Ltd./2023-24/459	09-11-2023	Submission for Approval of Dense Bituminous Macadam (DBM) Mix Design Grade-II
12	MKC UGMH Pvt.Ltd./2023-24/462	16-11-2023	Submission of Profile and Credential for Geogrid (Terrain Infratech).
13	MKC UGMH Pvt.Ltd./2023-24/463	17-11-2023	Submission of design & drawing of ROB Girder
14	MKC UGMH Pvt.Ltd./2023-24/464	20-11-2023	Recomendation for alteraion in GAD Drawing
15	MKC UGMH Pvt.Ltd./2023-24/465	20-11-2023	Submission of Design & Drawing of Major Bridge at Ch- 130+798.
16	MKC UGMH Pvt.Ltd./2023-24/466	24-11-2023	Submission of Design & Drawing of MNB at Ch- 133+285
17	MKC UGMH Pvt.Ltd./2023-24/467	24-11-2023	Additional Land required for Toll Plaza at Chainage 95+058
18	MKC UGMH Pvt.Ltd./2023-24/468	24-11-2023	Submission of Borrow Area Test Result for Approval.
19	MKC UGMH Pvt.Ltd./2023-24/469	24-11-2023	Reg: Mobilization of Pile Integraity Test Team

**16. NCR/SITE INSTRUCTION STATUS**

NCR No	LETTER NO.	Description	Issue Date	Compliance Letter No.	Complaint Date	Closing Letter No	Date of Closing	Status	Remarks
1	LNMIPL/Ujjain-Garoth/2022-23/93/U-G-3	At chainage 96+400 to 96+600 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	06.12.2022	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/91	21.12.2022	LNMIPL/Ujjain-Garoth/2022-23/180/U-G-3	17.01.2023	Closed	
2	LNMIPL/Ujjain-Garoth/2022-23/94/U-G-3	At chainage 105+400 to 105+600 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	06.12.2022	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/92	21.12.2022	LNMIPL/Ujjain-Garoth/2022-23/181/U-G-3	17.01.2023	Closed	
3	LNMIPL/Ujjain-Garoth/2022-23/128/U-G-3	Safety arrangement at intersections.						Pending	
4	LNMIPL/Ujjain-Garoth/2022-23/172/U-G-3	At chainage 121+000 to 121+200 BHS the material dumped and sprayed laying over size material more	16.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/145	03.02.2023	LNMIPL/Ujjain-Garoth/2022-23/256/U-G-3	11.02.2023	Closed	



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		than 150mm to 200mm							
5	LNMIPL/Ujjain-Garoth/2022-23/173/U-G-3	At chainage 94+200 to 94+400 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	16.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/149	05.02.2023	LNMIPL/Ujjain-Garoth/2022-23/257/U-G-3	11.02.2023	Closed	
6	LNMIPL/Ujjain-Garoth/2022-23/174/U-G-3	At chainage 111+250 to 111+450 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	17.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/164	13.02.2023	LNMIPL/Ujjain-Garoth/2022-23/283/U-G-3	20.02.2023	Closed	
7	LNMIPL/Ujjain-Garoth/2022-23/175/U-G-3	At chainage 116+330 to 116+550 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	17.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/148	05.02.2023	LNMIPL/Ujjain-Garoth/2022-23/258/U-G-3	11.02.2023	Closed	
8	LNMIPL/Ujjain-Garoth/2022-23/176/U-G-3	At chainage 115+240 to 115+370 BHS the material dumped and sprayed laying over size material more than 150mm to 200mm	17.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/151	06.02.2023	LNMIPL/Ujjain-Garoth/2022-23/259/U-G-3	11.02.2023	Closed	



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9	LNMIPPL/Ujjain-Garoth/2022-23/218/U-G-3	PCC Work at Chainage -98+600(MNB) LHS	31.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/167	17.02.2023	LNMIPPL/Ujjain-Garoth/2022-23/278/U-G-3	20.02.2023	Closed	
10	LNMIPPL/Ujjain-Garoth/2022-23/219/U-G-3	PCC Work at Chainage -99+363(MNB) BHS	31.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/168	17.02.2023	LNMIPPL/Ujjain-Garoth/2022-23/279/U-G-3	20.02.2023	Closed	
11	LNMIPPL/Ujjain-Garoth/2022-23/220/U-G-3	At chainage 125+100 to 125250 RHS the material dumped and sprayed laying over size material more than 150mm to 200mm	31.01.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/169	17.02.2023	LNMIPPL/Ujjain-Garoth/2022-23/284/U-G-3	20.02.2023	Closed	
12	LNMIPPL/Ujjain-Garoth/2022-23/351/U-G-3	At ch.-110+841 SVUP Wall 1st lift A-1 side cube tested in lab found not to have strength of cube	16.03.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/212	22.03.2023	LNMIPPL/Ujjain-Garoth/2022-23/365/U-G-3	24.03.2023	Closed	
13	LNMIPPL/Ujjain-Garoth/2022-23/509/U-G-3	At Chainage – 110+150 to 110+250 RHS the Material dumped and sprayed laying not as per section 400-1 (Grading V) GSB material.	17.05.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/279	29.05.2023	LNMIPPL/Ujjain-Garoth/2022-23/535/U-G-3	31.05.2023	Closed	



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14	LNMIPL/Ujjain-Garoth/2022-23/517/U-G-3	At Chainage – 119+734 RHS bottom hunch dimensional at 1.0 mtr. Length not as per drawing.	20.05.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/280	29.05.2023	LNMIPL/Ujjain-Garoth/2022-23/536/U-G-3	31.05.2023	Closed	
15	LNMIPL/Ujjain-Garoth/2022-23/551/U-G-3	At ch. 113+818 Major Bridge Excavtion and PCC work not as per CA	05.06.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/386	11.09.2023	LNMIPL/Ujjain-Garoth/2022-23/781/U-G-3	16.09.2023	Closed	
16	LNMIPL/Ujjain-Garoth/2022-23/572/U-G-3	At Chainage – 125+440 (Minor Bridge) improper pouring of M-35 grade concrete of raft, lot of cracks developed on raft surface	17.06.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/362	18.08.2023	LNMIPL/Ujjain-Garoth/2022-23/728/U-G-3	19.08.2023	Closed	
17	LNMIPL/Ujjain-Garoth/2022-23/573/U-G-3	At Chainage – 93+784 (Minor Bridge) improper pouring of M-35 grade concrete of abutment wall, due to shuttering failure	17.06.2023	MKC Ujjain-Garoth Mahakaleshwar Highway PVT.LTD./2022-23/335	20.07.2023	LNMIPL/Ujjain-Garoth/2022-23/663/U-G-3	26.07.2023	Closed	



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18	LNMIPL/Ujjain-Garoth/2022-23/609/U-G-3	At Chainage - 116+000 to 120+000 utility shifting work not done as per approved estimate	03.07.2023					Pending	
19	LNMIPL/Ujjain-Garoth/2022-23/652/U-G-3	At Chainage – 107+863 (Box Culvert) not executing as per IE Reviewed drawing	21.07.2023					Pending	
20	LNMIPL/Ujjain-Garoth/2022-23/676/U-G-3	At Chainage – 104+645 (LVUP) It has been observed that IE Reviewed drawing show RE Wall in approach but you have executing RCC retaining wall in a limited section	03.08.2023					Pending	
21	LNMIPL/Ujjain-Garoth/2022-23/677/U-G-3	At Chainage – 110+863 (SVUP) It has been observed that IE Reviewed drawing show RE Wall in approach but you have executing RCC	03.08.2023					Pending	



		retaining wall in a limited section							
22	LNMIPL/Ujjain-Garoth/2022-23/687/U-G-3	At Chainage - 125+281 (MNB) Raft Casting done without IE Reviewed drawing	07.08.2023					Pending	

17. WEATHER REPORT

Weather Report for the Month of NOVEMBER-2023

SL. NO.	DATE	TEMPERATURE °c		REL. HUMIDITY %		WEATHER	RAIN FALL (mm)	CUMM. RAIN FALL (mm)	REMARKS
		MIN.	MAX.	MIN.	MAX.				
1	1-Nov-2023	23.9	33.8	62	72	Sunny	0	0	
2	2-Nov-2023	23.5	34.7	61	74	Sunny	0	0	
3	3-Nov-2023	22.1	34.6	65	80	Sunny	0	0	
4	4-Nov-2023	23.8	33.5	60	71	Sunny	0	0	
5	5-Nov-2023	22.9	32.5	65	78	Sunny	0	0	
6	6-Nov-2023	24.8	33.7	64	80	Sunny	0	0	
7	7-Nov-2023	23.1	32.5	65	82	Sunny	0	0	
8	8-Nov-2023	24.3	33.6	67	80	Sunny	0	0	
9	9-Nov-2023	23.2	34.6	62	74	Sunny	0	0	
10	10-Nov-2023	22.5	32.3	64	81	Sunny	0	0	
11	11-Nov-2023	21.0	32.6	60	82	Sunny	0	0	
12	12-Nov-2023	21.0	32.6	60	82	Sunny	0	0	
13	13-Nov-2023	26.7	34.5	61	77	Sunny	0	0	
14	14-Nov-2023	25.8	33.9	63	79	Sunny	0	0	
15	15-Nov-2023	24.4	32.8	64	84	Sunny	0	0	
16	16-Nov-2023	26.5	33.9	66	80	Sunny	0	0	
17	17-Nov-2023	25.8	33.8	63	81	Sunny	0	0	
18	18-Nov-2023	22.3	30.1	64	82	Sunny	0	0	
19	19-Nov-2023	21.8	29.9	60	77	Sunny	0	0	
20	20-Nov-2023	19.4	31.9	65	74	Sunny	0	0	
21	21-Nov-2023	22.8	32.2	60	80	Sunny	0	0	
22	22-Nov-2023	18.1	30.5	62	75	Sunny	0	0	
23	23-Nov-2023	19.8	31.6	66	82	Sunny	0	0	
24	24-Nov-2023	17.5	30.2	67	84	Sunny	0	0	
25	25-Nov-2023	21.4	33.5	61	79	Sunny	0	0	
26	26-Nov-2023	17.0	26.0	60	71	Rainy	15	15	
27	27-Nov-2023	19.0	27.2	67	79	Cloudy	0	15	
28	28-Nov-2023	22.1	29.2	62	80	Sunny	0	15	
29	29-Nov-2023	20.1	26.5	64	74	Sunny	0	15	
30	30-Nov-2023	18.7	26.0	66	80	Sunny	0	15	
Rain Fall (in mm)						This Month		15	



18. QC REPORTS

Quality Control Test Report for NOVEMBER -2023

S.No.	Name of test	Reference as per IS / MORTH		Total Tests Conducted Up to Previous Month			No. of Tests Conducted during this Month			No. of Tests Conducted up to this Month			Test Witnessed by IE's Rep.				Test Witnessed by NHAI Rep.		
				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
1.0 OGL samples				MORTH-900															
1.1	Free Swell Index (FSI)	IS : 2720 (P- 40)	As Required	210	210	0	0	0	0	210	210	0	64	0	64	0	13	0	13
1.2	Grain size analysis	IS : 2720 (P-4)	As Required	195	195	0	0	0	0	195	195	0	49	0	49	0	13	0	13
1.3	Atterberg's limits (LL & PI)	IS : 2720 (P-5)	As Required	195	195	0	0	0	0	195	195	0	49	0	49	0	13	0	13
1.4	Proctor test (MDD V/s OMC)	IS : 2720 (P-8)	As Required	195	195	0	0	0	0	195	195	0	49	0	49	0	13	0	13
1.5	4 days soaked CBR	IS : 2720 (P- 16)	As Required	13	13	0	0	0	0	13	13	0	13	0	13	0	0	0	0
2.0 Borrow Area Samples				MORTH-900															
2.1	Free Swell Index (FSI)	IS : 2720 (P- 40)	2 tests / 3000 m ²	2298	2298	0	50	50	0	2348	2348	0	707	12	719	24	42	0	42
2.2	Grain size analysis	IS : 2720 (P-4)	2 tests / 3000 m ²	2298	2298	0	50	50	0	2348	2348	0	3707	12	3719	24	42	0	42
2.3	Atterberg's limits (LL & PI)	IS : 2720 (P-5)	2 tests / 3000 m ²	2298	2298	0	50	50	0	2348	2348	0	707	12	719	24	42	0	42
2.4	Proctor test (MDD V/s OMC)	IS : 2720 (P-8)	2 tests / 3000 m ²	2298	2298	0	50	50	0	2348	2348	0	707	12	719	24	42	0	42
2.5	4 days soaked CBR	IS : 2720 (P- 16)	1 test / 3000 m ²	1320	1320	0	45	45	0	1365	1365	0	449	6	455	13	42	0	42
3.0 Field Density Tests				MORTH-900															
3.1	Field density test on OGL	IS : 2720 (P- 28)	1 set of tests / 3000 m ²	14166	14166	0	0	0	0	14166	14166	0	2788	0	2788	0	0	0	0
3.2	Field density test on Emb.	IS : 2720 (P- 28)	1 set of tests /3000 m ²	22175	22175	0	160	160	0	22335	22335	0	4239	35	4274	22	0	0	0
3.3	Field density test on Subgrade	IS : 2720 (P- 28)	1 set of tests / 2000 m ²	8136	8136	0	140	140	0	8276	8276	0	1665	34	1699	24	0	0	0
3.4	Field density test on GSB	"	1 test / 1000 m ²	1531	1531	0	42	42	0	1573	1573	0	359	10	369	24	0	0	0
3.5	Field density test on WMM	"	1 set of three / 1000 m ²	1255	1255	0	48	48	0	1303	1303	0	298	10	308	21	0	0	0
3.6	Field density test on Earthen Shoulder	"	1 set of tests / 2000 m ²	168	168	0	0	0	0	168	168	0	39	0	39	0	0	0	0
3.7	Field density test on Backfilling	"	1 set of 2 test / 500 m ²	2991	2985	6	160	160	0	3151	3145	6	521	38	559	24	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	0



Monthly Progress Report – November 2023



4.0 Coarse Agg. for Concrete																			
4.1	Gradation	IS : 2386 (P-1)	1 test / day	343	343	0	30	30	0	373	373	0	173	7	180	23	0	0	0
4.2	Flakiness Index	IS : 2386 (P-1)	Weekly	54	54	0	4	4	0	58	58	0	28	1	29	25	0	0	0
4.3	Aggregate Impact Value	IS : 2386 (P-4)	Weekly	54	54	0	4	4	0	58	58	0	28	1	29	25	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	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	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	0
4.7	Moisture correction	IS : 2386 (P-3)	Per Day	343	343	0	30	30	0	373	373	0	173	7	180	23	0	0	0
4.8	10% Fine Value	BS : 812 P-3	Test/Source	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
4.10	Soundness	IS : 2386 (P-5)	Test/Source	1	1	0	0	0	0	1	1	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	0
4.12	Petrographic Examination	IS : 2386 (P-3)	Test/Source	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
5.0 Fine Agg. for Concrete																			
5.1	Gradation	IS : 2386 (P-1)	1 test / day	343	343	0	30	30	0	373	373	0	173	7	180	23	0	0	0
5.2	Specific Gravity	IS : 2386 (P-3)	Test/Source	3	3	0	0	0	0	3	3	0	1	0	1	0	0	0	0
5.3	Water Absorption	IS : 2386 (P-3)	Test/Source	3	3	0	0	0	0	3	3	0	1	0	1	0	0	0	0
5.4	Deleterious Content (silt content)	IS : 2386 (P- 1&2)	As Required	61	61	0	6	6	0	67	67	0	29	2	31	33	0	0	0
5.5	Moisture correction	IS : 2386 (P-3)	Per Day	343	343	0	30	30	0	373	373	0	173	7	180	23	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	0
5.7	Soundness	IS : 2386 (P-5)	Test/Source	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
5.8	Organic Impurities	IS : 2386 (P-2)	Test/Source	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
6.0 Concrete Cube Compressive strength tests(in sets)																			
For M 10 Grade																			
6.1	for 7 days	IS : 516	for 7 days	181	181	0	14	14	0	195	195	0	79	3	82	21	0	0	0
6.2	for 28 days	IS : 516	for 28 days	489	489	0	20	20	0	509	509	0	156	5	161	25	0	0	0
For M 15 Grade																			
6.3	for 7 days	IS : 516	for 7 days	34	34	0	2	2	0	36	36	0	25	1	26	50	0	0	0
6.4	for 28 days	IS : 516	for 28 days	37	37	0	2	2	0	39	39	0	29	1	30	50	0	0	0
For M 20																			
6.5	for 7 days	IS : 516	for 7 days	30	30	0	5	5	0	35	35	0	25	1	26	20	0	0	0
6.6	for 28 days	IS : 516	for 28 days	22	22	0	6	6	0	28	28	0	15	2	17	33	0	0	0



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For M 25 Grade																			
6.7	for 7 days	IS : 516	for 7 days	272	272	0	24	24	0	296	296	0	96	6	102	25	0	0	0
6.8	for 28 days	IS : 516	for 28 days	660	660	0	20	20	0	680	680	0	177	5	182	25	0	0	0
For M 30 Grade																			
6.9	for 7 days	IS : 516	for 7 days	77	77	0	13	13	0	90	90	0	55	3	58	23	0	0	0
6.10	for 28 days	IS : 516	for 28 days	124	124	0	30	30	0	154	154	0	97	7	104	23	0	0	0
For M 35 Grade																			
6.11	for 7 days	IS : 516	for 7 days	205	205	0	16	16	0	221	221	0	113	4	117	25	0	0	0
6.12	for 28 days	IS : 516	for 28 days	618	618	0	66	66	0	684	684	0	417	17	434	26	0	0	0
For M 35 (Pile) Grade																			
6.11	for 7 days	IS : 516	for 7 days	26	26	0	12	12	0	38	38	0	26	3	29	25	0	0	0
6.12	for 28 days	IS : 516	for 28 days	42	42	0	16	16	0	58	58	0	42	4	46	25	0	0	0
For M 35 (RE-BLOCK) Grade																			
6.11	for 7 days	IS : 516	for 7 days	90	90	0	14	14	0	104	104	0	3	3	6	21	0	0	0
6.12	for 28 days	IS : 516	for 28 days	187	187	0	24	24	0	211	211	0	187	6	193	25	0	0	0
For M 40 Grade																			
6.12	for 7 days	IS : 516	for 7 days	45	45	0	5	5	0	50	50	0	45	1	46	20	0	0	0
6.13	for 28 days	IS : 516	for 28 days	44	44	0	4	4	0	48	48	0	44	1	45	25	0	0	0
For M 45 Grade																			
6.14	for 7 days	IS : 516	for 7 days	9	9	0	0	0	0	9	9	0	9	0	9	0	0	0	0
6.15	for 28 days	IS : 516	for 28 days	9	9	0	0	0	0	9	9	0	9	0	9	0	0	0	0
For DLC																			
6.16	for 7 days	IS : 516	for 7 days	3	3	0	0	0	0	3	3	0	3	0	3	0	0	0	0
For PQC CUBE																			
6.17	for 7 days	IS : 516	for 7 days	5	5	0	0	0	0	5	5	0	5	0	5	0	0	0	0
6.18	for 28 days	IS : 516	for 28 days	5	5	0	0	0	0	5	5	0	5	0	5	0	0	0	0
For PQC BEAM																			
6.19	for 7 days	IS : 516	for 7 days	5	5	0	0	0	0	5	5	0	5	0	5	0	0	0	0
6.20	for 28 days	IS : 516	for 28 days	5	5	0	0	0	0	5	5	0	5	0	5	0	0	0	0



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7.0 Cement Tests		MORTH 1000																	
7.1	Fineness of cement	IS : 4031 (P-1)	1 test / lot of cement	64	64	0	8	8	0	72	72	0	41	2	43	25	0	0	0
7.2	Normal consistency	IS : 4031 (P-4)	1 test / lot of cement	64	64	0	8	8	0	72	72	0	41	2	43	25	0	0	0
7.3	Initial, final setting times	IS : 4031 (P-5)	1 test / lot of cement	64	64	0	8	8	0	72	72	0	41	2	43	25	0	0	0
7.4	Soundness	IS : 4031 (P-3)	1 test / lot of cement	64	64	0	8	8	0	72	72	0	41	2	43	25	0	0	0
7.5	Compressive strength - 3 days	IS : 4031 (P-6)	for 3 days	56	56	0	6	6	0	62	62	0	34	2	36	33	0	0	0
	- 7 days	"	for 7 days	55	55	0	5	5	0	60	60	0	31	1	32	20	0	0	0
	- 28 days	"	for 28 days	55	55	0	6	6	0	61	61	0	32	2	34	33	0	0	0
7.6	Chemical properties	IS : 4031	Once per Source /	3	3	0	0	0	0	3	3	0	0	0	0	0	0	0	0
9.0 Steel		MORTH 1000																	
9.1	Physical Properties	IS : 1786		32	32	0	4	4	0	36	36	0	32	1	33	25	0	0	0
11.0 Water		MORTH 1000																	
11.1	Suitability for Construction	IS : 456		1	1	0	0	0	0	1	1	0	1	0	1	0	0	0	0
12.0 Admixture		MORTH 1000																	
12.1	Suitability for Concrete	IS : 9103		4	4	0	1	1	0	5	5	0	4	0	4	0	0	0	0
13.0 SUB-BASE (GSB)		MORTH 401																	
13.1	Gradation	Table 400-2 (Grading-V)	1 Test /400 cu.m.	587	587	0	13	13	0	600	600	0	428	3	431	23	0	0	0
13.2	Atterberg's limits (LL & PI)	IS : 2720 (P-5)	1 Test /400 cu.m.	583	583	0	13	13	0	596	596	0	424	3	427	23	0	0	0
13.3	Proctor test (MDD V/s OMC)	IS : 2720 (P-8)	Test/Source	2	2	0	0	0	0	2	2	0	2	0	2	0	0	0	0
13.4	4 days soaked CBR	IS : 2720 (P- 16)	Test/Source	2	2	0	0	0	0	2	2	0	2	0	2	0	0	0	0
13.5	Water Absorption	IS : 2720 (P-3)	Test/Source	2	2	0	0	0	0	2	2	0	2	0	2	0	0	0	0
13.6	A.I.V	IS : 2386 (P-4)	As Required	13	13	0	2	2	0	15	15	0	9	1	10	50	0	0	0



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14.0 SUB-BASE / BASE (WMM)		MORTH 406																	
14.1	Gradation	Table 400-12	1 test / 200 m ³	581	581	0	10	10	0	591	591	0	449	2	451	20	0	0	0
14.2	Atterberg's limits (LL & PI)	IS : 2720 (P-5)	1 test / 200 m ³	581	581	0	5	5	0	586	586	0	448	1	449	20	0	0	0
14.3	Proctor test (MDD V/s OMC)	IS : 2720 (P-8)		1	1	0	0	0	0	1	1	0	1	0	1	0	0	0	0
14.4	A.I.V	IS : 2386 (P-4)	1 test / 1000 m ³	193	193	0	5	5	0	198	198	0	152	1	153	20	0	0	0
14.5	FI & EI	IS : 2386 (P-1)	1 test / 500 m ³	273	273	0	5	5	0	278	278	0	223	1	224	20	0	0	0
14.6	Water Absorption	IS : 2386 (P-3)	Test/Source	1	1	0	0	0	0	1	1	0	1	0	1	0	0	0	0
14.7	Soundness	IS : 2386 (P-3)	Test/Source	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Bitumen VG-40		MORTH 503																	
15.1	Specific Gravity at 27oC	IS : 2380 (P-4)	As required	2	2	0	9	9	0	11	11	0	2	2	4	22	0	0	0
15.2	Softening Point(oc)	IS : 1205	1 test per Lot	62	62	0	9	9	0	71	71	0	45	2	47	22	0	0	0
15.3	Penetration at 25oc 100gm 5	IS : 1203	1 test per Lot	62	62	0	9	9	0	71	71	0	45	2	47	22	0	0	0
15.4	Ductility at 27oc	IS : 1208	As Required	62	62	0	0	0	0	62	62	0	45	0	45	0	0	0	0
15.5	Viscosity at 60o/135oC	IS : 1206	As required	62	62	0	9	9	0	71	71	0	45	2	47	22	0	0	0
16. Emulsion		MORTH 503																	
16.1	RS 1 (Saybolt viscosity)	IS : 8887	Per Lot	7	7	0	0	0	0	7	7	0	7	0	7	0	0	0	0
16.2	SS 1 (Saybolt viscosity)	IS : 8887	Per Lot	2	2	0	0	0	0	2	2	0	2	0	2	0	0	0	0
17.0 RATE OF SPRAY		MORTH 503																	
17.1	Prime coat	As per MORTH	3 test / day	194	194	0	36	36	0	230	230	0	164	8	172	22	22	0	22
17.2	Tack Coat	As per MORTH	3 test / day	194	194	0	0	0	0	194	194	0	164	0	164	0	0	0	0



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18.0 DENSE BITUMINOUS MACADAM GRADING- 2			MORTH 505																
18.1	Binder Content	As per MORTH	1 test / 400 Tonne Mix	104	104	0	17	17	0	121	121	0	76	4	80	24	0	0	0
18.2	Combined Gradation	As per MORTH	1 test / 400 Tonne Mix	110	110	0	17	17	0	127	127	0	82	4	86	24	0	0	0
18.3	Marshall Test (in Sets)	ASTM D 1559	1 test / 400 Tonne Mix	143	143	0	56	56	0	199	199	0	84	13	97	23	0	0	0
18.4	A.I.V	IS : 2386 (P-4)	1 test / 350 m ³ of Agg.	54	54	0	13	13	0	67	67	0	43	3	46	23	0	0	0
18.5	FI & EI	IS : 2386 (P-1)	1 test / 350 m ³ of Agg.	54	54	0	13	13	0	67	67	0	43	3	46	23	0	0	0
18.6	Water Absorption & Specific	IS : 2386 (P-3)	Test/Source	4	4	0	0	0	0	4	4	0	4	0	4	0	0	0	0
18.7	Stripping Value	IS : 6241	Test/Source	1	1	0	0	0	0	1	1	0	1	0	1	0	0	0	0
18.8	Core Density Test	As Per Morth	1 test / 700 sqm.	424	424	0	50	50	0	474	474	0	325	12	337	24	2	0	2
Total				71345	71339	6	1567	1567	0	72912	72906	6	22480	367	22847		286	0	286

Total Tests Conducted this Month	1567
Total Tests Witnessed by IE's this Month	367
Total Test Witnessed by IE's in % this Month	23.42%

Total Tests Conducted this Month	1567
Total Tests Witnessed by NHAI this Month	0
Total Test Witnessed by NHAI in % this Month	0.00%

19. SITE PHOTOGRAPHS



**CH.119+380 to CH.119+550 GEOGRID LAYING
WORK IN PROGRESS**



**CH.97+700 to CH.98+200 MEDIAN SLOPE CUTTING
WORK IN PROGRESS**



CH. 107+370 SLOPE CUTTING WORK IN PROGRESS



CH. 116+220 WMM TOP LAYING (LHS)



MNB BACKFILLING WORK IN PROGRESS



CH. 99+345 APPROACH SLAB WORK IN PROGRESS



**CH. 109+670 LVUP RAFT RENINFORCEMENT WORK
IN PROGRESS**



**CH.116+595 SLAB STAGGING WORK IN
PROGRESS**



**CH.120+150 SLAB REINFORCEMENT
WORK IN PROGRESS**



**ROB P4 PILE CAP CURING WORK IN
PROGRESS (RHS)**



ROB PILE CAGING WORK IN PROGRESS



KERB WIP