MONTHLY PROGRESS REPORT OF DECEMBER-2023

Name of work	Up-gradation & 4 laning of Poanta Saheb- Ballupur sec. of NH-72 in Uttarakhand state under NH(o) on HAM pkg-II Medinipur to Ballupur from CH 18.700 To CH 44.800.

Name of Client	National Highways Authority of India
Name of Independent Engineer	M/s URS Scott Wilson India Pvt. Ltd. In JV with the Lion Engineering Consultant Pvt Ltd.
Name of Concessioniare	M/s MKC Kedarnathji Poanta Saheb Highways Pvt. Ltd.

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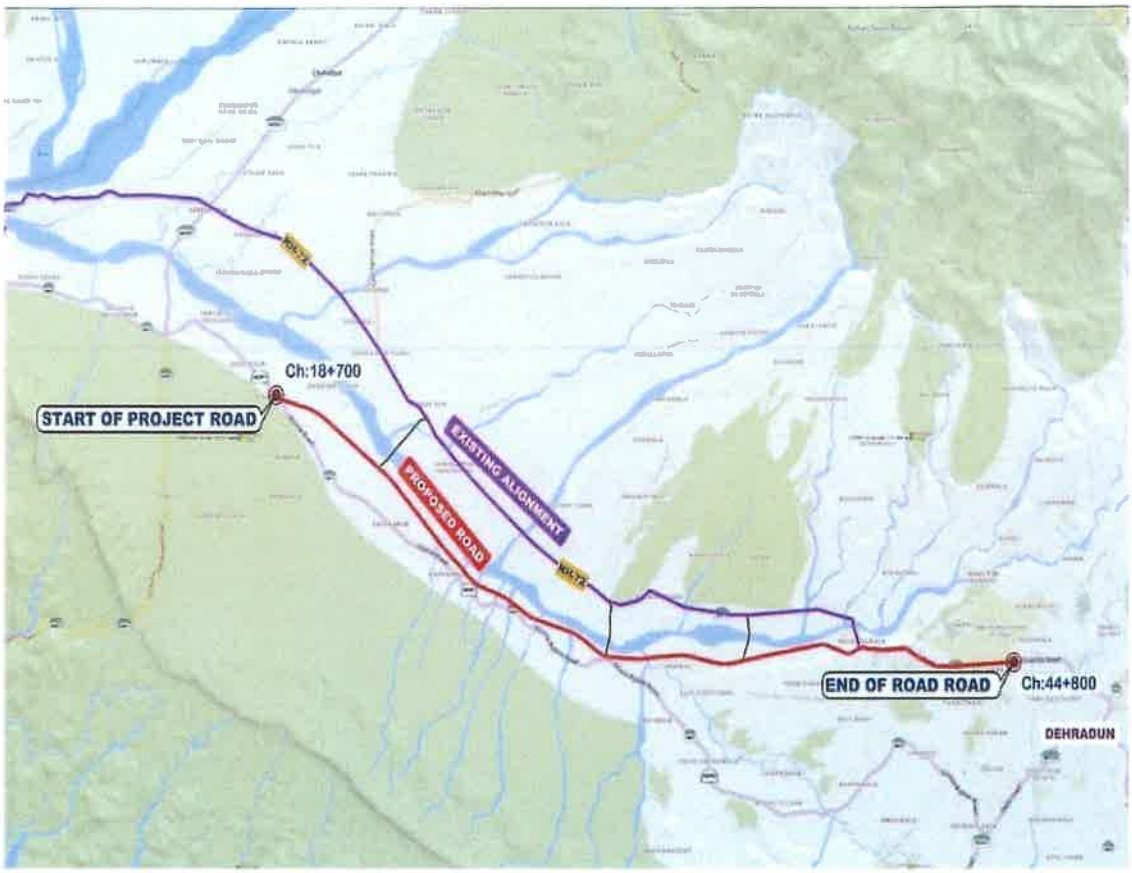
Maps Showing project Location

1.1 Location of Work state in india

1.2 Location of project in state



Executive Summary

2.1 Introduction

The site of the Four-lane Project Highway comprises the Medinipur-Ballupur Section of NH-72.
It starts at km 30.690 of Shimla bypass road (Design Ch 18.700 km) and ends at (km 148.025 of
NH-72 (Design Ch 44.800 km) in Dehradun district of Uttarakhand state.
The section of existing
NH-72 between km 113.400 (Dharmawala Chowk) to km 143.275 (Prem Nagar) is proposed to
be bypassed by greenfield alignment

2.2 Scope of the project

1	Total Length of the Project	26.1 Km
2	Major Junctions	02 Nos
3	Minor Junctions	58 Nos
4	Box Culverts	15 Nos
5	Pipe Culverts	58 Nos
6	Minor Bridges	19 Nos
7	VUP / LVUP	06 Nos
8	Major Bridge	1 Nos
9	VOP	01 Nos
10	FOB	03 Nos
11	Bus bay	08 Nos
12	Service Road (both side)	20.484 Km
13	Drain (both side)	30.02 Km

2.3 Salient features of the contract

Name of Client	National Highway Authority of India		
Name of Contractor	MKC Infrastructure Limited		
Name of Concessionaire	MKC Poanta – Saheb Dehradun Kedarnathji Highways Private Limited		
Name of Independent engineer	M/S URS Scott Wilson India Pvt. Ltd in JV with Lion Engineering Consultants Pvt. Ltd.		
Name of Safety consultant	Chaitanya Projects Consultancy Pvt. Ltd.		
Contract Limits	From Medinipur CH 18.7 to Ballupur CH 44.8		
Contract Length	26.21 Km		
Milestones	Mile stone-I	18th July-2023	20%
	Mile stone-II	14th January-2024	35%
	Mile stone-III	12th July-2024	75%
	Mile stone-IV	17th february-2025	100%
Letter of Acceptance Date	30th May-2022		
Date of Signing of contract agreement	14th July-2022		
Commencement Date	18th February-2023		
Project Duration	730 days		
Schedule Completion Date	17th February-2025		
Original Contract Price	₹ 5,16,56,00,000.00		

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Progress of the work

3.1	Physical progress
Project :	Up-gradation & Four Laning of Poanta Saheb-Ballupur Section of NH-72 in the State of Uttarakhand under NH (O) on Hybrid Annuity Mode. Package-II: Medinipur to Ballupur (Dehradun) from Design Ch. 18.700 to Ch. 44.800
Client :	National Highway Authority of India
Independent Engineer :	URS Scott Wilson India Private Limited in Joint Venture with Lion Engineering Consultants Pvt. Ltd.
HAM Concessionaire :	M/s MKC- Poanta-Saheb Dehradun Kedarnathji Ji Highway Private Limited
Total Contract Price	5,16,56,00,000

Item	Stage for measurement of Physical Progress	Unit	Qty.	Amount	Weightage in % age	Physical Progress as per Annexure-I of Schedule-G	Weighatge of Completed work in %
Road works including culverts, minor bridges,underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding Slip/ Service roads)	A-Widening & Strengthening of						
	(1) Earthwork upto top of Sub-grade	Km	4.50	16361543.33	0.32%	1.2	0.08%
	(2) Granular work (Sub-base,						
	(a) CTSB/GSB	Km	4.50	21553385.78	0.42%	1.2	0.11%
	(b) WMM	Km	4.50	41505832.80	0.80%	1.2	0.21%
	(3) Shoulders	Km	9.00	2971864.40	0.06%	2.4	0.02%
	(4) Bituminous Work						
	(a) DBM	Km	4.50	23207725.35	0.45%	1.2	0.12%
	(b) BC	Km	4.50	24305590.88	0.47%	1.2	0.13%
	B-New 4 Lane Realignment/Bypass						
	(1) Earthwork upto top of Sub-grade	Km	41.56	805887112.76	15.60%	17.29	6.49%
	(2) Granular work (Sub-base,						
	(a) CTSB / GSB	Km	41.56	219083230.31	4.24%	7.05	0.72%
	(b) WMM	Km	41.56	370137914.57	7.17%		
	(3) Shoulders	Km	41.56	33188279.25	0.64%		
	(4) Bituminous Work						
	(a) DBM	Km	41.56	208434264.66	4.04%		
	(b) BC	Km	41.56	226138688.23	4.38%		
	C- New Culverts, Minor Bridges,						
	1) Culverts	No.	73.00	154175319.31	2.98%	23	0.94%
	2) Minor Bridge				0.00%		
	a) Foundation	No.	19.00	267262947.46	5.17%	17	4.63%
	b) Sub-Structure	No.	19.00	233855079.03	4.53%	14	3.34%
	c) Super-Structure (including Crash	No.	19.00	167039342.17	3.23%	8	1.36%
	3) Grade seprated structures						
	i) Foundation	No.	6.00	115773880.88	2.24%	3	1.12%
	ii) Sub-Structure	No.	6.00	101302145.77	1.96%	2	0.65%
	iii) Super-Structure (including Crash	No.	6.00	72358675.55	1.40%	2	0.47%
	b) Overpasses				0.00%		
	i) Foundation	No.	1.00	18846910.84	0.36%		

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Item	Stage for measurement of Physical Progress	Unit	Qty.	Amount	Weightage in % age	Physical Progress as per Annexure-I of Schedule-G	Weighatge of Completed work in %
	ii) Sub-Structure	No.	1.00	16491046.99	0.32%		
	iii) Super-Structure (including Crash	No.	1.00	11779319.28	0.23%		
	d) Foot Over Bridge	No.	3.00	27129384.98	0.53%		
Major Bridge works and ROB / RUB	C) New Major Bridges				0.00%		
	1) Foundation				0.00%		
	a) Open Foundation	No.	1.00	108539227.81	2.10%	1	2.10%
	2) Sub-Structure	No.	1.00	94971824.34	1.84%		
	3) Super-Structure (including Crash	No.	1.00	67837017.38	1.31%		
Structure (Elevated Section,	4) Reinforced Earth Wall (includes	Sq.m	27201.50	328923283.49	6.37%	467.1296	0.11%
Electrical and Public Health Utilities	EHT Line	Km	0.34	4486146.46	0.09%		
	EHT Crossing	No.	2.00	15926636.19	0.31%		
	HT/LT Lines (including	Km	3.28	7931062.20	0.15%		
	HT/LT Crossings	No.	43.00	46476333.59	0.90%	43	0.90%
	Water Pipeline	Km	3.47	2704171.86	0.05%		
	Water Pipeline Crossings	No.	28.00	19547849.31	0.38%		
Other Works	i) - Service Road/ Slip Road	Km	20.48	562762835.69	10.89%		
	iii) Road Side Drain	Km	30.02	205461080.75	3.98%	1.5	0.20%
	iv) - Road signs,markings, Km						
	(a) Road signs,markings, Km	Km	26.10	41277719.41	0.80%		
	(d) Concrete Crash Barrier/W Beam	Km	8.61	46479789.69	0.90%		
	v) - Project Facilities						
	(a) Bus Bays	No.	8.00	5302600.92	0.10%		
	(b) Truck Lay Byes	No.	0.00				
	(c) Rest Area / Wayside Amenities	No.	1.00	2947720.34	0.06%		
	vii) - Road Side Plantation and	Km	26.10	10721108.26	0.21%		
	viii) - Protection Work						
	(a) Boulder Pitching on Slopes	Km	5.22	6308189.92	0.12%		
	(b) Toe Wall / Retaining Wall	Km	17.69	241438506.52	4.67%	1.7	0.45%
	(a) Major Junctions	No.	2.00	43305395.72	0.84%		
	(b) Minor Junctions	No.	58.00	10989583.92	0.21%		
	(c) Street Lightning	Km	26.10	25589783.02	0.50%		
	(e)ATMS, HTMS, Traffic Aid Posts,	Km	26.10	36542155.89	0.71%		
	(f) Paver block flooring	Sqm	27867.00	50340492.75	0.97%		
Total					**100.00%**		**24.15%**

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Item	Stage for measurement of Physical Progress	Unit	Qty.	Amount	Weightage in % age	Physical Progress as per Annexure-I of Schedule-G	Weighatge of Completed work in %
SR NO	MONTH	WORKDONE AMOUNT IN (Cr.)	PHYSICAL PROGRESS (%)	CUMULATIVE PHYSICAL PROGRESS			
			Project Cost	516.56			
1	FEBRUARY	0	0.00%	0.00%			
2	MARCH	2.61	0.51%	0.51%			
3	APRIL	4.54	0.88%	1.38%			
4	MAY	11.66	2.26%	3.64%			
5	JUNE	11.4	2.21%	5.85%			
6	JULY	1.81	0.35%	6.20%			
7	AUGUST	2.59	0.50%	6.70%			
8	SEPTEMBER	8.83	1.71%	8.41%			
9	OCTOBER	18.80	3.64%	12.05%			
10	November	45.36	8.78%	20.83%			
11	December	17.15	3.32%	24.15%			
TOTAL		124.75	24.15%				

* Amount is calculated as per Schedule-G

3.2 Work done status of highway & Structure

Highway								
Sr no.	Work description	Side	Unit	Scope	Completed	In progress	Balance	% of Balance
1	C & G	LHS	KMS	26.1	21.4	0	4.7	18.01%
2		RHS	KMS	26.1	21.4	0	4.7	18.01%
3	Earthwork	LHS	KMS	26.1	15.2	3.8	7.1	27.20%
4		RHS	KMS	26.1	15.2	3.8	7.1	27.20%
5	Sub Grade	LHS	KMS	26.1	8.645	2.5	14.955	57.30%
6		RHS	KMS	26.1	8.645	2.5	14.955	57.30%
7	GSB	LHS	KMS	26.1	3.525	1.8	20.775	79.60%
8		RHS	KMS	26.1	3.525	1.8	20.775	79.60%
9	WMM	LHS	KMS	26.1	1.2		24.9	95.40%
10		RHS	KMS	26.1	1.2		24.9	95.40%
11	DBM	LHS	KMS	26.1	1.2		24.9	95.40%
12		RHS	KMS	26.1	1.2		24.9	95.40%
13	BC	LHS	KMS	26.1	1.2		24.9	95.40%
14		RHS	KMS	26.1	1.2		24.9	95.40%
Structure								
Sr no.	Work description	Side	Unit	Scope	Completed	In progress	Yet to start	% of Progress
1	Pipe culverts		Nos	58	20	21	17	70.69%
2	Box culverts		Nos	16	3	2	11	31.25%
3	Minor Bridges		Nos	19	8	10	1	94.74%
4	VUP		Nos	3	0	2	1	66.67%
5	LVUP		Nos	3	2	0	1	66.67%
6	Major bridge		Nos	1	0	1	0	100.00%
7	VOP		Nos	1	0	0	1	0.00%
8	FOB		Nos	3	0	0	3	0.00%

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3.3 Strip chart of structure

Strip chart showing the status of BOX Culverts													
Sr no.	Chainage		SPAN	Activity Status(BHS)								
	Schedule	Design		Excavation	PCC	Raft	Bottom Haunch	Wall 1st Lift	Wall 2nd Lift	Wall 3rd Lift	Top Haunch	Slab
1	19+180		1X6.0 M									
2	21+108		1X6.0 M									
3	21+283		1X6.0 M									
4	21+408		1X6.0 M									
5	22+554		1X6.0 M	DONE	WIP	WIP	WIP	WIP				
6	25+973	25+992	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
7	26+612	26+612	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
8	26+794	26+804	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
9	31+005	31+005	1X6.0 M	DONE	DONE	DONE	WIP					
10	35+575		1X4.0 M									
11	39+070		1X6.0 M									
12	40+052		1X2.0 M									
13	41+923		1X2.0 M									
14	43+998		1X2.0 M									
15	44+191		1X2.0 M									
TOTAL SCOPE				15	15	15	15	15	15	15	15	15
WORK COMPLETED				5	4	4	3	3	3	3	3	3
BALANCE				10	11	11	12	12	12	12	12	12

Strip chart showing the status of Hume pipe culverts

Sr. no.	Chainage		Dia. (m)	Drawing Status		Activity Status(Both Side)								
	Schedule	Design				Excavation	GSB	PCC	Pipe Laying	Head wall PCC	Head wall 1st lift	Head wall 2nd lift	Head wall 3rd lift	Encasing
1	19+250	19+250	1.2					NA						
2	20+205	20+205	1.2					NA						
3	20+360	20+360	1.2			DONE		NA						
4	20+438	20+438	1.2											
5	20+468	20+468	1.2											
6	21+945	21+945	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
7	22+083	22+080	1.2			DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
8	22+160	22+160	1.2			DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
9	22+214	22+214	1.2			DONE	DONE	NA	DONE					
10	22+339	22+339	1.2			DONE		DONE	WIP	WIP				
11	22+769	22+769	1.2			DONE								
12	22+807	22+802	1.2											
13	23+201	23+197	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
14	23+414	23+440	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
15	23+566	23+565	1.2			DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
16	23+932	23+932	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
17	24+147	24+145	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
18	24+511	24+507	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
19	24+820	24+817	1.2			DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
20	24+878	24+878	1.2			DONE								
21	25+150	25+150	1.2					NA						
22	26+366	26+366	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
23	27+243	27+237	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
24	27+358	27+358	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
25	27+452	27+446	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
26	27+959	27+959	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
27	28+295	28+300	1.2			DONE	NA	DONE	WIP					
28	28+384	28+381	1.2			DONE	NA	DONE	WIP					
29	28+581	28+579	1.2			DONE		DONE						
30	28+619	28+618	1.2											
31	29+476	29+476	1.2					NA						
32	30+097	30+093	1.2											
33	30+460	30+460	1.2					NA						
34	30+661	30+661	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
35	30+838	30+838	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
36	30+928	30+928	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
37	31+781	31+781	1.2											
38	31+962	31+962	1.2											
39	32+059	32+059	1.2			DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE

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Sr. no.	Chainage		Dia. (m)	Drawing Status		Activity Status(Both Side)								
	Schedule	Design				Excavation	GSB	PCC	Pipe Laying	Head wall PCC	Head wall 1st lift	Head wall 2nd lift	Head wall 3rd lift	Encasing
40	32+115	32+115	1.2			DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
41	32+178	32+178	1.2			DONE	NA	DONE	DONE					
42	32+228	32+228	1.2			DONE	NA	DONE	DONE					
43	32+291	32+291	1.2			DONE	DONE							
44	32+434	32+434	1.2			DONE	DONE	DONE						
45	33+439	33+439	1.2			DONE	NA	DONE						
46	33+600	33+600	1.2			DONE	NA	DONE						
47	34+062	34+062	1.2			DONE	NA							
48	34+352	34+352	1.2			DONE								
49	35+153	35+153	1.2			DONE	NA	DONE		DONE	DONE	DONE	DONE	
50	36+577	36+577	1.2											
51	37+014	37+014	1.2			DONE								
52	37+460	37+460	1.2			DONE		NA						
53	37+540	37+540	1.2					NA						
54	37+840	37+840	1.2			DONE		NA						
55	38+175	38+175	1.2			DONE								
56	38+750	38+750	1.2			DONE								
57	38+850	38+850	1.2											
58	39+219	39+219	1.2											
TOTAL SCOPE						58	20	38	58	58	58	58	58	58
WORK COMPLETED						42	10	23	23	21	21	21	21	20
BALANCE						16	10	15	35	37	37	37	37	38

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Strip chart showing the status of Minor /Major Bridges

Sr no.	Chainage		SPAN	Activity Status(BHS)								
	Schedule	Design		Excavation	PCC	Raft	Bottom Haunch	Wall 1st Lift	Wall 2nd Lift	Wall 3rd Lift	Top Haunch	Slab
1	19+297	19+298	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
2	20+163	20+163	2X10 M	DONE	DONE	DONE	WIP	WIP				
3	20+820	20+816	2X10 M	WIP								
4	21+610	21+610	2X10 M									
5	21+762	21+762	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
6	22+972	22+973	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
7	24+090	23+974	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
8	24+377	24+355	2X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
9	25+320	25+316	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
10	25+815	25+811	1X10 M	DONE	DONE	DONE	WIP					
11	26+487	26+480	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
12	27+042	27+040	2X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
13	27+741	27+736	3X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
14	28+122	28+122	2X10 M	DONE	DONE	DONE	WIP	WIP	WIP	WIP	WIP	WIP
15	28+222	28+222	5X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
16	29+174	29+171	2X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
17	29+659	29+652	2X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
18	30+300	30+305	5X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	WIP	WIP
19	31+745	31+740	3X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
20	33+033	33+033	3X35 M	DONE	DONE	DONE	WIP	WIP	WIP			
TOTAL SCOPE				20	20	20	20	20	20	20	20	20
WORK COMPLETED				18	18	18	14	14	14	14	8	8
BALANCE				2	2	2	6	6	6	6	12	12

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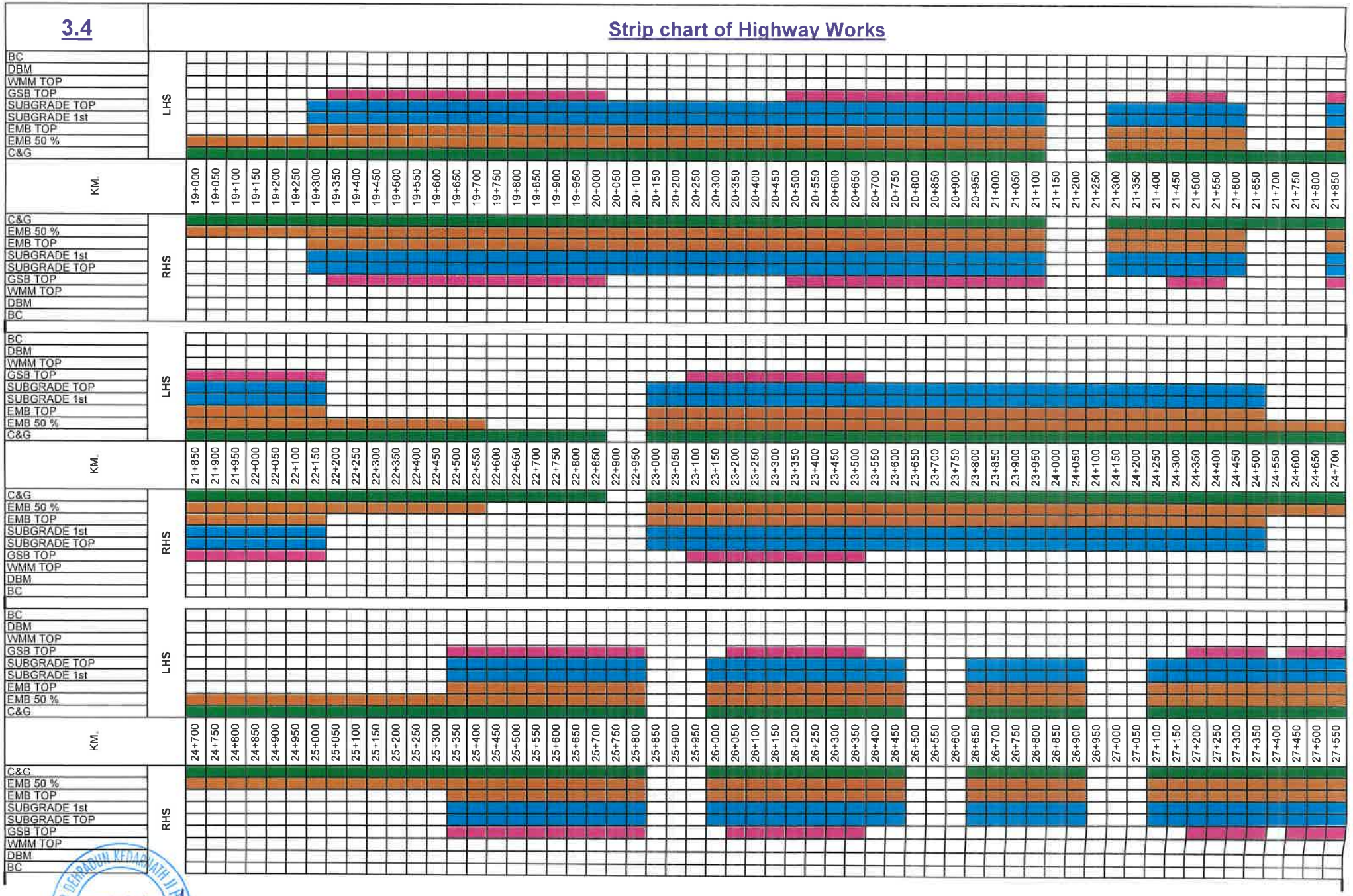
Strip chart showing the status of Grade separated structures

Sr no	Chainage		Length	Activity Status(BHS)								
	Schedule	Design		Excavation	PCC	Raft	Bottom Haunch	Wall 1st Lift	Wall 2nd Lift	Wall 3rd Lift	Top Haunch	Slab
1	22+598	22+596	70	DONE	DONE	WIP	WIP	WIP	WIP			
2	28+285	28+285	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
3	30+259	30+259	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
4	31+691	31+678	70	DONE	DONE	DONE	DONE	DONE	DONE	WIP		
5	39+493	39+500	12	DONE								
6	39+740	39+720	16									
7	40+063	40+042	72.5									
TOTAL SCOPE				7	7	7	7	7	7	7	7	7
WORK COMPLETED				5	4	3	3	3	3	2	2	2
BALANCE				2	3	4	4	4	4	5	5	5

3.4 Strip chart of Highway Works



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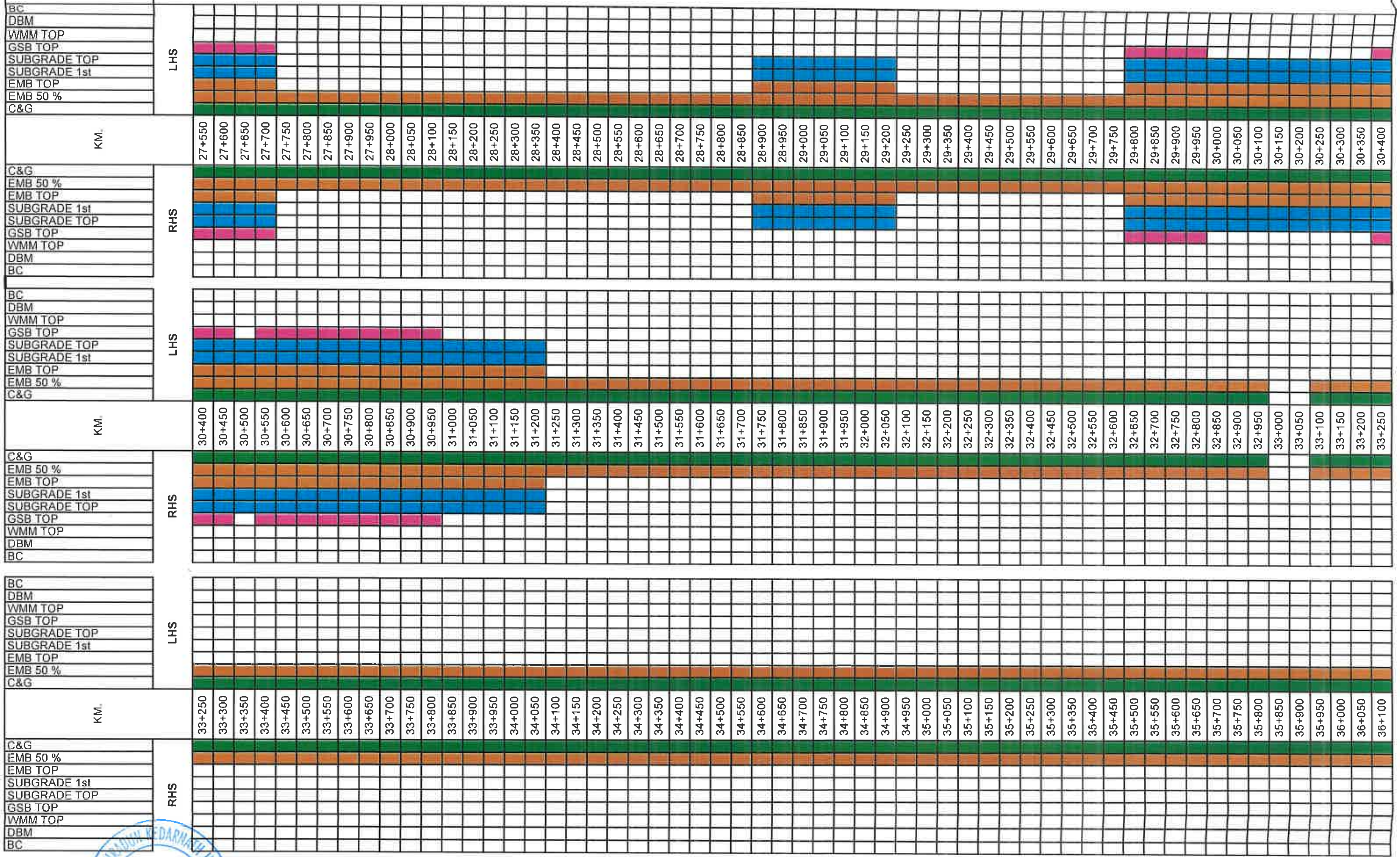
3.4 Strip chart of Highway Works



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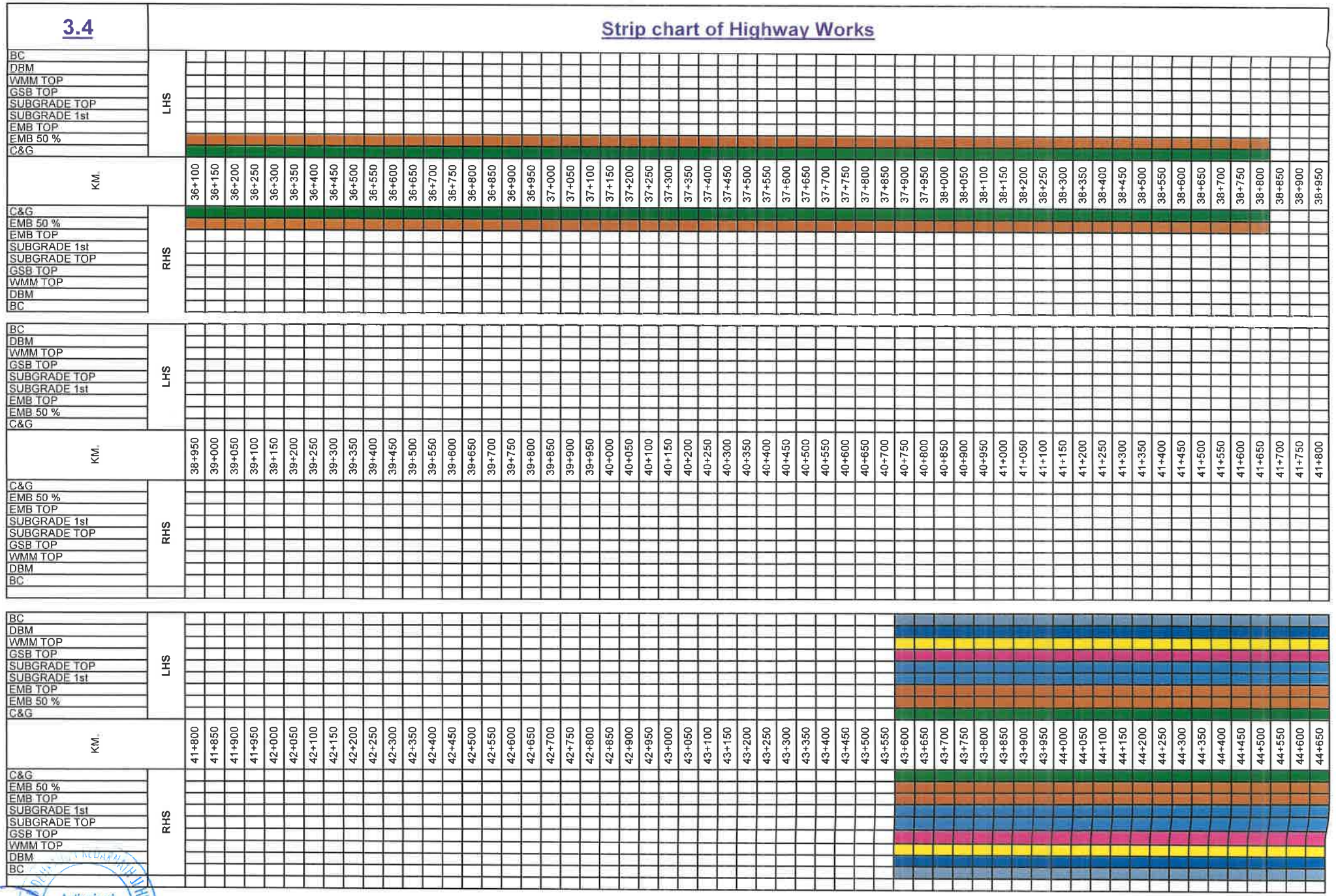
3.4

Strip chart of Highway Works



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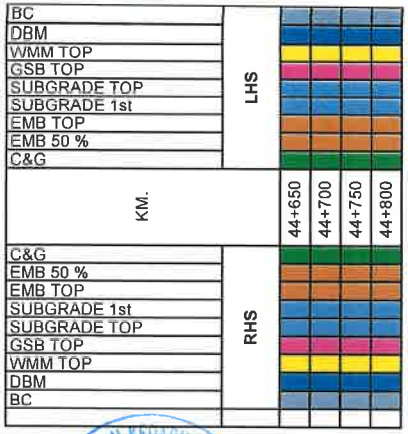
3.4	Strip chart of Highway Works



3.5 Utility shifting

Stament showing the work done of the utilty shifting

S.No	Chainage	Line Name	Status	Division	Remarks
1	19+320	11 KV	Complete	Herbatpur	
2	22+586	LT Line	Complete	Herbatpur	
3	22+720	11 KV	Complete	Herbatpur	
4	23+350	11 KV	Complete	Herbatpur	
5	25+250	11 KV	Complete	Herbatpur	
6	26+150	LT Line	Complete	Herbatpur	
7	26+900	LT Line	Complete	Ganeshpur	
8	27+700	11 KV	Complete	Ganeshpur	
9	27+720	LT Line	Complete	Ganeshpur	
10	28+060	11 KV	Complete	Ganeshpur	
11	28+325	LT Line	Complete	Ganeshpur	
12	28+450	LT Line	Complete	Ganeshpur	
13	28+850	LT Line	Complete	Ganeshpur	
14	28+565	11 KV	Complete	Ganeshpur	
15	28+750	LT Line	Complete	Ganeshpur	
16	28+900	LT Line	Complete	Ganeshpur	
17	29+100	LT Line	Complete	Ganeshpur	
18	29+100	11 KV	Complete	Ganeshpur	
19	29+174	11 KV	Complete	Ganeshpur	
20	29+800	LT Line	Complete	Ganeshpur	
21	31+150	LT Line	Complete	Ganeshpur	
22	31+350	LT Line	Complete	Ganeshpur	
23	31+360	LT Line	Complete	Ganeshpur	
24	31+370	11 KV	Complete	Ganeshpur	
25	31+500	LT Line	Complete	Ganeshpur	
26	31+800	LT Line	Complete	Ganeshpur	
27	32+500	LT Line	Complete	Ganeshpur	
28	33+650	11 KV	Complete	Ganeshpur	
29	34+000	LT Line	Complete	Ganeshpur	
30	34+200	11 KV	Complete	Ganeshpur	
31	34+450	11 KV	Complete	Ganeshpur	
32	35+800	LT Line	Complete	Ganeshpur	
33	35+850	LT Line	Complete	Ganeshpur	
34	36+400	LT Line	Complete	Mohanpur	
35	36+500	LT Line	Complete	Mohanpur	
36	36+660	LT Line	Complete	Mohanpur	
37	35+820	11 KV	Complete	Ganeshpur	
38	36+200	LT Line	Complete	Mohanpur	
39	37+035	LT Line	Complete	Mohanpur	
40	37+200	LT Line	Complete	Mohanpur	
41	37+550	LT Line	Complete	Mohanpur	
42	38+250	11 KV	Complete	Mohanpur	
43	38+925	LT Line	Complete	Mohanpur	

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Status of approval

4.1 Status of drawing approval

Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
BOX Culverts									
1		19+180	1X6.0 M			0	0	1	0
2		21+108	1X6.0 M			1	1	0	0
3		21+283	1X6.0 M			1	1	0	0
4		21+408	1X6.0 M			1	1	0	0
5		21+610	1X6.0 M			1	0	0	1
6	25+992	25+973	1X6.0 M	R1	R0	1	1	0	0
7	26+612	26+612	1X6.0 M	R1	R1	1	1	0	0
8	26+794	26+794	1X6.0 M	R1	R1	1	1	0	0
9	31+005	31+005	1X6.0 M	R3	R1	1	1	0	0
10	35+575	35+575	1X4.0 M	R0	R0	1	1	0	0
11		39+070	1X6.0 M			0	0	1	0
12		40+052	1X2.0 M			0	0	1	0
13		41+923	1X2.0 M			1	1	0	0
14		43+998	1X2.0 M			1	1	0	0
15		44+191	1X2.0 M			1	1	0	0
Total of BOX culvert						**12**	**11**	**3**	**1**
Hume pipe culverts									
1	19+250	19+250	1.2			1	1	0	0
2	20+205	20+205	1.2			1	1	0	0
3	20+360	20+360	1.2			1	1	0	0
4	20+438	20+438	1.2			1	1	0	0
5	20+468	20+468	1.2			1	1	0	0
6	21+945	21+945	1.2			1	1	0	0
7	22+083	22+080	1.2			1	1	0	0
8	22+160	22+160	1.2			1	1	0	0
9	22+214	22+214	1.2			1	1	0	0
10	22+339	22+339	1.2			1	1	0	0
11	22+769	22+769	1.2			1	1	0	0
12	22+807	22+802	1.2			1	1	0	0
13	23+201	23+197	1.2			1	1	0	0
14	23+414	23+440	1.2			1	1	0	0
15	23+566	23+565	1.2			1	1	0	0
16	23+932	23+932	1.2			1	1	0	0
17	24+147	24+145	1.2			1	1	0	0
18	24+511	24+507	1.2			1	1	0	0

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Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
19	24+820	24+817	1.2			1	1	0	0
20	24+878	24+878	1.2			1	1	0	0
21	25+150	25+150	1.2			1	1	0	0
22	26+366	26+366	1.2			1	1	0	0
23	27+243	27+237	1.2			1	1	0	0
24	27+358	27+358	1.2			1	1	0	0
25	27+452	27+446	1.2			1	1	0	0
26	27+959	27+959	1.2			1	1	0	0
27	28+295	28+300	1.2			1	1	0	0
28	28+384	28+381	1.2			1	1	0	0
29	28+581	28+579	1.2			1	1	0	0
30	28+619	28+618	1.2			1	1	0	0
31	29+476	29+476	1.2			1	1	0	0
32	30+097	30+093	1.2			1	1	0	0
33	30+460	30+460	1.2			1	1	0	0
34	30+661	30+661	1.2			1	1	0	0
35	30+838	30+838	1.2			1	1	0	0
36	30+928	30+928	1.2			1	1	0	0
37	31+781	31+781	1.2			1	1	0	0
38	31+962	31+962	1.2			1	1	0	0
39	32+059	32+059	1.2			1	1	0	0
40	32+115	32+115	1.2			1	1	0	0
41	32+178	32+178	1.2			1	1	0	0
42	32+228	32+228	1.2			1	1	0	0
43	32+291	32+291	1.2			1	1	0	0
44	32+434	32+434	1.2			1	1	0	0
45	33+439	33+439	1.2			1	1	0	0
46	33+600	33+600	1.2			1	1	0	0
47	34+062	34+062	1.2			1	1	0	0
48	34+352	34+352	1.2			1	1	0	0
49	35+153	35+153	1.2			1	1	0	0
50	36+577	36+577	1.2			1	1	0	0
51	37+014	37+014	1.2			1	1	0	0
52	37+460	37+460	1.2			1	1	0	0
53	37+540	37+540	1.2			1	1	0	0
54	37+840	37+840	1.2			1	1	0	0
55	38+175	38+175	1.2			1	1	0	0

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Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
56	38+750	38+750	1.2			1	1	0	0
57	38+850	38+850	1.2			1	1	0	0
58	39+219	39+219	1.2			1	1	0	0
Total of hume pipe culvert						**58**	**58**	**0**	**0**
Minor /Major Bridges									
1	19+297	19+298	3X8 M	R2	R3	1	1	0	0
2	20+163	20+163	2X10 M	R3	R3	1	1	0	0
3	20+820	20+816	2X10 M	R0	R1	1	1	0	0
4	21+762	21+762	3X8 M	R3	R3	1	1	0	0
5	22+554	22+554	1X10 M			1	1	0	0
6	22+972	22+973	3X8 M			1	1	0	0
7	24+090	23+974	3X8 M	R3	R3	1	1	0	0
8	24+377	24+355	2X10 M	R1	R1	1	1	0	0
9	25+320	25+316	3X8 M	R4	R3	1	1	0	0
10	25+815	25+811	1X10 M	R2	R2	1	1	0	0
11	26+487	26+480	3X8 M	R3	R3	1	1	0	0
12	27+042	27+040	2X8 M	R2	R2	1	1	0	0
13	27+741	27+736	3X10 M	R3	R3	1	1	0	0
14	28+122	28+122	2X10 M			1	1	0	0
15	28+222	28+222	5X10 M	R1	R1	1	1	0	0
16	29+174	29+171	2X8 M	R2	R2	1	1	0	0
17	29+659	29+652	2X8 M	R2	R2	1	1	0	0
18	30+300	30+305	5X10 M	R2	R2	1	1	0	0
19	31+745	31+740	3X10 M	R2	R2	1	1	0	0
20	33+033	33+033	3X35 M			1	1	0	0
Total of minor/major bridges						**20**	**20**	**0**	**0**
Grade separated structures									
1	22+598	22+596	70			1	1	0	0
2	28+285	28+285	12			1	1	0	0
3	30+259	30+259	12			1	1	0	0
4	31+691	31+678	70			1	1	0	0
5	39+493	39+500	12			1	1	0	0
6	39+740	39+720	16			1	1	0	0
7	40+063	40+042	72.5			1	0	0	1
Total of GSS						**7**	**6**	**0**	**1**

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Critical issues and hindrance

5.1 Hindrance in the work

Sr.No	Location		Length	Remarks
	From	To		
1	31+480	31+550	70	Non payment issues
2	33+480	33+680	200	Non payment issues
3	34+150	34+350	200	Non payment issues
4	34+550	34+750	200	Non payment issues
5	36+800			Non payment issues
6	39+000	39+120	120	Non payment issues
Total in Metre			**790**	

5.2 list of issues

Sr no	Work type	Location	Detail of issue	Remarks
1	Highway	31+480 to 31+550	Payment issue	Site is not handed over to Concessionaire
2	Highway	33+480 to 33+680	Payment issue	Site is not handed over to Concessionaire
3	Hume Pipe Culvert	34+150 to 34+350	Payment issue	Site is not handed over to Concessionaire
4	Hume Pipe Culvert	34+550 to 34+750	Payment issue	Site is not handed over to Concessionaire
5	Hume Pipe Culvert	36+800	Payment issue	Site is not handed over to Concessionaire
6	Highway	39+000 to 39+120	Payment issue	Site is not handed over to Concessionaire

Mobilization Status

6.1 List of personnel deployment

Sr No	Departement	Name	Designation
		Concessioniare Staff	
1	Key Role	Shivraj Singh	SPM
2	Billing & Planning	Lokesh Kumar Saraswat	Asst.Manager
3		Jignesh Chouhan	Engineer
4		Hemanth Tak	Engineer
5	Structure	Lalit Sharma	Sr. Engineer
6	Highway	Raman Kumar	Sr. Engineer
7	QA/QC	Ram Kumar Yadav	Asst.Manager
		EPC Contractor Staff	
1	Key Role	Om Prakash Bhadoriya	PM
2		Kamlesh Kumar Varma	DPM
3	Billing & Planning	Soumitra Maity	Engineer
4		Surya Pratap Singh	Engineer
5	Structure	Pradeep Singh	Sr. Engineer
6		Binay kr Mishra	Engineer
7		Rohit Kumar	Engineer
8		Ankur kumar	Engineer
9		Patel Komal Kumar	Engineer
10		Lokesh Solanki	Engineer
11		Sonu Kumar	Engineer
12		Santosh Bharrdwaj	Jr.Engineer
13		Ankur Mall	Engineer
14		Saurabh Tiwari	Engineer
15		Avneesh Chaudhary	Engineer
16		Shubh Kumar	Jr. Engineer
17		Md. Hamid	Engineer
18		Rishikesh	Engineer
19		Satyam	Engineer
20		Sanju	Engineer
21		Bhabesh	Engineer
22	QA/QC	Sudhanshu Kumar	Jr. Engineer
23		Rijayant Saini	Jr. Engineer
24	Survey	Ashok Kumar Sharma	Dy.Manager
25		Manish Kumar	Engineer
26		Sandeep	Surveyor
27		Shivam Singh	Surveyor
28		Satya Singh	Surveyor
29		Shivjeet Singh	Surveyor
30		Avanish Rai	Sr.Engineer
31		Prakash Konai	Engineer
32		Jai Vardhan Tiwari	Engineer
33		Debjyoti Kundu	Engineer
34		Nishant Kumar Singh	Jr. Engineer

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Sr No	Departement	Name	Designation
35	Highway	Naveen Shah	Jr. Engineer
36		Rohit Kumar Singh	Supervisor
37		Pramod Kumar	Engineer
38		Bijendra Kumar Singh	Supervisor
39		Yogendra Singh	Supervisor
40		Vishnu Singh	Jr.Engineer
41		Rahul Singh	Supervisor
42		Avad Kishor Jadon	Supervisor
43		Satendra Singh	Supervisor
44		Aman Singh	Supervisor
45		Kuldeep Singh	Supervisor
46		Bharat Kumar	Supervisor
47	Mechanical	Munna Singh	Asst.Manager
48		Arpit Sharma	Engineer
49		Vivek Kumar	Jr.Executive
50		Kuldeep Kumawat	Jr.Executive
51		Chandan Kumar	Supervisor
52		Surendra Gupta	Supervisor
53		Akhand Pratap Singh	Engineer
54		Nank Chand	Supervisor
55		Jitendra Verma	Engineer
56		Shekhar Singh	Supervisor
57	HR	Ashutosh Upadhyay	Asst. Manager
58		Roshan Kumar	Executive
59	Liaison	Ravi Shankar	Manager
60	Account	Rahul Sharma	Executive
61		Patel Pratik Kumar	Jr.Executive
62	IT Executive	Gaurav Gupta	Sr. Engineer
63	SAFETY	Shubham Pandey	Executive
64	Store	Satyadhar Singh	Manager
65		Balmukund Singh	Executive
66		Pawan kr. Sharam	Jr. Executive
67		Vipul Sharma	Jr. Executive
68		Ramnivash Dhakad	Supervisor
69		Dharmendra	officer
70		Bhaskar Kumar	Crusher Supervisor
71		Manish Goirola	W/B Operator
72		Dharmendra Kumar	W/B Operator
73		Lallu Kumar	Diesel Supervisor
74		Sonu Kumar	Executive
75	QA/QC Technician & Helper	Udayveer Singh	Sr.Lab Technician
76		Sandeep Kumar	Lab Technician
77		Ramnivash Dhakad	Lab Technician
78		Ravi Prakash Singh	Lab Technician
79		Santosh Baghel	Lab Technician
80		Arun Dhakad	Lab Technician
81		Aditya Dhakar	Lab Technician

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Sr No	Departement	Name	Designation
82	& Helper	Vishal Singh Rana	Lab Helper
83		Rohit Kumar	Lab Helper
84		Rohit Kumar Patel	Lab Helper
85		Mohit Kumar	Lab Helper
86		Mukul Kumar	Lab Helper
87		Chandan Sharma	Lab Helper
88		Sanjay Kumar	LMV Driver
89		Kuldeep Yadav	LMV Driver
90		Soban Singh	LMV Driver
91		Abhishek Tiwari	LMV Driver
92		Pradeep Napit	LMV Driver
93		Ramakund Shukla	LMV Driver
94		Vinay Singh	LMV Driver
95		Ambikesh Dwivedi	LMV Driver
96		Ravindra	LMV Driver
97		Arvind Kumar	LMV Driver
98		Pradeep	LMV Driver
99		Laxuman Singh	LMV Driver
100		Om Kumar	HMV Driver
101		Samarpal	HMV Driver
102		Ashok Kumar	HMV Driver
103		Jitendra Rai	HMV Driver
104		Gorelal Kol	HMV Driver
105		Tersem Lal	HMV Driver
106		Nikhil Singh	HMV Driver
107		Rajveer Singh	HMV Driver
108		Madhuraj Singh	HMV Driver
109		Ram Swaroop	HMV Driver
110		Jai Prakash	HMV Driver
111		Raghubir Singh	HMV Driver
112		Manish Kumar	HMV Driver
113		Pappu Gupta	HMV Driver
114		Brajesh Kumar	HMV Driver
115		Suneel Kumar Yadav	HMV Driver
116		Narsingh Shukla	HMV Driver
117		Krishna Rajbhar	HMV Driver
118		Vijay Kumar	HMV Driver
119		Abhishek	HMV Driver
120		Kuldeep Singh	HMV Driver
121		Savan Baral	HMV Driver
122		Mahipal	HMV Driver
123		Surendra Singh	HMV Driver
124		Narendra Babu	HMV Driver
125		Khajan Singh	HMV Driver
126		Rajesh Yadav	HMV Driver

Sr No	Departement	Name	Designation
127		Jagmal Singh	HMV Driver
128		Devendra Singh	HMV Driver
129		Ankit Tomar	HMV Driver
130		Asharam	TM Driver
131		Padam Singh	TM Driver
132		Lalit Singh	TM Driver
133		Dharmendra Singh	TM Driver
134		Ranjeet Singh Rawat	TM Driver
135		Beerendra Singh	TM Driver
136		Mukesh Rawat	TM Driver
137		Sandeep Singh	TM Driver
138		Mahendra Pratad	TM Driver
139		Sanjay Paswan	TM Driver
140		Amresh Singh	TM Driver
141		Surendra Yadav	Trailer Driver
142		Vishnu Yadav	Boom Placer opt
143		Raj kumar	Boom Placer opt
144		Virender Kumar Patel	Excavator Operator
145		Vipin Kumar	Excavator Operator
146		Ramesh Kumar	Excavator Operator
147		Md. Afroz	Excavator Operator
148		Sham Singh	Excavator Operator
149		Pushkar Singh	Excavator Operator
150		Pratimesh Kushwaha	Excavator Operator
151		Nandlal Patel	Excavator Operator
152		Ajay Kumar Patel	Excavator Operator
153		Pravesh Kumar	Excavator Operator
154	Other	Sunil Kumar Rawat	Grader Operator
155		Ram Krishna Patel	Grader Operator
156		Puneet Kumar	Grader Operator
157		Deepak Kumar	Grader Operator
158		Vikash Babu	Roller opt
159		Vijay Patel	Roller opt
160		Shiromani Singh	Roller opt
161		Dharamveer	Roller opt
162		Yogendra Kumar Singh	Roller opt
163		Chandrapal Singh	Roller opt
164		Kamal Kishor Singh	Roller opt
165		MD.Mustakim Ahmad	JCB Operator
166		Sanjay Kumar Patel	JCB Operator
167		Sukhdev Kumar	JCB Operator
168		Babloo Kushwah	JCB Operator

Sr No	Departement	Name	Designation
169		Om Prakash Pandit	Wheel Loader Opt
170		Vinod Kr Gupta	Auto Electrician
171		Dharmendra Kumar	Auto Electrician
172		Pappu	Electrician
173		Pramod Kumar	Sr. Mechanic
174		Gaurav Rathaur	Asst. Mechanic
175		Shalendra Pandey	Asst.Mechanic
176		Sachin Kumar	Asst.Mechanic
177		Lalit Yadav	Hydra Operator
178		Ankit Sharma	RMC Plant Operator
179		Rahul Kumar Singh	RMC Plant Operator
180		Vishwajeet Kumar Singh	RMC Plant Operator
181		Gaurav Sharma	RMC Plant Operator
182		Vikas Kumar	RMC Plant Operator
183		Rajgir Kumar	Tyre Fitter
184		Ebinay Lal Paswan	Tyre Fitter
185		chhotu Bhadauriya	Tyre Fitter
186		Sunil Kumar Chauhan	Welder
187		Rajpal	Welder
188		Arjun	Workshop Helper
189		Lavakush Kr Gautam	Workshop Helper
190		Deepak Kumar	Workshop Helper
191		Rammurti	Welder Helper
192		Ankit Kumar	Plant Helper
193		Raj Bahadur	Workshop Helper
194		Pravin Prasad	Workshop Helper
195		Santosh Kumar Singh	Tyre Fitter Helper
196		Chandan Kumar	Tyre Fitter Helper
197		Rahul	Plant Helper
198		Sanjay	Plant Helper
199		Vishwakarma Kumar Mahto	Mech. Workshop Helper
200		Prince Kumar	Workshop Helper
201		Rituraj Kumar	Boom Placer Helper
202		Dori Lal	Welder Helper
203		Niraj Kumar	Workshop Helper
204		Vishal Singh Rana	Lab Helper
205		Mohit Kumar	Lab Helper
206		Mukul Kumar	Lab Helper
207		Amit	Lab Helper
208		Chandan Sharma	Lab Helper
209		Nitin Kumar	Office Boy
210		Subash Kumar	Helper

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Sr No	Departement	Name	Designation
211		Bachcha Singh	Office Boy
212		Shivam	Sweeper
213		Shivendra Yadav	Store Helper
214		Ambrish Singh	Store Helper
215		Manmandr Pal	Survey Helper
216		Durgesh	Survey Helper
217		Vinit Kumar	Survey Helper
218		Sumit	Survey Helper

6.2 Mobilization of plants & machinery

Sr. No	Item Description	Unit	Nos
1	Hydraulic Excavator (20 Ton)	Nos.	19
2	Dumpers (25 Ton)	Nos.	62
3	Backhoe Loader	Nos.	9
4	Wheel Loader	Nos.	2
5	Motor Grader	Nos.	7
6	Crane /Hydra	Nos.	2
7	Dozer	Nos.	2
8	Baby Roller	Nos.	1
9	Soil Compactor	Nos.	8
10	Transit Mixers	Nos.	9
11	Water Tanker	Nos.	7
12	Trailer	Nos.	2
13	Weigh Bridge	Nos.	2
14	Utility Vehicles	Nos.	6
15	Crusher Plant	Nos.	1
16	Concrete Batching Plant (45 Cum)	Nos.	2
17	Venus Mobile Concrete Batching Plant (18 Cum)	Nos.	1
18	WMM Plant	Nos.	1
19	Screening Plant	Nos.	1
20	RE Block Plant	Nos.	1
21	DG Sets	Nos.	21
22	Diesel Tanker	Nos.	3
23	Bike	Nos.	6
24	LMV	Nos.	11
25	Compressor	Nos.	1
26	Boom Placer	Nos.	1
27	Silo 150 MT	Nos.	3
28	Concrete Bucket (0.5 cum)	Nos.	1
29	Mud Pump 25HP	Nos.	2
30	Fork Lift	Nos.	1
		Total	**195**

6.3 Mobilization of lab equipments

Sr no	Description	Nos	Remarks
1	Hot air Oven 60cm X 60 cmX 60 cm,	2	
2	Hot plate 200mm dia (1500 watt)	2	
	MDD/OMC		
3	Proctor Mould (2250 cc)	2	
4	Proctor Mould (1000 cc)	2	
5	Modified Proctor Rammer(4.89 kg capacity)	6	
6	Modified procter hammer 2.6 Kg capacity	2	
7	150 mm Steel Spatula with wooden handle for Proctor (Big)	8	
8	Straight Edge (300mm)	2	
9	Hammer (Rubber Malet)	2	
	CBR test		
10	CBR Testing Machine - With plunger	1	
11	CBR Mould (Assumption: Everyday 4 CBR samples (12 moulds))	30	
12	Brass perforated plate	30	
13	Surcharge weight 147mm dia 2.5 kg wt. (Annular)	30	
14	Surcharge weight 147mm dia 2.5 kg wt. (slotted)	30	
15	Speacer disc	30	
16	Dial Gauge (min 25mm)	10	
17	Proving Ring - 50 KN capacity	2	
18	Soaking Tank for CBR Moulds (6 CBR molds)	1	
	LL/PL		
19	Cassagrande Apparatus with groving tools (Hand operated)	2	
20	100 mm Steel Spatula with wooden handle for LL & PL (Small)	4	
21	Glass PL Rod (3mm thickness)	4	
22	Ground Glass Plate with rounded edge 600*600*10mm	4	
23	Cone Penetrometer for soil	2	
24	China clay Bowl	7	
	FSI		
25	Measuring cylinder 100 ml Capacity (Glass Make Borocil) for FSI test	20	
	NDT Test		
26	Rebound Hammer	1	
	FDD		
27	Sand Pouring Cylinder (100 mm dia)	2	
28	Tray for 10 cm dia	2	
29	Calibrating Container 100 mm dia	100	
30	Sand Pouring Cylinder (150 mm)	2	
31	Tray for 150 mm dia	2	
32	Calibrating Container 150 mm dia	2	
33	Sand Pouring Cylinder (200 mm)	2	
34	Tray for 200 mm dia	2	
35	Calibrating Container 200 mm dia	2	
36	Rapid moisture meters	5	

Sr no	Description	Nos	Remarks
37	Calcium Carbide 500 gm pkt	10	
B. List of Lab Equipment for concrete Laboratory (Structural			
	FI & EI		
38	Flakiness Gauge	2	
39	Elongation gauge	2	
	AIV		
40	AIV Apparatus(full set)	1	
	Crushing value		
41	Crushing value apparartus	1	
	Bulk Density		
42	Bulk density cylinder capacity of **3 Ltr**	1	
43	Bulk density cylinder capacity of **15 Ltr**	1	
44	Bulk density cylinder capacity of **30 Ltr**	1	
45	Tamping Rod of 16mmØ and 60cm long	6	
	Sp.Gravity & WA		
46	Specific gravity for coarse aggregate complete set up	1	
47	Electronic Weighing balance of 10 kg capacity	1	
48	Specific gravity Pycnometer capaity of 1 LTR (FA)	2	
	Consistency,Initial & Final Setting time,soundness of cement		
49	Vicat Apparatus with plunger and Initial&Final setting time needles	2	
50	Gauging Trowel	6	
51	Lee chatlier Apparatus	5	
52	Constant Temp. Bath	1	
	Compressive strength of cement mortar		
53	Mortar cube vibrating machine	1	
54	Mortar cube moulds **(70.6mm x 70.6mm x 70.6mm)**	18	
55	Standard sand (Grade1,2 & 3) 25 kg each	9	
	Compressive strength of concrete		
56	Concrete cube Moulds **(150mm x 150mm x 150mm)**	84	150-Cast Iron , 150 - Plastic
57	Vibrating table for cube casting (1mX1m)	1	
58	Compression testing Machine- **2000 KN**	1	
59	Tamping Rod of 16mmØ and 60cm long	6	
60	Cube moulds **(100mmx100mmX100mm)**	12	
61	Concrete mixer - (Tilting Drum Mixer)	1	
62	Mason Trowel Big	10	
	Slump test		
63	Slump cone with rod (Sets)	6	
64	Steel ruler,30cm long	8	
65	Sampling Scoop (2.5 Kg capacity)	4	
66	Sampling Scoop (1.0 Kg capacity)	4	
C. List of Lab Equipment for Bitumen and Bitumen Mixes			
67	Specific gravity bottle 50ml	5	
68	Core cutting machine with 100 mm and 150 mm dia. Diamond Cutting Bit (100mm & 150mm) Machine -1 Core bits - each 2	1	

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Sr no	Description	Nos	Remarks
69	Filter Paper, 100 mm dia (Packet) & 150mm dia (packet)	10	
C.	**IS Sieves for Soil,GSB,WMM,DBM,BC,cement,Fly ash,Filter**		
	Brass Sieve 200 mm Dia		
70	Brass Sieve 4.75 mm	2	
71	Brass Sieve 2.36 mm	2	
72	Brass Sieve 2.00 mm	1	
73	Brass Sieve 1.40 mm	1	
74	Brass Sieve 1.18 mm	1	
75	Brass Sieve 1.00 mm	2	
76	Brass Sieve 850 mic.	1	
77	Brass Sieve 710 mic.	1	
78	Brass Sieve 600 mic.	1	
79	Brass Sieve 425 mic.	1	
80	Brass Sieve 300 mic.	2	
81	Brass Sieve 180 mic.	1	
82	Brass Sieve 150 mic.	2	
83	Brass Sieve 90 mic.	2	
84	Brass Sieve 75 mic.	2	
85	Brass Sieve 45 mic.	2	
	GI Sieve 450 mm Dia		
86	GI Sieve 75 mm	2	
87	GI Sieve 63 mm	1	
88	GI Sieve 53 mm	1	
89	GI Sieve 45 mm	3	
90	GI Sieve 40 mm	1	
91	GI Sieve 37.5 mm	2	
92	GI Sieve 31.5 mm	2	
93	GI Sieve 26.5 mm	2	
94	GI Sieve 25 mm	1	
95	GI Sieve 22.4 mm	1	
96	GI Sieve 20 mm	2	
97	GI Sieve 19 mm	1	
98	GI Sieve 16 mm	1	
99	GI Sieve 13.2 mm	1	
100	GI Sieve 12.5 mm	1	
101	GI Sieve 11.2 mm	2	
102	GI Sieve 10 mm	2	
103	GI Sieve 9.5 mm	2	
104	GI Sieve 6.3 mm	1	
105	GI Sieve 5.6 mm	1	
106	GI Sieve 4.75 mm	1	
107	GI Sieve 2.36 mm	2	
108	GI Lid and Pan	0	
	Common items		
109	Vernier Caliper-300mm (Digital)	1	
110	Electronic Weighing Balance (30 Kg) , 1gm	2	
111	Electronic Weighing Balance (10 Kg) 0.5 gm	1	
112	Electronic Weighing Balance (600G) , 0.01gm	2	
113	Measuring cylinder of 1000ml capacity(Plastic)	2	
114	Measuring cylinder of 500ml capacity(Plastic)	2	

Sr no	Description	Nos	Remarks
115	Hydrometer (0.8 to 0.9)	3	
116	Rain gauge -	1	
117	Digital Thermometer (0 to 250° C) - Pen type	5	
118	Iron hammer	4	
119	Lab Programme display board (white board)	1	
120	Measuring tape steel 30 mtr	1	
121	Measuring tape steel 5 mtr	1	
122	Spades	2	
123	Pick axes	2	
124	Sampling Scoop	4	
For calibration of HMP and Batching palnt			
125	Standard Iron weights 20kg	1	
126	Standard Iron weights 10 kg	1	
127	Standard Iron weights 5 kg	1	
128	Standard Iron weights 2 kg	1	
129	Standard Iron weights 1 kg	1	
130	Standard Iron weights 500 gms	1	
131	Standard Iron weights 200gms	1	
132	Standard Iron weights 100gms	1	
D. List of Lab Equipment for Bitumen and Bitumen Mixes			
133	Measuring Cylinder Glass 100ml	16	
134	Proving Ring - 30 KN	2	
135	Dial Gauge 25mm	6	
136	Stop Watch Digital	2	
137	Softening Point App. (Ring & Ball)	1	
138	Standard Penetrometre Digital	1	
139	Say Bolt Visco Metre	1	
140	Bitumen Extractor Electrical	1	
141	Bitumen Extractor Manual	1	
142	Ductility Machine	1	
143	Marshal Pedestal 100mm	1	
144	Marshal Rammer 100mm Dia	4	
145	Marshal Pedestal 150mm	1	
146	Marshal Rammer 150mm Dia	4	
147	Marshal Stability Machine	1	
148	Marshal Mould 100 mm Dia	30	
149	Marshal Mould 150 mm Dia	30	
150	Viscosity Bath	1	
151	Viscosity Glass Tube 6no.	1	
152	Viscosity Glass Tube 12no.	1	
153	Rotary Vaccum Pump	1	
154	GMM Flask 2000 ML	1	
155	GMM Flask 5000 ML	1	
156	Silicon Oil	20	
157	Water Bath	1	
158	S.G. Bottle 50 ml	4	
159	Thin Film Oven	1	
160	Core Bit 100 MM	4	
161	Core Bit 150 MM	4	
162	Flash & Fire Point App.	1	
163	M. Cylinder 250 ML Glass	4	

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Sr no	Description	Nos	Remarks
164	M. Cylinder 500 ML Glass	4	
165	M. Cylinder 1000 ML Glass	2	
166	Funnel	4	
167	Glass Thermometre	5	
168	Maximum & Minimum Thermometre	1	
169	Circular Tray	15	
170	G.I Tray 300 X 300 mm	6	
171	Gloves (Rbber)	10	
172	Hot Mix Gloves	10	
173	Wash Bottle	5	
174	Scoop	12	
175	Spatula 100 mm	6	
176	Thickness Gauge 6"	4	
177	Thickness Gauge 12"	4	
178	Vernier Calliper Digital 150 mm	1	
179	Digital Thermometer Pen Type	10	
180	Digital Thermometer	2	
181	Spirit Level	1	
182	Lazer Thermometer	2	
183	Filter Paper 110 mm	15	
184	Filter Paper 150 mm	15	
185	Filter Paper 240 mm	15	
186	M. Cylinder 1000 ML Plastic	2	
187	M. Cylinder 500 ML Plastic	2	
188	Glass Plate	2	

Quality control test conducted summary

7.1

Quality control test conducted summary

Sl.No	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
A	OGL																
i)	Grain Size Analysis	2 tests for 3000 cu.m of soil	IS 2720 Part-4	0	76	76	0	0	0	0	76	76	0	0	19	19	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cu.m of soil	IS 2720 Part-5	0	76	76	0	0	0	0	76	76	0	0	19	19	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cu.m of soil	IS 2720 Part-8	0	76	76	0	0	0	0	76	76	0	0	19	19	
iv)	Free Swell Index (FSI)	2 tests for 3000 cu.m of soil	IS 2720 Part-40	0	76	76	0	0	0	0	76	76	0	0	19	19	
v)	CBR Test	1 test for 3000 m^3	AASHTO T 193	0	1	1	0	0	0	0	1	1	0	0	0	0	
B	Borrow Area																
i)	Grain Size Analysis	2 tests for 3000 cu.m of soil	IS 2720 Part-4	0	267	267	0	0	0	0	267	267	0	0	182	182	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cu.m of soil	IS 2720 Part-5	0	267	267	0	0	0	0	267	267	0	0	182	182	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cu.m of soil	IS 2720 Part-8	0	267	267	0	0	0	0	267	267	0	0	182	182	
iv)	Free Swell Index (FSI)	2 tests for 3000 cu.m of soil	IS 2720 Part-40	0	267	267	0	0	0	0	267	267	0	0	182	182	
v)	CBR Test for SG	1 test for 3000 m^3	AASHTO T 193	0	56	56	0	0	0	0	56	56	0	0	39	39	
C	Cutting Soil for Emb/Subgrade																
i)	Grain Size Analysis	2 tests for 3000 cu.m of soil	IS 2720 Part-4	0	2	2	0	0	0	0	2	2	0	0	2	2	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cu.m of soil	IS 2720 Part-5	0	2	2	0	0	0	0	2	2	0	0	2	2	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cu.m of soil	IS 2720 Part-8	0	2	2	0	0	0	0	2	2	0	0	2	2	
iv)	Free Swell Index (FSI)	2 tests for 3000 cu.m of soil	IS 2720 Part-40	0	2	2	0	0	0	0	2	2	0	0	2	2	
vi)	CBR Test for SG	1 test for 3000 m^3	AASHTO T 193	0	0	0	0	0	0	0	0	0	0	0	0	0	
D	Field Compaction Test(FDD)																
i)	Compaction Test for OGL (m^2)	1 Tests for every 3000 m^2	IS 2720 Part-28	0	1527	1396	131	0	0	0	1527	1396	131	0	832	832	
ii)	Compaction Control for Embankment	1 Test/3000 m2	IS 2720 Part-28	3154	10554	9764	790	3154	2913	241	13708	12677	1031	1648	3961	5609	
iii)	Compaction Control for Sub Grade	1 Test/2000 m2	IS 2720 Part-28	379	495	425	70	379	322	57	495	425	70	157	214	371	
E	For Granular Subbase (m^3)																
i)	Gradation	One test per 400 cu.m	IS 2386 Part-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Atterberg Limits (LL & PL)	One test per 400 cu.m	IS 2720 Part-5	0	0	0	0	0	0	0	0	0	0	0	0	0	
iii)	Proctor Test(MDD & OMC)	As Required	IS 2720 Part-8	0	0	0	0	0	0	0	0	0	0	0	0	0	
iv)	CBR Test in soaked condition	As Required	IS 2720 Part-28	0	0	0	0	0	0	0	0	0	0	0	0	0	
v)	Water Absorption	As required	IS 2386 Part-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
vi)	Ten percent Fines Value	Source Approval/when required	IS 2386 Part-4	0	0	0	0	0	0	0	0	0	0	0	0	0	
F	For Wet mix Macadam (m^3)																
i)	Gradation	One test per 200 cu.m of aggregate	IS 2386 Part-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Atterberg Limits (LL & PL)	One test per 200 cu.m of aggregate	IS 2720 Part-5	0	0	0	0	0	0	0	0	0	0	0	0	0	

SLNo	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
iii)	Proctor Test(MDD & OMC)	As Required	IS 2720 Part-8	0	0	0	0	0	0	0	0	0	0	0	0	0	
iv)	Aggregate Impact Value(AIV)	One test per 1000 cu.m of aggregate	IS 2386 Part-4	0	0	0	0	0	0	0	0	0	0	0	0	0	
v)	FI & EI	One set of three tests per 500 sq.m	IS 2386 Part-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
vi)	Water absorption of Aggregate	Source Approval/when required	IS 2386 Part-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	**For Prime Coat / Tack Coat**																
i)	Quality of binder	Number of samples per lot and tests as per IS:73, IS:217 and IS:8887 as applicable		0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Binder temperature for application	At regular close intervals		0	0	0	0	0	0	0	0	0	0	0	0	0	
iii)	Rate of Spread of Binder/Prime coat (m^2)	Three tests per day	IRC SP 11	0	0	0	0	0	0	0	0	0	0	0	0	0	
iv)	Rate of Spread of Binder/Tack coat (m^2)	Three tests per day	IRC SP 11	0	0	0	0	0	0	0	0	0	0	0	0	0	
H	**Bitumen (VG)**																
i)	Penetration Test (Lot)	Each lot 1 test	IS 1203	0	0	0	0	0	0	0	0	0		0	0	0	
ii)	Softening Point (Lot)	Each lot 1 test	IS 1205	0	0	0	0	0	0	0	0	0		0	0	0	
I	**Modified Bitumen (CRMB)**																
i)	Penetration Test (Lot)	Each lot 1 test	IS 1203	0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Softening Point (Lot)	Each lot 1 test	IS 1205	0	0	0	0	0	0	0	0	0	0	0	0	0	
iii)	Elastic Recovery Test (Lot)	Each lot 1 test	IRC:SP:53	0	0	0	0	0	0	0	0	0	0	0	0	0	
I	**Special Grade Bitumen**																
i)	Penetration Test (Lot)	Each lot 1 test	IS 1203	5	0	0	0	5	5	0	5	5	0	2	0	2	
ii)	Softening Point (Lot)	Each lot 1 test	IS 1205	5	0	0	0	5	5	0	5	5	0	2	0	2	
J	**Bituminous Macadam (M^3)**																
i)	Quality of binder	Number of samples per lot and tests as per IS:73, IS:217 and IS:8887 as applicable	IS:73, IS:217 & IS:8887 as applicable	0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Aggregate Impact Value/Los Angles Abrasion Value	One test per 200 cu.m of each source and whenever there is change in the quality of aggregate	IS 2386 Part-4	0	0	0	0	0	0	0	0	0	0	0	0	0	
iii)	Combined Flakiness and Elongation Indices	One test per 350 cu.m for each source	IS 2386 Part-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
iv)	Stripping Value	One test of each source and whenever there is change in the quality of aggregate	IS: 6241	0	0	0	0	0	0	0	0	0	0	0	0	0	
v)	Water absorption of Aggregates	One test of each source and whenever there is change in the quality of aggregate	IS 2386 Part-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
vi)	Water Sensitivity of mix	One test of each source and whenever there is change in the quality of aggregate	ASHTO 283	0	0	0	0	0	0	0	0	0	0	0	0	0	
vii)	Grading of aggregate	Two tests per day		0	0	0	0	0	0	0	0	0	0	0	0	0	
viii)	Soundness(Magnesium Sulphate/Sodium Sulphate)	One test for each source and whenever there is change in the quality of aggregate	IS:2386 Part-5	0	0	0	0	0	0	0	0	0	0	0	0	0	
ix)	Percentage of fractured faces	One test per 100 cu.m of aggregate		0	0	0	0	0	0	0	0	0	0	0	0	0	
x)	Binder Content	Two tests per day per plant	ASTM D 2172	0	0	0	0	0	0	0	0	0	0	0	0	0	
xi)	Control of temperature of binder and aggregate for mix and of the mix at the time of laying and	At regular intervals		0	0	0	0	0	0	0	0	0	0	0	0	0	
xii)	Density of Compacted Layer	One test per 700 sq.m area	AASTHO T 166	0	0	0	0	0	0	0	0	0	0	0	0	0	
xiii)	Rate of Spread of Mixed Material	At regular intervals		0	0	0	0	0	0	0	0	0	0	0	0	0	

Sl.No	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
xiv)	Mix Grading (dry)	Each 400 tones of mix	MoRT&H T4	0	0	0	0	0	0	0	0	0	0	0	0	0	
K	**Dense Bituminous Macadam**																
i)	Quality of binder	Number of samples per lot and tests as per IS:73, or IRC:SP:53, IS:15462	IS:73, IS:217 & IS:8887 as applicable	0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Aggregate Impact Value/Los Angles Abrasion Value	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part-IV	0	2	2	0	0	0	0	2	2	0	0	1	1	
iii)	Combined Flakiness and Elongation Indices	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part-I	0	2	2	0	0	0	0	2	2	0	0	1	1	
iv)	Soundness test (Sodium or Magnesium Sulphate test)	One test for each source and whenever there is change in the quality of aggregate	IS 2386 Part-V	0	0	0	0	0	0	0	0	0	0	0	0	0	
v)	Water absorption of Aggregate	One test for each source and whenever there is change in the quality of aggregate	IS 2386 Part-III	0	0	0	0	0	0	0	0	0	0	0	0	0	
vi)	Sand equivalent test	One test for each source and whenever there is change in the quality of aggregate		0	0	0	0	0	0	0	0	0	0	0	0	0	
vii)	Plasticity Index	One test for each source and whenever there is change in the quality of aggregate		0	0	0	0	0	0	0	0	0	0	0	0	0	
viii)	Polished stone value	One test for each source and whenever there is change in the quality of aggregate	IS:2386 Part-IV	0	0	0	0	0	0	0	0	0	0	0	0	0	
ix)	Percentage of fractured face	One test per 350 cu.m of aggregate when crushed gravel is used	ASTM D 5821, IS: 2386 - Part I	0	0	0	0	0	0	0	0	0	0	0	0	0	
x)	Mix grading	One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to two tests per day per plant		0	3	3	0	0	0	0	3	3	0	0	2	2	
xi)	Stability and voids analysis of mix including theoretical maximum specific of loose mix	Three tests for stability, flow value, density and void contents for each 400 tonnes of mix subject to minimum of two tests per day per plant		0	0	0	0	0	0	0	0	0	0	0	0	0	
xii)	Moisture Susceptibility of mix (AASHTO T283)	One test for each mix whenever there is change in the quality or source of coarse of fine aggregate	ASHTO 283	0	0	0	0	0	0	0	0	0	0	0	0	0	
xiii)	Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction	At regular intervals		0	0	0	0	0	0	0	0	0	0	0	0	0	
xiv)	Binder Content	One set for each 400 tonnes of mix subject to minimum of two tests per day per plant	MS-2, ASTM D 5581	3	0	0	0	3	3	0	0	0	0	0	1	1	
xv)	Rate of spread of mix material	After every 5th truck load		0	0	0	0	0	0	0	0	0	0	0	0	0	
xvi)	Density of Compacted Layer	One test per 700 sq.m area	AASTHO T 166	0	17	17	0	0	0	0	17	17	0	0	5	5	
xvii)	Stripping Value of Aggregate	Source Approval/when required	IS: 6241	0	0	0	0	0	0	0	0	0	0	0	0	0	
xviii)	with sodium sulphate	Source Approval/when required	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xix)	with magnesium sulphate	Source Approval/when required	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xx)	SG/Water absorption of Aggregate	Source Approval/when required	IS 2386 Part-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
xxi)	Mix Grading (dry)	Each 400 tones of mix	MoRT&H Table 500-10	3	0	0	0	3	3	0	0	0	0	0	2	2	
xxii)	Stability of mix	Each 400 tones of mix	ASTM D 1559	0	0	0	0	0	0	0	0	0	0	0	0	0	
L	**Bituminous Concrete (M^3)**																
i)	Quality of binder	Number of samples per lot and tests as per IS:73, or IRC:SP:53, IS:15462		0	0	0	0	0	0	0	0	0	0	0	0	0	
ii)	Aggregate Impact Value/Los Angles Abrasion Value	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part-IV	0	3	3	0	0	0	0	0	0	0	0	2	2	
iii)	Flakiness and Elongation Index	One test per 350 cu.m of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part-I	0	3	3	0	0	0	0	0	0	0	0	2	2	
iv)	Soundness test (Sodium or Magnesium Sulphate test)	One test for each source and whenever there is change in the quality of aggregate	IS 2386 Part-V	0	0	0	0	0	0	0	0	0	0	0	0	0	
v)	Water absorption of Aggregate	One test for each source and whenever there is change in the quality of aggregate	IS:2386 Part-III	0	0	0	0	0	0	0	0	0	0	0	0	0	

Sl.No	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
vi)	Sand equivalent test	One test for each source and whenever there is change in the quality of aggregate		0	0	0	0	0	0	0	0	0	0	0	0	0	
vii)	Plasticity Index	One test for each source and whenever there is change in the quality of aggregate		0	0	0	0	0	0	0	0	0	0	0	0	0	
viii)	Polished stone value	One test for each source and whenever there is change in the quality of aggregate	IS:2386 Part-IV	0	0	0	0	0	0	0	0	0	0	0	0	0	
ix)	Percentage of fractured face	One test per 350 cu.m of aggregate when crushed gravel is used		0	0	0	0	0	0	0	0	0	0	0	0	0	
x)	Mix grading	One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to two tests per day per plant		0	5	5	0	0	0	0	0	0	0	0	4	4	
xi)	Stability and voids analysis of mix including theoretical maximum specific of loose mix	Three tests for stability, flow value, density and void contents for each 400 tonnes of mix subject to minimum of two tests per day per plant	AASTHO T 245	0	0	0	0	0	0	0	0	0	0	0	0	0	
xii)	Moisture Susceptibility of mix (AASHTO T283)	One test for each mix whenever there is change in the quality or source of coarse of fine aggregate	ASHTO 283	0	0	0	0	0	0	0	0	0	0	0	0	0	
xiii)	Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction	At regular intervals		0	0	0	0	0	0	0	0	0	0	0	0	0	
xiv)	Binder Content	One set for each 400 tonnes of mix subject to minimum of two tests per day per plant	ASTM D 2172	0	0	0	0	5	0	5	0	0	0	0	4	4	
xv)	Rate of spread of mix material	After every 5th truck load		0	0	0	0	0	0	0	0	0	0	0	0	0	
xvi)	Density of Compacted Layer	One test per 700 sq.m area	AASTHO T 166	0	18	18	0	0	0	0	0	0	0	6	0	6	
xvii)	Stripping Value of Aggregate	Source Approval/when required	IS 6241	0	0	0	0	0	0	0	0	0	0	0	0	0	
xviii)	with sodium sulphate	Source Approval/when required	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xix)	with magnesium sulphate	Source Approval/when required	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xx)	SG/Water absorption of Aggregate	Source Approval/when required	IS 2386 Part-3	0	0	0	0	0	0	0	0	0	0	0	0	0	
xxi)	Mix Grading (dry)	Each 400 tones of mix	MoRT&H T10	0	5	5	0	0	0	0	0	0	0	0	6	6	
xxii)	Stability of mix	Each 400 tones of mix	ASTM D 1559	0	0	0	0	0	0	0	0	0	0	0	0	0	
M	**Dry Lean Concrete (DLC)**																
	Gradation of Aggregate (Individual /Combined)	1 Test/Day	IS: 2386, Part 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Strength of concrete	3 Samples/1000sqm	IS:516	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Field Compaction Test (By Sand Replacement Method)	3 density holes/2000sqm	IS: 2720, Part 28	0	0	0	0	0	0	0	0	0	0	0	0	0	
N	**Pavement Quality Concrete (PQC)**																
	Gradation of Aggregate (Individual /Combined)	1 Test/Day	IS: 2386, Part 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Deleterious Constituents	1 Test/Source	IS: 2386, Part 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Water Absorption	1 Test/Source	IS: 2386, Part 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Moisture Content Test	1 Test/Day	IS: 2386, Part 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Los Angeles Abrasion Test	1 Test/Source	IS: 2386, Part 4	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Combined Flakiness & Elongation	1 Test/Week	IS: 2386, Part 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sand Equivalent Test	1 Test/Source	IS: 2720, Part 37	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Soundness of aggregates	1 Test/Source	IS:2386,Part 5	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Compressive Strength of Concrete	2 cubes and 2 beams per 150 cu.m or part of or minimum 6 cubes an 6 beams (3 for 7days & 3 for 28 days)	IS: 516	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Flexural Strength		IS: 516	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Core Strength	As Required	IS: 516	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Workability of Concrete	One test for each load at both Batching plant site and paving site	IS: 1199	0	0	0	0	0	0	0	0	0	0	0	0	0	

Sl.No	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
O	**Structural Concrete Work (M^3)**																
1	Cement															0	-
i)	Consistency	for Every Batch/Lot	IS 4301 Part-4	4	33	33	0	4	4	0	37	37	0	2	15	17	
ii)	Initial setting time & final setting time	for Every Batch/Lot	IS 4301 Part-5	4	33	33	0	4	4	0	37	37	0	2	15	17	
iii)	Fineness	for Every Batch/Lot	IS 4301 Part-1	4	33	33	0	4	4	0	37	37	0	2	13	15	
iv)	Compressive strength (3 Days)	for Every Batch/Lot	IS 4301 Part-6	4	54	54	0	4	4	0	58	58	0	2	11	13	
v)	Compressive strength (7 Days)	for Every Batch/Lot	IS 4301 Part-6	5	59	59	0	5	5	0	64	64	0	2	12	14	
vi)	Compressive strength (28 Days)	for Every Batch/Lot	IS 4301 Part-6	4	49	49	0	4	4	0	53	53	0	2	10	12	
2	Water	Source Approval/when required	IS 456	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Steel Reinforcement	Source Approval/when required	IS	0	10	10	0	0	0	0	10	10	0	0	4	4	
4	Admixture	Source Approval/when required	IS	0	1	1	0	0	0	0	1	1	0	0	1	1	
5	Coarse & fine Aggregates :																-
i)	Gradation Test for Coarse Aggregate	1 Test / day	IS 383	31	238	238	0	31	31	0	269	269	0	6	98	104	
ii)	Gradation Test for Fine Aggregate	1 Test / day	IS 383	31	189	189	0	31	31	0	220	220	0	16	75	91	
iii)	Flakiness Index	1 Test / day	IS 2386 Part-1	4	41	41	0	4	4	0	45	45	0	2	15	17	
iv)	Aggregate Impact Value/Los Angles Abrasion Value	1 Test / day	IS 2386 Part-4	4	41	41	0	4	4	0	45	45	0	0	16	16	
v)	Soundness Test	Source Approval/when required	IS 2386 Part-5	0	1	1	0	0	0	0	0	1	0	0	0	0	
6	Concrete Compressive strength (7 Days) m^3		IS 516	402	881	881	0	402	402	0	1283	1283	0	237	384	621	
7	Concrete Compressive strength (28 Days) m^3		IS 516	558	1707	1707	0	558	558	0	2265	2265	0	329	484	813	
P	**Calibration**																
i)	Concrete Batching Plant (CP-0.5) RE Block	One test for every year	-	0	1	1	0	1	1	0	1	1	0	1	1	2	
ii)	Concrete Batching Plant (CP-45)	One test for every year	-	0	3	3	0	1	1	0	4	4	0	1	5	6	
iii)	Sand pouring cylinder 150mm dia.	One test for every month	IS 2720 Part-28	1	9	9	0	1	1	0	10	10	0	1	5	6	
iv)	Sand pouring cylinder 200mm dia.	One test for every month	IS 2720 Part-28	1	9	9	0	1	1	0	10	10	0	1	5	6	
v)	Sand pouring cylinder 100mm dia.	One test for every month	IS 2720 Part-28	1	5	5	0	1	1	0	6	6	0	1	3	4	
vi)	Rapid moisture meter	One test for every month	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
vii)	Compressive testing machine 2000KN	One test for every year	-	0	1	1	0	0	0	0	1	1	0	0	0	0	
viii)	Flexural Testing Machine	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
ix)	Proving ring 50KN	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
x)	Proving ring 30KN	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xi)	Proving ring 25KN	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xii)	WMM Plant 160TPH	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
xiii)	HM Plant 160TPH	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Sl.No	Type of Test	Frequency	Test method	No of test Required during Month	No. of Test conducted up to previous months			No. of Test conducted During Month			No. of Test conducted up to this months			No. of Test conducted by Independent Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
xiv)	Bitumen Sprayer	One test for every year	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total			**4607**	**17469**	**16478**	**991**	**4614**	**4311**	**303**	**21657**	**20426**	**1232**	**2422**	**7060**	**9482**	

Correspondence

8.1 Summary of correspondence letters

Sr. No	Letter No	Subject	To	From	Date	Remarks
1	MKCIL/GNR/UK_PSB_PKG-2/375	Regarding Submission of third party test report of Bharatbuild conchem, Polygon, Silkon, Fairmate.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	02.12.2023	
2	MKCIL/GNR/UK_PSB_PKG-2/376	Regarding Testing of Re Blocks.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	02.12.2023	
3	MKCIL/GNR/UK_PSB_PKG-2/377	Reg. Submission of test report of borrow area-21	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	06.12.2023	
4	MKCIL/GNR/UK_PSB_PKG-2/379	Reg. Submission of monthly progress report for the month of November 2023 as per clause 13.7 of CA.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	07.12.2023	
5	MKCIL/GNR/UK_PSB_PKG-2/380	Reg. Submission of performance report summary admixture trails of concrete mix design.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	07.12.2023	
6	MKCIL/GNR/UK_PSB_PKG-2/381	Reg. Submission of list of change of scope as per Article-16 of concession agreement.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	08.12.2023	
7	MKCIL/GNR/UK_PSB_PKG-2/382	Reg. Submission of Drawings of road side drain.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	09.12.2023	
8	MKCIL/GNR/UK_PSB_PKG-2/383	Reg. Submission of Drawings of Hume Pipe Culvert and Box Culvert.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	09.12.2023	
9	MKCIL/GNR/UK_PSB_PKG-2/384	Regarding Location of Bus Bays and Bus Shelters.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	09.12.2023	
10	MKCIL/GNR/UK_PSB_PKG-2/385	Reg. Closing of NCR-5.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	11.12.2023	
11	MKCIL/GNR/UK_PSB_PKG-2/386	Reg. Location of Foot over bridge.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	11.12.2023	
12	MKCIL/GNR/UK_PSB_PKG-2/387	Reg. Submission of Admixture consumption summary.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	13.12.2023	
13	MKCIL/GNR/UK_PSB_PKG-2/391	Reg. Submission Company Profile and Credentials of Shaym metalics & energy limited for source approval.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.12.2023	
14	MKCIL/GNR/UK_PSB_PKG-2/392	Reg. Submission Company Profile and Credentials of Techab India Indus Ltd for source approval.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.12.2023	
15	MKCIL/GNR/UK_PSB_PKG-2/393	Reg. Approval of HPCL for Bitumen.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.12.2023	
16	MKCIL/GNR/UK_PSB_PKG-2/394	Reg. Submission of list of change of scope as per Article-16 of concession agreement.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.12.2023	
17	MKCIL/GNR/UK_PSB_PKG-2/395	Reg. Credentials and Company profile of TENSAR GEOSYNTHETICS INDIA PRIVATE LIMITED for the source approval	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.12.2023	
18	MKCIL/GNR/UK_PSB_PKG-2/396	Reg. Prepare a trial Patch for slope protection (Reminder-02).	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	21.12.2023	
19	MKCIL/GNR/UK_PSB_PKG-2/397	Reg. Request for Extension of time as per Cl. No.-6 og sch.-G project completion schedule of concession agreement.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	21.12.2023	
20	MKCIL/GNR/UK_PSB_PKG-2/398	Reg. Physical & Chemical testing of Reinforcement of shyam metalics & energy limited	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	21.12.2023	
21	MKCIL/GNR/UK_PSB_PKG-2/399	Reg. Achivement of milestone-01 as per Cl no.-2.1 of Sch-G project completion schedule of concession Agreement.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	21.12.2023	

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Sr. No	Letter No	Subject	To	From	Date	Remarks
22	MKCIL/GNR/UK_PSB_PKG-2/400	Reg. Submission of pavement design report.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	22.12.2023	
23	MKCIL/GNR/UK_PSB_PKG-2/401	Reg. Submission of Milestone Payment certificate-03.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	23.12.2023	
24	MKCIL/GNR/UK_PSB_PKG-2/402	Reg. Submission of Milestone Payment certificate-03.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	23.12.2023	
25	MKCIL/GNR/UK_PSB_PKG-2/403	Reg. Submission of Third party lab (CIMEC) DBM mix design grading II & BC mix design for approval.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	23.12.2023	
26	MKCIL/GNR/UK_PSB_PKG-2/405	Reg. Submission of Drone videography & ortho images for the month of December 2023 as per Article 13.6.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	27.12.2023	
27	MKCIL/GNR/UK_PSB_PKG-2/406	Reg. Submission of pavement design report.	NHAI	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	28.12.2023	
28	MKCIL/GNR/UK_PSB_PKG-2/407	Reg. Information of Key Personnel engaged by conssionaire.	NHAI	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.12.2023	
29	MKCIL/GNR/UK_PSB_PKG-2/408	Reg. Execution of RE Wall work at Ch. 31+233 to 31+643 BHS.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.12.2023	
30	MKCIL/GNR/UK_PSB_PKG-2/409	Reg. Submission of GFC Drawings.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.12.2023	
31	MKCIL/GNR/UK_PSB_PKG-2/410	Reg. Backfilling in RE Block wall by unsuitable material.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.12.2023	
32	MKCIL/GNR/UK_PSB_PKG-2/411	Reg. Submission of Typical drawing of utility duct.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.12.2023	

Weather report

9.1 Summary of weather report

SL. NO.	DATE	TEMPERATURE		HUMIDITY		WEATHER	RAIN FALL (in mm)	Cum. Rain Fall Up To Till Month	REMARKS
		MAX.	MIN.	MAX.	MIN.				
1	01-12-2023	26.3	15.6	53	32	Sunny	0	1755.2	Cum. Rain Fall Up To Previous Month
2	02-12-2023	26.2	15.4	52	30	Sunny	0	1755.2	
3	03-12-2023	26.2	15.5	51	32	Sunny	0	1755.2	
4	04-12-2023	26.4	15.4	52	31	Sunny	0	1755.2	
5	05-12-2023	25.8	13.6	49	35	Sunny	0	1755.2	
6	06-12-2023	26.4	13.2	49	34	Sunny	0	1755.2	
7	07-12-2023	25.4	12.9	50	35	Sunny	0	1755.2	
8	08-12-2023	26.1	13.5	48	34	Sunny	0	1755.2	
9	09-12-2023	25.4	12.6	49	35	Sunny	0	1755.2	
10	10-12-2023	23.1	11.7	50	36	Sunny	0	1755.2	
11	11-12-2023	23.4	12.1	49	36	Sunny	0	1755.2	
12	12-12-2023	23.2	12.07	48	35	Sunny	0	1755.2	
13	13-12-2023	21.4	10.05	48	35	Sunny	0	1755.2	
14	14-12-2023	20.3	9.7	47	34	Sunny	0	1755.2	
15	15-12-2023	22.5	10.01	53	36	Sunny	0	1755.2	
16	16-12-2023	21.5	12.1	49	35	Sunny	0.0	1755.2	
17	17-12-2023	20.4	10.3	52	35	Sunny	0	1755.2	
18	18-12-2023	21.2	11.3	48	34	Sunny	0	1755.2	
19	19-12-2023	20.5	10.2	51	35	Sunny	0	1755.2	
20	20-12-2023	21.4	8.7	54	35	Sunny	0	1755.2	
21	21-12-2023	20.3	8.2	53	34	Sunny	0	1755.2	
22	22-12-2023	23	10	55	34	Sunny	0	1755.2	
23	23-12-2023	22	9.5	54	33	Sunny	0	1755.2	
24	24-12-2023	23	8	55	32	Sunny	0	1755.2	
25	25-12-2023	22.7	9.9	54	34	Sunny	0	1755.2	
26	26-12-2023	22.3	9.5	53	31	Sunny	0	1755.2	
27	27-12-2023	13.9	11.1	56	32	Sunny	0	1755.2	
28	28-12-2023	23.4	10.3	55	24	Sunny	0	1755.2	
29	29-12-2023	23.6	10.6	58	35	Sunny	0	1755.2	
30	30-12-2023	23	11.6	57	35	Sunny	0	1755.2	
31	31-12-2023	22	11.5	57	34	Sunny	0	1755.2	

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Site visit and meetings

10.1 Details of site visit and meetings

Sr. No	Date	Meeting & Visit
1	05.12.2023	Site visit of RO Sir
2	08.12.2023	Project review Meeting with authority
3	19.12.2023	Project review Meeting with authority, IE at PIU
4	21.12.2023	Meeting with IE team at Concessionaire camp
5	28.12.2023	Site visit of IE team for checking the quality of work

Site photographs

11.1 Site photographs

Concrete Cube Compressive Strength Testing at Lab

GSB Bed Profiling Work in Progress at Ch.30+800

FDD Checking on GSB Top Layer at Ch.19+350

GSB Bed Rolling Work in Progress at Ch. 19+900

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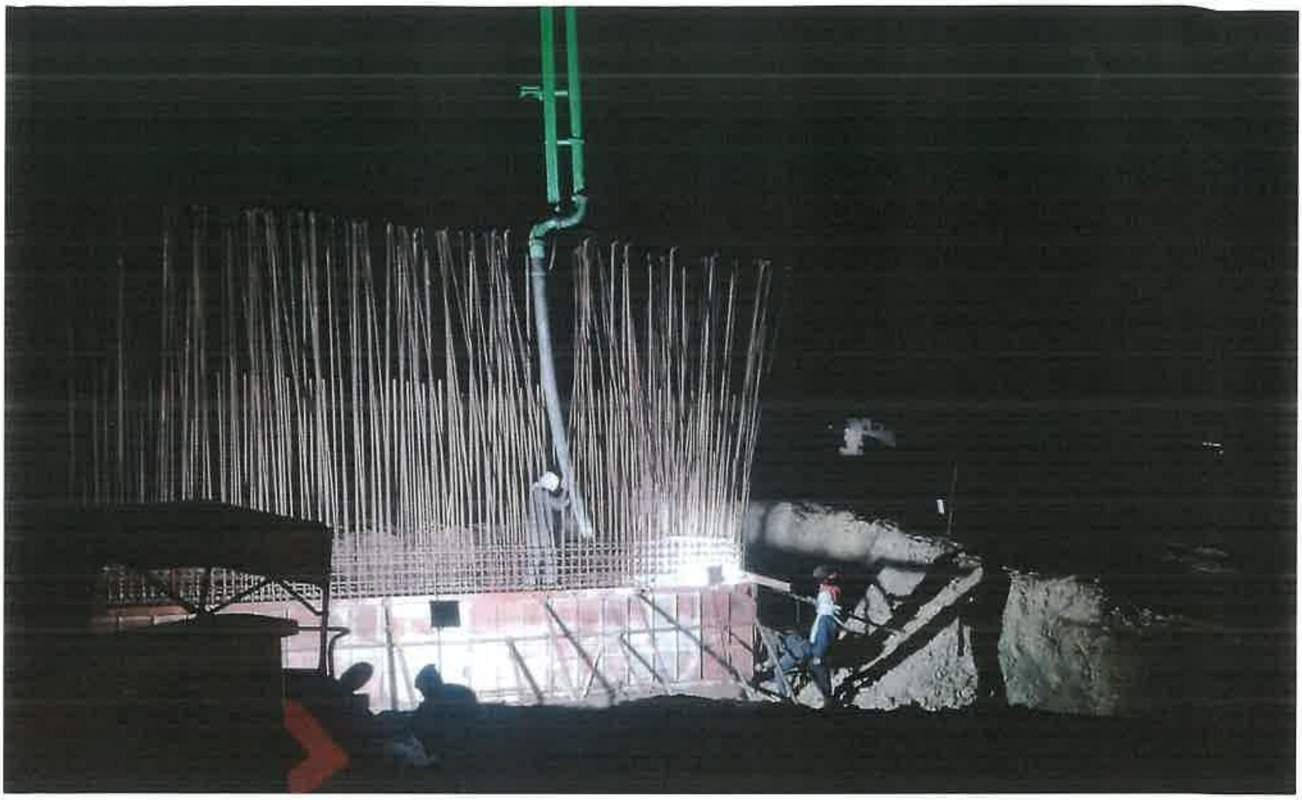
MNB Slab Casting Work in Progress at Ch. 27+741

Hume Pipe Laying of HPC Work in Progress at Ch.33+600

MNB Slab Casting Work in Progress at Ch. 22+972

RE Wall Bed Compaction Work in Progress at Ch. 31+320



MJB Abutment Wall Concreteing Work in Progress at Ch. 33+033

RE Wall Bed PCC Work in Progress at Ch. 31+540

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MNB Slab Reinforcement Work in Progress at Ch. 22+973

MJB Foundation Concreting Work in Progress at Ch. 33+033

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RE Block Erection Work in Progress at Ch. 31+500

Direct Shear Test with AQME sir and ME sir

MJB Girder Concrete Work in Progress at Ch. 33+033

MNB Slab Curing Work in Progress at Ch. 29+174

VUP Abutment Shaft Concrete Work in Progress at Ch. 31+678

Junction Pedestrian Crossing Marking at Ch. 42+200

Site Visit of NHAI and IE Staff

Thanks