MONTHLY PROGRESS REPORT OF OCTOBER-2024

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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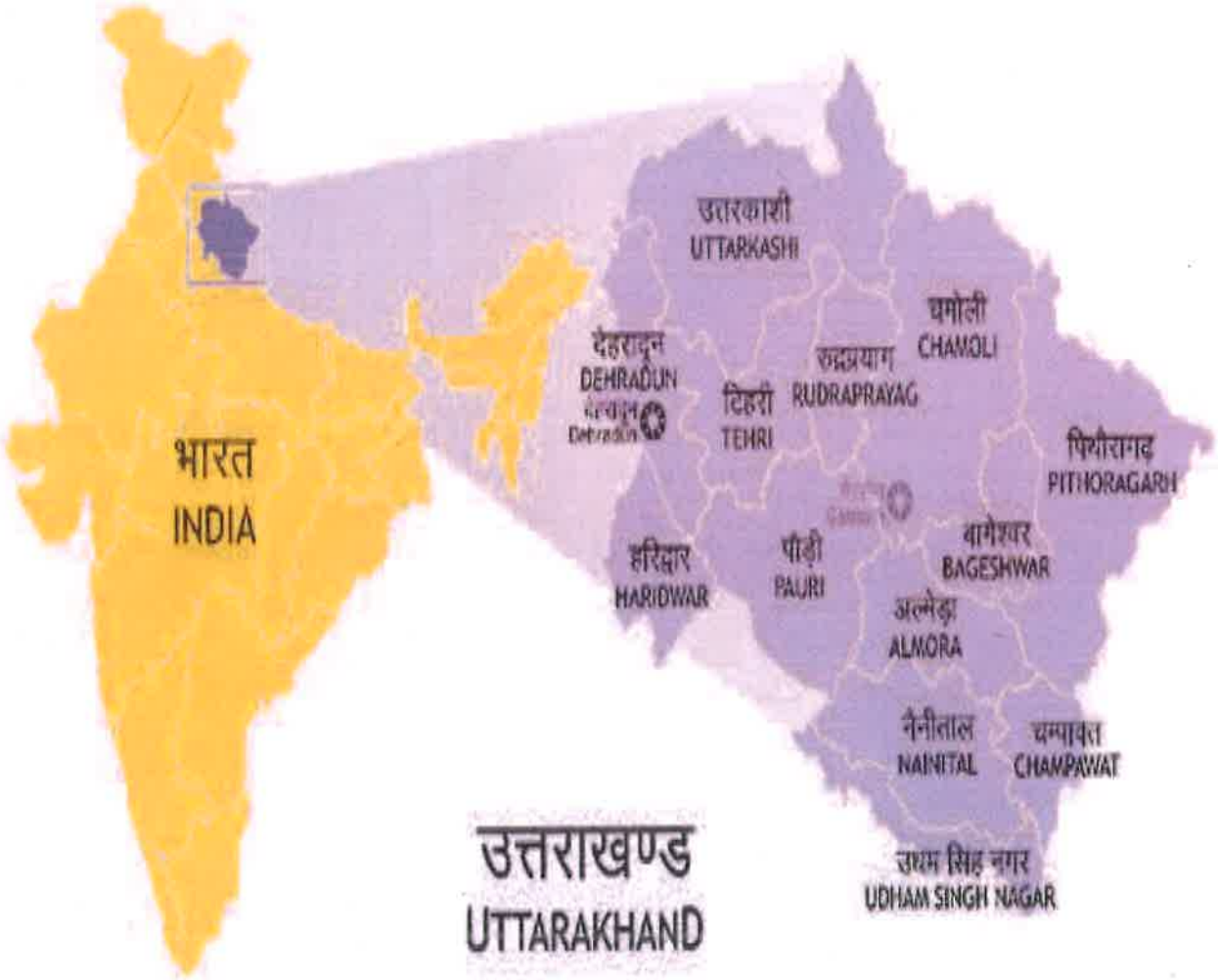
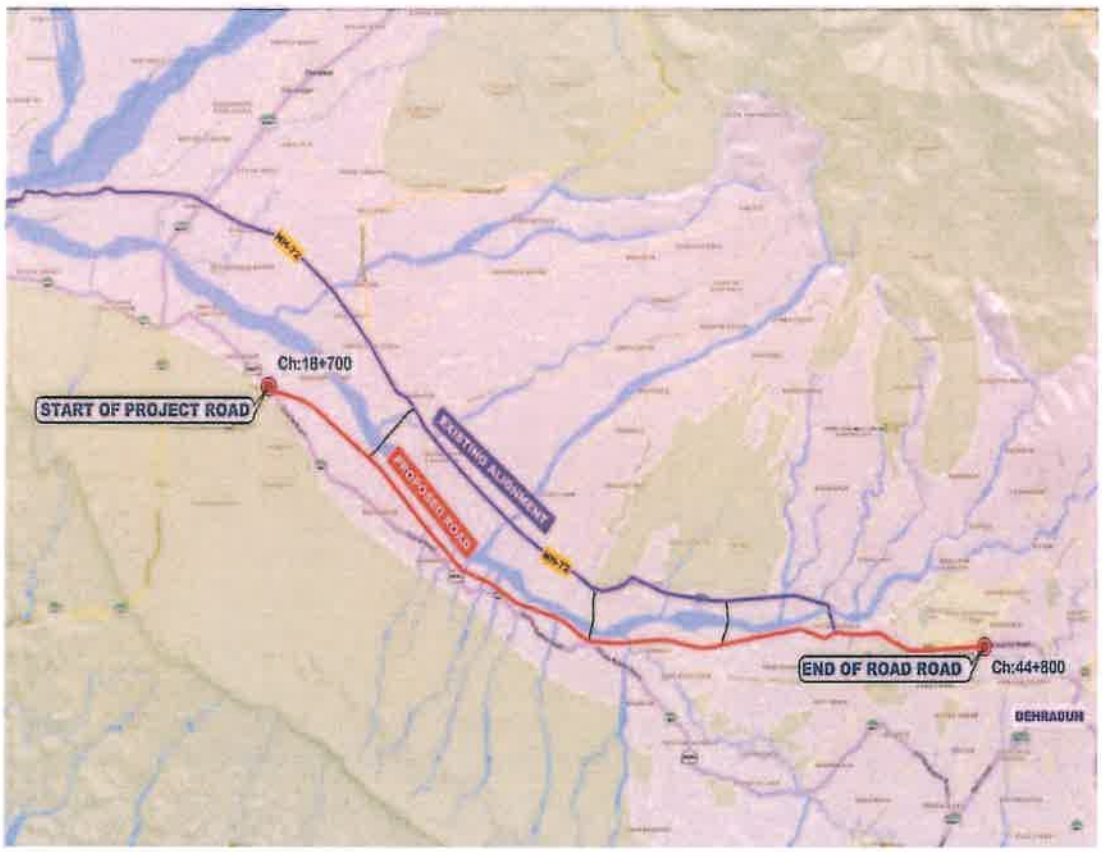
Maps Showing project Location

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		
Bid Project cost	₹ 5,16,56,00,000.00		
Updated Bid Project Cost	₹ 5,37,22,24,000.00		

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%	4.5	0.32%
	(2) Granular work (Sub-base.						
	(a) CTSB/GSB	Km	4.50	21553385.78	0.42%	4.5	0.42%
	(b) WMM	Km	4.50	41505832.80	0.80%	4.5	0.80%
	(3) Shoulders	Km	9.00	2971864.40	0.06%	9	0.06%
	(4) Bituminous Work						
	(a) DBM	Km	4.50	23207725.35	0.45%	4.5	0.45%
	(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%	39.69	14.90%
	(2) Granular work (Sub-base.						
	(a) CTSB / GSB	Km	41.56	219083230.31	4.24%	38.66	3.95%
	(b) WMM	Km	41.56	370137914.57	7.17%	29.1	5.02%
	(3) Shoulders	Km	41.56	33188279.25	0.64%		
	(4) Bituminous Work						
	(a) DBM	Km	41.56	208434264.66	4.04%	21.72	2.11%
	(b) BC	Km	41.56	226138688.23	4.38%		
	C- New Culverts, Minor Bridges,						
	1) Culverts	No.	73.00	154175319.31	2.98%	67	2.74%
	2) Minor Bridge				0.00%		
	a) Foundation	No.	19.00	267262947.46	5.17%	19	5.17%
	b) Sub-Structure	No.	19.00	233855079.03	4.53%	19	4.53%
	c) Super-Structure (including Crash	No.	19.00	167039342.17	3.23%	18	3.06%
	3) Grade seprated structures						
	i) Foundation	No.	6.00	115773880.88	2.24%	5.5	2.05%
	ii) Sub-Structure	No.	6.00	101302145.77	1.96%	5	1.63%
	iii) Super-Structure (including Crash	No.	6.00	72358675.55	1.40%	5	1.17%

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 %
	b) Overpasses				0.00%		
	i) Foundation	No.	1.00	18846910.84	0.36%		
	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%	1	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%	23989	5.62%
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%	2.32	0.11%
	HT/LT Crossings	No.	43.00	46476333.59	0.90%	43	0.90%
	Water Pipeline	Km	3.47	2704171.86	0.05%	3.47	
	Water Pipeline Crossings	No.	28.00	19547849.31	0.38%	28	
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%	13.73	1.82%
	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%	2.37	0.06%
	(b) Toe Wall / Retaining Wall	Km	17.69	241438506.52	4.67%	6.160	1.63%
	(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%		

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 %
Total					100.00%		62.57%

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%
12	January	30.27	5.86%	30.01%
13	February	29.86	5.78%	35.79%
14	March	31.30	6.06%	41.85%
15	April	11.62	2.25%	44.10%
16	MAY	23.81	4.61%	48.71%
17	June	23.87	4.62%	53.33%
18	July	9.37	1.81%	55.14%
19	August	8.37	1.62%	56.77%
20	September	15.15	2.93%	59.70%
21	October	14.83	2.87%	62.57%
TOTAL		323.212	62.57%	

* 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	25.4	0	0.7	2.68%
2		RHS	KMS	26.1	25.4	0	0.7	2.68%
3	Earthwork	LHS	KMS	26.1	23.9	1.5	0.7	2.68%
4		RHS	KMS	26.1	23.9	1.5	0.7	2.68%
5	Sub Grade	LHS	KMS	26.1	24.345	2.4	-0.64	-2.47%
6		RHS	KMS	26.1	24.345	2.4	-0.64	-2.47%
7	GSB	LHS	KMS	26.1	23.83	1.9	0.37	1.42%
8		RHS	KMS	26.1	23.83	1.9	0.37	1.42%
9	WMM	LHS	KMS	26.1	19.05	1	6.05	23.18%
10		RHS	KMS	26.1	19.05	1	6.05	23.18%
11	DBM	LHS	KMS	26.1	15.36		10.74	41.15%
12		RHS	KMS	26.1	15.36		10.74	41.15%
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	56	2	0	100.00%
2	Box culverts		Nos	15	11	0	4	73.33%
3	Minor Bridges		Nos	19	18	1	0	100.00%
4	VUP		Nos	3	2	1	0	100.00%
5	LVUP		Nos	3	3	0	0	100.00%
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%

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+080		1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
2	21+108		1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
3	21+283		1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
4	21+408	31+370	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
5	22+554		1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
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	27+770	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
10	35+575	27+068	1X4.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
11	39+070	27+400	1X6.0 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
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				11	11	11	11	11	11	11	11	11
BALANCE				4	4	4	4	4	4	4	4	4

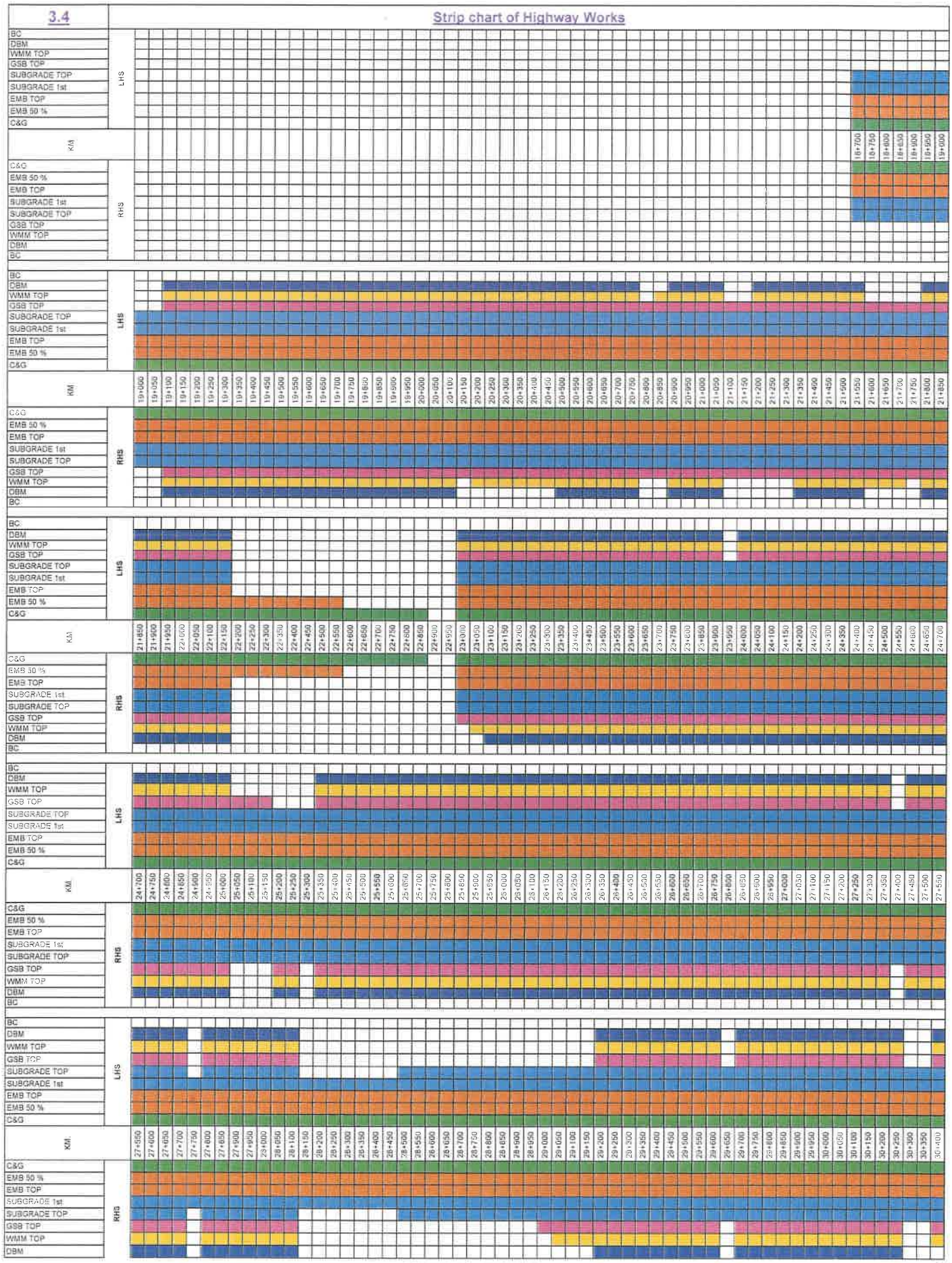
Strip chart showing the status of Hume pipe culverts														
Sr. no.	Chainage		Dia. (m)	Drawing Status		Activity Status(Both Side)								
	Schedule	Design				Excavation	GSB	PCC	Pipe Laying	Head wall PCC	Head wall 1st lift	Head wall 2nd lift	Head wall 3rd lift	Encasing
1	19+250	19+250	1.2		1	DONE		NA	DONE	DONE	DONE	DONE	DONE	DONE
2	20+205	20+205	1.2		1	DONE		NA	DONE	DONE	DONE	DONE	DONE	DONE
3	20+360	20+360	1.2		1	DONE		NA	DONE	DONE	DONE	DONE	DONE	DONE
4	20+438	20+438	1.2		1	DONE		NA	NA	DONE	DONE	DONE	DONE	DONE
5	20+468	20+468	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
6	21+945	21+945	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
7	22+083	22+080	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
8	22+160	22+160	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
9	22+214	22+214	1.2		1	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
10	22+339	22+339	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
11	22+769	22+769	1.2		1	DONE		NA	DONE	DONE	DONE	DONE	DONE	DONE
12	22+807	22+802	1.2		1	DONE		NA	DONE	DONE	DONE	DONE	DONE	DONE
13	23+201	23+197	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
14	23+414	23+440	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
15	23+566	23+565	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
16	23+932	23+932	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
17	24+147	24+145	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
18	24+511	24+507	1.2		1	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
19	24+820	24+817	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
20	24+878	24+878	1.2		1	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
21	25+150	25+150	1.2			DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
22	26+366	26+366	1.2		1	DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
23	27+243	27+237	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
24	27+358	27+358	1.2		1	DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
25	27+452	27+446	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
26	27+959	27+959	1.2		1	DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
27	28+295	19+900	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	NA
28	28+384	28+381	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
29	28+581	28+579	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
30	28+619	28+618	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
31	29+476	29+476	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
32	30+097	30+093	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
33	30+460	31+150	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
34	30+661	30+661	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE

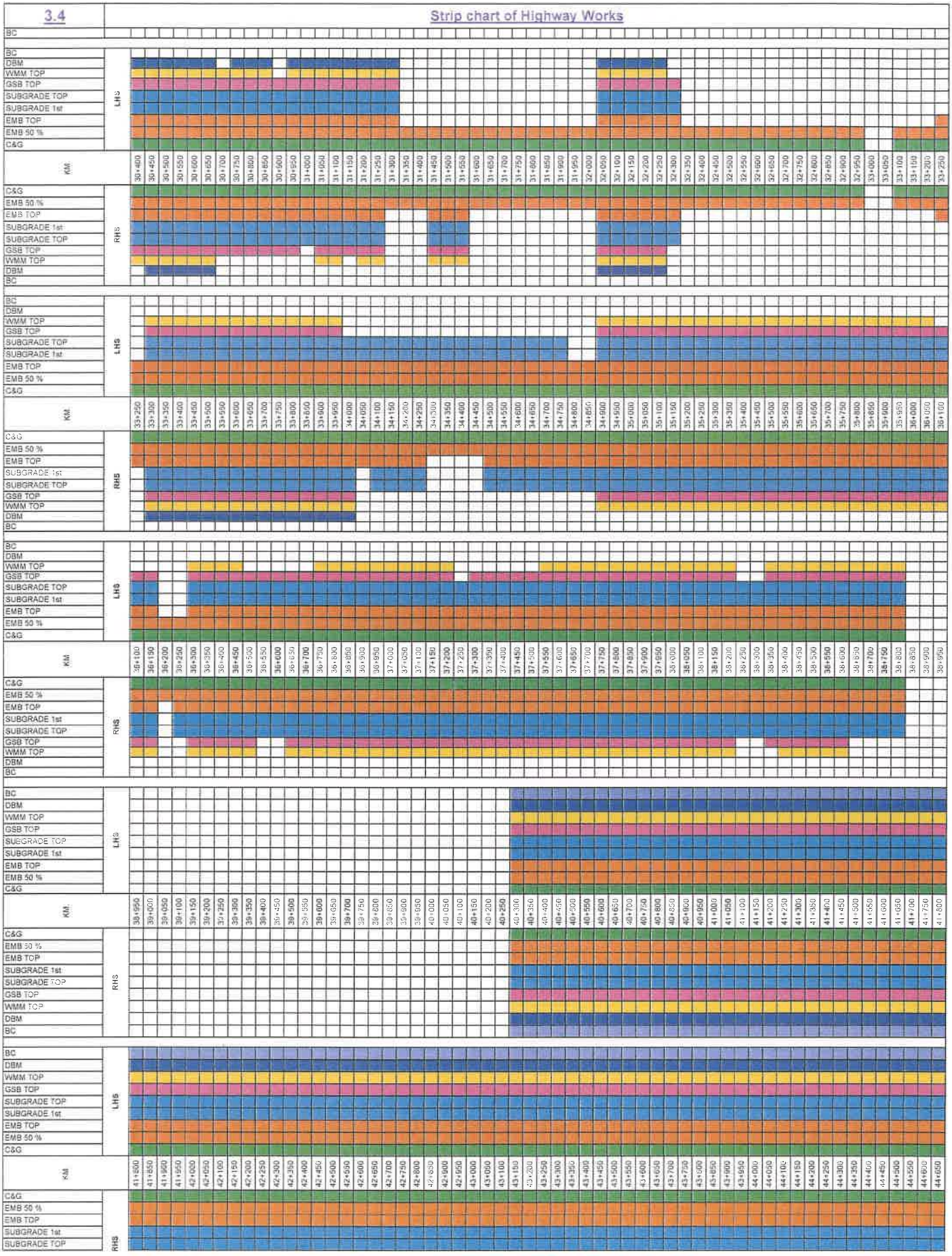
Sr. no.	Chainage		Dia. (m)	Drawing Status		Activity Status(Both Side)								
	Schedule	Design				Excavation	GSB	PCC	Pipe Laying	Head wall PCC	Head wall 1st lift	Head wall 2nd lift	Head wall 3rd lift	Encasing
35	30+838	30+838	1.2		1	DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
36	30+928	30+928	1.2		1	DONE	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE
37	31+781	31+781	1.2			WIP				WIP				
38	31+962	31+962	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	NA
39	32+059	32+059	1.2		1	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	NA
40	32+115	32+115	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
41	32+178	32+178	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
42	32+228	32+228	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
43	32+291	32+291	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
44	32+434	32+434	1.2			DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
45	33+439	33+439	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
46	33+600	33+600	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
47	34+062	34+062	1.2			DONE	NA	DONE	WIP	WIP	WIP	WIP	WIP	
48	34+352	34+352	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
49	35+153	35+153	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
50	36+577	36+577	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
51	37+014	36+990	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
52	37+460	37+460	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
53	37+540	37+585	1.2		1	DONE	NA	DONE	DONE	DONE	DONE	DONE	DONE	DONE
54	37+840	37+840	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
55	38+175	38+175	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
56	38+750	38+750	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
57	38+850	38+850	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
58	39+219	39+219	1.2		1	DONE		DONE	DONE	DONE	DONE	DONE	DONE	DONE
TOTAL SCOPE						58	10	58	58	58	58	58	58	53
WORK COMPLETED						57	10	46	55	56	56	56	56	53
BALANCE						1	0	12	3	2	2	2	2	0

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	DONE	DONE	DONE	DONE	DONE	DONE
3	20+820	20+816	2X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
4	21+610	21+610	2X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
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	DONE	DONE
7	24+090	23+974	3X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
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	DONE	DONE	DONE	DONE	DONE	DONE
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	DONE	DONE	DONE	DONE	WIP	WIP
15	28+222	28+222	5X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
16	29+174	29+171	2X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
17	29+659	29+652	2X8 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
18	30+300	30+305	5X10 M	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
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	DONE	DONE	DONE	DONE		
TOTAL SCOPE				20	20	20	20	20	20	20	20	20
WORK COMPLETED				20	20	20	20	20	20	20	18	18
BALANCE				0	0	0	0	0	0	0	2	2

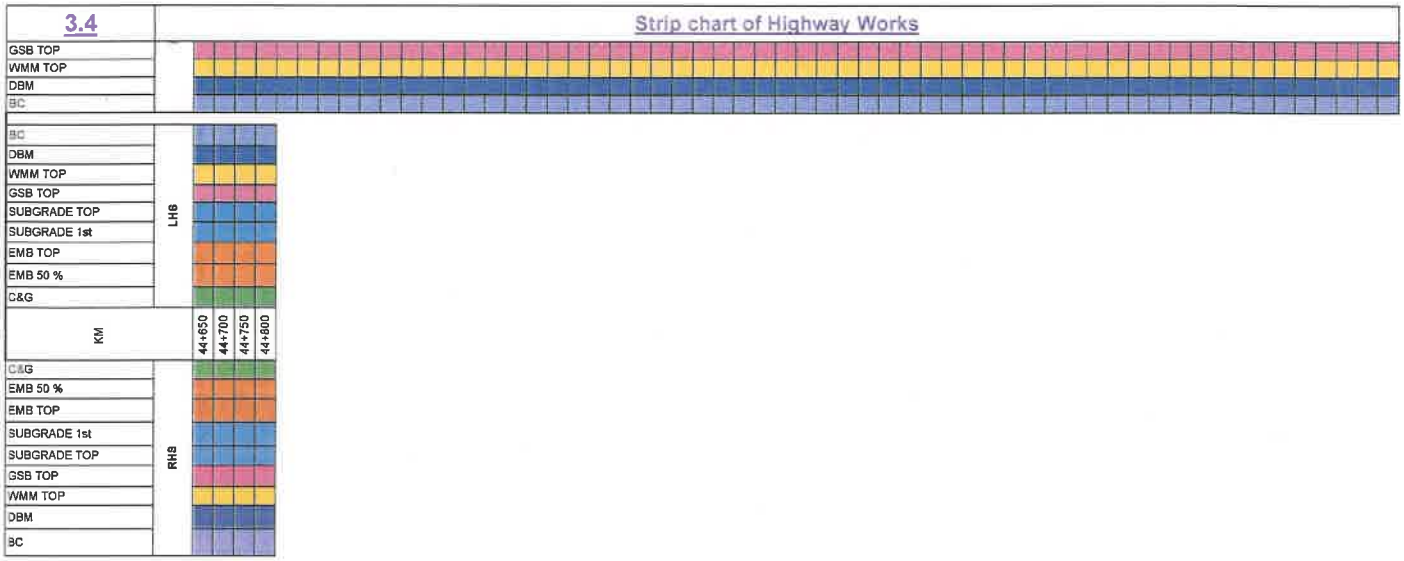
Strip chart showing the status of Grade separated structures													
Sr no.	Chainage		Length	Activity Status(BHS)									
	Schedule	Design		Excavation	PCC	Raft	Bottom Haunch	Wall 1st Lift	Wall 2nd Lift	Wall 3rd Lift	Top Haunch	Slab
1	22+598	22+596	70	DONE	DONE	DONE	DONE	DONE	DONE	DONE		
2	28+285	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	DONE	DONE	DONE
5	39+493	39+500	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE	DONE
6	39+740	39+720	16									
7	40+063	40+042	72.5	WIP	WIP	WIP		WIP				
TOTAL SCOPE				7	7	7	7	7	7	7	7	7
WORK COMPLETED				5	5	5	5	5	5	5	4	4
BALANCE				2	2	2	2	2	2	2	3	3

Strip chart of Highway Works




3.4
Strip chart of Highway Works
BC
DBM
WMM TOP
GSB TOP
SUBGRADE TOP
SUBGRADE 1st
EMB TOP
EMB 50 %
C&G
LHS
RHS
KM

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	

3.6 Change of scope

1.0 During site inspection of RO-Uttarakhand on dated-05.12.2023 it was sugeested to provide underpasses where BT road was crossing at two locations and it was suggested to prepare cos proposal and submit it for review

2.0 The concessionaire has submitted the cos proposal on dated-08.12.2023 as per instruction of authority to submit the cos proposal with in 07 days after inspection of RO-Uttarakhand

3.0 After reviewing the cos prposal IE raised some observation and concessionaire resubmit after compliances ,Further the IE has submitted to comprehensive COS proposal to the authority for necessary action ahead on dated-21.02.2024

4.0 The IN-principle approval is obtained from NHAI HQ on dated-09.05.2024

5.0 The discount @27.36 % is imposed on SOR rates which is not acceptable to the concessionaire

6.0 Final COS is approved on dated-09.08.2024

3.7 Extension of time

1.0	The concessionaire has submitted the proposal for time extension of 139 days on dated-06.11.2023
2.0	Further IE raised some observation in submitted prposal and comliances is done by the concessionaire and after it IE has submitted the Prposal of interim EOT (88 Days) to Authority on dated-23.12.2023
3.0	In continuation of above a letter is received from authority and advised to submit full and final extension of time if deemed necessary , at a later stage. As II milestone has been achieved with in time

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			1	1	0	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	1	0	0
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			1	1	0	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						**14**	**14**	**1**	**0**
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

Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
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
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

Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
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
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									

Sr no	Schedule Chainage	Design Chainage	Size	GAD	RD	Submitted	Approved	Pending for submission	Pending for approval
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	1	0	0
Total of GSS						**7**	**7**	**0**	**0**

Critical issues and hindrance

5.1 Hindrance in the work

Sr.No	Location		Remarks
	From	To	
1	31+280	31+300	Non payment issues
2	31+400	31+480	Non payment issues
3	31+770	31+850	Non payment issues
4	33+650	33+680	Non payment issues
5	34+040	34+350	Non payment issues
6	34+520	34+770	Non payment issues
7	39+000	39+120	Non payment issues
8	40+100	40+350	Non payment issues
Total in Metre			

5.2 list of issues

Ch. 31280 to 31300 RHS , Drain & Service Road Work

Ch. 31400 to 31480 RHS , Drain & Service Road Work

Ch. 31770 to 31850 BHS, Highway Work

Ch. 33650 to 33680 LHS, Drain & Service Road Work

Ch. 34040 to 34350 BHS, Highway Work

Ch. 34520 to 34770 LHS, MCW & Service Road Work

Ch. 39000 to 39120 BHS, Highway Work

Ch. 40100 to 40350 LHS , Highway Work

Ch. 40100 to 40350 LHS , Highway Work

5.3	Procurement of the site

As per Clause No. 10.3.1

On and after signing the memorandum referred in Clause 10.3.1, and until the Transfer Date, the Concessionaire shall maintain a round the clock vigil over the site and shall ensure and procure that no encroachment thereon takes place, and in the event of any encroachment or occupation on any part thereof, the Concessionaire shall report such encroachment or occupation forthwith to the Authority and undertake its removal at its cost and expenses.

It is pertinent to state that since October 2023 till date, in spite of Concessionaire's & Authority's repeated instructions GAIL Gas Limited executing the pipeline works, which is illegal under the afore mentioned Contract provisions.
Till date, owing to your illegal execution of works, the Concessionaire has suffered damages/ extra works to the tune of INR 2.25 Crores.

Mobilization Status

6.1 List of personnel deployment

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

Sr No	Departement	Name	Designation
30	Highway	Avanish Rai	Sr.Engineer
31		Rahul Kr.Mishra	Sr.Engineer
32		Jai Vardhan Tiwari	Engineer
33		Irfan Ansari	Engineer
34		Gajendra Singh	Engineer
35		Debjyoti Kundu	Engineer
36		Nishant Kumar Singh	Jr. Engineer
37		Naveen Shah	Jr. Engineer
38		Shailendra Singh Bhadoriya	Foreman
39		Bijendra Kumar Singh	Supervisor
40		Yogendra Singh	Supervisor
41		Vishnu Singh	Jr.Engineer
42		Rahul Singh	Supervisor
43		Avad Kishor Jadon	Supervisor
44		Satendra Singh	Supervisor
45		Aman Singh	Supervisor
46		Kuldeep Singh	Supervisor
47		Prashant Singh	Supervisor
48		Bharat Kumar	Supervisor
49		Sujeet Kumar	Supervisor RE Wall
50		Arjun Singh Jadoun	Supervisor RE Wall
51		Rohit Kumar Singh	Supervisor
52	Mechanical	Girish Yadav	Project Coordinator
53		Pankaj Sharma	Engineer
54		Manish Singh Theiya	Senior Foreman
55		Ajeet Kumar Sharma	SAP Executive
56		Nanak Chand	Supervisor
57		Sunil Kumar	Supervisor
58		Himanshu	Supervisor
59		Dharmendra Kumar	Supervisor
60		Satish Yadav	Supervisor
61		Banti	Supervisor
62	HR	Ashutosh Upadhyay	Asst. Manager
63		Roshan Kumar	Executive
64		Patel Kundan Kumar	Executive
65	Liaison	Ravi Shankar	Manager
66	Account	Hariom Shrivastav	Executive
67		Patel Pratik Kumar	Jr.Executive
68	IT	Praveen Singh	Executive
69	SAFETY	Shubham Pandey	Executive
70		Satyadhar Singh	Manager
71		Sawan Sharma	Asst.Manager

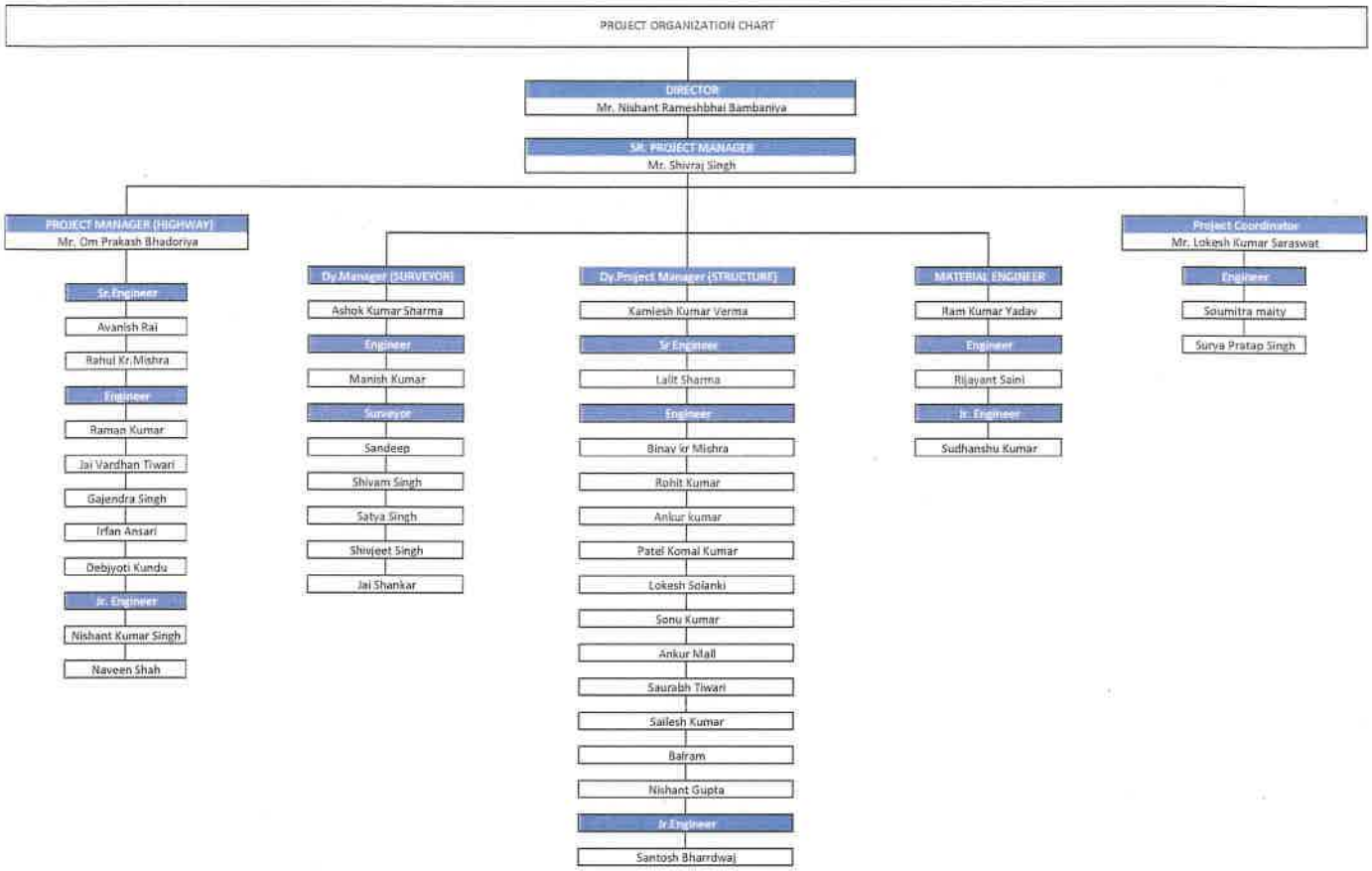
Sr No	Departement	Name	Designation
72	Store	Balmukund Singh	Executive
73		Vipul Sharma	Jr. Executive
74		Sonu Kumar	Executive
75		Priyanshu Yadav	Supervisor
76		Bhaskar Kumar	Crusher Supervisor
77		Aakash Kumar	W/B Operator
78		Shubham Mishra	W/B Operator
79		Parmeshwar	W/B Operator
80		Ambrish Singh	W/B Operator
81		Rahul Kumar	W/B Operator
82	QA/QC Technician & Helper	Udayveer Singh	Sr.Lab Technician
83		Sandeep Kumar	Lab Technician
84		Ramnivash Dhakad	Lab Technician
85		Ravi Prakash Singh	Lab Technician
86		Aditya Dhakar	Lab Technician
87		Santosh Baghel	Lab Technician
88		Arun Dhakad	Lab Technician
89		Raj Kumar	Lab Technician
90		Vishal Singh Rana	Lab Helper
91		Rohit Kumar	Lab Helper
92		Amit Kestwal	Lab Helper
93		Viranshu	Lab Helper
94		Manvendra Singh	Lab Helper
95		Sandeep Napit	Lab Helper
96		Chandan Kumar	Lab Helper
97		Suneel kumar	Lab Helper
98		Sandeep jaiswal	Lab Helper
99		Sanjay Kumar	LMV Driver
100		Kuldeep Yadav	LMV Driver
101		Soban Singh	LMV Driver
102		Pradeep	LMV Driver
103		Uttam Singh	LMV Driver
104		Raja Ram	LMV Driver
105		Govind Yadav	LMV Driver
106		Awanish Yadav	LMV Driver
107		Dalendra Singh	LMV Driver
108		Parvej Khan	LMV Driver
109		Jagalal kol	LMV Driver
110		Ramesh Singh	LMV Driver
111		Om Kumar	HMV Driver
112		Ashok Kumar	HMV Driver
113		Samarpal	HMV Driver

Sr No	Departement	Name	Designation
114		Gorelal Kol	HMV Driver
115		Narsingh Shukla	HMV Driver
116		Mahipal	HMV Driver
117		Rajesh Yadav	HMV Driver
118		kuldeep Singh	HMV Driver
119		Devendra Singh	HMV Driver
120		Shiv Singh	HMV Driver
121		Shankar Singh	HMV Driver
122		Shahadat Ali	HMV Driver
123		Sandeep Kumar	HMV Driver
124		Shebendra Singh	HMV Driver
125		Hitendra	HMV Driver
126		Savan Baral	HMV Driver
127		Ramlakhan Prajapati	HMV Driver
128		Sukhlal kol	HMV Driver
129		Mo. Shabbeer Khan	HMV Driver
130		Mohd Jamiruddin	HMV Driver
131		Rajesh Kori	HMV Driver
132		Rajiv kumar Kori	HMV Driver
133		Ajay Prakash Kori	HMV Driver
134		Pradeep kori	HMV Driver
135		Brijesh kori	HMV Driver
136		Puneet kumar pandey	HMV Driver
137		Sanjeet Paswan	HMV Driver
138		Arabind Kori	HMV Driver
139		Sunil Kori	HMV Driver
140		Ankit	HMV Driver
141		Pradeep Kumar	HMV Driver
142		Raghuveer	HMV Driver
143		VIMLESH KUMAR YADAV	HMV Driver
144		VIRESH KUMAR	HMV Driver
145		Vinay Kori	HMV Driver
146		Natwar Singh	HMV Driver
147		Vinod Tevatiya	HMV Driver
148		Naresh Singh	HMV Driver
149		Sandip Kumar	HMV Driver
150		Ramesh Gautam	HMV Driver
151		Keshav Singh	HMV Driver
152		Girvar Singh	HMV Driver

Sr No	Departement	Name	Designation
153		Deepak Singh	HMV Driver
154		Vikas	HMV Driver
155		Ravindra Singh Kandari	HMV Driver
156		Ranjeet Yadav	HMV Driver
157		Pradeep Singh	HMV Driver
158		Ram Subhash	HMV Driver
159		Asharam	TM Driver
160		Padam Singh	TM Driver
161		Lalit Singh	TM Driver
162		Sandeep Singh	TM Driver
163		Sanjay Paswan	TM Driver
164		Amresh Singh	TM Driver
165		Baleshwar Prasad Tiwari	TM Driver
166		Gabbar Singh	TM Driver
167		Shobhit Juyal	TM Driver
168		Ashok Kumar Kori	TM Driver
169		Suresh kumar Kori	TM Driver
170		Rampati Kori	TM Driver
171		Dharmendra Singh	TM Driver
172		Vishnu Yadav	Boom Placer opt
173		Raj kumar	Boom Placer opt
174		Virender Kumar Patel	Excavator Operator
175		Ramesh Kumar	Excavator Operator
176		Sham Singh	Excavator Operator
177		Ajay Kumar Patel	Excavator Operator
178		Jagdish Singh	Excavator Operator
179		Ramesh Kumar Kori	Excavator Operator
180		Dharmraj Tiwari	Excavator Operator
181		Premlal Kori	Excavator Operator
182		Manish Kumar	Excavator Operator
183	Other	Sunil Kumar Rawat	Grader Operator
184		Puneet Kumar	Grader Operator
185		Deepak Kumar	Grader Operator
186		Anil Kumar Patel	Grader Operator
187		Kuldip Singh	Grader Operator
188		Vinod Shah	Grader Operator
189		Vikash Babu	Roller opt
190		Shiromani Singh	Roller opt

Sr No	Departement	Name	Designation
191		Anuraj Patel	Roller opt
192		Sharwan Kumar Pal	Tandom Operator
193		Chhohan kori	Roller opt
194		CHANDRA PAL SINGH	ROLLER OPERATOR
195		ISHPAL SINGH	TANDEM ROLLER OPERATOR
196		Govind	Tandom Operator
197		Dhanraj Prasad	JCB Operator
198		Keshwar Bhagat	JCB Operator
199		Raj Bahor Kori	JCB Operator
200		Om Prakash Pandit	Wheel Loader Opt
201		Raj kumar	Wheel Loader Opt
202		Sukhwinder Singh	Wheel Loader Opt
203		Parveen Kumar	Wheel Loader Opt
204		Babloo Kushwaha	Wheel Loader Opt
205		Vijendra Chauhan	Wheel Loader Opt
206		Pankaj	Wheel Loader Opt
207		Chandan Kumar	Paver Operator
208		Laltesh Kumar	Paver Operator
209		Vishal	Screed Operator
210		Rambhadur	Screed Operator
211		Devendra Dwivedi	PTR Operator
212		Pappu	Electrician
213		Premjeet Pandit	Electrician
214		Vinod kr. Gupta	Auto Electrician
215		Sudhir Singh	Auto Electrician
216		Rishikesh	Mechanic
217		Mr. Injar Khan	Mechanic
218		Sanju	Hydra Operator
219		Dharmendra Kumar	Hydra Operator
220		Vishwajeet Kumar Singh	RMC Plant Operator
221		Ankit Kumar	RMC Plant Operator
222		Puspendra	WMM Plant Operator
223		Bablu	WMM Plant Operator
224		Chhotu Bhadauriya	Tyre Fitter
225		Manish Kumar Vishwakarma	Asst.Tyre Fitter
226		Aman	Tyre Fitter
227		Sumit Vishwakarma	Tyre Fitter
228		Irfan Khan	Kamani Fitter

Sr No	Departement	Name	Designation
229		Brijesh Gupta	Welder
230		Sunil Kumar Chauhan	Welder
231		Pintu Kumar	Power Screen Operator
232		Arjun	RMC Plant Helper
233		Jabir	Plumber
234		Ankit Kumar	Plant Helper
235		Chandan Kumar	Workshop Helper
236		Rahul	Plant Helper
237		Sanjay	Plant Helper
238		Vishwakarma Kumar Mahto	Mech. Workshop Helper
239		Deepak Kumar	WMM Plant Helper
240		Arvind Kumar	WMM Plant Helper
241		Vipin Kumar Rawat	Browser Helper
242		Mhaveer Singh	Workshop Helper
243		Santosh Kumar	Helper
244		Pawan Sharma	Helper
245		Subhash kumar Bhagat	Workshop Helper
246		Rajlal Maurya	Workshop Helper
247		Satyam Sen	Paver Helper
248		Ayush Sen	Paver Helper
249		Jay Prakash Pal	Paver Helper
250		AMIT VISHWAKARMA	Workshop Helper
251		Roshan Kumar	Plant Helper
252		Vishal Singh Rana	Lab Helper
253		Amit Kestwal	Lab Helper
254		Viranshu	Lab Helper
255		Manvendra Singh	Lab Helper
256		Suneel kumar	Lab Helper
257		Sandeep jaiswal	Lab Helper
258		Nitin Kumar	Office Boy
259		Subash Kumar	Helper
260		Shivam	Sweeper
261		Sanjay Kumar	Sweeper
262		Amit Kumar	Office Boy
263		Durgesh	Survey Helper
264		Vinit Kumar	Survey Helper
265		Sumit	Survey Helper
266		Sukhbeer Kumar Sen	Survey Helper


PROJECT ORGANIZATION CHART
DIRECTOR
Mr. Nishant Rameshbhai Bambaniya
SR. PROJECT MANAGER
Mr. Shivraj Singh
PROJECT MANAGER (HIGHWAY)
Mr. Om Prakash Bhadoriya
Sr.Engineer
Avanish Rai
Rahul Kr.Mishra
Engineer
Raman Kumar
Jai Vardhan Tiwari
Gajendra Singh
Irfan Ansari
Debjyoti Kundu
Jr. Engineer
Nishant Kumar Singh
Naveen Shah
Dy.Manager (SURVEYOR)
Ashok Kumar Sharma
Engineer
Manish Kumar
Surveyor
Sandeep
Shivam Singh
Satya Singh
Shivjeet Singh
Jai Shankar
Dy.Project Manager (STRUCTURE)
Kamlesh Kumar Verma
Sr.Engineer
Lalit Sharma
Engineer
Binay Kr Mishra
Rohit Kumar
Ankur kumar
Patel Komal Kumar
Lokesh Solanki
Sonu Kumar
Ankur Mall
Saurabh Tiwari
Sailesh Kumar
Balram
Nishant Gupta
Jr.Engineer
Santosh Bharrdwaj
MATERIAL ENGINEER
Ram Kumar Yadav
Engineer
Rijayant Saini
Jr. Engineer
Sudhanshu Kumar
Project Coordinator
Mr. Lokesh Kumar Saraswat
Engineer
Soumitra maity
Surya Pratap Singh

6.2 Mobilization of plants & machinery

Sr. No	Item Description	Unit	Nos
1	Hydraulic Excavator (20 Ton)	Nos.	9
2	Dumpers (25 Ton)	Nos.	30
3	Backhoe Loader	Nos.	5
4	Wheel Loader	Nos.	4
5	Motor Grader	Nos.	4
6	Crane /Hydra	Nos.	1
7	Baby Roller	Nos.	1
8	Soil Compactor	Nos.	5
9	Tandam Roller	Nos.	3
10	Transit Mixers	Nos.	9
11	Water Tanker	Nos.	8
12	Trailer	Nos.	1
13	Weigh Bridge	Nos.	2
14	Utility Vehicles	Nos.	6
15	Track Mounted Jaw Crusher 250 TPH	Nos.	2
16	Track Mounted Cone Crusher 250 TPH	Nos.	2
17	Track Mounted Screen Crusher 250 TPH	Nos.	1
18	Concrete Batching Plant (45 Cum)	Nos.	2
19	Venus Mobile Concrete Batching Plant (18 Cum)	Nos.	1
20	Bitumen Browser 8KI	Nos.	1
21	WMM Plant	Nos.	1

6.2 Mobilization of plants & machinery

Sr. No	Item Description	Unit	Nos
22	HM Plant	Nos.	1
23	Screening Plant	Nos.	1
24	RE Block Plant	Nos.	1
25	DG Sets	Nos.	11
26	Diesel Tanker	Nos.	3
27	Bike	Nos.	7
28	LMV	Nos.	8
29	Boom Placer	Nos.	1
30	Silo 150 MT	Nos.	4
31	Concrete Bucket (0.5 cum)	Nos.	1
32	Tractor with Trolly	Nos.	5
33	Tractor Tanker 4KL	Nos.	2
34	Mud Pump 25HP	Nos.	6
35	Fork Lift	Nos.	1
36	Tower Light	Nos.	2
37	Air Compressor	Nos.	1
38	Mechanical Broomer with Air Compressor	Nos.	1
39	WMM Paver	Nos.	2
40	DBM Paver	Nos.	1
		Total	**157**

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	
69	Filter Paper, 100 mm dia (Packet) & 150mm dia (packet)	10	
C. IS Sieves for Soil,GSB,WMM,DBM,BC,cement,Fly ash,Filter media etc.,			
	Brass Sieve 200 mm Dia		

Sr no	Description	Nos	Remarks
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	
115	Hydrometer (0.8 to 0.9)	3	
116	Rain gauge -	1	
117	Digital Thermometer (0 to 250° C) - Pen type	5	

Sr no	Description	Nos	Remarks
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	
164	M. Cylinder 500 ML Glass	4	
165	M. Cylinder 1000 ML Glass	2	

Sr no	Description	Nos	Remarks
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	Borosil	4	
189	Brealcing Head	2	
190	Glass Funnel	4	
191	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: Conducted	Pass	Fail	No. of Test conducted During Month: Conducted	Pass	Fail	No. of Test conducted up to this months: Conducted	Pass	Fail	No. of Test conducted by Independent Engineer: During month	Upto last month	To date	Remarks
A	OGL																
i)	Grain Size Analysis	2 tests for 3000 cum of soil	IS 2720 Part-4	0	80	80	0	0	0	0	80	80	0	0	21	21	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cum of soil	IS 2720 Part-5	0	80	80	0	0	0	0	80	80	0	0	21	21	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cum of soil	IS 2720 Part-8	0	80	80	0	0	0	0	80	80	0	0	21	21	
iv)	Free Swell Index (FSI)	2 tests for 3000 cum of soil	IS 2720 Part-40	0	80	80	0	0	0	0	80	80	0	0	21	21	
v)	CBR Test	1 test for 3000 m	AASHTO T 193	0	43	43	0	0	0	0	43	43	0	0	[illegible]	[illegible]	
B	Borrow Area																
i)	Grain Size Analysis	2 tests for 3000 cum of soil	IS 2720 Part-4	0	1030	1030	0	0	0	0	1030	1030	0	0	342	342	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cum of soil	IS 2720 Part-5	0	1030	1030	0	0	0	0	1030	1030	0	0	342	342	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cum of soil	IS 2720 Part-8	0	1030	1030	0	0	0	0	1030	1030	0	0	342	342	
iv)	Free Swell Index (FSI)	2 tests for 3000 cum of soil	IS 2720 Part-40	0	1030	1030	0	0	0	0	1030	1030	0	0	342	342	
v)	CBR Test for SG	1 test for 3000 m	AASHTO T 193	0	500	500	0	0	0	0	500	500	0	0	[illegible]	115	
C	Cutting Soil for Emb/Subgrade																
i)	Grain Size Analysis	2 tests for 3000 cum of soil	IS 2720 Part-4	0	204	204	0	0	0	0	204	204	0	0	[illegible]	[illegible]	
ii)	Atterberg Limits (LL & PL)	2 tests for 3000 cum of soil	IS 2720 Part-5	0	204	204	0	0	0	0	204	204	0	0	[illegible]	[illegible]	
iii)	Proctor Test(MDD & OMC)	2 tests for 3000 cum of soil	IS 2720 Part-8	0	204	204	0	0	0	0	204	204	0	0	[illegible]	[illegible]	
iv)	Free Swell Index (FSI)	2 tests for 3000 cum of soil	IS 2720 Part-40	0	204	204	0	0	0	0	204	204	0	0	[illegible]	[illegible]	
vi)	CBR Test for SG	1 test for 3000 m	AASHTO T 193	0	100	100	0	0	0	0	100	100	0	0	[illegible]	[illegible]	
D	Field Compaction Test(FDD)																
i)	Compaction Test for OGL (m²)	1 test/5000 sqm	IS 2720 Part-28	0	1652	1501	151	0	0	0	1652	1501	151	0	[illegible]	[illegible]	
ii)	Compaction Control for Embankment	1 test/3000 sqm	IS 2720 Part-28	19	23071	21667	1404	19	19	0	23090	21686	1404	[illegible]	[illegible]	[illegible]	
iii)	Compaction Control for Sub Grade	1 Test/2000 sqm	IS 2720 Part-28	80	6606	6287	319	80	73	7	6686	6360	326	[illegible]	[illegible]	[illegible]	
iv)	Compaction Control for GSB	1 test/1000 sqm		27	1246	1167	79	27	23	4	1273	1190	83	[illegible]	[illegible]	[illegible]	
v)	Compaction Control for WMM	1 test/1000 sqm		53	586	513	73	53	44	9	639	557	82	[illegible]	[illegible]	[illegible]	
vi)	Compaction Control for RE Wall			226	1518	1438	80	226	203	23	1744	1641	103	[illegible]	[illegible]	[illegible]	
E	For Granular Subbase (m^3)																
i)	Gradation	One test per 400 cum	IS 2386 Part-1	6	313	313	0	6	6	0	319	319	0	[illegible]	[illegible]	[illegible]	
ii)	Atterberg Limits (LL & PL)	One test per 400 cum	IS 2720 Part-5	6	313	313	0	6	6	0	319	319	0	[illegible]	[illegible]	[illegible]	
iii)	Proctor Test(MDD & OMC)	As Required	IS 2720 Part-8	0	35	35	0	0	0	0	35	35	0	0	11	11	
iv)	CBR Test in soaked condition	As Required	IS 2720 Part-16	0	3	3	0	0	0	0	3	3	0	0	[illegible]	[illegible]	
v)	Water Absorption	As required	IS 2386 Part-3	0	1	1	0	0	0	0	1	1	0	0	1	1	
vi)	Ten percent Fines Value	Source Approval/when required	IS 2386 Part-4	0	0	0	0	0	0	0	0	0	0	0	[illegible]	[illegible]	
F	For Wet mix Macadam (m^3)																
i)	Gradation	One test per 200 cum of aggregate	IS 2386 Part-1	12	175	169	6	12	12	0	187	181	6	[illegible]	[illegible]	[illegible]	
ii)	Atterberg Limits (LL & PL)	One test per 200 cum of aggregate	IS 2720 Part-5	12	175	175	0	12	12	0	187	187	0	[illegible]	[illegible]	[illegible]	
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 cum of aggregate	IS 2386 Part-4	3	35	35	0	3	3	0	38	38	0	[illegible]	[illegible]	[illegible]	
v)	FI & EI	One set of three tests per 500 Cum	IS 2386 Part-1	5	65	65	0	5	5	0	70	70	0	[illegible]	[illegible]	[illegible]	
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	[illegible]	
G	For Prime Coat / Tack Coat																
i)	Quality of Binder	Number of samples per lot and tests as per IS73, IS217 and IS8887 as applicable		0	18	18	0	0	0	0	18	18	0	0	[illegible]	[illegible]	
ii)	Binder temperature for application	At regular close intervals		0	0	0	0	0	0	0	0	0	0	0	[illegible]	[illegible]	
iii)	Rate of Spread of Binder/ Prime coat (m²)	Three tests per day	IRC SP 11	0	103	103	0	0	0	0	103	103	0	0	41	41	
iv)	Rate of Spread of Binder/ Tack coat (m²)	Three tests per day	IRC SP 11	0	103	103	0	0	0	0	103	103	0	0	41	41	
H	Bitumen(VG)																
i)	Penetration Test (Lot)	Each lot 1 test	IS 1203	15	40	40	0	15	15	0	55	55	0	[illegible]	[illegible]	[illegible]	
ii)	Softening Point (Lot)	Each lot 1 test	IS 1205	15	40	40	0	15	15	0	55	55	0	[illegible]	[illegible]	[illegible]	
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	0	3	3	0	0	0	0	3	3	0	0	[illegible]	[illegible]	
ii)	Softening Point (Lot)	Each lot 1 test	IS 1205	0	3	3	0	0	0	0	3	3	0	0	[illegible]	[illegible]	
J	Bituminous Macadam (m^3)																
i)	Quality of binder	Number of samples per lot and tests as per IS73, IS217 and IS8887 as applicable	IS73, IS217 & 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 cum 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 cum 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	AASHTO T 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 500 cum 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	

Sl.No	Type of Test	Frequency	Test method	Nos 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 the Contractor/ Engineer			Remarks
					Conducted	Pass	Fail	Conducted	Pass	Fail	Conducted	Pass	Fail	During month	Upto last month	To date	
vi)	Control of temperature of binder and aggregate at mix and at the time of at the time of laying and rolling	At regular intervals															
vii)	Density of Compacted Layer	One test per 500 sq.m area	AASHTO T 166														
viii)	Rate of spread of Mixed Material	At regular intervals															
viii)	Slip Coating (dry)	Each 400 tonnes of mix	MoRT&H T4														
X	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:6482 as applicable														
ii)	Aggregate Impact Value/Los Angles Abrasion Value	One test per 350 cum of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part IV														
iii)	Combined Flakiness and Elongation Index	One test per 350 cum of aggregate for each source and whenever there is change in the quality of aggregate	IS 2386 Part I														
iv)	Soundness test (Sodium or Magnesium Sulphate test)	One test for each source and when ever there is change in the quality of aggregate	IS 2386 Part V														
v)	Water absorption of Aggregate	One test for each source and whenever there is change in the quality of aggregate	IS 2386 Part III														
vi)	Sand equivalent test	One test for each source and whenever there is change in the quality of aggregate															
vii)	Plasticity Index	One test for each source and whenever there is change in the quality of aggregate															
viii)	Polished stone value	One test for each source and whenever there is change in the quality of aggregate	IS:2386 Part IV														
ix)	Percentage of fractured face	One test per 350 cum of aggregate when crushed gravel is used															
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															
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	AASHTO T 245														
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	AASHTO 283														
xiii)	Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction	At regular intervals															
xiv)	Binder Content	One set for each 400 tonnes of mix subject to minimum of two tests per day per plant	ASTM D 2172														
xv)	Rate of spread of mix material	After every 5th truck load															
xvi)	Density of Compacted Layer	One test per 700 sq.m area	AASHTO T 166														
xvii)	Stripping Value of Aggregate	Source Approval/when required	IS 6241														
xviii)	with sodium sulphate	Source Approval/when required	-														
xix)	with magnesium sulphate	Source Approval/when required	-														
xx)	SG/Water absorption of Aggregate	Source Approval/when required	IS 2386 Part-3														
xxi)	Mix Grading (dry)	Each 400 tonnes of mix	MoRT&H T10														
xxii)	Stability of mix	Each 400 tonnes of mix	ASTM D 1559														
XI	Dry Lean Concrete (DLC)																
	Gradation of Aggregate (Individual /Combined)	1 Test/Day	IS: 2386, Part 1														
	Deleterious Constituents	1 Test/Fortnight	IS: 2386, Part 2														
	Field Compaction Test (By Sand Replacement Method)	3 density holes/200sqm	IS: 2720, Part 28														
XI	Pavement Quality Concrete (PQC)																
	Gradation of Aggregate (Individual /Combined)	1 Test/Day	IS: 2386, Part 1														
	Deleterious Constituents	1 Test/Fortnight	IS: 2386, Part 2														
	Water Absorption	1 Test/Fortnight	IS: 2386, Part 3														
	Modulus of Rupture	1 Test/Day	IS: 2386, Part 5														

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 upto 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	
	Los Angeles Abrasion Test	1 Test/Source	IS 2386 Part 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Combined Flakiness & Elongation	1 Test/Week	IS 2386 Part 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Sand Equivalent Test	1 Test/Source	IS 2720 Part 37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Soundness of aggregates	1 Test/Source	IS 2386 Part 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Compressive Strength of Concrete	2 cubes and 2 beams per 150 cum. or part of or minimum 6 cubes an 6 beams (3 for 7 days & 3 for 28 days)	IS 516	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Flexural Strength		IS 516	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Core Strength	As Required	IS 516	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Workability of Concrete	One test for each load at Site; Batching plant site and paving site	IS 1199	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
O	**Structural Concrete Work (M^3)**																
I	Cement															[illegible]	
II	Consistency	for Every Batch/Lot	IS 4301 Part-4	[illegible]	119	119	0	4	4	[illegible]	123	123	[illegible]	[illegible]	[illegible]	[illegible]	
III	Initial setting time & final setting time	for Every Batch/Lot	IS 4301 Part-5	[illegible]	119	119	0	[illegible]	[illegible]	[illegible]	123	123	[illegible]	[illegible]	[illegible]	[illegible]	
IIII	Fineness	for Every Batch/Lot	IS 4301 Part-1	[illegible]	119	119	[illegible]	4	4	[illegible]	123	123	[illegible]	[illegible]	[illegible]	[illegible]	
Iv)	Compressive strength (3 Days)	for Every Batch/Lot	IS 4301 Part-6	0	104	104	0	4	4	[illegible]	108	108	[illegible]	[illegible]	[illegible]	[illegible]	
vi)	Compressive strength (7 Days)	for Every Batch/Lot	IS 4301 Part-6	[illegible]	107	107	[illegible]	4	4	[illegible]	111	111	[illegible]	[illegible]	[illegible]	[illegible]	
vii)	Compressive strength (28 Days)	for Every Batch/Lot	IS 4301 Part-6	[illegible]	94	94	0	4	4	0	98	98	[illegible]	[illegible]	[illegible]	[illegible]	
2	Water	Source Approval/when required	IS 456	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
3	Steel Reinforcement	Source Approval/when required	IS	0	10	10	0	0	0	0	10	10	0	[illegible]	4	4	
4	Admixture	Source Approval/when required	IS	[illegible]	1	1	[illegible]	0	[illegible]	[illegible]	1	1	[illegible]	[illegible]	[illegible]	[illegible]	
5	**Coarse & Fine Aggregates:**																
II	Gradation Test for Coarse Aggregate	1 Test / day	IS 383	30	484	484	[illegible]	30	30	0	514	514	[illegible]	[illegible]	[illegible]	[illegible]	
III	Gradation Test for Fine Aggregate	1 Test / day	IS 383	30	435	435	[illegible]	30	30	[illegible]	465	465	[illegible]	[illegible]	[illegible]	[illegible]	
IIII	Flakiness Index	1 Test / week	IS 2386 Part-1	4	73	73	[illegible]	4	4	[illegible]	77	77	[illegible]	[illegible]	[illegible]	[illegible]	
Iv)	Aggregate Impact Value/Los Angles Abrasion Value	1 Test / week	IS 2386 Part-4	4	73	73	[illegible]	4	4	0	77	77	[illegible]	[illegible]	[illegible]	[illegible]	
vi)	Soundness Test	Source Approval/when required	IS 2386 Part-5	[illegible]	1	1	[illegible]	0	[illegible]	[illegible]	1	1	[illegible]	[illegible]	[illegible]	[illegible]	
6	Concrete Compressive strength (7 Days)		IS 516	1352	5571	5571	[illegible]	1352	1352	[illegible]	6923	6923	0	[illegible]	[illegible]	[illegible]	
7	Concrete Compressive strength (28 Days)		IS 516	1756	8849	8849	[illegible]	1756	1756	[illegible]	10605	10605	[illegible]	[illegible]	[illegible]	[illegible]	
P	**Calibration**																
II)	Concrete Batching Plant (CP-45) RE 36	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
III	Concrete Batching Plant (CP 45)	One test for every year	-	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
IIII	Sand pouring cylinder 150mm dia.	One test for every month	IS 2720 Part-28	1	[illegible]	[illegible]	[illegible]	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
IV)	Sand pouring cylinder 200mm dia.	One test for every month	IS 2720 Part-28	1	[illegible]	18	[illegible]	1	1	[illegible]	19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
vi)	Sand pouring cylinder 100mm dia.	One test for every month	IS 2720 Part-28	[illegible]	10	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
vii)	Rapid moisture meter	One test for every month	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
viii)	Compressive testing machine 2000KN	One test for every year	-	[illegible]	2	2	[illegible]	[illegible]	[illegible]	[illegible]	2	2	[illegible]	[illegible]	[illegible]	[illegible]	
viiii)	Flexural Testing Machine	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Ix)	Proving ring 50KN	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
x)	Proving ring 50KN	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
xi)	Proving ring 25KN	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
xii)	WMM Plant 160TPH	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	3	[illegible]	[illegible]	[illegible]	[illegible]	
xiii)	HM Plant 160TPH	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
xiv)	Bitumen Sprayer	One test for every year	-	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Total			3875	59003	56711	2292	3899	3856	43	62902	60566	2335	2383	12834	15216	

Correspondence

8.1 Summary of correspondence letters

Sr. No	Letter No	Subject	To	From	Date	Remarks
1	MKCIL/GNR/UK_PSB_PKG-2/845	Regarding Submission of Detail drawings of Street lightning work.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	01.10.2024	
2	MKCIL/GNR/UK_PSB_PKG-2/846	Regarding Request to consider weightage of VUP (At Chainage-40+400km) foundation in Physical progress.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	01.10.2024	
3	MKCIL/GNR/UK_PSB_PKG-2/847	Regarding Submission of Copy of Royalty Slip of construction material.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	03.10.2024	
4	MKCIL/GNR/UK_PSB_PKG-2/848	Regarding Submission of Monthly Progress report for the month of September 2024 as per clause 13.1 of CA.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	07.10.2024	
5	MKCIL/GNR/UK_PSB_PKG-2/849	Regarding Submission of Milestone Payment Certificate-07.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	11.10.2024	
6	MKCIL/GNR/UK_PSB_PKG-2/850	Regarding Submission of work Completion Plan as per proposed request of time extension.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	12.10.2024	
7	MKCIL/GNR/UK_PSB_PKG-2/851	Regarding Advanced Traffic Management System (ATMS) works.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	15.10.2024	
8	MKCIL/GNR/UK_PSB_PKG-2/852	Regarding Submission of Traffic Medical aid & ATMS Control Room Ground Floor, First Floor and Terrace Floor Plan.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	17.10.2024	
9	MKCIL/GNR/UK_PSB_PKG-2/853	Regarding Hurdle in highway work by villagers at chainage-29+070 & 28+460.	NHAI	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	17.10.2024	
10	MKCIL/GNR/UK_PSB_PKG-2/854	Regarding Submission of Drawings for Rotary.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	17.10.2024	
11	MKCIL/GNR/UK_PSB_PKG-2/855	Regarding Repair of Potholes on Existing Road.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.10.2024	
12	MKCIL/GNR/UK_PSB_PKG-2/856	Regarding Closing of NCR-30.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.10.2024	
13	MKCIL/GNR/UK_PSB_PKG-2/857	Regarding Submission of System design Documents and credentials & company profile of TrafikSol ITS Technologies Limited.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	18.10.2024	
14	MKCIL/GNR/UK_PSB_PKG-2/858	Regarding Closing of NCR-37.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	19.10.2024	
15	MKCIL/GNR/UK_PSB_PKG-2/859	Resubmission of Milestone payment Certificate-07 for the work done up to 19.10.2024	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	19.10.2024	
16	MKCIL/GNR/UK_PSB_PKG-2/860	Regarding Request to revise the Schedule-g.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	20.10.2024	
17	MKCIL/GNR/UK_PSB_PKG-2/861	Regarding Closing of NCR-31.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	20.10.2024	
18	MKCIL/GNR/UK_PSB_PKG-2/862	Regarding Closing of NCR-32.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	20.10.2024	
19	MKCIL/GNR/UK_PSB_PKG-2/863	Regarding Closing of NCR-39.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	20.10.2024	
20	MKCIL/GNR/UK_PSB_PKG-2/864	Regarding Submission of Drone Videography & Ortho Images for the month of October 2024 as per Article 13.6.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	25.10.2024	
21	MKCIL/GNR/UK_PSB_PKG-2/865	Regarding Bank Guarantee Release against Mobilization Advance Recovery.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	28.10.2024	
22	MKCIL/GNR/UK_PSB_PKG-2/866	Regarding Submission of GSTR-3B & GSTR-1 copy for financial year-2024-25, Month- September.	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	28.10.2024	
23	MKCIL/GNR/UK_PSB_PKG-2/867	Regarding Minutes of the site inspection done by RO-Uttarakhand along with PD, PIU-Vasant Vihar (Dehradun) on 06.09.2024 for Poanta Saheb-Ballupur project (Pkg-2).	IE	MKC Poanta - Saheb Dehradun Kedarnathji Highways Private Limited	30.10.2024	

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	01-10-2024	38.3	26.1	48	30	Sunny	-	-	Cum. Rain Fall of the year
2	02-10-2024	35.6	22.5	45	28	Sunny	-	-	
3	03-10-2024	33.7	23.5	47	29	Sunny	-	-	
4	04-10-2024	36	23.9	48	29.5	Sunny	-	-	
5	05-10-2024	35.7	23.7	48.5	30	Sunny	-	-	
6	06-10-2024	35.5	24.3	48	30	Sunny	-	-	
7	07-10-2024	35.8	23.2	51	30	Sunny	-	-	
8	08-10-2024	35.5	23.2	51.5	30.5	Sunny	-	-	
9	09-10-2024	36.4	24.5	45	29	Sunny	-	-	
10	10-10-2024	35.2	24.9	46	29.5	Sunny	-	-	
11	11-10-2024	35.7	24.1	45	29.4	Sunny	-	-	
12	12-10-2024	34	21	50	30	Sunny	-	-	
13	13-10-2024	33.5	21.1	52	31	Sunny	-	-	
14	14-10-2024	33.7	21.5	52.5	32	Sunny	-	-	
15	15-10-2024	33.4	21.2	47	30	Sunny	-	-	
16	16-10-2024	25.6	22.4	50	44	Sunny	-	-	
17	17-10-2024	30.4	20.4	54	46	Sunny	-	-	
18	18-10-2024	295	24	51	43	Sunny	-	-	
19	19-10-2024	31.5	17.8	50	30	Sunny	-	-	
20	20-10-2024	31.8	17.5	48	30.5	Sunny	-	-	
21	21-10-2024	31.4	17.3	47	30.2	Sunny	-	-	
22	22-10-2024	31.7	17.6	48.5	31	Sunny	-	-	
23	23-10-2024	31.8	17.8	51	30	Sunny	-	-	
24	24-10-2024	31.3	17.4	47	30.8	Sunny	-	-	
25	25-10-2024	31.8	17.3	47.5	30.4	Sunny	-	-	
26	26-10-2024	31.6	17.8	46.5	30.9	Sunny	-	-	
27	27-10-2024	30.6	19.1	48	32.5	Sunny	-	-	
28	28-10-2024	30.8	18.2	50	31	Sunny	-	-	
29	29-10-2024	30.4	19.4	51.2	32.4	Sunny	-	-	
30	30-10-2024	30.8	16.8	51	31	Sunny	-	-	
31	31-10-2024	30.9	16.3	51.5	31.6	Sunny	-	-	

Site visit and meetings

10.1 Details of site visit and meetings

Sr. No	Date	Meeting & Visit
1	17.10.2024	Site inspection of Manager Tech Sir

Site photographs

11.1 Site photographs

DBM Checking by IE

Reinforcement and shuttering checking by Manager Tech , RE and BE at MJB 33+033.

VUP PSC Girder grouting work checked by ABE sir ch. 38+300

Girder launching at 28+122 MNB

FOB Layout Checking TL Sir , Sumit sir and SPM sir at ch- 43+960 (FRI gate)

Service Road GSB Top bed preparation at ch 33+310 to 33+520 LHS

Filter media pouring at Ch 39+500 RE wall A1 side LHS

NJCB casting work in progress at Ch-25+700

HIGH MAST POLE INSTALLATION WORK IN PROGRESS AT 40+115

MJB deck slab casting work in progress at Ch 33+033 RHS

Box culvert slab casting work in progress at Ch 19+890 LHS

HPC pipe laying at ch 31+830

Ch 33+033 MJB RHS parapet foothpath kerb casting work in progress

GSB top finishing and rolling work in progress at ch 30+840 to 30+950 (RHS)

Prime coat spray work in progress at ch34+900 To Ch35+700(RHS)

22+598 VUP Deck slab reinforcement binding checking by ABE Sir

22+554 Box Culvert SR slab staging work in progress.

21+610 MNB RHS Solid slab casting work in progress

A1 RHS service road approach slab reinforcement binding work in progress at MNB 29+659

21+610 Slab casting work in progress

Retaining wall curing work in progress at Ch 32+390 RHS

21+610 solid slab casting completed.

RE wall FDD checking by AQME sir at 31+800 A2 side BHS

Service Road Gsb preparation in progress at ch35+700 To Ch36+000 (RHS)

20+820 MNB approach slab casting work in progress LHS

Wmm preparation in progress at ch 31+400

Thanks