

PIL/DVE30/AE/139/2021**Date: 05.10.2021****To,**

The Team Leader
M/s. L. N. Malivya Infra Project Pvt. Ltd.
100 B, Vittalesh Apartment,
Near Utsav Banglows,
Bamroli Road Area, Godhra
E-mail id: - Inmipplgodhra@gmail.com

Project: Construction of Eight Lane access-controlled expressway from junction with SH-175 near Baletiya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch.803+420 to 824+920; design Ch.351+000 to Ch.372+500) section of Delhi-Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat. Package-30.

Sub: Submission of Monthly Progress Report for the Month of September 2021 of Pkg. DVE-30.

Ref:

- 1) EPC contract Agreement executed on dated 11/12/ 2021
- 2) Article -11.7 of EPC Contract Agreement.

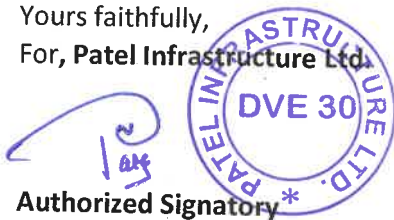
Dear Sir,

With reference to above cited subject and Contractual Obligation of Article -11.7 of EPC Contract Agreement executed on date 11.12.2020, we are herewith submitting the Monthly Progress Report for the month of September 2021 for your information and records please.

Thanking you,

Yours faithfully,

For, Patel Infrastructure Ltd.

**Authorized Signatory*****Encl.:** Three sets of Monthly Progress Report for the month of Sept 2021**Copy to:-**

- **General Manager (T)/Project Director, NHAI, PIU – Godhra, 13, Haidry Society, Civil Lines Road, Godhra -389001, Panchmahal (Gujarat) - For your information, please.**

Patel Infrastructure Limited**Regd. Office**

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सड़क परिवहन और राजमार्ग मंत्रालय
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

भारत सरकार

Government of India



BHARATMALA
ROAD TO PROSPERITY



National Highway Authority of India

(Ministry of Road Transport & Highways Government of India)

Construction of Eight Lane access-controlled expressway from junction with SH-175 near Baletiya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch. 803+420 to 824+920; design Ch. 351+000 to Ch. 372+500) section of Delhi – Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat Vadodara District (Ch. 824+920 to Ch. 844+382; Design Ch. 372+500 to Ch. 391+962) section of Delhi–Vadodara Greenfield Alignment (NH-148 N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat (Pkg-30)

MONTHLY PROGRESS REPORT

September'2021



Client

National Highway Authority of India



Authority Engineer

L.N.Malviya Infra Projects Pvt. Ltd



EPC Contractor

PATEL INFRASTRUCTURE LTD



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**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report**

1 Abbreviations

Abbreviations	Meaning
3A / 3D	Clause of Land Acquisition
AASHTO	American Association of State Highway and Transport Officials
Abt	Abutment
SMA	Stone Mastic Asphalt
DBM	Dense Bituminous Macadam
CBR	California Bearing Ratio Test
C&G	Clearing and Grubbing
Ch	Chainage
Cm	Centimeter
C/s	Cross-Section
Cum	Cubic Meter
CW	Carriageway
DFO	District Forest Officer
Dia	Diameter
DPR	Detailed Project Report
Emb	Embankment
EPC	Engineering Procurement Construction
Exc	Excavation
FST	Final Setting Time
GFC	Good for Construction
GSB	Granular Sub Base
HP	Hume Pipe
Ht	Height
Hyd	Hydraulic
AE	Authority Engineer
IS	Indian Standard

**Project-**

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Abbreviations	Meaning
IST	Initial Setting Time
JV	Joint Venture
Kg	Kilogram
Km	Kilometer
LHS	Left Hand Side
LL	Liquid Limit
Ltr	Liter
M	Meter
M	Mix
M/s	Messer's
MB	Minor Bridge
MDD	Maximum Dry Density
Misc	Miscellaneous
Mm	Millimeter
MJB	Major Bridge
MNB	Minor Bridge
MORT&H	Ministry of Road Transport & Highways
NA	Not Applicable
NH	National Highway
NHAI	National Highway Authority of India
NOC	No Objection Certificate
Nos	Numbers
°C	Centigrade
OGL	Original Ground Level
OMC	Optimum Moisture Content
PCC	Plain Cement Concrete
PI	Plastic Index
PD	Project Director

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Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Abbreviations	Meaning
PHE	Public Health and Environment
PL	Plastic Limit
PSC	Pre-stressed Concrete
PTR	Pneumatic Tyre Roller
PUP	Pedestrian Underpass
Pvt. Ltd.	Private Limited
QC	Quality Control
RBI	Reserve Bank of India
RE	Reinforced Earth
RCC	Reinforced Cement Concrete
RHS	Right Hand Side
ROB	Road over Bridge / Rail over Bridge
ROW	Right Of Way
Rs.	Rupees
Sec	Section
SG	Sub-Grade
T	Tonne
TMT	Thermo Mechanically Treated
TBM	Temporary Bench Mark
TPH	Tonnes Per Hour
VUP	Vehicular Underpass
W	Watt
WMM	Wet Mix Macadam

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2 Salient Features of the Project

2.1 Introduction:-

Name of the Project	–	Construction of Eight Lane access-controlled expressway from junction with SH-175 near Baletiya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch. 803+420 to Ch. 824+920; Design Ch. 351+000 to Ch. 372+500) section of Delhi - Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat.(Pkg-30)
Name of Client	–	National Highway Authority of India
Name of Independent Engineer	–	L N Malviya Infra Projects Pvt.Ltd.
Name of EPC Contractor	–	M/S Patel Infrastructure limited
Design Consultant	–	Highway Works- Aartav Engineering Pvt.Ltd. Structure Works- Consulting Engineers Group Ltd.
Proof Consultant	–	Sparsh Engineering Co. (P) Ltd.
Safety Consultant	–	SES Pvt Ltd.
LOA Issued	–	05 th October,2020
Date of Signing of Concession Agreement	–	11 th December,2020
Appointed Date	–	08 th September,2021
Construction Period	–	24 Months
Schedule Completion Date	-	07 th September,2023
Maintenance Period	–	10 Years
Project Cost	–	Rs.850.79 Crores

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Monthly Progress Report**2.2 Scope of work:-**

- | | | |
|---|---|--|
| a) Main Carriageway Length | = | 21.5 Km |
| b) Service/Slip Road Length | = | 2.28 Km |
| c) Major Bridge | = | 07 Nos. MJBs at: |
| | | 1. 352+281
(18x35+2x25+2x35+1x66+1x63+1x66+2x35+1x25+22x35+1x25+1x45&18x35+1x25+2x35+1x66+1x63+1x66+2x35+2x25+22x35+1x25+1x45=1880 mtr) |
| | | 2. 355+789 (3 x 35.0=105 mtr) |
| | | 3. 358+050 (4 x 25.0=100 mtr) |
| | | 4. 359+936 (5 x 25.0=125 mtr) |
| | | 5. 361+839 (1 x 62.0=62 mtr) |
| | | 6. 365+593 (2 x 50=100 mtr) |
| | | 7. 370+879 (1 x 40=40 mtr) |
| d) Vehicular Underpass (VUP) | = | 01 Nos. |
| e) Small Vehicular Underpass (SVUP) | = | 03 Nos. |
| f) Light Vehicular Underpass (LVUP) | = | 06 Nos. |
| g) Minor Bridge (MNB) | = | 03 Nos. |
| h) Box Culverts (BC) | = | 54 Nos. (34 in CA, + 20 additional) |
| i) Project Facilities (Schedule C) : | | |
| i. Road Side Furniture | = | EPC contractor shall provide-Kilometer and hectometer Stones, Road Signs, Road Marking, Road Delineators, Solar Studs, Crash Barriers, Boundary Wall etc.as per schedule B and Schedule D. |
| ii. Wayside Amenities | = | 02 Nos. |
| iii. Truck Parking Area | | |
| iv. Pedestrian Facilities/Cattle Crossing | | |
| v. Lighting | = | EPC contractor shall provide lighting as per Schedule B. |
| vi. Environmental Management Plan | | |
| vii. Land Scaping & tree plantation | = | Contractor shall plant trees and shrubs Of required numbers and types at the appropriate locations within ROW and in land embarked by authority for afforestation as per Schedule B. |
| viii. ATMS | = | Advanced traffic management system shall be provided as per schedule D |
| ix. Utilities | = | In the locations where distance between two culverts is more than 1 Km utility duct will be provided. |
| x. Rain water harvesting | = | EPC contractor shall provide rain water Harvesting as per Schedule B. |

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Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report**

3 Executive Summary

The Ministry of Road Transport & Highways through National Highways Authority of India is engaged in the development of National Highways and as part of this endeavor, it has been decided to undertake Construction of Delhi Mumbai Expressway total 1352 km of expressways and includes construction of about 844 km long Delhi - Vadodara Expressway proposed to be implemented under Engineering Procurement Construction mode (EPC) contracts. The proposed Main Expressway passes through the states of Haryana, Rajasthan, Madhya Pradesh and Gujarat. The total length of the proposed expressway is about 844 km is a Greenfield alignment.

Project Network and Importance:- The project corridor apart from connecting Madhya Pradesh Border, Garoth, Jaora, Ratlam, Pancherla, Godhra, and Mandasaur- Vadodara. It provides connectivity to the urban areas, tourist locations and Irrigation project along it. These centres are to become crucial given the likely high level of investments getting attracted in the future. The project corridor, which passes through and near from Delhi, Haryana, Rajasthan, Madhya Pradesh and Gujarat state are characterized by the presence of districts that are the major economic drivers of the state. Apart from connectivity considerations, the development of this corridor has been perceived to be important from the perspective of enhanced mobility levels of people, and with time more importantly in terms of direct benefits to the community by the way of Vehicle operating time and Vehicle operating cost savings, towards achieving development on our alignment.

M/S Patel Infrastructure Ltd (the "EPC Contractor") has been awarded the stretch "from junction with SH-175 near Baletiya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch. 803+420 to 824+920; design Ch. 351+000 to Ch. 372+500) section of Delhi – Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat ("the Project") through International Competitive Bidding.

The scope of work broadly construction of new 8 lane Expressway, Construction of Service Roads/Slip Roads/Connecting Roads, Construction of Major and Minor bridges, Vehicular Underpass, Culverts, Road Intersections, Drains, Road side facilities etc.

The project road is a section of Delhi-Vadodara Eight Lane access-controlled Expressway, which starts at design chainage 351+000 near Baletiya village and terminates at design chainage 372+500 near Pratap Nagar village. Total length of Project Road is 21.500 Km.

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Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report**

4 Technical Specification

- Pavement Width of Carriageway (8 lane) : 15.00 m
- Pavement Width of Carriageway (8lane) : 18.75m
With paved shoulder
- Pavement Width of Slip road (in 2 lane) : 9.50 m
With paved shoulder
- Thickness of Flexible Pavement : As per Approved Pavement Design
- Type of Foundation in Structures : Open Foundations/Pile Foundations
- Type of Super Structures : PSC Girder/Composite Steel Girders

5 Abstract of the progress report

5.1 Status of Highways:

Summarized progress of highway works are as below: -

Sl. No.	Work Activity	Unit	Total Qty.	Completed up to Previous month (Km.)	Completed during this month (Km.)	Completed till date (Km.)	In Progress to (Km.)	Balance to taken-up (Km.)	
1	C&G	MCW	Km	37.684		11.81	11.81	25.874	
		SR	Km	2.28			0	2.28	
2	Earthwork up to Subgrade top	MCW	Km	37.684			0	8	29.684
		SR	Km	2.28			0		2.28
3	Sub-Base Course	MCW	Km	37.684			0		37.684
		SR	Km	2.28			0		2.28
4	Non Bituminous Base	MCW	Km	37.684			0		37.684
		SR	Km	2.28			0		2.28
5	Bituminous Base Course	MCW	Km	37.684			0		37.684
		SR	Km	2.28			0		2.28
6	Wearing Coat	MCW	Km	37.684			0		37.684
		SR	Km	2.28			0		2.28

* Total Length of Project Road considering the work on LHS & RHS of the Road excluding the Length of Structures.

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Monthly Progress Report**5.2 Status of Structures:-**

Summarized Progress of Structure Work Is As Below–

Sr. No.	Description	Unit	Project Scope	Completed	Work in Progress	Yet to Start	Remarks
1	Major Bridge	Nos	7		1	6	At MJB 352+281 pile completed 90/900.
2	Minor Bridge	Nos	3			3	
3	SVUP	Nos	3			3	
4	LVUP	Nos	6		1	5	
5	VUP	Nos	1			1	PCC completed at 359+485
6	Box Culvert	Nos	54			54	
	Total	Nos	74		2	72	

* Strip Chart Showing Progress in Highway and Structure work is attached.

5.3 Financial Progress:-

Sl. No.	Financial progress till last month	%age Financial progress till last month	Financial progress for this month	Cumulative financial progress up to this month	% age Cumulative Financial progress up to this month	Remarks
	(cr.)	(%)	(cr.)	(cr.)	(%)	
1	Nil	Nil	Nil	Nil	Nil	Appointed date 08.09.2021

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Monthly Progress Report**5.4 Financial Planned Target/Achievement:-**

We have submitted the project construction program and cash flow. We are attaching the month wise target upto September 2023.

Sr No.	Months	Planned Value [Cr]	Cumulative Planned Value [Cr]	Achieved Value [Cr]	Cumulative Achieved Value [Cr]	Remarks
1	Sep-21	1.03	1.03	0	0	Ad 08.09.2021
2	Oct-21	6.70	7.72			
3	Nov-21	24.71	32.43			
4	Dec-21	31.46	63.89			
5	Jan-22	49.14	113.04			
6	Feb-22	44.36	157.40			
7	Mar-22	54.73	212.12			
8	Apr-22	57.94	270.06			
9	May-22	46.42	316.48			
10	Jun-22	47.16	363.65			
11	Jul-22	49.93	413.58			
12	Aug-22	14.16	427.74			
13	Sep-22	11.92	439.66			
14	Oct-22	16.35	456.01			
15	Nov-22	59.74	515.75			
16	Dec-22	53.34	569.09			
17	Jan-23	48.50	617.59			
18	Feb-23	48.59	666.19			
19	Mar-23	44.79	710.98			
20	Apr-23	39.52	750.51			
21	May-23	29.48	779.99			
22	Jun-23	37.07	817.06			
23	Jul-23	26.89	843.95			
24	Aug-23	5.58	849.53			
25	Sep-23	1.26	850.79			



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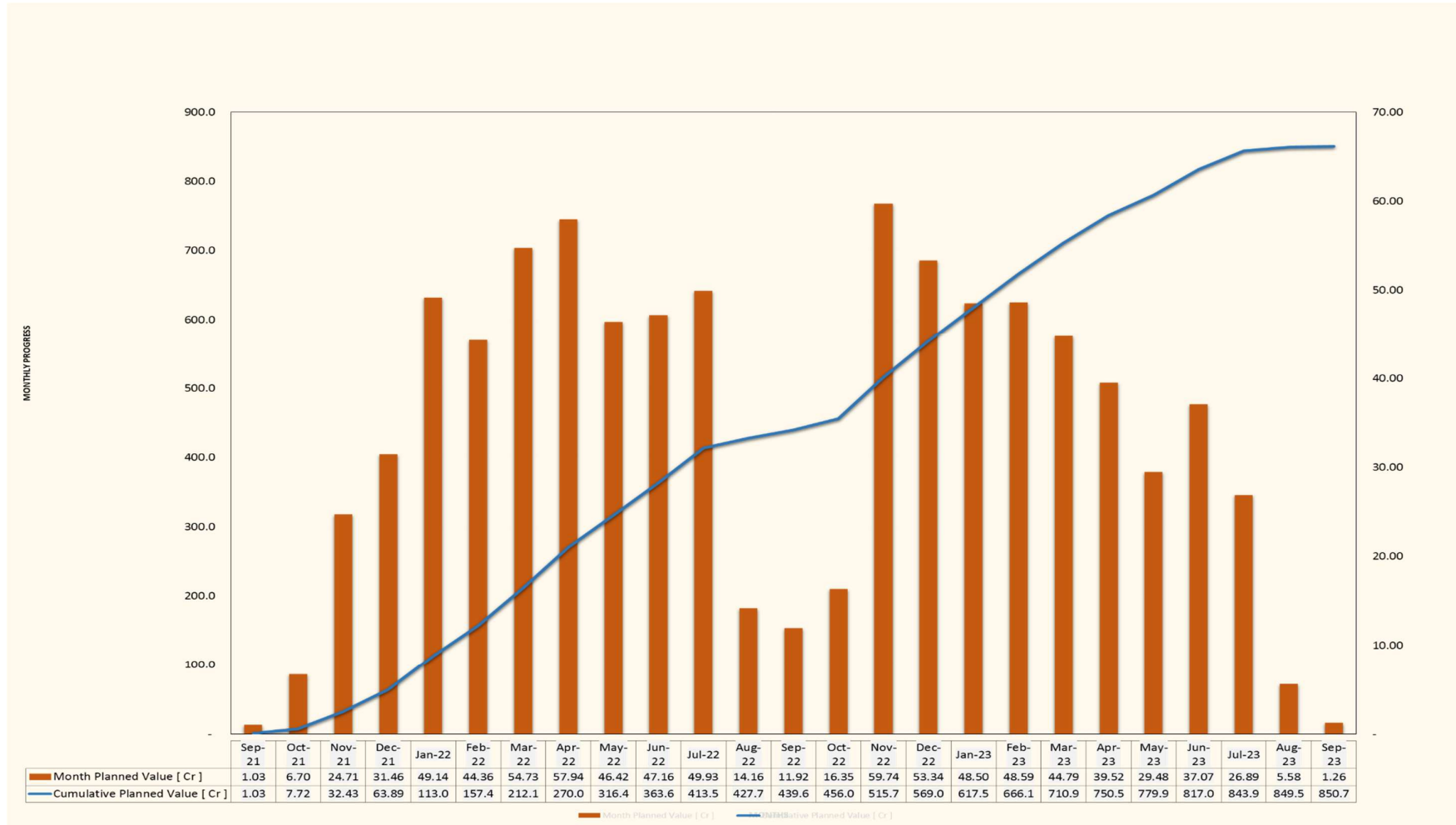
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5.5 S-CURVE:-

DELHI-VADODARA EXPRESSWAY PKG-30]-[S-CURVE-FINANCIAL PROGRESS AS PER SCH-H



**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report**

6 Status of Land Acquisition & Utility shifting

6.1 Details of Land Acquisition

Land Acquisition details of the project shown in attached strip chart.

6.2 Work Front Available Details

Front Available Details of the project shown in attached strip chart.

6.3 Utility Shifting:-

Sr. No.	Particulars	Unit	Total	Completed	Balance	Remarks
A	Shifting of Electric Utilities					
A1	Electric Poles	Nos.	198	27	171	
A2	Electric Cables	Meters	12790	805	11985	
A3	Transformer	Nos.	14	0	14	
B	Shifting of Electric Utilities					
B1	Water Supply	Meters	1228	0	1228	

**Project-**

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Monthly Progress Report**6.4 Tree Cutting:**

S. No.	Particular	Unit	Quantity as per CA	Completed as per site	Balance	Remark
1	Trees within ROW	Nos.	2734	4530		Additional tree cut 1796 nos.

7 Mobilization status**7.1 Manpower:-**

SR. NO.	DESCRIPTION OF STAFF	NO	REMARK
Project Management			
1	General Manager	1	
2	Sr. Project Manager	1	
Highway (Technical)			
3	DPM(Highway)	1	
4	Sr. Engineer (Highway)	2	
5	Engineer (Highway)	3	
6	Asstt. Engg (Highway)	5	
7	Jr.Engineer(Highway)	4	
8	Sr.Sup(High)	10	
Structure (Technical)			
9	DPM(Structure)	3	
10	Sr.Engineer(Structure)	1	
11	Engineer Structure	2	
12	Asst. Engineer (structure)	2	
13	Jr. Engineer (Structure)	4	
14	Supervisor (Structure)	2	
Planning & Billing Dept.			
15	Dy.Manager (Planning)	1	
16	Asst. Manager (Billing)	1	
17	Sr.Engineer(Planning)	1	
18	Engineer(Planning & Billing)	1	
19	Engineer QS	1	
Survey Dept.			
20	DPM	1	
21	Sr.Surveyor	1	
22	Surveyor	4	

**Project-**

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SR. NO.	DESCRIPTION OF STAFF	NO	REMARK
23	Helper Survey	3	
QA & QC Dept.			
24	Sr.Engineer (QA& QC)	1	
25	Engineer (QA& QC)	2	
26	Jr. Engineer (QA& QC)	3	
27	Lab Technician	4	
28	Helper-Lab	5	
HR & Admin Dept.			
29	Dy. Manager (HR/Admin)	1	
30	Sr.Executive (HR/Admin)	1	
31	Executive (Admin)	1	
32	Camp Supervisor	1	
33	Office Assistant	1	
34	Office boy	2	
Finance & Accounts			
35	Sr. Accountant	1	
36	Jr.Accountant	1	
Liaison Dept.			
37	Dy. Manager (Liaison)	1	
38	Sr.Executive(Liaison)	1	
39	Executive (Liaison)	1	
40	Jr. Executive (Liaison)	1	
IT Dept.			
41	Sr. Executive (IT)	1	
42	Executive (IT)	1	
Store Dept.			
43	Dy. Manager (Store)	1	
44	Sr. Executive (Store)	1	
45	Executive (Store)	4	
46	Jr. Executive (Store)	5	
Purchase Dept.			
47	Purchase Executive	1	
HSE. Dept.			
48	Sr.Officer Safety	1	
49	Executive Safety	1	
50	Male Nurse	1	
S&V Dept.			
51	Sr.Officer (S&V)	2	
52	Officer (S&V)	1	

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SR. NO.	DESCRIPTION OF STAFF	NO	REMARK
Mechanical Dept.			
53	Sr. Manager (Mech)	1	
54	Dy. Manager (P&M)	1	
55	Sr. Engineer (Mech)	2	
56	Engineer (Mech)	2	
57	Executive (Mech)	2	
58	Fleet Supervisor	1	
59	PLANT & MACHINERY OPERATORS/WELDER/TYRE FITTE/PLUMBER/HELPER/DRIVER	123	
Grand Total>>		235	

7.2 List of Plant & Machinery

SL. NO	PROJECT NAME	EQUIPMENT NAME	QTY	Remarks
1	DVE/30	WMM Plant-250TPH-Macadam	1	
2	DVE/30	Batch Mix Plant-MA-45-Macons	2	
3	DVE/30	Hot Mix Plant 200 TPH (Marini)	1	
4	DVE/30	LINNOF PLANT 160 TPH	1	
5	DVE/30	SCHNEEL PLANT	1	
6	DVE/30	PRE-CAST PLANT (PAKONA)	1	
7	DVE/30	GANTRY CRANE -	5	
8	DVE/30	PILING RIG MACHINE	3	
9	DVE/30	Weigh Bridge-	5	
10	DVE/30	Hydra Crane	4	
11	DVE/30	LMV	14	
12	DVE/30	Water Tanker-	3	
13	DVE/30	DG Set	15	
14	DVE/30	Baby Roller	1	
15	DVE/30	Water Tanker-	5	
16	DVE/30	Tandem Roller	3	
17	DVE/30	Excavator-	3	
18	DVE/30	Motor Grader-	6	
19	DVE/30	Loader	5	
20	DVE/30	HIGH MAST - TOWER LIGHT	4	
21	DVE/30	CONTAINER WORK SHOP	3	
22	DVE/30	TRACTOR	3	
23	DVE/30	Soil Compactor-	7	
24	DVE/30	Transit Mixer	8	
25	DVE/30	Concrete Pump	1	
26	DVE/30	Diesel Tanker	1	
27	DVE/30	SERVICE VAN	1	
28	DVE/30	TIPPER	16	
29	DVE/30	Trailer	1	

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report**

8 Quality Maintenance & Safety

- EPC contractor has established one No. laboratory at main camp at Chainage - 352+250 RHS near Khandoli village .
- All required tests as per the frequencies and requirements of IRC Code provisions are being carried out.
- Safety Officer along with supporting staff is deployed at Site to take care of Safety aspects.
- Regular Test conducted of Covid-19 precautionary with the all staff.
- Tool Box meeting to be conducted before starting the work.
- Induction training conducted regularly to all newly appointed staff and all the Workmen will follow the Safety Rules as per the CA.
- All Workers and Supervisory Staff at site shall wear Protective and Safety Gear (PPE) during execution
- First Aid facilities are available at site.
- Mock drill regularly conducted at site.
- Project Overviews given in subheading no.11.1.
- List of plant and machinery is given in 7.2.
- List of quality control equipment's is given in 11.8.
- Weather report for the month is given in 11.9.

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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9 Milestone of the progress

Various project milestone laid down at schedule J of CA with respect to appointed date as follows: -

Sr. No.	Milestones	Target From Appointed Date	Scheduled Milestone Date	Description	Remarks
1	Milestone - I	256 days	21.05.2022	EPC Contractor has to complete minimum 10% financial progress of the contract price within 256 days from appointed date to achieved 1 st milestone.	
2	Milestone - II	438 days	19.11.2022	EPC Contractor has to complete minimum 35% financial progress of the contract price within 438 days from appointed date to achieved 2 nd milestone.	
3	Milestone - III	621 days	24.05.2023	EPC Contractor has to complete minimum 70% financial progress of the contract price within 621 days from appointed date to achieved 3 rd milestone.	
4	Scheduled Completion Date	730 days	07.09.2023	EPC Contractor shall have to completed Construction of Eight laning Expressway within 730 days.	



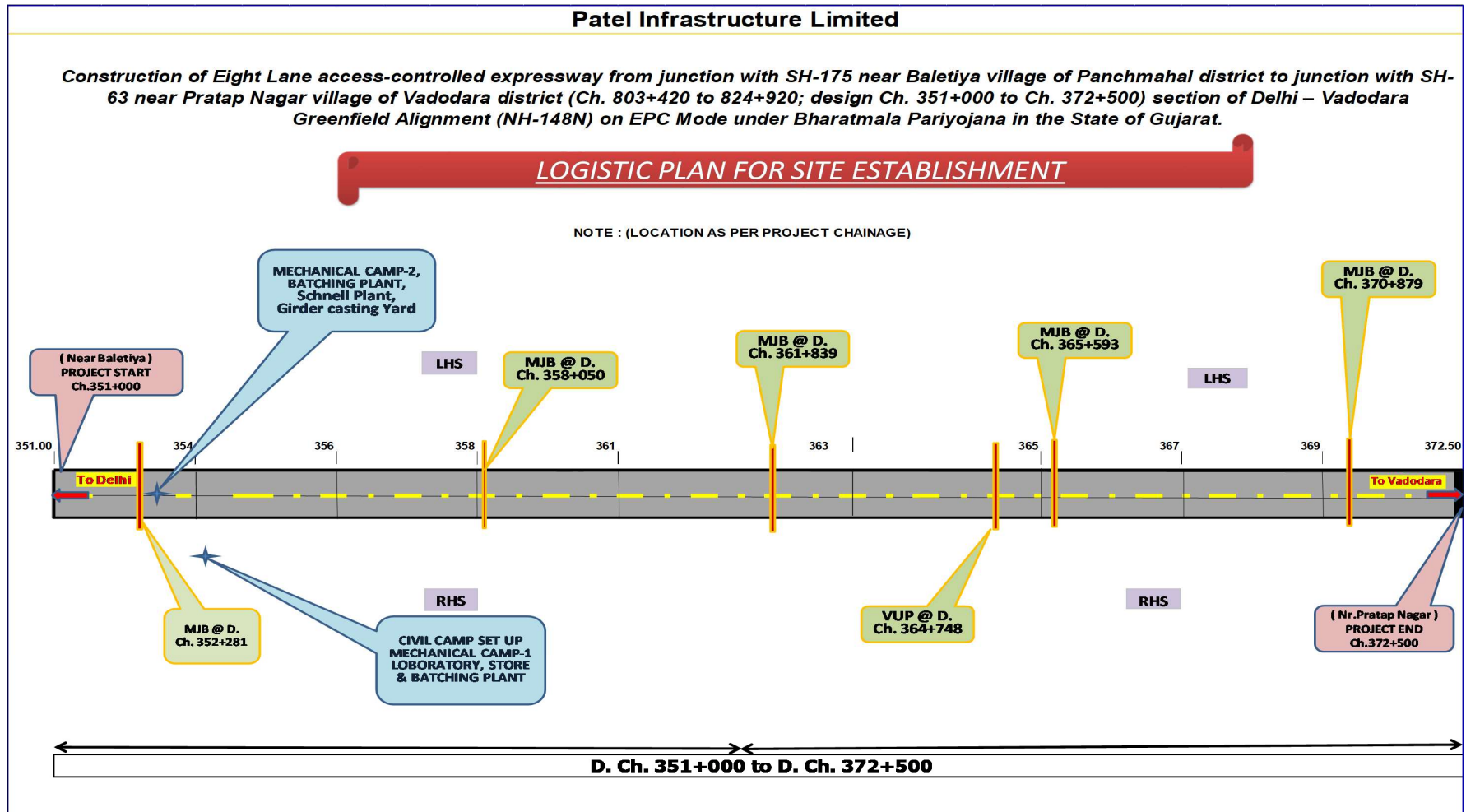
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10 Location Plan & Status of Camps





Project-
Delhi – Vadodra Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

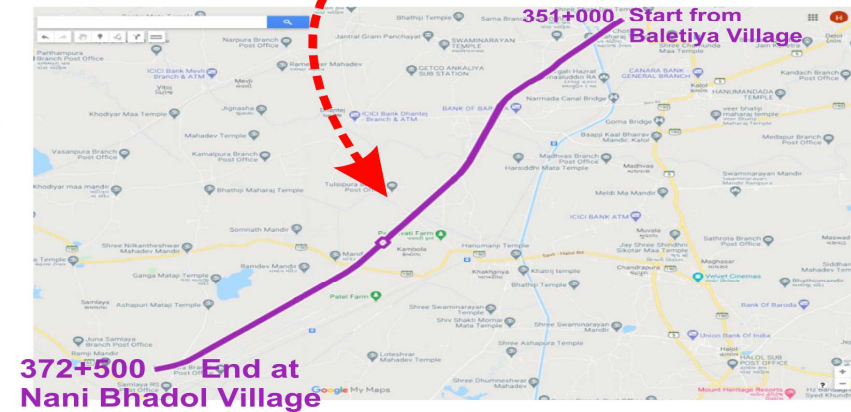
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11 Annexure: -

11.1 Project overview



**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Every Milestone is our Value

Monthly Progress Report**11.2 Scope of Work**

Sr. No	Component	Qty.	Remarks
1	Construction of Eight lane	21.5 Km	Development of the Project Highway shall include design and construction of the Project Highway as described in this Schedule-B and in Schedule-C. The alignment plans of the Project Highway are specified in Annex-III of Schedule A and shall be deemed to be part of this Schedule B.
2	Connecting Roads / Service Roads /Slip Roads	2.280 Km	Total Length of Slip Road – Wayside Amenities @ Ch. 363+440 and Ch. 363+460
3	SVUP	3 Nos.	3 Nos. Of RCC Box type SVUP having span arrangement= 1x7x3.5m shall be constructed.
4	LVUP	6 Nos.	5 Nos. Of RCC Box type LVUP having span arrangement 1x12x4.5m shall be constructed and 1 Nos. Of PSC Girder & Beam type LVUP having span arrangement 1x35.0x4.5m shall be constructed.
5	VUP	1 Nos.	1 Nos. Of VUP having span arrangement 1x30x5.5m shall be constructed.
6	RCC Box Culverts	54 Nos.	34 nos. of RCC Box Culverts having span between 1x2x2m to 1x5x3m shall be constructed as new. additional 20 nos. box culverts of size 2m x 2m shall be provided as per site requirements.
7	Major Bridge	7 Nos.	1 nos. of PSC I Girder & Steel Composite type Major Bridge over canal body having span from 18m to 66m and 6 Nos. of Major Bridge having span from 25m to 70m shall be constructed as new.
8	Minor Bridge	3 Nos.	3 Nos. of MNB having span between 6m to 40m shall be constructed as new.
9	Way side Amenities / Service Areas	2 No.	1 no at 363+440 RHS and 1 no at 363+460 LHS.
10	Retaining Wall & RE Wall	4.590Km	2.332 Km Retaining Wall and 2.258 Km RE Wall.
11	Diversion of Irrigation Canal	1.488 Km	As per cross-section in Appendix B-2a
12	Embankment Protection	0.280 km	-

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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**Monthly Progress Report****11.3 Status of approval for Applicable Permits**

The Concessionaire has obtained all the requisite permits and approvals required as per Concession Agreement Clause 4.1,3,

Sl.No.	Applicable Various Permits	Status as	Reference & Validity
1	Permission of the State government for extraction of boulders from quarry;	NA	
2	Permission of Village Panchayats and Pollution Control Board for installation of crushers;	NA	
3	License for use of explosives;	NA	
4	Permission of the State Government for drawing water from river/reservoir;	NA	
5	License from Inspector of Factories or other Competent Authority for setting up batching plant;	Obtained	
6	Clearance of Pollution Control Board for setting up batching plant;	Obtained	
7	Clearance of village Panchayats & Pollution Control Board for setting up Asphalt Plant;	Obtained	
8	Permission of Village Panchayats and State Government for borrow earth	Obtained	
9	Any other permits or clearances required under Applicable laws	Labour Licence	Submitted

**Project-**

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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Monthly Progress Report**11.4 Status of Drawings**

S.No.	Drawing Description	Unit	D.Ch. 351+000 to 372+500				
			Scope	Submitted	Approved	Balance for Submission	Balance for Approval
HIGHWAY							
1	Plan & Profile MCW	Km.	43.000	43.000		0.000	43.000
2	Typical Cross - Section		43.000	43.000		0.000	43.000
3	Plan & Profile Slip Road		2.280			2.280	0.000
STRUCTURE							
1	Major Bridge	Nos.	7	7		0	7
2	Minor Bridge	Nos.	3	3	1	0	2
3	VUP	Nos.	1	1		0	1
4	LVUP	Nos.	6	6	1	0	5
5	SVUP	Nos.	3	3	1	0	2
6	Box Culverts pre-cast	Nos.	43	43	43	0	0
	Box Culverts Cast In Situ	Nos.	11	4		7	4
Total>>			74	67	46	7	21

The following drawings have been submitted to Authority Engineer / NHA for review:



11.5 Strip Chart Land Acquisition

Construction of Eight Lane access-controlled expressway from junction with SH-175 near Baletiya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch. 803+420 to 824+920; design Ch. 351+000 to Ch. 372+500) section of Delhi-Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat. Package-30	
LHS	BC
LHS	DBM
LHS	WMM
LHS	GSB
LHS	SG
LHS	Hindrance Clear
	CHAINAGE
	351.000
	351.100
	351.200
	351.300
	351.400
	351.500
	351.600
	351.700
	351.800
	351.900
	352.000
	352.100
	352.200
	352.300
	352.400
	352.500
	352.600
	352.700
	352.800
	352.900
	353.000
	353.100
	353.200
	353.300
	353.400
	353.500
	353.600
	353.700
	353.800
	353.900
	354.000
	354.100
	354.200
	354.300
	354.400
	354.500
	354.600
	354.700
	354.800
	354.900
	355.000
	355.100
	355.200
	355.300
	355.400
	355.500
	355.600
	355.700
	355.800
	355.900
	356.000
RHS	Hindrance Clear
RHS	SUBGRADE TOP
RHS	GSB
RHS	WMM
RHS	DBM
RHS	BC
LHS	BC
LHS	DBM
LHS	WMM
LHS	GSB
LHS	SG
LHS	Hindrance Clear
	CHAINAGE
	356.100
	356.200
	356.300
	356.400
	356.500
	356.600
	356.700
	356.800
	356.900
	357.000
	357.100
	357.200
	357.300
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	358.200
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	359.100
	359.200
	359.300
	359.400
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	359.800
	359.900
	360.000
	360.100
	360.200
	360.300
	360.400
	360.500
	360.600
	360.700
	360.800
	360.900
	361.000
	361.100
RHS	Hindrance Clear
RHS	SUBGRADE TOP
RHS	GSB
RHS	WMM
RHS	DBM
RHS	BC
LHS	BC
LHS	DBM
LHS	WMM
LHS	GSB
LHS	SG
LHS	Hindrance Clear
	CHAINAGE
	361.200
	361.300
	361.400
	361.500
	361.600
	361.700
	361.800
	361.900
	362.000
	362.100
	362.200
	362.300
	362.400
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	365.100
	365.200
	365.300
	365.400
	365.500
	365.600
	365.700
	365.800
	365.900
	366.000
	366.100
	366.200
RHS	Hindrance Clear
RHS	SUBGRADE TOP
RHS	GSB
RHS	WMM
RHS	DBM
RHS	BC

11.6 Progress Strip Chart of Road and Structure Work

11.6.1 Annexure-I-Highway:-



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		Chainage Interva :- 0.100		360.900	
LHS	Emb 8th				
	Emb 7th				
	Emb 6th				
	Emb 5th				
	Emb 4th				
	Emb 3rd				
	Emb 2nd				
	Emb 1st				
	C&G				
	Chainage :	360.900			
	361.000				
	361.100				
	361.200				
	361.300				
	361.400				
	361.500				
	361.600				
	361.700				
	361.800				
	361.900				
	362.000				
	362.100				
	362.200				
	362.300				
	362.400				
	362.500				
	362.600				
	362.700				
	362.800				
	362.900				
	363.000				
	363.100				
	363.200				
	363.300				
	363.400				
	363.500				
	363.600				
	363.700				
	363.800				
	363.900				
	364.000				
	364.100				
	364.200				
	364.300				
	364.400				
	364.500				
	364.600				
	364.700				
	364.800				
	364.900				
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	365.200				
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	365.600				
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	365.800				
	365.900				
	366.000				
	366.100				
	366.200				
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	366.700				
	366.800				
	366.900				
	367.000				
	367.100				
	367.200				
	367.300				
	367.400				
	367.500				
	367.600				
	367.700				
	367.800				
	367.900				
	368.000				
	368.100				
	368.200				
	368.300				
	368.400				
	368.500				
	368.600				
	368.700				
	368.800				
	368.900				
	369.000				
	369.100				
	369.200				
	369.300				
	369.400				
	369.500				
	369.600				
	369.700				
	369.800				
	369.900				
	370.000				
	370.100				
	370.200				
	370.300				
	370.400				
	370.500				
	370.600				
	370.700				
	370.800				
RHS	C&G				
	Emb 1st				
	Emb 2nd				
	Emb 3rd				
	Emb 4th				
	Emb 5th				
	Emb 6th				
	Emb 7th				
	Emb 8th				

LHS	Emb 8th				
	Emb 7th				
	Emb 6th				
	Emb 5th				
	Emb 4th				
	Emb 3rd				
	Emb 2nd				
	Emb 1st				
	C&G				
	Chainage :	370.800			
	370.900				
	371.000				
	371.100				
	371.200				
	371.300				
	371.400				
	371.500				
	371.600				
	371.700				
	371.800				
	371.900				
	372.000				
	372.100				
	372.200				
	372.300				
	372.400				
	372.500				
RHS	C&G				
	Emb 1st				
	Emb 2nd				
	Emb 3rd				
	Emb 4th				
	Emb 5th				
	Emb 6th				
	Emb 7th				
	Emb 8th				



Project-

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11.6.2 Annexure-II-Structure:-



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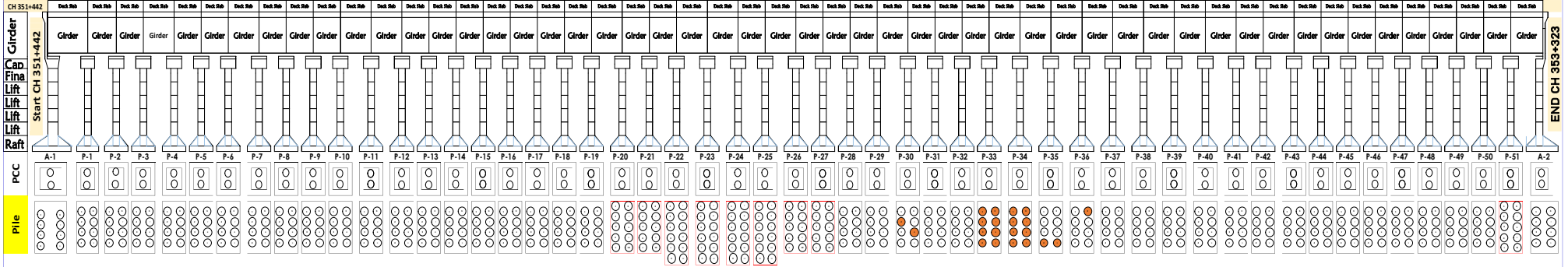
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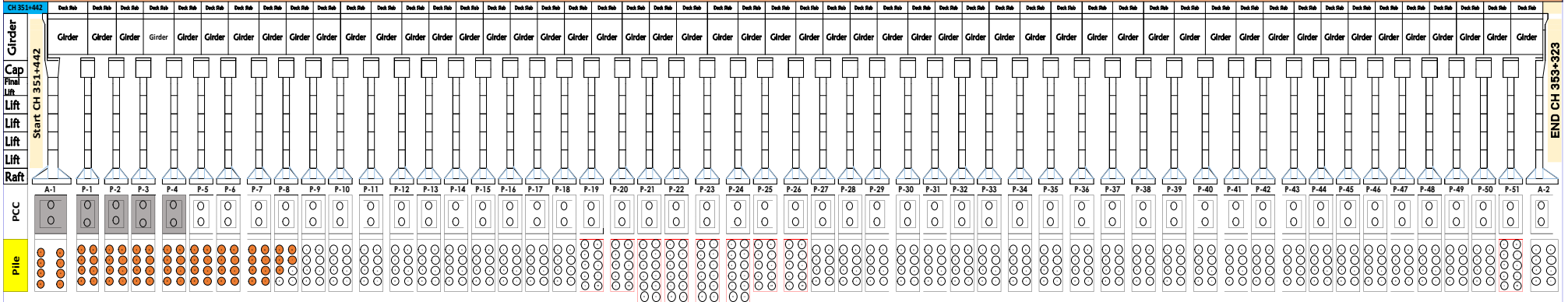
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Construction of Eight Lane access-controlled expressway from junction with SH-175 near Baleliya village of Panchmahal district to junction with SH-63 near Pratap Nagar village of Vadodara district (Ch. 803+420 to Ch. 824+920; Design Ch. 351+000 to Ch. 372+500) section of Delhi - Vadodara Greenfield Alignment (NH-148N) on EPC Mode under Bharatmala Pariyojana in the State of Gujarat.(Pkg-30)

MAJOR BRIDGE AT 352+281 LHS



MAJOR BRIDGE AT 352+281 RHS



Work Summary

Pile:- 90/900
Foundation:- 0/106
Pier:- 0/106
Pier Cap:- 0/106
Girder:- 0/734
Slab:- 0/104



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	LVUP 351+372	LVUP 356+849	LVUP 359+485
CB			
Deck Slab			
Lift			
Lift			
Lift			
Raft			
PCC			
Excavation			
Chainage	LVUP 361+992	LVUP 367+170	
CB			
Deck Slab			
Lift			
Lift			
Lift			
Raft			
PCC			
Excavation			

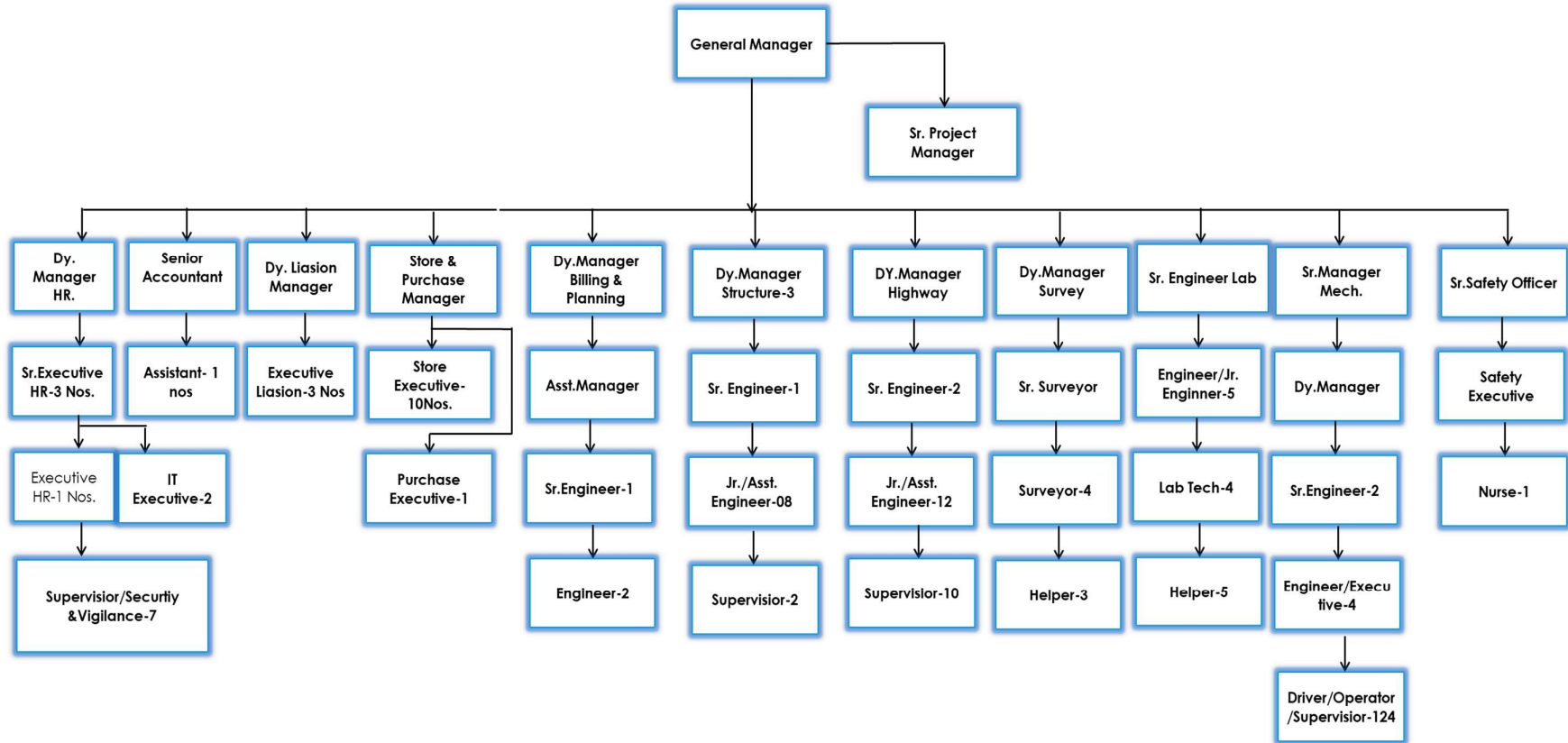
Page 1

LVUP 6 NOS.
Box Type=5
Girder Type=1



11.7 Organization Charts of EPC Contractor

Orgainzation Chart





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Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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11.9 Quality Control Tests

S. No.	Description	IS Specification Clause	Frequency of Tests	Previous month				This Month				Upto date			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
1.0 Tests on OGL															
i.	Grain size analysis	IS:2720 (Part4)	1 test / 250 meters	0	0	0	0	160	160	0	0	160	160	0	0
ii.	Atterberg Limits	IS:2720 (Part5)	1 test / 250 meters	0	0	0	0	160	160	0	0	160	160	0	0
iii.	Proctor	IS:2720 (Part8)	1 test / 250 meters	0	0	0	0	160	160	0	0	160	160	0	0
iv.	Free Swell index	IS:2720 (Part40)	1 test / 250 meters	0	0	0	0	160	160	0	0	160	160	0	0
v.	California bearing ratio	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
2.0 Cutting portion & Existing for EMB/SG (MoRT&H 305)															
i.	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Proctor	IS:2720 (Part8)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	0	0	0	0	0	0	0	0	0	0	0	0
v.	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	0	0	0	0	0	0	0	0
3.0 Borrow Area for EMB/Subgrade (MoRT&H 305)															
i.	Grain size analysis	IS:2720 (Part4)	1 test /1500 m ³	0	0	0	0	476	476	0	0	476	476	0	0
ii.	Atterberg Limits	IS:2720 (Part5)	1 test /1500 m ³	0	0	0	0	476	476	0	0	476	476	0	0
iii.	Proctor	IS:2720 (Part8)	1 test /1500 m ³	0	0	0	0	476	476	0	0	476	476	0	0
iv.	Free Swell index	IS:2720 (Part40)	1 test /1500 m ³	0	0	0	0	476	476	0	0	476	476	0	0
v.	California bearing ratio	IS:2720 (Part16)	1 test / 3000 m ³	0	0	0	0	43	43	0	0	43	43	0	0
vi.	Water Soluble Sulphate	IS:2720 (Part27)	As required	0	0	0	0	17	17	0	0	17	17	0	0
vii.	Angle of Internal Friction(ϕ)	IS:2720 (Part13)	As required	0	0	0	0	0	0	0	0	0	0	0	0
4.0 Field Density Test (MORT&H 305)															
i.	Field density (OGL)	IS:2720 (Part28)	10 test /3000 sqm	0	0	0	0	28	28	0	0	28	28	0	0
ii.	Field density (EMB)	IS:2720 (Part28)	10 test /3000 sqm	0	0	0	0	480	474	6	0	480	474	6	0
iii.	Field density (SG)	IS:2720 (Part28)	10 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Field density (Shoulder)	IS:2720 (Part28)	10 test / 2000 sqm	0	0	0	0	0	0	0	0	0	0	0	0



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S. No.	Description	IS Specification Clause	Frequency of Tests	Previous month				This Month				Upto date			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
5.0	Safe Bearing capacity of soil (Highway &Structure)														
i.	Grain size analysis	IS:2720 (Part40)	As required	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Atterberg Limits	IS:2720 (Part4)	As required	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Proctor	IS:2720 (Part5)	As required	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Free Swell index	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
v.	Bearing Capacity	IS:6403 / IS 1888	As required	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Plate Load Test	IS:6403 / IS 1888	As required	0	0	0	0	0	0	0	0	0	0	0	0
6.0	Filter Media & Back filling MoRT&H 2500														
i.	Gradation		As required	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Backfilling field density		1 test /1000 m ³	0	0	0	0	0	0	0	0	0	0	0	0
7.0	Granular Bedding Material (For Structures-Ground Improvement)- Stock & Site Testing														
i.	Gradation	Table 400-1	As required	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Atterberg Limits	IS:2720 (Part5)	As required	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0
iv.	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0
v.	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Field Density	IS:2720 (Part28)	As required	0	0	0	0	0	0	0	0	0	0	0	0
8.0	CTSB /GSB														
i.	Gradation	Table 400-4	1 test/400m ³	0	0	0	0	13	12	0	1	13	12	0	1
ii.	Atterberg Limits	IS:2720 (Part5)	1 test/400m ³	0	0	0	0	3	3	0	0	3	3	0	0
iii.	Proctor	IS:2720 (Part8)	As required	0	0	0	0	3	3	0	0	3	3	0	0
iv.	Aggregate Impact value	IS:2386 Part-4	As required	0	0	0	0	3	3	0	0	3	3	0	0
v.	Field Density	IS:2720 (Part28)	1 set of 2 Test per 500Sqm	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Specific gravity & Water absorption	IS:2386 (Part2)	As required	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Cubes casting & Testing(Sets)	IRC SP 89 (2010)	a set of 3 specimens	0	0	0	0	0	0	0	0	0	0	0	0



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S. No.	Description	IS Specification Clause	Frequency of Tests	Previous month				This Month				Upto date				
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	
viii.	CBR Test	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0	WMM															
i.	Individual / Combined Gradation	Table 400-3	1 test/200m ³	0	0	0	0	12	12	0	0	12	12	0	0	
ii.	Aggregate Impact Value	IS:2386 Part-4	1 test/ 1000 m ³	0	0	0	0	4	4	0	0	4	4	0	0	
iii.	Flakiness & Elagation index	IS:2386 Part1	1 test/ 500 m ³	0	0	0	0	3	3	0	0	3	3	0	0	
iv.	Atterberg Limits	IS:2720 (Part5)	1 test/200m ³	0	0	0	0	3	3	0	0	3	3	0	0	
v.	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	
vi.	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	
vii.	Field Density	IS:2720 (Part28)	1 set Test per 1000Sq.m / 3 pits	0	0	0	0	0	0	0	0	0	0	0	0	
viii.	Water absorption	IS:2386 Part2	As required	0	0	0	0	2	2	0	0	2	2	0	0	
ix.	Proctor	IS:2720 (Part8)	As required	0	0	0	0	0	0	0	0	0	0	0	0	
x.	CBR	IS:2720 (Part16)	As required	0	0	0	0	0	0	0	0	0	0	0	0	
10.0	Dense Bituminous Macadam (Grade - I)															
i.	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer 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	
ii.	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0	
iii.	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0	



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
iv.	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	0	0	0	0	0	0	0	0	0	0	0	0
v.	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
viii.	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m³	0	0	0	0	0	0	0	0	0	0	0	0
ix.	Stripping	IS : 6241	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
x.	Retained stability	AASHTO 283	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xi.	Retained Tensile Strength	AASHTO 284	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xii.	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
11.0	Dense Bituminous Macadam (Grade - II)														



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
i.	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer 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
ii.	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	0	0	0	0	0	0	0	0	0	0	0	0
v.	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
viii.	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
ix.	Stripping	IS : 6241	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
x.	Retained stability	AASHTO 283	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xi.	Retained Tensile Strength	AASHTO 284	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xii.	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
12.0	Stone Matrix Asphalt - SMA (Grade - I)														
i.	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer 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
ii.	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 100 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 100 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	0	0	0	0	0	0	0	0	0	0	0	0



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v.	Air void and VMA analysis including Gmm	ASTM D 2726/1188	Three Tests per day	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 Test per 250 Sq.m area	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
viii.	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 100 m³	0	0	0	0	0	0	0	0	0	0	0	0
ix.	Stripping	IS : 6241	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
x.	Retained stability	AASHTO 283	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xi.	Retained Tensile Strength	AASHTO 284	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xii.	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xiii.	Polished stone value test	BS:812(Part-114)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
13.0 Bituminous Concrete - BC (Grade -II)															
i.	Gradation	MORTH Section-500/Clause-507 & Table 500-10	One set for individual constituent and mixed aggregate from dryer 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



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
ii.	Flakiness & Elongation Index	IS: 2386 (Part 1)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Aggregate Impact Value Test	IS: 2386 (Part 4)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Binder content and grading of mix	IRC: SP 11-1988(APP-5)	One Test for each 400 tonnes of mix produced subject to a minimum of two test per day per plant	0	0	0	0	0	0	0	0	0	0	0	0
v.	Marshall Stability of mix	ASTM D 2726/1188	3 Tests for stability flow value density and void contents for each 400 tonnes of mix subject to minimum of two Tests per plant per day	0	0	0	0	0	0	0	0	0	0	0	0
vi.	Core Cutting and Density Of Compacted Layer	Table 900-4 of Morth	1 set Test per 700 Sq.m / 1 pits	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Sand Equivalent Test	IS: 2720 Part 37)1963	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
viii.	Los Angeles Abrasion Value	IS: 2386 (Part 3)1963	1 Test for 350 m ³	0	0	0	0	0	0	0	0	0	0	0	0
ix.	Stripping	IS : 6241	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
x.	Retained stability	AASHTO 283	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xi.	Retained Tensile Strength	AASHTO 284	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
xii.	Plasticity Index	IS: 2720(Part 5)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
xiii.	Polished stone value test	BS:812(Part-114)	One Test for each each source	0	0	0	0	0	0	0	0	0	0	0	0
14.0 Bitumen test															
i.	Absolute Viscosity at 60°C poise,Minimum	IS: 1206-1978 part-2	As per table 2 of IS 73-2013	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Penetration Test at 25°C,100gr,0.1mm,5sec	IS: 1203-1978	As per table 2 of IS 73-2013	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Softening point(R&B) Min	IS: 1205-1978	As per table 2 of IS 73-2013	0	0	0	0	0	0	0	0	0	0	0	0
iv.	Flash point(Cleveland open cup)°C,Min	IS: 1209-1978	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
v.	Test on Residue from TFOT			0	0	0	0	0	0	0	0	0	0	0	0
vi.	Viscosity ratio at 60°C max	IS: 1206-1978 part-2	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
vii.	Ductility at 25°C ,cm,Min	IS: 1208-1978	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
15.0 EMULSION SS1 & RS1															
i.	Saybolt furol Viscosity	IS: 3117	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
ii.	Residue on 600 micron is sieve	IS: 8887	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
iii.	Water Content ,Percent by mass	IS: 8887	1 Test per Lot	0	0	0	0	0	0	0	0	0	0	0	0
16.0 EMULSION Prime coat &Tack Coat															
i.	Rate of Spread of Binder	IRC: SP 16	Three test per Day	0	0	0	0	0	0	0	0	0	0	0	0
17.0 Coarse Aggregate MoRT&H 1007															
i.	Gradation	IS:2386 (Part2)	As required	0	0	0	0	30	29	0	1	30	29	0	1
ii.	Specific gravity& Water absorption	IS:2386 (Part3)	As required	0	0	0	0	11	7	0	4	11	7	0	4



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				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
iii.	Aggregate Impact Value	IS:2386 (Part4)	As required	0	0	0	0	10	10	0	0	10	10	0	0
iv.	Flakiness index	IS:2386 (Part1)	As required	0	0	0	0	5	5	0	0	5	5	0	0
v.	Soundness	IS:2386 (Part5)	As required	0	0	0	0	3	3	0	0	3	3	0	0
vi.	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	3	3	0	0	3	3	0	0
vii.	Deleterious constituents	IS:2386 (Part2)	1 test per source	0	0	0	0	3	3	0	0	3	3	0	0
viii.	Petrographic Examination	IS:2386 (Part8)	1 test per source	0	0	0	0	0	0	0	0	0	0	0	0
18.0 Fine Aggregate MoRT&H 1008															
i.	Grade / Sieve analysis	IS:2386 (Part1)	As required	0	0	0	0	31	29	0	2	31	29	0	2
ii.	Specific gravity & Water absorption	IS:2386 (Part2)	As required	0	0	0	0	7	7	0	0	7	7	0	0
iii.	Fineness Modulus	MORTH Sec. 1008&383	As required	0	0	0	0	2	0	0	2	2	0	0	2
iv.	Alkali aggregate reactivity test	IS:2386 (Part-7)IS : 456	1 test per source	0	0	0	0	2	2	0	0	2	2	0	0
19.0 Cement MoRT&H 1006															
i.	Chemical test	IS:4031,4032	1 test per source	0	0	0	0	3	3	0	0	3	3	0	0
ii.	Fineness	IS:4031 (Part1)	500mt (or) Every week	0	0	0	0	52	52	0	0	52	52	0	0
iii.	Normal Consistency	IS:4031 (Part4)	500mt (or) Every week	0	0	0	0	52	52	0	0	52	52	0	0
iv.	Initial,Final setting time	IS:4031 (Part5)	500mt (or) Every week	0	0	0	0	52	52	0	0	52	52	0	0
v.	Soundness of Cement	IS:4031 (Part3)	500mt (or) Every week	0	0	0	0	3	3	0	0	3	3	0	0
vi.	Compressive Strength-set	IS:4031 (Part6)	500mt (or) Every week	0	0	0	0	0	0	0	0	0	0	0	0
	3 days		500mt (or) Every week	0	0	0	0	8	8	0	0	8	8	0	0
	7 days		500mt (or) Every week	0	0	0	0	7	7	0	0	7	7	0	0
	28 days		500mt (or) Every week	0	0	0	0	6	6	0	0	6	6	0	0
vii.	Chemical test	IS 2386	1 test per source	0	0	0	0	3	3	0	0	3	3	0	0



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20.0 Admixture															
i.	Chemical Test	IS 9103	1 test per source	0	0	0	0	2	2	0	0	2	2	0	0
21.0 Steel Third Party															
i.	8 mm Dia	IS 1786	Physical & Chemical Properties (1) Test on first lot. (2) Further supply will be provided with mtc. (3) As required by engineer.	0	0	0	0	3	3	0	0	3	3	0	0
ii.	10 mm Dia	IS 1786		0	0	0	0	4	4	0	0	4	4	0	0
iii.	12 mm Dia	IS 1786		0	0	0	0	4	4	0	0	4	4	0	0
iv.	16 mm Dia	IS 1786		0	0	0	0	4	4	0	0	4	4	0	0
v.	20 mm Dia	IS 1786		0	0	0	0	2	2	0	0	2	2	0	0
vi.	25 mm Dia	IS 1786		0	0	0	0	8	8	0	0	8	8	0	0
vii.	32 mm Dia	IS 1786		0	0	0	0	1	1	0	0	1	1	0	0
22.0 Concrete Cube Strength of Site Cubes															
i. M15 PCC															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	2	1	0	1	2	1	0	1
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
ii. M20 PCC															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
iii. M20 RCC															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
iv. M20 KERB															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
v. M25 RCC															
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0



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	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
vi.	M30 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
vii.	M30 RCC PUMPABLE														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
viii.	M35 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
ix.	M35 RCC PILING														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	74	68	0	6	74	68	0	6
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
x.	M35 RCC PUMPABLE														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1370	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xi.	M40 Prcast Sgment														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	12	8	0	4	12	8	0	4
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xii.	M40 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xiii.	M45 PUMP														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0



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	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xiv.	M50 PUMP														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xv	Cement Grout														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
23.0	BENTONITE														
i.	Density	MORT&H Sec. 1115.2.3	As required	0	0	0	0	75	75	0	0	75	75	0	0
ii.	Marsh Cone Viscosity			0	0	0	0	2	2	0	0	2	2	0	0
iii.	pH Value			0	0	0	0	1	1	0	0	1	1	0	0
iv.	Silt Content			0	0	0	0	1	1	0	0	1	1	0	0
v.	Liquid Limit			0	0	0	0	1	1	0	0	1	1	0	0
24.0	Concrete Cube Strength of Mix Design Cubes														
i.	M15 PCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	18	18	0	0	18	18	0	0
	28Days Compressive Strength			0	0	0	0	18	18	0	0	18	18	0	0
ii.	M20 PCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	3	3	0	0	3	3	0	0
	28Days Compressive Strength			0	0	0	0	3	3	0	0	3	3	0	0
iii.	M20 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
iv.	M20 KERB														



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S. No.	Description	IS Specification Clause	Frequency of Tests	Previous month				This Month				Upto date			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
v.	M25 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	12	12	0	0	12	12	0	0
	28Days Compressive Strength			0	0	0	0	12	12	0	0	12	12	0	0
vi.	M30 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
vii.	M30 RCC PUMPABLE														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	30	30	0	0	30	30	0	0
	28Days Compressive Strength			0	0	0	0	30	30	0	0	30	30	0	0
viii.	M35 RCC														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
ix.	M35 RCC PILING														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	60	60	0	0	60	60	0	0
	28Days Compressive Strength			0	0	0	0	60	60	0	0	60	60	0	0
x.	M35 RCC PUMPABLE														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1370	0	0	0	0	36	36	0	0	36	36	0	0
	28Days Compressive Strength			0	0	0	0	36	36	0	0	36	36	0	0
xi.	M35 RE BLOCK														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	0	0	0	0	0	0	0	0
	28Days Compressive Strength			0	0	0	0	0	0	0	0	0	0	0	0
xii.	M40 RCC														



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S. No.	Description	IS Specification Clause	Frequency of Tests	Previous month				This Month				Upto date			
				No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE	No. of test Conducted	Passed	Failed	Nos. of test witnessed by IE
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	36	36	0	0	36	36	0	0
	28Days Compressive Strength			0	0	0	0	36	36	0	0	36	36	0	0
xiii.	M45 PUMP														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	27	27	0	0	27	27	0	0
	28Days Compressive Strength			0	0	0	0	27	27	0	0	27	27	0	0
xiv.	M50 PUMP														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	96	96	0	0	96	96	0	0
	28Days Compressive Strength			0	0	0	0	96	96	0	0	96	96	0	0
xv.	M40 PRECAST														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	21	21	0	0	21	21	0	0
	28Days Compressive Strength			0	0	0	0	21	21	0	0	21	21	0	0
xvi.	Cement Grout														
	7Days Compressive Strength	IS:516 / IS:456	MORT&H Sec. 1700	0	0	0	0	9	9	0	0	9	9	0	0
	28Days Compressive Strength			0	0	0	0	9	9	0	0	9	9	0	0

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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
A	Balance			
1	100 Kg capacity Semi-Self indicating type-Accuracy 2 gm electronic		2	
2	50 Kg capacity Semi-Self indicating type-Accuracy 1 gm electronic		1	
3	30 Kg capacity Semi-Self indicating type-Accuracy 1 gm Electronic		4	
4	20 Kg capacity Semi-Self indicating type-Accuracy 1 gm Electronic		1	
5	10 Kg capacity Semi-Self indicating type-Accuracy 0.5gm And 0.1gm Electronic		2	
6	7.5 Kg capacity Semi-Self indicating type-Accuracy 0.5gm Electronic		1	
7	6 Kg capacity Semi-Self indicating type-Accuracy 0.5 gm Electronic		1	
8	5 Kg capacity Semi-Self indicating type-Accuracy 0.5 gm and 1 gm Electronic		4	
9	600 gm capacity- semi-self indicating Type Accuracy .01 gm Electronic		2	
10	500 gm capacity- semi-self indicating Type Accuracy .01 gm Electronic		0	
11	Ovens-electrically operated, thermostatically controlled (including thermometer), stainless steel interior		2	
12	Sieves: as per IS:2386 PART I			
13	Test sieve set 450mm internal dia. As per IS complete with lid and pan	IS-460 & ISO-565		
14	100 mm		2	
15	90 mm		1	
16	80 mm		1	
17	75 mm		2	
18	63 mm		2	
19	53 mm		2	
20	50 mm		2	
21	31.5 mm		2	
22	16 mm		2	
23	14 mm		1	
24	11.2mm		2	
25	5.6 mm		2	
26	5.0 mm		2	
27	2.8 mm			
28	Test sieve set 450mm internal dia. As per IS complete with lid and pan	IS-460 & ISO-565		
29	45 mm		2	
30	40 mm		2	
31	37.5 mm		2	
32	26.5 mm		2	
33	25 mm		3	
34	22.4 mm		2	
35	20 mm		4	
36	19 mm		1	
37	13.2 mm		2	
38	12.5 mm		3	
39	10 mm		6	
40	9.5 mm		2	



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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
41	6.3 mm		2	
42	4.75 mm		6	
43	2.36 mm		1	
44	Test sieve set 200mm internal dia(brass frameand brass wire cloth mesh) as per IS complete with lid and pan	IS-460 & ISO-565		
45	2.8mm		3	
46	1.40 mm		1	
47	0.850 mm		3	
48	0.710 mm		3	
49	0.355 mm		3	
50	0.250 mm		2	
51	0.212 mm		2	
52	0.125 mm		2	
53	0.045 mm		4	
54	0.015 mm		5	
55	Test sieve set 200mm internal dia(brass frameand brass wire cloth mesh) as per IS complete with lid and pan	IS-460 & ISO-565		
56	4.75mm		2	
57	2.36 mm		10	
58	2.0 mm		2	
59	1.7 mm		3	
60	1.18 mm		6	
61	0.090 mm		5	
62	Test sieve set 200mm internal dia(brass frame and brass wire cloth mesh) as per IS complete with lid and pan	IS-460 & ISO-565		
63	1.00 mm		4	
64	0.432 mm		1	
65	0.600 mm		8	
66	0.425 mm		7	
67	0.300 mm		7	
68	0.180 mm		6	
69	0.150 mm		4	
70	0.075 mm		13	
71	0.015 mm		2	
72	2000 kN compression testing machine DIGITAL Electric operated	IS-516	1	
73	stop watches 1/5 sec. accuracy		2	
74	Flakiness and Elongation test gauges as per IS:2386, Part-1	IS:2386(part-1)	2	
75	Aggregate Impact Value Test apparatus as per IS 2386(part-iv)	IS:2386(part-4)	1	
76	Glass ware comprising beakers,pipettes,dishes, measuring cylinders(100 to 1000cc capacity glass rods and funnels, glass beakers)			
77	50ml		6	
78	100ml Graduation (0-100mm) - Borosil Make		33	
79	250ml		13	
80	500ml		10	
81	1000ml		7	



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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
82	Beaker - 1000 ml		3	
83	Beaker - 500 ml		13	
84	Beaker - 250 ml		9	
85	Glass rod		8	
86	Hot plates 200mm dia(1500watt)		2	
87	Riffle box of slot size 75mm as per ASTM C-136		1	
88	Riffle box of slot size 50mm as per ASTM C-136		1	
89	Spatula set of 100,200 and 300 mm long		10	5 Small, 5 Big
90	First aid box		2	
91	Enamel TRAYS (600 mm X 450 mm x 50 mm)		9	
92	Enamel trays (300 mm X 300 mm x 40 mm)		6	
93	Enamel trays (300 mm X 450 mm x 40 mm)		3	
94	GI Trays (600mm*600mm*50mm)		1	
95	GI Trays (900 mm X 600 mm x 50 mm)		4	
96	Enamel TRAYS (300 mm X 250 mm x 40 mm)		9	
97	Enamel trays (450 mm X 300 mm x 40 mm)		6	
98	GI Trays (1000 mm X 750 mm x 75 mm)		6	
99	GI Trays (600mm*450mm*50mm)		2	
100	GI Trays (2200 mm X 600 mm x 80 mm)		3	
101	Trays for Tackcoat		16	
102	Hygrometer (Max. / Min. Thermometer with Humidity meter)		4	
103	Rainfall Gauge		2	
104	Rainfall Gauge - Measures		4	
105	PVC WARES			
106	25ml		0	
107	50ml		0	
108	100ml		0	
109	250ml		1	
110	500ml		1	
111	1000ml		2	
112	Funnel		0	
113	Wash bottle		3	
114	Wind Velocity Meter(Amenometer)		0	
115	Scoop Small size (500 gm)		8	
116	Scoop large size (2.0 kg)		3	
117	Scoop Medium size (1.0 kg)		1	
118	Digital Thermometer range (0° to 300°)		7	
119	Dial Thermometer range (0° to 300°)		0	
120	Laser Thermometer range (0° to 300°)			
121	Glass Thermometer range (-10° to 100°)		2	
122	Glass Thermometer range (-10° to 300°)		1	
123	Vernier Callipers calibrated 200 mm (Digital Type)		1	
124	Vernier Callipers calibrated 45cm long Calibrated		1	
125	Steel Tape 5m and 30 meter		1	
126	Standard Weights Calibrated 2000kg, (0.5 kg to 50 kg)-Plant calibration	As required	0	



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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
127	Standard Weights Box Calibrated (1gm to 200gm)		1	
128	Spirit Level		2	
129	Depth Gauge 300 mm		9	
130	Liquid limit and plastic limit - IS-2720 (Part-5)		0	
131	a) Liquid limit device with Casagrande and grooving tools and as per IS:2720	IS-9259	1	
132	b) Single point LL device (Penetrometer)	IS : 11196	0	
133	c) Moisture content containers Aluminium 50 gm capacity		200	
134	c) Moisture content containers Steel 50 gm capacity		25	
135	d) Moisture content containers Aluminium 100 gm capacity		130	
136	e) Plastic Limit Apparatus	IS-2720 (Part-5)	1	
137	Sampling pipettes fitted with pressure and suction inlets, 10ml capacity			
138	Laboratory compaction as per IS-2720(Part-8)			
139	a) Compaction apparatus (heavy) 1000cc mould	IS : 10074	10	
140	b) Compaction apparatus (heavy) 2250cc Mould	IS : 10074	6	
141	c) Compaction hammer (heavy) 4.89 kg rammer	IS : 9198	5	
142	c) Compaction hammer (Light) 2.6 kg rammer	IS : 9198	3	
143	Sand pouring cylinder (100mm) with conical funnel and top and base plate as per IS:2720 (Part-28)			
144	100 mm dia	IS:2720 (Part-28)	4	
145	150 mm dia		5	
146	200 mm dia	IS:2720 (Part-28)	3	
147	Sand Pouring Trays 100 mm	IS:2720 (Part-28)	10	
148	Sand Pouring Trays 150 mm		9	
149	Sand Pouring Trays 200 mm	IS:2720 (Part-28)	8	
150	a) Floor mounted electro-mechanical load frame 5 tone capacity with automatic strain control CBR plunger with penetration dial gauge holder	IS : 9669	1	
151	b) CBR mould complete with collar, base plate, etc.	IS : 9669	61	
152	c) Swell stands for holding dial gauge with dial gauge	IS : 9669		
153	e) Surcharge weight with central hole of 2.5 kg. weight with central hole	IS : 9669	60	
154	e) Surcharge weight with central hole of 5 kg. weight with central hole		5	
155	e) Surcharge weight with central hole of 2.5 kg. weight with slotted hole		64	
156	e) Surcharge weight with central hole of 5 kg. weight with slotted hole		2	
157	f) Spacer disc with handle	IS : 9669	2	
158	g) Perforated brass swell plate with adjustable cap on handle	IS : 9669	63	
159	h) High tensile strain calibrated proving rings of 2.5 kN		1	
160	h) High tensile strain calibrated proving rings of 10 kN		2	
161	h) High tensile strain calibrated proving rings of 25 kN		1	
162	h) High tensile strain calibrated proving rings of 30 kN		1	
163	h) High tensile strain calibrated proving rings of 50 kN		1	
164	i) Dial gauge, 25mm travel-0.01mm/division		9	

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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
165	Speedy moisture tester complete with carrying case and supply of reagent (with 25% dial gauge)	IS:2720 (Part-2)	6	
166	Rubber/Wooden Mallet		7	
167	Cutting Edge 30 cm long		1	
168	FILTER PAPER 150 mm dia		4	
169	Hydrometer for Bentonite density test (graduation 1.00 to 1.2 g/cc)		5	
170	Hydrometer for Soil Grain Size Analysis		0	
171	Direct Shear Testing Machine		1	
172	Nuclear gauge for density and moisture content determination to the requirements of AASHTO 238 AND 239		0	
173	Standard Penetration Test Equipment		0	
174	Unconfined Compression test Apparatus		0	
175	Vicat needle apparatus for setting time with plungers	IS : 5513	1	
176	Moulds		-	
177	a) 150mm x 150mm x 150mm cube moulds	IS:10086	184	
178	b) 70.6mm moulds (each size) as per IS	IS:10080	18	
179	c) 50mm moulds (each size) as per IS	IS:10086	6	
180	d) 100mm x 100mm x 100mm moulds	IS:10086	9	
181	e) 150x150x700mm Beam moulds	IS:10086	0	
182	e) 150x150x750mm Beam moulds		9	
183	f) 150 mm x 300 mm Height cylinder with Capping Set	IS:10086	0	
184	High frequency mortar cube vibrator for cement testing with poking Rod	IS:10080	1	
185	Concrete mixer (Drum Type) power driven, 2 cu.ft. capacity		1	
186	Concrete mixer (Pan Type) power driven, 150 kg. capacity		0	
187	Vibrating Table for PQC Beam Casting 1m X 1m as per relevant British standard		1	
188	Equipment for slump test(C-143)/compacting factor Apparatus complete	IS:1199	-	
189	Slump cone		7	
190	Slump Rod		5	
191	Flow table as per IS:712-1973	IS:1199	0	
192	Equipment for Determination of specific gravity for fine aggregate as per IS:2386(part-3)	IS-2386(Part-II)	7	
193	Equipment for Determination of specific gravity for coarse aggregate as per IS:2386(part-3)	IS-2386(Part-II)	2	
194	Le-chatelier Soundness testing apparatus for cement	IS : 5514	6	
195	Ennore Sand (grade-I,II & III) each	IS : 650	1	
196	Permeability Test Apparatus	For concrete	1	
197	Vibratory Hammer for DLC	MoRT&H	1	
198	Cement Gauging Trowel	IS:10086	4	
199	Temping bar square section with temping face 25 mm and 400 mm long with 2 kg weight.	IS:10086	1	
200	Standard measures of 30, 15, 3 litre capacity along with standard tamping rod	IS:10079	1	
201	Constant Water bath for Marshal test with Digital controller		2	
202	Core Cutting machine (Hilfi Make) 150 mm dia for DLC and PQC		0	
203	Sand Patch test Apparatus (Tinning Measurement)	As per MoRT&H	0	



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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
204	Marsh Cone Apparatus		1	
205	Diesel/Electrical Needle Vibrator with 25mm lead		0	
206	Concrete Penetrometer (Initial Setting Time)	IS:8142	0	
207	Bump Integrator (Roughometer)		0	
208	3 meter Straight edge and measuring wedge		0	
209	Constant temperature bath for accommodating bitumen test specimen , electrically operated, and thermostatically controlled, stainless steel interior, 50 litres capacity, ambient to 100 degree temperature range		0	
210	Bitumen penetrometer automatic type, including adjustable weight arrangement, and needles as per IS 1203	IS:1203	1	
211	PENETRATION CUP (Small)	IS:1203	2	
212	PENETRATION CUP (Big)		0	
213	Soxhlet Extraction or Centrifuge type motorized bitumen extraction apparatus to the requirement of AASHTO T164	AASHTO T164	1	
214	FILTER PAPER		6	
215	AUTOMATIC COMPACTOR FOR MARSHAL TEST-(4" AND 6" DIA. SPECIMEN)-(UNIVERSAL MODEL)		1	
216	a) Marshall compaction Testing apparatus as per ASTM 1559-62 T and complete with electrically operated automatic loading unit, compaction pedestal, breaking assembly for Marshall Stability & Retained tensile Strength (100mm & 150mm), flow meter, load transfer bar and Plate	MS-2, IRC-111-2009 and AASHTO T 283	1	
217	b) compaction pedestal 100 mm and 150mm dia - Each		1	
218	c) Specimen moulds 100 mmdia with base plate, collars		21	
219	c) Specimen moulds 150mm dia with base plate, collars		21	
220	d) compaction hammer 4.53 kgx457 mm fall 100mm		3	
221	d) compaction hammer 150 mm dia		3	
222	f) Distance Reading Digital Thermometer range (0° to 300°)		0	
223	h) Breaking Head 100mm		2	
224	h) Breaking Head 150mm		2	
225	Ring and ball Apparatus as per IS 1205 with stirrer and all Accessories	IS:1205	1	
226	Ring and ball - Accessories		2	
227	SAYBOLT Floro Viscometer for Emulsion	IS-3117	0	
228	SAYBOLT Emulsion - 60ml borosil		4	
229	Core cutting machine Diesel operated / Electrical operated (Hilti Preferably) with barrel (30mm long) and diamond cutting Bit		0	
230	Extra 10cm dia diamond cutting edge (Bit) without Barrel		0	
231	Extra 15cm dia diamond cutting edge (Bit) without barrel		0	
232	Apparatus for Determination of specific Gravity IS-1202 (50ml and 100ml)	IS:1208	5	
233	Maximum specific gravity Apparatus for - 5 lts bottle capacity	ASTM D2041 & IRC-111	1	
234	Maximum specific gravity Apparatus for - 2 lts bottle capacity		0	
235	Vaccum Pump		1	
236	Viscosity Test Apparatus including water bath and viscosity tubes for Absolute and Kinematic viscosity as per IS -1206(part-II & III) with calibration Certificate of Tubes (Micro cotroller)	IS - 1206(part-II & III)	0	
237	Viscosity Test Apparatus - Absolute viscosity Tube		0	

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Sl. No	Equipment Name	Reference Code	Qty.	Remarks
238	Viscosity Test Apparatus - Kinematic viscosity Tube		0	
239	Bitumen laboratory mixer including required accessories (20 litres.)		0	
240	Freeze Temperature Maintaining -25°C to 50°C		1	
241	Marshall mould demouder (Pressure type)		1	
242	Thin film oven test apparatus to the requirement of AASHTO T 179 including accessories (for Modified Bitumen)	AASHTO T 179	1	
243	Apparatus for Determination of ductility test as per IS 1208 with Elastic Recovery Mould (for Modified Bitumen)	IS:1208	0	
244	Ductility test -Mould		0	
245	Elastic Recovery test -Mould		0	
246	Flash Point Apparatus	IS:1209	0	
247	Soxhlet Bitumen Impurities test apparatus		0	
248	Calcium Carbide (Box)		4	
249	Gas Stove Single Burner		3	
250	Trowels Big and Medium		8	
251	Concrete Finisher		13	
252	Spade		0	
253	Crowbar and Gaity		1	
254	Ground glass plate with rounded edges 600mmx600mmx10mm		2	
255	Spoon Medium size		2	
256	Local Filter Paper		0	
257	French Curve		2	
258	Computer With Printer		1	
259	Stationeries, Almirah and Racks		2	Almirah
260	AC (2 tons capacity)		1	
261	Hand Gloves (asbestos and Rubber)		4	
262	Gas Stove Double Burner		1	
263	Heating Pans		2	
264	density Spoon		4	
265	Spoons		2	
266	Emersion Rod		3	
267	Spirit level		2	
268	Chiesel		13	
269	Hammer		7	
270	Enamel Pot		5	
271	Blower Heater		0	
272	Green Net (Bundle)		0	
273	White Marker Board (2ft X 3ft)		1	
274	Metal ramp plate for core cutting machine Loading and unloading		0	
275	Water Heater		4	
276	PH Meter Range (0 to 14)		1	
277	MS Rack (Old)		3	
278	Cauldron (Kadai) Small Size		1	
279	Cauldron (Kadai) Big Size		1	



Project-

Delhi – Vadodara Greenfield Alignment (Pkg. No-30) from Ch.351+000 to Ch. 372+500.

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11.11 Weather Report

WEATHER REPORT – September'2021								
Sl. No.	Date	Temperature °C		Humidity (%)		Rainfall (mm)	Cum. Rainfall (mm)	Weather Condition
		Max	Min	Max	Min			
1	01-09-2021	27.40	26.30	63.00	59.00	0.00	484.10	cloudy
2	02-09-2021	27.50	26.70	63.00	61.00	0.00	484.10	cloudy
3	03-09-2021	27.50	26.30	64.00	59.00	0.00	484.10	cloudy
4	04-09-2021	28.50	25.70	61.00	56.00	0.00	484.10	cloudy
5	05-09-2021	28.30	27.10	62.00	58.00	0.00	484.10	cloudy
6	06-09-2021	29.00	27.30	69.00	75.00	0.00	484.10	cloudy
7	07-09-2021	29.30	26.30	75.00	61.00	10.20	494.30	cloudy/Rain
8	08-09-2021	27.20	26.40	75.00	70.00	58.50	552.80	cloudy/Rain
9	09-09-2021	27.00	26.30	71.00	70.00	22.00	574.80	cloudy/Rain
10	10-09-2021	26.80	25.20	75.00	70.00	62.00	636.80	Rain
11	11-09-2021	27.70	26.60	76.00	70.00	71.50	708.30	Rain
12	12-09-2021	28.40	27.70	68.00	67.00	18.00	726.30	Rain
13	13-09-2021	26.10	28.20	71.00	65.00	9.50	735.80	Rain
14	14-09-2021	26.10	28.20	71.00	65.00	7.20	743.00	cloudy/Rain
15	15-09-2021	26.20	24.80	65.00	61.00	3.50	746.50	cloudy/Rain
16	16-09-2021	26.30	25.60	75.00	73.00	55.60	802.10	Rain
17	17-09-2021	26.10	24.40	74.00	71.00	8.00	810.10	cloudy/Rain
18	18-09-2021	27.40	25.90	71.00	66.00	4.00	814.10	cloudy/Rain
19	19-09-2021	26.30	23.80	77.00	70.00	10.00	824.10	cloudy/Rain
20	20-09-2021	26.50	24.90	75.00	73.00	22.30	846.40	cloudy/Rain
21	21-09-2021	26.90	24.80	79.00	75.00	42.40	888.80	cloudy/Rain
22	22-09-2021	28.70	26.90	74.00	66.00	0.00	888.80	cloudy
23	23-09-2021	26.80	23.10	71.00	67.00	16.40	905.20	cloudy/Rain
24	24-09-2021	27.50	25.40	72.00	71.00	0.00	905.20	Cloudy
25	25-09-2021	27.90	26.00	68.00	67.00	5.20	910.40	Cloudy
26	26-09-2021	39.80	26.10	70.00	68.00	15.50	925.90	cloudy/Rain
27	27-09-2021	28.60	27.10	71.00	64.00	8.60	934.50	cloudy/Rain
28	28-09-2021	28.50	26.80	70.00	63.00	16.50	951.00	cloudy/Rain
29	29-09-2021	28.90	27.00	67.00	64.00	0.00	951.00	Cloudy
30	30-09-2021	28.50	26.90	69.00	66.00	0.00	951.00	cloudy/Sunny



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Monthly Progress Report

11.12 Photographs

Site office , Camp & Plant & Machinery





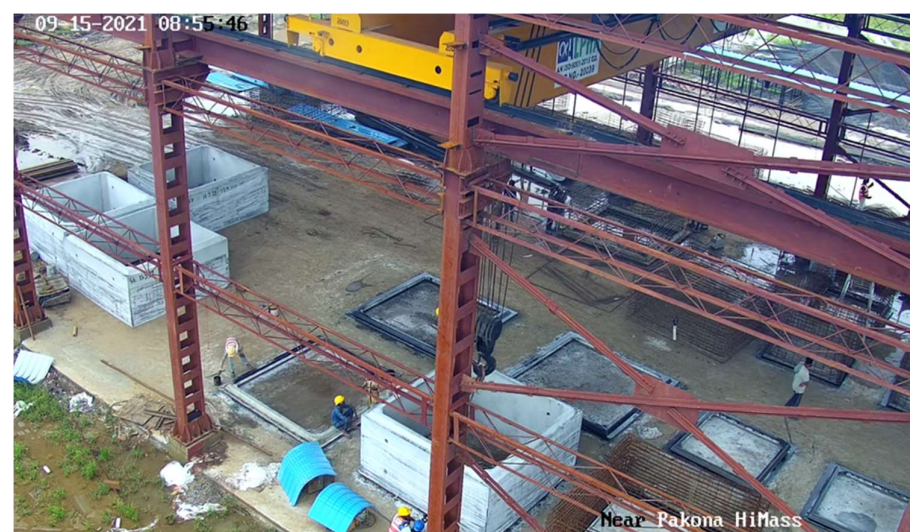
Project-
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Monthly Progress Report

Site office , Camp & Plant & Machinery





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Camp & Plant & Machinery





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Girder Casting Yard/Pakona plant/batching plant

