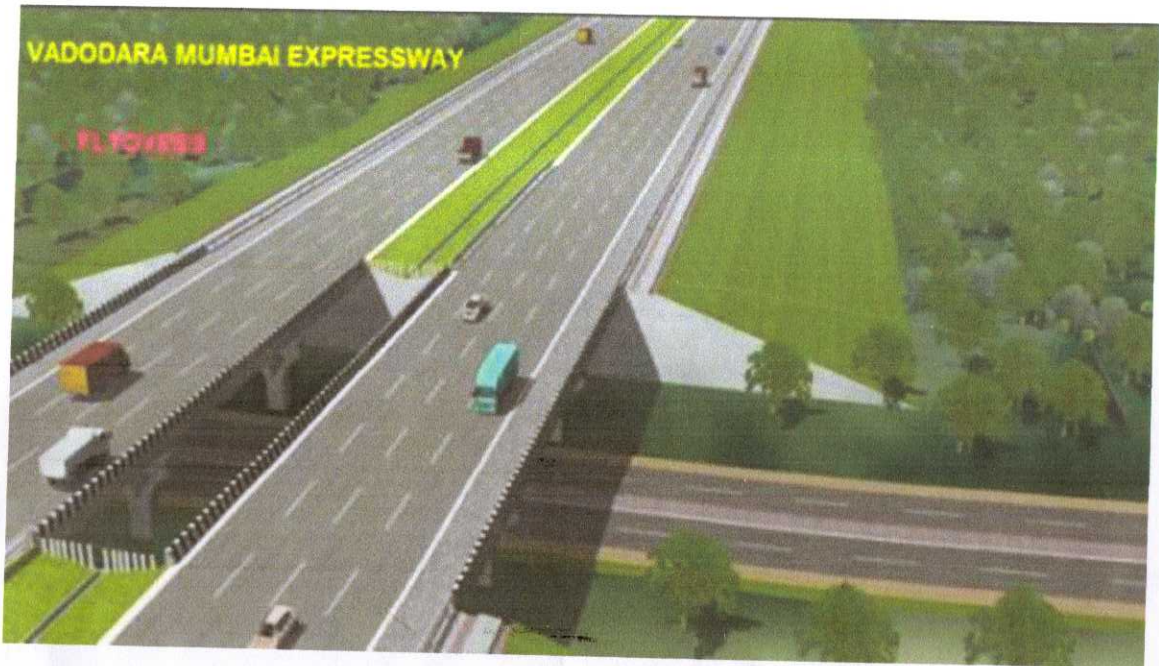


# MONTHLY PROGRESS REPORT

## SEPTEMBER-2019



Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase- VI on Hybrid Annuity mode (Phase-IA-Package II)

### Concessionaire:



**IRCON INTERNATIONAL LIMITED**

(A Government of India Undertaking)

### EPC Contractor:



Every Milestone is Our Value

**PATEL INFRASTRUCTURE LIMITED**

PATEL HOUSE, CHANNI, VADODARA



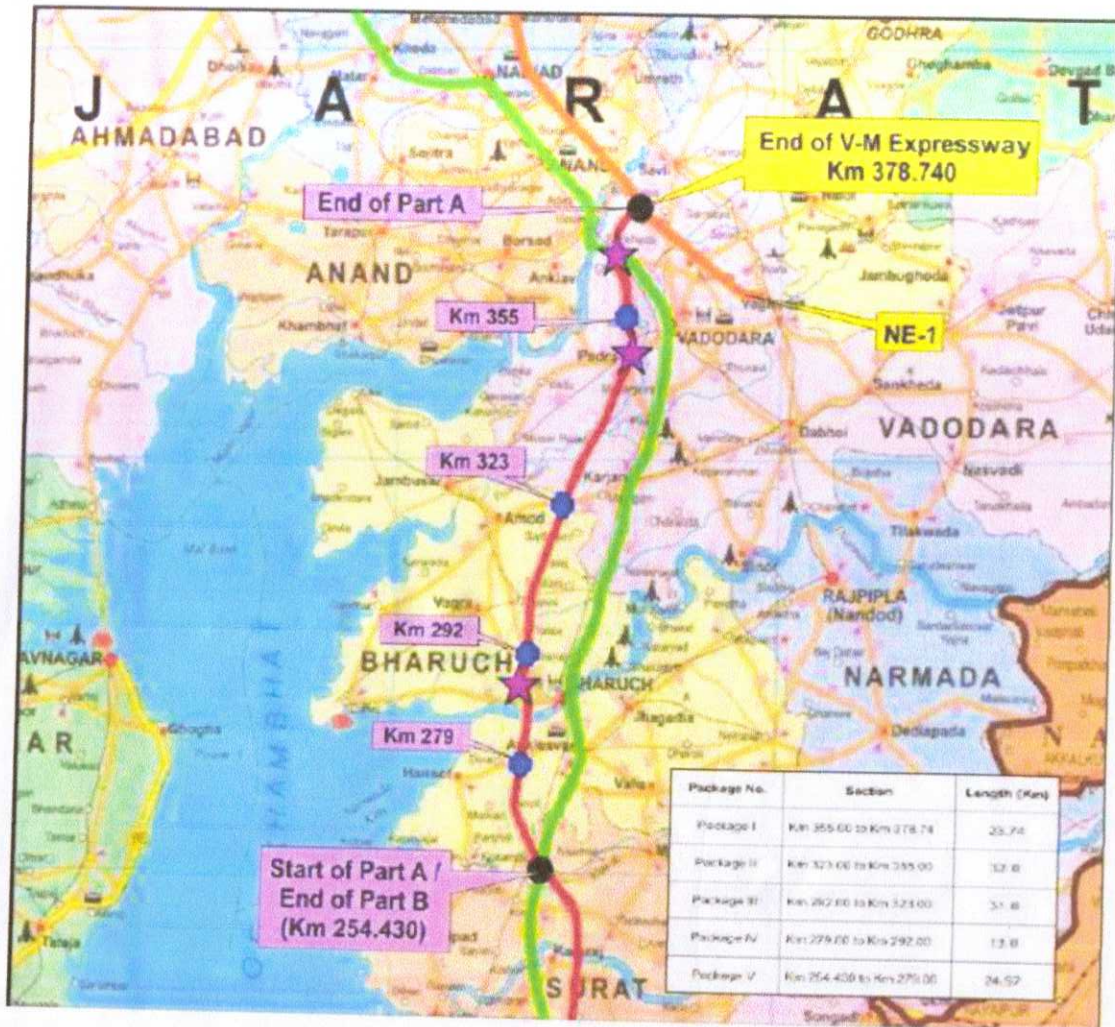
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## I. LOCATION PLAN & KEY PLAN

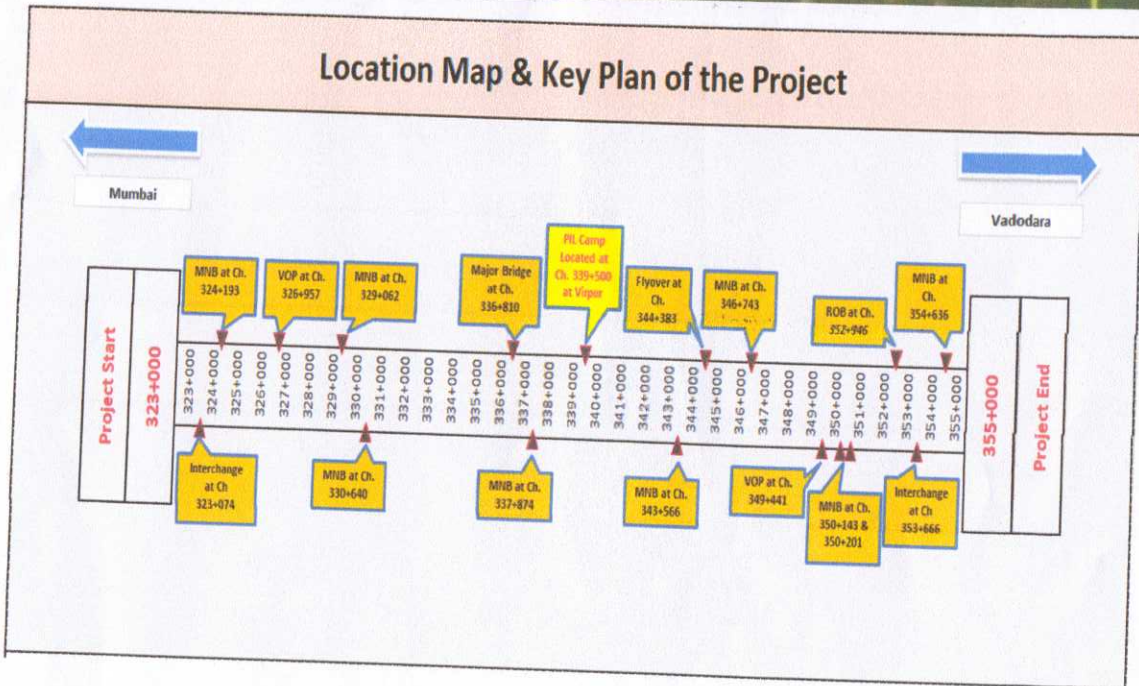
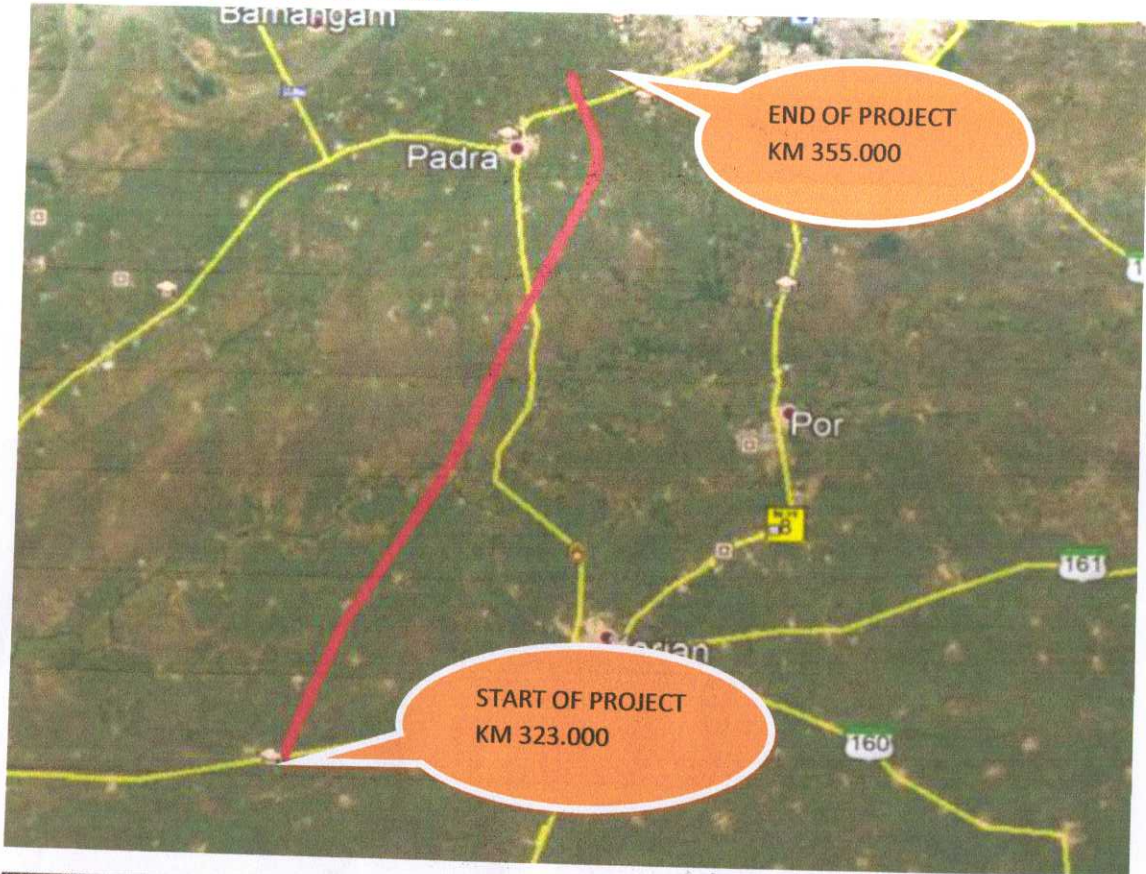
### A. Key plan of Expressway





Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
 National Highway Authority of India (NHDP Phase VI)  
 IRCON International Limited

B. KEY PLAN OF PROJECT





## II. EXECUTIVE SUMMARY

### A. Project Synopsis

National Highways Authority of India (NHAI) in concession agreement with IRCON Vadodara Kim Expressway Limited (IVKEL) has undertaken the construction of new alignment 8-lane express from Sanpa to Padra from Km 323.000 to 355.000 (Length 32.00 Km) in the State of Gujarat under NHDP Phase-VI Package II. M/s Patel Infrastructure Limited (PIL) has been awarded by IVKEL for the construction of Eight Lane Vadodara Kim Expressway on EPC Mode.

The 8-lane controlled access expressway traverses through two districts viz. Karjan and Vadodara in Gujarat State. These districts are rich in industrial production. There are many industrial estates and factories both in public and private sector. The alignment starts near Sanpa at km 323+000 and passes through major villages Bodaka, Kanabha, Handod, Sambhoi, Survada, Sadad, Husepur, Amla, Sarsavani, Goriyad, Ghayaj, Darapur, Patod, Sokhada, Samiyala and it ends at Gokalpura village near Vadodara at km 355.000.

The expressway comprises of rigid pavement for Main Carriageway and flexible pavement for the Connecting road. The Expressway alignment runs almost parallel to existing NH 48 on west side. It includes the construction of bridges, underpasses, overpasses, ROB, Flyover, intersections, Connecting roads, culverts, related infrastructure such as Truck parking, rest areas, toll plaza, wayside amenities, and also involves the installation of Advance Traffic Management system.

The road passes through plain and rolling terrain. Land use is mostly agricultural with Black Cotton soil. The entire length of the project road falls in the state of Gujarat under Vadodara District. The Function of expressway is to cater for movement of heavy volume of motor traffic at high speeds. They connect major points of traffic generation and are intended to serve trips of medium and long length between large residential areas, industrial, commercial concentrations, and the central business districts. They are divided highways with high standards of geometric and full or partial control of access and provided generally with grade separation at intersections. Parking, loading and unloading of goods, passengers and pedestrian traffic is not permitted on these highways.

This report covers the progress for the month of September 2019. The Embankment work of the main carriageway has been continued and 21.05 Km out of 30.54 Km is in progress. The Executive summary of the reporting month of September 2019 is shown below.

Executive Summary of the Project		
Sl. No	Key Reporting Metrics	Value/%/Amount
1	Cumulative Scheduled Physical Progress (%)	20.47%
2	Cumulative Achieved Physical Progress up to Current month (%)	21.30%
3	Physical progress target during current month (%)	6.12%
4	Physical progress achieved during current month (%)	5.80%
5	Cumulative scheduled financial Progress (%)	20.47%



Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
National Highway Authority of India (NHDP Phase VI)  
IRCON International Limited

<b>Executive Summary of the Project</b>		
<b>Sl. No</b>	<b>Key Reporting Metrics</b>	<b>Value/%/Amount</b>
6	Cumulative Achieved Financial Progress up to Current month (%)	10.15%
7	Financial progress target during current month (%)	6.12%
8	Financial progress achieved during current month (%)	2.95%



### III. PROJECT OVERVIEW

Project	Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode (Package-II)
Authority	National Highways Authority of India
Concessionaire	IRCON Vadodara Kim Expressway Limited
EPC Contractor	IRCON International Limited
Contractor	Patel Infrastructure Limited
Independent Engineer	Aarvee Associates Architects Engineers & Consultants
Project Length	32.00 Km
Total Bid Project Cost	1465.00 Cr.
Defect liability Period	42 month
Construction Period	670 Days from the Appointed Date.
Date of LOA	26.10.2018
Date of Concession Agreement	19.11.2018
Appointed Date	31.01.2019
Schedule Date of Competition	30.11.2020

#### A. Milestones as per CA:

Sr. No.	Project Milestone	Required % of Physical & Financial Work Completion to Achieve Milestone	Date of Milestone as per CA	Proposed Date of Milestone	Financial Progress
1	Milestone - 1	20%	30/06/2019	30/09/2019	292.998
2	Milestone - 2	35%	27/12/2019	31/01/2020	512.746
3	Milestone - 3	75%	25/04/2020	31/07/2020	1098.743
4	Milestone - 4	100%	01/12/2020	01/12/2020	1464.999



B. Details of Typical Cross section

SR. NO.	Chainage as per CA		Chainage as per P&P		TCS TYPE
	To	From	To	From	
1	323+000	323+530	323+000	323+530	TCS 4/structure
2	323+530	323+700	323+530	323+700	TCS 5
3	323+700	329+300	323+700	329+300	TCS 1
4	329+300	329+400	329+300	329+400	TCS 2
5	329+400	331+850	329+400	331+825	TCS 1
6	331+850	332+050	331+825	332+020	TCS 3
7	332+050	334+325	332+020	334+325	TCS 1
8	334+325	334+430	334+325	334+430	TCS 2
9	334+430	337+050	334+430	337+050	TCS 1
10	337+050	337+500	337+050	337+500	TCS 2
11	337+500	341+500	337+500	341+550	TCS 1
12	341+500	341+760	341+550	341+810	TCS 2
13	341+760	343+870	341+810	343+850	TCS 1
14	343+870	344+000	343+850	344+000	TCS 3
15	344+000	344+550	344+000	344+460	TCS 7/Structure
16	344+550	344+750	344+460	344+750	TCS 6
17	344+750	346+750	344+750	346+725	TCS 1
18	346+750	347+150	346+725	347+150	TCS 3
19	347+150	353+050	347+150	353+050	TCS 1
20	353+050	353+550	353+050	353+550	TCS 5
21	353+550	354+850	353+550	354+850	TCS 1
22	354+850	355+000	354+850	355+000	TCS 2



**C. Details of MCW:**

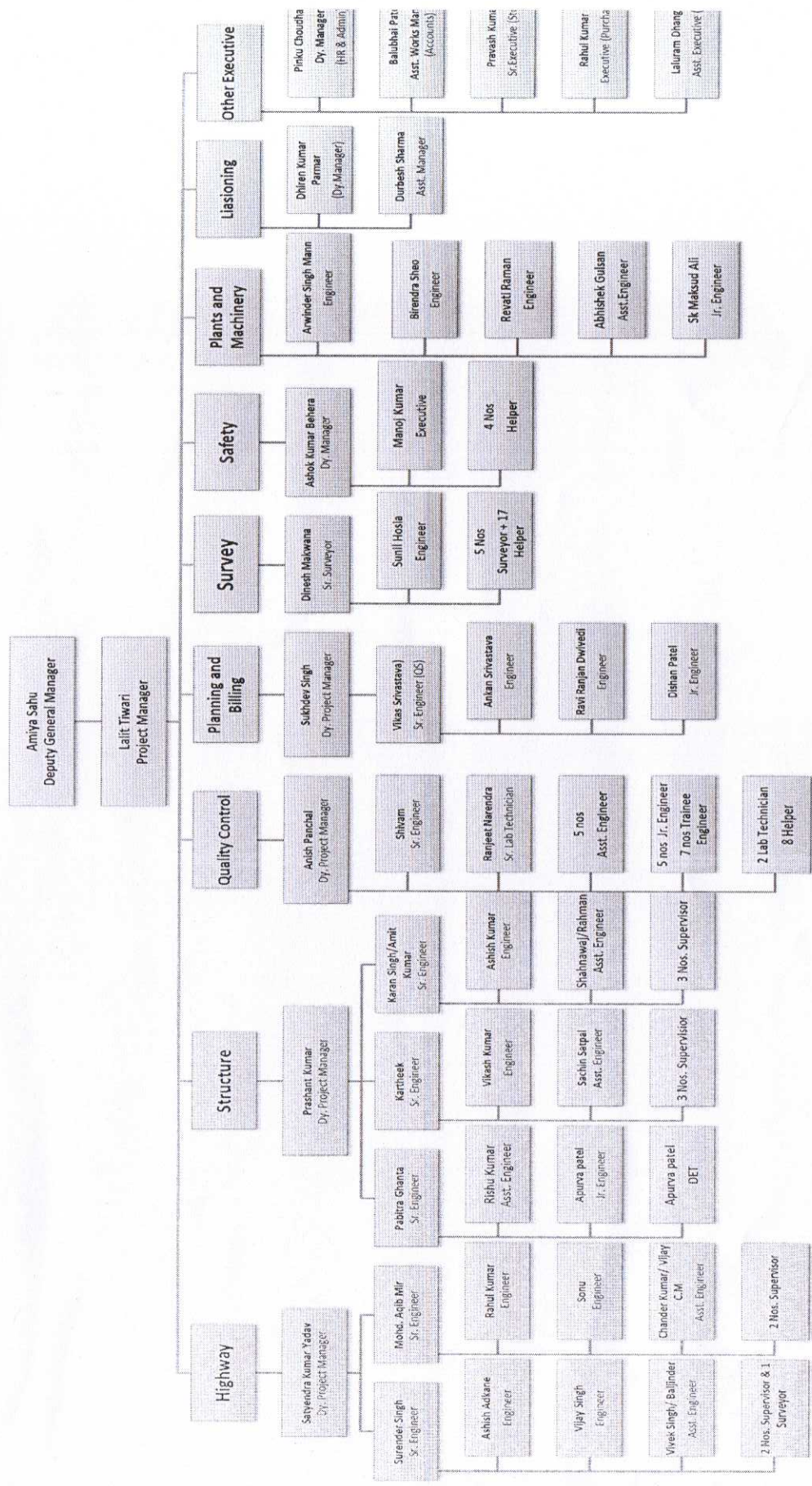
Sr. No.	Description	Length (in Km)
1	Embankment	30.54 Km
2	Sub grade	30.54 Km
3	G.S.B	30.54 Km
4	D.L.C	30.54 Km
5	P.Q.C	30.54 Km

**D. Details of Structures:**

S. No.	Type of Structure	Details
1	Major Bridge	01 Nos. – (6X42.20mtr)
2	Flyover	01 Nos. – (1X22.627+1X42.065+1X22.627mtr)
3	Interchange	02 Nos. (1X16.9+1X47.2+1X16.9mtr) & (1x48.2+2x (25+25+25.788mtr)
4	ROB	01 Nos. – (2X37.20mtr)
5	Minor bridges	09 Nos.
6	Vehicular underpass	05 Nos. – (1X12mtr)
7	Light Vehicular Underpasses	08 Nos. – (1X12mtr)
8	Culverts (HP/BC)	94 Nos. (42 Nos. Pipe / 52 Nos. Box)
9	CUP	34 Nos. (1X12mtr)
10	Vehicular Overpass	02 Nos. – (2x48.221mtr, 2X41.350mtr)
<b>Total</b>		<b>157</b>



# E. ORGANIZATION CHART





F. Details of Plant and Machinery Deployed:

Plant and Machinery Monthly Deployment Status					
Sl. No	Equipment	Unit	Avg. Planned	Actual	Remarks, If any
1	Back Hoe Loader	Nos	1	8	
2	Excavator	Nos	4	6	
3	Motor Grader	Nos	4	2	
4	Vibratory Roller/Soil Compactor	Nos	4	2	
5	Wet Mix Paver	Nos	0	0	
6	Wet Mix Plant	Nos	0	1	
7	DLC Paver	Nos	0	0	
8	PQC Paver	Nos	0	0	
9	Hot Mix Plant	Nos	0	0	
10	Bitumen Paver	Nos	0	0	
11	Bitumen Sprayer	Nos	0	0	
12	Boomer	Nos	0	0	
13	Tandem Roller	Nos	0	0	
14	Pneumatic Tyre Roller	Nos	0	0	
15	Dumpers/Tippers	Nos	17	20	
16	FE Loaders/Dozer	Nos	1	3	
17	Water Tanker	Nos	4	13	
18	Compressor	Nos	0	0	
19	Concrete Batching Plant	Nos	1	6	
20	Transit Mixers	Nos	4	14	
21	Concrete Pump + Boom placer	Nos	1	2	
22	Kerb Machine	Nos	0	0	
23	Crusher - 250 MT	Nos	1	0	
24	Weigh Bridge	Nos	4	2	
25	Tractor	Nos	3	7	
26	Diesel Tanker	Nos	2	3	
27	Tempo	Nos	3	0	
28	Tower Light	Nos	4	4	
29	Hydra Crane	Nos	2	6	
30	Vibratory Rammer	Nos	2	0	
31	Dewatering Pump (Portable)	Nos	5	6	
32	Baby Roller	Nos	2	2	
33	Trailer / Platform Truck	Nos	1	3	
34	Vibrator (Needle Type)	Nos	4	8	
35	Kerb Cutter	Nos	2	0	



G. Details of Applicable Permits:

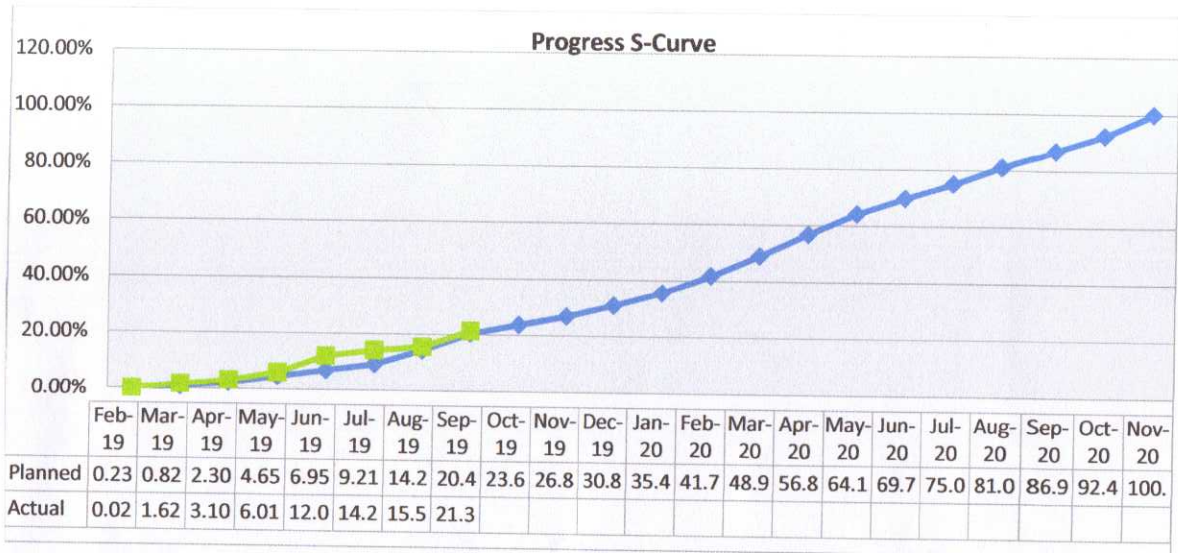
<b>Status of Applicable Permits (As per Schedule F) as on September 2019</b>				
<b>Sl. No</b>	<b>Description</b>	<b>Status</b>	<b>Receiving Date</b>	<b>Remarks</b>
1	Permission of the State Government for extraction of boulders from quarry for and in respect of at least 20 (twenty) percent of the total length of the project;	Received	06.12.2018	
2	Permission of Village Panchayats and Pollution Control Board for installation of crushers;	Received	16.10.2018	
3	License for use of explosives;	Received	16.01.2017	Valid up to 31.03.2023
4	Permission of the State Government for drawing water from river/reservoir;	NA	NA	As per CGWA guidelines, for ground water extraction up to 100 cum /day NOC not required.
5	License from inspector of factories or other competent authority for setting up batching plant;	Applied		
6	Clearance of Pollution Control Board for setting up batching plant;	Received	20/04/2019	
7	Clearance of Village Panchayats and Pollution Control Board for setting up asphalt plant;	NA	NA	
8	Permission of Village Panchayats and State Government for borrow earth	Received		Submitted with relevant Borrow Area.
9	Other permits or clearances required under Applicable Laws.	NA	NA	

#### IV. Project Progress

##### A. Physical Progress:

The Physical percentage of the work done is calculated is based on the assigned weight-ages revised on 25<sup>th</sup> July 2019 to the overall scope of the work.

The physical percentage achieved is 21.3% as on 30<sup>th</sup> Sep 2019.



Given below is the summary status of the works executed as on 30<sup>th</sup> September 2019.

##### B. Highway Progress:

Sr. No.	Item	Unit	Scope of work	Completed	Work in Progress	Balance work
1	C & G	Km	30.52	21.05	5.53	3.94
2	Embankment	Km	30.52	11.00	10.05	9.47
3	Sub grade	Km	30.52	5.26	5.74	19.52
4	GSB	Km	30.52	0	0	30.52
5	DLC	Km	30.52	0	0	30.52
6	PQC	Km	30.52	0	0	30.52

Refer **Annexure 1**: Calculation of Physical Progress and **Annexure -2**: Strip Plan showing progress of Expressway for details.



C. Structure Progress:

Sr. No.	Structure	Unit	Scope	Completed	In Progress	Balance
1	Major Bridge	Nos.	1	0	1	0
2	CUP	Nos.	34	0	34	0
3	Minor Bridge	Nos.	4(Open)	0	4	0
			5 (Pile)	0	5	0
4	Box Culvert	Nos.	52	14	1	37
5	Pipe Culvert	Nos.	42	40	2	0
6	Vehicular Underpass	Nos.	5	0	5	0
7	Light Vehicular Underpass	Nos.	8	0	8	0
8	Flyover	Nos.	1	0	1	0
9	ROB	Nos.	1	0	0	1
10A	Interchange at 323+074	Nos.	1	0	1	0
10B	Interchange at 353+660	Nos.	1	0	1	0
11	Vehicular Overpass	Km	2	0	2	0

Refer **Annexure 1**: Calculation of Physical Progress and **Annexure -2**: Strip Plan showing progress of Expressway for details.

## V. Status of Land Acquisition

- Total land for which compensation was paid by NHAI/CALA as on 30<sup>th</sup> September 2019 is **96.875%** i.e. **30.220 Km.** out of total 32 km.
- Length of various utilities(hindrances) falling in the clear length of 30.220 km are **5.390 Km**

Details of above utilities and their affected length of road are given below.

Details of Hindrances	Hindered Length in meter	Remarks
Total Hindered length due to Electrical Utilities	2310	Annexure 3A
Total Hindered length due to water pipeline etc.	255	Annexure 3B
Total Hindered length due to Structures such as house, shelters etc.	185	Annexure 3C
Total Hindered Area due to Disputed Land	1780	Annexure 3D
Total Hindered length due to Gas lines	820	Annexure 3E
Total Hindered length due to Religious Structures	40	Annexure 3F
<b>Grand Total</b>	<b>5,390</b>	

- Net unencumbered/Unhindered length of road = **30.220 – 5.390 = 24.830 km. i.e. 82.16%.**
- Action taken by M/s. PIL: We are continuously corresponding with Concessionaire and related Authorities for shifting of utilities and Land acquisition Issues.



## VI. UTILITY SHIFTING

Status of Utilities in Package II of Vadodara Kim Expressway		
Utilities	Nos.	Status
MGVCL	-	Out of 44 estimates, 39 are now approved by SE/MGVCL and sent to NHAI. NHAI further sent the same to IE on 10.08.2019 for verification & comments, if any. IE vide letter dated 31 Aug. 2019 raised some observations which are complied and is under review by IE now. A meeting held with CE/MGVCL along with PD/Bharuch on 16.09.2019 on the issues of supervision charges of 15% as against 2.5% (as per NHAI guidelines) wherein PD/Bharuch is advised by CE/MGVCL to pursue this matter with GERC (Gujarat Electricity Regulatory Commission) for final decision. A letter from PD/Bharuch needs to be issued to Chairman & Secretary/GERC for further discussions.
GETCO	8	Revised Estimate sent to PIU Bharuch which is then forwarded to IE for review. IE has given observations for some additional documents. In meeting with SE/GETCO on 7th Sept. 2019, duly signed drawings, undertakings, joint site survey report etc. in the prescribed format, and duly signed copy of SOR handed over to PIU, Bharuch which needs to be sent to IE for review.
PGCIL	1	PGCIL sent the Estimate to PIU, Surat. As informed by PGCIL, a request letter from NHAI needs to be sent to PGCIL for submission of additional documents like duly signed copies of SOR, Joint site inspection report, Check list etc. As informed by PIU, Surat (vide letter dated 01.06.2019), a joint site inspection already done by PGCIL but on insistence of PGCIL, a site inspection re-done on 07.09.2019 jointly with PGCIL, IE and Concessionaire and report signed by all.
TORRENT	1	After getting confirmation from IE to go with Option-1 and getting a desired undertaking from Concessionaire that there will be no financial claim on account of delay caused by Torrent in shifting of lines under Option-1, PIU sent the estimates to IE for review & comments, if any. All documents as desired by IE (joint site inspection report, check list, strip plan, undertakings etc.) are sent by Torrent to PIU/Bharuch
GWSSB	4	Final estimate duly verified by IE is lying at PIU, Bharuch for further action.
ONGC	10	After conducting survey of lines by ONGC nominated committee on 07.08.2019, a meeting was held on 09.08.2019 at their Ankleshwar office for some clarification. Discussed the matter of getting "work permission" from ONGC with their GM Sh. Rao on 17.09.2019 and came to know that because of ONGC well which is coming at a distance of 10 mtr from our ROW as against 50 mtr as desired by ONGC, the matter has been referred to Ministry of Petroleum for further guidance.



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National Highway Authority of India (NHDP Phase VI)  
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GAIL	3	As per advise of PIU/NHAI, Concessionaire has sent a request letter along with GADs of affected structures to PIU/NHAI for further intimation to GAIL Authorities regarding the construction of these affected structures. PIU Bharuch also sent duly signed GADs of affected structures to GAIL. A meeting held with Sh. Joshi, GM along with PD/Bharuch wherein it has been advised by GAIL Authority to give a presentation on how expressway crossings GAIL pipelines and then the further action plan shall be discussed. Presentation is likely to be given by 19/20 Sept. 2019.
GSPL	2	Necessary insurance add-on cover regarding special contingency liability as per the requirement of GSPL has been ensured and the same is already intimated to GSPL officially. Agreements duly signed by PIU Bharuch has been sent to GSPL. A site visit is done on 07.09.2019 to complete the process of agreement between NHAI & GSPL for issue of work permit. Some discrepancies are observed in the agreement by GSPL which is being corrected and shall be sent by PIU, Bharuch to GSPL in 2-3 days.
SSNNL	21	Met SE/SSNNL & team with Dy. Manager/PIU Bharuch on 28.08.2019 and explained our issues of Supervision Charges, Annual rental charges & Insurance Charges. As advised by SE/SSNNL, PIU Bharuch has sent a letter elaborating all points discussed in the meeting along with some documents of other departments like GWSSB received for supervision charges and also deposited processing fee and caution money. Final decision from SSNNL on supervision charges and other issues is awaited.



**VII. STATUS OF DESIGN & DRAWING**

S. No	Type of Structure	Total scope (No's)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balance to be review by IE	Chain-age	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on	Present Status
1	Interchange	2	2	0	2	323+075	PIL/HO/VKE2/IRCON/577/2019 Dt. 13.08.2019	-	-	Pending With IE
						353+666	PIL/HO/VKP2/IRCON/580/2019 dt. 17.08.2019	-	-	Pending With IE
2	Major Bridge	1	1	0	1	336+830	Submitted to IE-Ho By SES by mail of dt. 19.06.2019	-	-	Pending With IE
						326+957	PIL/HO/VKP2/IRCON/604/2019 Dt. 28.08.2019	-	-	Pending With IE
3	VOP	2	2	0	2	349+441	PIL/HO/VKP2/IRCON/183/2019 dt. 20.03.2019	IRCON/3019/VKE/PATEL/370 dt. 03.05.2019	-	Pending With PIL
						324+193	IRCON/3019/VKE/PATEL/761 dt. 23.08.2019	-	-	Pending With IE
4	Minor Bridge	9	9	2	7	329+062	Submitted to IE-Ho By SES by mail of dt. 25.05.2019	IE Letter no. 459 - 31.05.2019 & Ircon letter no. 489 dt. 11.06.2019	-	Approved by IE
						330+630	PIL/HO/VKP2/IRCON/330/2019 Dt. 11.05.2019	-	-	Pending With IE
						337+874	Submitted to IE-Ho By SES by mail of dt. 25.05.2019	IE letter no. 459 dt. 31.05.2019 & Ircon letter no. 489 dt. 11.06.2019	-	Approved by IE

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
National Highway Authority of India (NHDP Phase VI)  
IRCON International Limited

S. No	Type of Structure	Total scope (No's)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balance to be review by IE	Chain-age	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on	Present Status
						343+500	PIL/HOM/KP2/IRCON/322/2019 Dt. 09.05.2019	IRCON/3019/V/KE/P ATEL/490 dt. 11.06.2019, IE letter no. 460 - 31.05.2019		Pending With PIL
						346+743	R1 - PIL/HOM/KP2/IRCON/563/2019 Dt. 07.08.2019	-		Pending With IE
						350+143	PIL/HOM/KP2/IRCON/324/2019 Dt. 09.05.2019	IRCON/3019/V/KE/P ATEL/495 dt. 11.06.2019, IE letter no. 482 - 06.06.2019		Pending With PIL
						350+201	PIL/HOM/KP2/IRCON/229/2019 Dt. 04.04.2019	IRCON/3019/V/KE/P ATEL/493 dt. 11.06.2019, IE letter no. 479 - 06.06.2019		Pending With PIL
						354+636	PIL/HOM/KP2/IE/562/2019 Dt. 07.08.2019	-		Pending With IE
5	Flyover	1	1	0	1	344+360	PIL/HOM/KP2/IRCON/593/2019 Dt. 23.08.2019	-	-	Pending With IE
6	ROB	1	1	0	1	352+945	PIL/HOM/KP2/IRCON/520/2019 Dt. 15.07.2019 & PIL/HOM/KP2/IRCON/579/2019 Dt. 17.08.2019	-	-	Pending With IE
7	VUP	5	4	3	1	330+402	Yet to submit.	-	-	Pending With PIL

Monthly Progress Report-Sep-2019

Patel Infrastructure Limited



Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
National Highway Authority of India (NHDP Phase VI)  
IRCON International Limited

S. No	Type of Structure	Total scope (No's)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balance to be review by IE	Chain-age	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on	Present Status
						331+822	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Approved by IE
						335+402	Submitted to IE-Ho By SES by mail of dt. 28.05.2019	-	-	Pending With IE
						341+826	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/509/2019 Dt. 10.07.2019	Approved by IE
						351+284	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Approved by IE
8	LVUP	8	8	2	6	-	4 nos. submitted by mail on dt. 26.05.2019, 2 nos. submitted by letter no. 519 dt. 12.07.2019, 2 nos. (High Skew angle) submitted by letter no. 15.03.2019	2 nos. Approved by IRCON Letter no. 758 dt. 23.08.2019	-	2 nos. Approved by IRCON Letter no. 758 dt. 23.08.2019
9	PUP/CUP	34	34	30	4	-	26 nos. submitted by letter no. 381 dated 28.05.2019, 4 nos. submitted by Mail on date 29.05.2019, 3 nos. by mail dt. 26.05.2019, 1 nos. by mail dt. 28.05.2019	26 Nos. (IE letter no. 471 dt. 01.06.2019, IRCON letter no. 492 dt. 11.06.2019), 4 Nos. (IE letter no. 470 dt. 01.06.2019, IRCON letter no. 491 dt. 11.06.2019)	-	30 nos. Approved By IE, 4 nos. pending

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
National Highway Authority of India (NHDP Phase VI)  
IRCON International Limited

S. No	Type of Structure	Total scope (No's)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balance to be review by IE	Chain-age	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on	Present Status
10	Box Culvert	52	48	20	28	-	20 nos. bt letter no. 371 dt. 24.05.2019, 4 nos. by mail dt. 01.06.2019, 4 nos. by mail dt. 15.05.2019, 1 nos. by mail dt. 16.05.2019, 9 nos. by mail dt. 28.05.2019, 3 nos. by mail dt. 29.05.2019, 7 nos. by mail dt. 31.05.2019	20 nos. approved in M.O.M - 14.05.2019 to 17.05.2019, other 28 are pending with IE		20 nos. approved in M.O.M - 14.05.2019 to 17.05.2019, other 28 are pending with IE
11	Pipe Culvert	42	42	0	42	-	42 Nos. Submitted by PIL/HO/VKE2/IRCON/362/2019 Dt. 24.05.2019	42 nos. IRCON/3019/VKE/P ATEL/476 dt. 06.06.2019	42 Nos. Submitted by PIL/HO/VKE2/IRCON/499/2019 Dt. 02.07.2019	Pending With IE
	<b>Total =</b>	<b>157</b>	<b>152</b>	<b>57</b>	<b>95</b>					



VIII. Weather report for the month of Sep'19

S. No.	DATE	TEMPRATURE (°C)		HUMIDITY (%)		RAIN FALL (mm)	CUMMULATIVE RAINFALL (mm)	WEATHER	REMARKS	
		Min.	Max.	Min.	Max.					
1	01-Sep-19	28.80	33.70	66.00	94.00	5.00	5.00			
2	02-Sep-19	28.70	33.40	70.00	95.00	-	5.00			
3	03-Sep-19	29.00	32.90	69.00	98.00	-	5.00			
4	04-Sep-19	26.80	32.90	70.00	99.00	54.50	59.50			
5	05-Sep-19	28.10	33.10	73.00	94.00	12.00	71.50			
6	06-Sep-19	28.10	33.40	71.00	94.00	-	71.50			
7	07-Sep-19	28.10	33.60	71.00	94.00	-	71.50			
8	08-Sep-19	29.10	33.30	71.00	94.00	-	71.50			
9	09-Sep-19	27.40	30.80	88.00	99.00	78.10	149.60			
10	10-Sep-19	27.10	28.90	92.00	99.00	70.00	219.60			
11	11-Sep-19	27.80	30.20	87.00	99.00	-	219.60			
12	12-Sep-19	27.90	31.40	82.00	99.00	-	219.60			
13	13-Sep-19	28.20	29.50	87.00	99.00	2.20	221.80			
14	14-Sep-19	27.80	30.20	87.00	99.00	-	221.80			
15	15-Sep-19	27.80	30.70	83.00	99.00	-	221.80			
16	16-Sep-19	27.20	30.60	79.00	99.00	-	221.80			
17	17-Sep-19	27.20	33.90	66.00	99.00	-	221.80			
18	18-Sep-19	26.70	32.80	67.00	99.00	4.50	226.30			
19	19-Sep-19	27.00	32.70	74.00	99.00	-	226.30			
20	20-Sep-19	27.30	32.50	73.00	99.00	22.20	248.50			
21	21-Sep-19	27.50	32.50	69.00	99.00	5.00	253.50			
22	22-Sep-19	26.40	33.10	65.00	99.00	92.00	345.50			
23	23-Sep-19	26.50	34.10	71.00	94.00	34.00	379.50			
24	24-Sep-19	26.10	33.70	78.00	96.00	-	379.50			
25	25-Sep-19	26.40	33.50	66.00	99.00	64.00	443.50			
26	26-Sep-19	24.00	32.00	69.00	98.00	42.00	485.50			
27	27-Sep-19	24.30	31.80	63.00	87.00	52.00	537.50			
28	28-Sep-19	25.10	32.40	65.00	99.00	10.00	547.50			
29	29-Sep-19	27.60	30.70	77.00	94.00	32.00	579.50			
30	30-Sep-19	25.30	29.50	62.00	96.00	67.00	646.50			
<b>Cumulative Rainfall Till Date</b>							<b>2,304.40</b>	<b>mm</b>		

IX. Status of RFI

<b>MONTH :- September 2019</b>				
<b>S. No.</b>	<b>Total RFI</b>	<b>Approved RFI</b>	<b>RFI Re-submitted after corrections suggested</b>	<b>Remarks</b>
<b><u>Highway</u></b>				
1	343	0	0	
<b><u>Structure</u></b>				
1	1252	855	145	
<b><u>Laboratory (QA/QC)</u></b>				
1	4	4	0	
<b><u>Survey</u></b>				
1	0	0	0	



**X. Summary Of Tests Conducted For The Month Of September- 19**

S. No	Description of Test	No. of Test Conducted up to previous month				No. of Test Conducted during this Month					Cumulative Total			Remarks
		No. of Test Conducted	Results		No. of Test Conducted	I.E. Witness	Results		No. of Test Conducted	Results				
			Passed	Failed			Passed	Failed		Passed	Failed			
<b>OGL</b>														
1	Proctor Test	226	226	0	0	0	0	0	0	226	226	0	0	Frequency of testing is as per specification
2	LL/PI	226	226	0	0	0	0	0	0	226	226	0	0	
3	Sand Content (GSA)	226	226	0	0	0	0	0	0	226	226	0	0	
4	Free Swell Index	226	226	0	0	0	0	0	0	226	226	0	0	
5	C.B.R	30	30	0	0	0	0	0	0	30	30	0	0	
<b>Shoulder</b>														
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	LL/PI	0	0	0	0	0	0	0	0	0	0	0	0	
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	0	0	
4	Free Swell Index	0	0	0	0	0	0	0	0	0	0	0	0	
5	C.B.R	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Existing Site Sample (MCW/SR)</b>														

S. No	Description of Test	No. of Test Conducted up to previous month				No. of Test Conducted during this Month				Cumulative Total			Remarks
		No. of Test Conducted	Results		No. of Test Conducted	I.E. Witness	No. of Test Conducted	Results		Passed	Failed	Failed	
			Passed	Failed				Passed	Failed				
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	LL/PI	0	0	0	0	0	0	0	0	0	0	0	
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	0	
4	Free Swell Index	0	0	0	0	0	0	0	0	0	0	0	
5	C.B.R	0	0	0	0	0	0	0	0	0	0	0	
Borrow Materials													
1	Proctor Test	2545	2545	0	10	10	0	0	5	2555	2555	0	Frequency of testing is as per specification
2	LL/PI	2545	2545	0	10	10	0	0	5	2555	2555	0	
3	Sand Content (GSA)	2545	2545	0	10	10	0	0	5	2555	2555	0	
4	Free Swell Index	2545	2545	0	10	10	0	0	5	2555	2555	0	
5	C.B.R	485	473	12	25	24	1	15	15	510	497	13	
6	C.B.R (Soil Blended with Sand)	6	0	6	0	0	0	0	0	6	0	6	



Soil Stabilization											
1	Proctor Test	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	LL/PI	0	0	0	0	0	0	0	0	0	0
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0
4	Free Swell Index	0	0	0	0	0	0	0	0	0	0
5	C.B.R	0	0	0	0	0	0	0	0	0	0
Granular Sub Base											
1	Proctor Test	8	8	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	Gradation	94	91	3	42	40	2	12	136	8	5
3	LL/PI	91	91	0	42	40	2	12	133	131	2
4	10% fines Value	2	2	0	0	0	0	0	2	2	0
5	AIV	10	10	0	0	0	0	0	10	10	0
6	C.B.R	8	8	0	0	0	0	0	8	8	0
Wet Mix Macadam											
1	Proctor Test	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	Gradation	0	0	0	0	0	0	0	0	0	0
3	LL/PI	0	0	0	0	0	0	0	0	0	0
4	A.I.V.	0	0	0	0	0	0	0	0	0	0





Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
 National Highway Authority of India (NHDP Phase VI)  
 IRCON International Limited

	7 Days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	M-20 Concrete																		
	7 Days	295	295	0	113	113	0	32	408	408	0	408	408	0	0	0	0	0	0
	28 days	686	686	0	287	287	0	113	973	973	0	973	973	0	0	0	0	0	0
4	M-25 Concrete																		
	7 Days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	M-30 Concrete																		
	7 Days	69	69	0	41	41	0	11	110	110	0	110	110	0	0	0	0	0	0
	28 days	140	140	0	201	201	0	168	341	341	0	341	341	0	0	0	0	0	0
6	M-35 (Pile)																		
	7 Days	202	202	0	218	218	0	146	420	420	0	420	420	0	0	0	0	0	0
	28 days	663	663	0	1816	1816	0	1246	2479	2479	0	2479	2479	0	0	0	0	0	0
	M-35 (RCC)																		
	7 Days	66	66	0	112	112	0	56	178	178	0	178	178	0	0	0	0	0	0
	28 days	299	299	0	688	688	0	482	987	987	0	987	987	0	0	0	0	0	0

Monthly Progress Report-Sep 2019























Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00  
National Highway Authority of India (NHDP Phase VI)  
IRCON International Limited

3	Hot Mix Plant	0	0	0	0	0	0	0	0	0	0	0	0
4	Rapid Moisture Meter	8	8	0	0	0	0	8	8	0	0	0	0
5	Sand Pouring Cylinder	22	22	0	0	0	0	22	22	0	0	0	0
6	C.T.M.	2	2	0	0	0	0	2	2	0	0	0	0
7	F.T.M.	1	1	0	0	0	0	1	1	0	0	0	0
8	Weight & Balance	9	9	0	0	0	0	9	9	0	0	0	0
9	Prooving rings												
	a) 2.5 KN	1	1	0	0	0	0	1	1	0	0	0	0
	b) 25 KN	1	1	0	0	0	0	1	1	0	0	0	0
	c) 50 KN	1	1	0	0	0	0	1	1	0	0	0	0
	d) 100 KN	0	0	0	0	0	0	0	0	0	0	0	0
10	Hot Mix Linnhoff 320	0	0	0	0	0	0	0	0	0	0	0	0
Field Density Test													
1	O.G.L.	2987	2982	5	5			2987	2982	5	5		
2	Embankment	3353	3340	13	13			3353	3340	13	13		
3	Subgrade	0	0	0	0			0	0	0	0		
4	G.S.B	333	331	2	2			333	331	2	2		
5	W.M.M	0	0	0	0			0	0	0	0		
Frequency of testing is as per specification													





## Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 355.00

### Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 9/26/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
<b>1</b>	<b>Road Works</b>					
	Clearing and grubbing of -MCW	Km	30.52	0.040%	21.05	0.03%
	Construction of embankment upto 1 mtr	Km	30.52	6.51%	12.01	2.56%
	Construction of embankment from 1 mtr - 2 mtr	Km	30.52	5.46%	10.45	1.87%
	Construction of embankment from 2 mtr - 3 mtr	Km	30.52	5.46%	7.34	1.31%
	Construction of embankment from 3 mtr - Emb Top	Km	30.52	4.37%	5.16	0.74%
	Construction of Sub grade - MCW	Km	30.52	2.00%	4.60	0.30%
	Constructing Grannular Sub-base	Km	30.52	2.95%		
	Medians	Km	30.52	0.21%		
	Shoulders	Km	61.04	0.44%		
	DLC	Km	30.52	3.98%		
	PQC	Km	30.52	17.69%		
<b>2</b>	<b>Pipe Culverts</b>					
	Culvert Excavation	Nos	42	0.03%	42	0.03%
	Culvert PCC M15 grade	Nos	42	0.05%	42	0.05%
	Providing , laying and jointing NP4 Hume pipes for culverts	Nos	42	1.69%	42	1.69%
<b>3</b>	<b>Box Culvert</b>					
	Culvert Excavation	Nos	52	0.02%	22	0.01%
	Culvert PCC M15 grade	Nos	52	0.17%	19	0.06%
	Foundation RCC M 30 - Culvert	Nos	52	0.65%	17	0.21%
	Substructre RCC M 30 - Culvert	Nos	104	0.73%	15	0.11%
	Super Structure RCC M 30 - Culvert	Nos	52	0.60%	14	0.16%
<b>4</b>	<b>CUP/PUP</b>					
	Structure excavation Ordinary and soft Soils - PUP	Nos	34	0.08%	34	0.08%
	PUP - PCC M15 grade Levelling course	Nos	34	0.19%	32	0.18%
	PUP - RCC M35 Raft	Nos	34	2.51%	24	1.77%
	PUP RCC M35 Wall	Nos	68	1.11%	10	0.16%
	PUP - RCC M35 - TOP Slab	Nos	34	1.56%		
<b>5</b>	<b>LVUP/VUP</b>					
	Structure excavation Ordinary and soft Soils - VUP	Nos	13	0.03%	12	0.03%
	VUP - PCC M15 grade - Levelling course	Nos	13	0.07%	12	0.06%
	VUP - RCC M35 - Raft	Nos	13	1.00%	10	0.77%
	VUP - RCC M35 - WALL	Nos	26	0.68%		
	RCC M35 - TOP SLAB	Nos	13	0.41%		
<b>6</b>	<b>Connecting Roads</b>					
	Construction of Subgrade course	Km	4.385	0.08%		
	Construction of GSB Course	Km	4.385	0.15%		
	Constructing Wet Mix Macadam base	Km	4.385	0.20%		
	Dense Bituminous Macadam course- Connecting road	Km	4.385	0.19%		
	Bituminous Concrete - Connecting Road	Km	4.385	0.14%		
<b>7</b>	<b>Retaining Wall+Toe Wall</b>					
	Excavation of Retaining Wall + Toe Wall	Km	3.305	0.04%	0.92	0.01%
	PCC Retaining Wall + Toe Wall	Km	3.305	0.09%	0.9	0.02%
	Retaining Wall + Toe Wall	Km	3.305	4.29%	0.775	1.01%
<b>8</b>	<b>VOP at Chainage 326+986</b>					
	Excavation for foundation	Nos	3	0.027%	3	0.03%
	Pile Foundation	Nos	14	0.040%	14	0.04%
	Pile Foundation Cap	Nos	3	0.062%	2	0.04%
	Abutment	Nos	2	0.008%		
	PIER	Nos	1	0.005%		
	Abutment/Pier Cap	Nos	3	0.012%		
	Girder	Nos	8	0.063%		
	Deck Slab	Nos	2	0.033%		
	Finishing Works	Nos	1	0.010%		
<b>9</b>	<b>VOP at Chainage 349+441</b>					
	Excavation for foundation	Nos	3	0.027%	3	0.03%
	Pile Foundation	Nos	21	0.040%	21	0.04%
	Pile Foundation Cap	Nos	3	0.062%	3	0.06%
	Abutment	Nos	2	0.008%		
	PIER	Nos	1	0.005%		
	Abutment/Pier Cap	Nos	3	0.012%		
	Girder	Nos	8	0.063%		
	Deck Slab	Nos	2	0.033%		
	Finishing Works	Nos	1	0.010%		



## Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 355.00

### Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 9/26/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
<b>10</b>	<b>Flyover at Ch. 344+360</b>					
	Excavation for foundation	Nos	8	0.069%	4	0.03%
	Pile Foundation	Nos	92	0.336%	92	0.34%
	Pile Foundation Cap	Nos	8	0.165%	3	0.06%
	Abutment	Nos	24	0.077%		
	PIER	Nos	24	0.077%		
	Abutment/Pier Cap	Nos	8	0.016%		
	Girder	Nos	42	0.168%		
	Deck Slab	Nos	6	0.098%		
	Finishing Works	Nos	1	0.084%		
<b>11</b>	<b>Major Bridge at Ch. 336+830</b>					
	Excavation for foundation	Nos	14	0.230%	4	0.07%
	Pile Foundation	Nos	228	0.765%	63	0.21%
	Pile Foundation Cap	Nos	14	0.535%	1	0.04%
	Abutment	Nos	2	0.204%		
	PIER	Nos	30	0.204%		
	Abutment/Pier Cap	Nos	14	0.102%		
	Girder	Nos	84	0.557%		
	Deck Slab	Nos	12	0.325%		
	Finishing Works	Nos	1	0.278%		
<b>12</b>	<b>ROB at Ch. 352+926</b>					
	Excavation for foundation	Nos	6	0.115%		
	Pile Foundation	Nos	60	0.385%		
	Pile Foundation Cap	Nos	6	0.270%		
	Abutment	Nos	12	0.128%		
	PIER	Nos	6	0.128%		
	Abutment/Pier Cap	Nos	6	0.064%		
	Girder	Nos	40	0.701%		
	Deck Slab	Nos	4	0.409%		
	Finishing Works	Nos	1	0.350%		
<b>13</b>	<b>Interchnage at Ch. 323+074</b>					
	Excavation for foundation & PCC	Nos	8	0.190%	8	0.19%
	Pile Foundation	Nos	80	0.570%	80	0.57%
	Pile Foundation Cap	Nos	8	0.380%	8	0.38%
	Abutment	Nos	12	0.056%		
	PIER	Nos	12	0.123%		
	Abutment/Pier Cap	Nos	8	0.056%		
	Girder	Nos	42	0.054%		
	Deck Slab	Nos	6	0.126%		
	Finishing Works	Nos	1	0.198%		
<b>14</b>	<b>Interchnage at Ch. 353+666</b>					
	Excavation for foundation & PCC	Nos	16	0.380%	16	0.38%
	Pile Foundation	Nos	200	2.565%	200	2.57%
	Pile Foundation Cap	Nos	16	0.665%	9	0.37%
	Abutment	Nos	14	0.291%		
	PIER	Nos	42	0.414%		
	Abutment/Pier Cap	Nos	16	0.180%		
	Girder	Nos	84	0.180%		
	Deck Slab	Nos	14	0.414%		
	Finishing Works	Nos	1	0.828%		
<b>15</b>	<b>Minor Bridge at Ch. 324+193</b>					
	Excavation for foundation	Nos	4	0.025%	4	0.03%
	Pile Foundation	Nos	32	0.210%	32	0.21%
	Pile Foundation Cap	Nos	4	0.116%	1	0.03%
	Abutment (RCC Wall Type)	Nos	4	0.103%		
	Abutment/Pier Cap	Nos	4	0.044%		
	Girder	Nos	14	0.037%		
	Deck Slab	Nos	2	0.046%		
	Finishing Works	Nos	1	0.057%		
<b>16</b>	<b>Minor Bridge at Ch. 329+062</b>					
	Excavation for foundation	Nos	1	0.046%	1	0.05%
	PCC	Nos	1	0.070%	1	0.07%
	Raft	Nos	1	0.235%	1	0.24%
	Wall	Nos	2	0.146%		
	Slab	Nos	1	0.088%		
	Finishing Works	Nos	1	0.054%		



## Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 355.00

### Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 9/26/2019

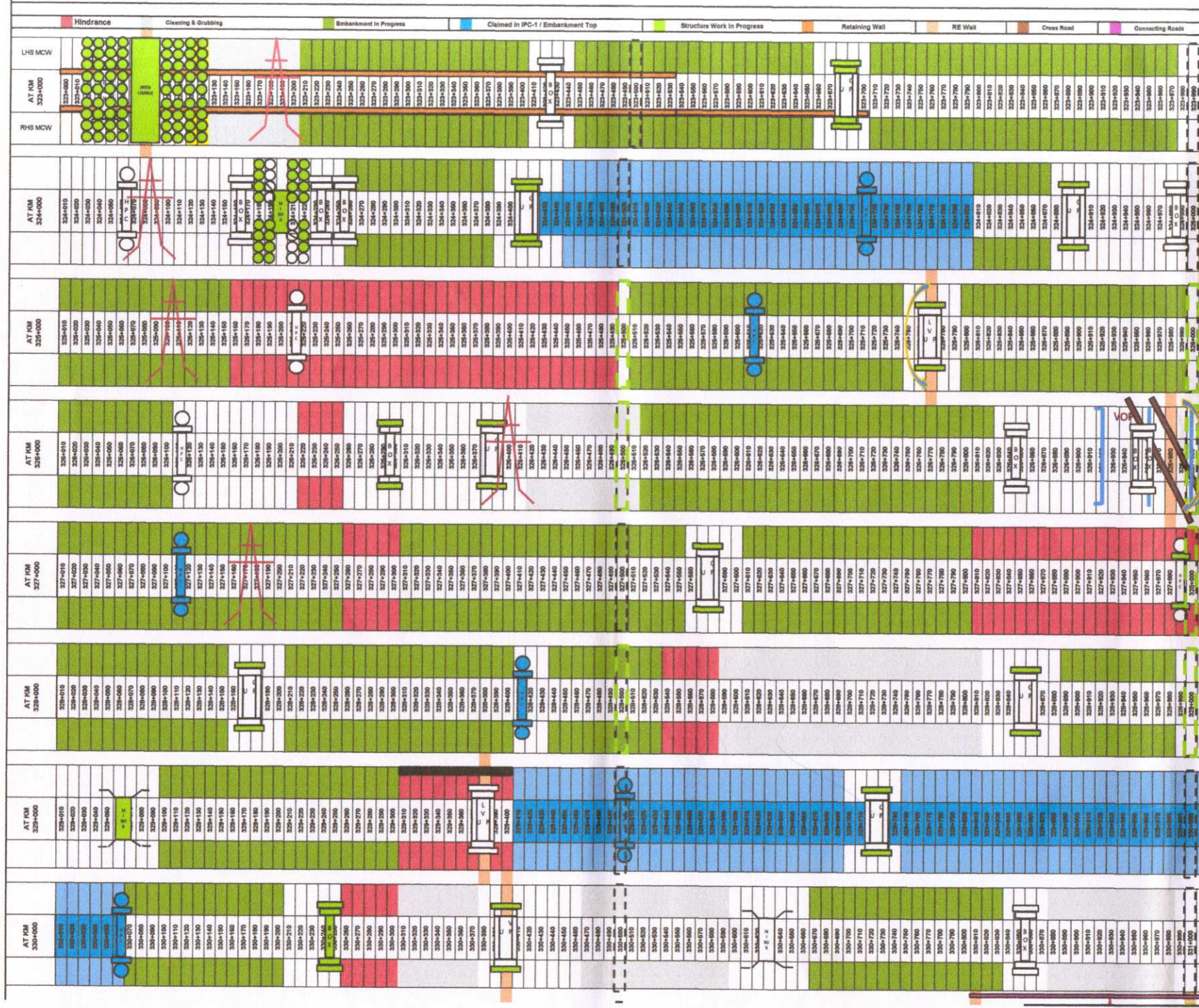
Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
<b>17</b>	<b>Minor Bridge at Ch. 330+630</b>					
	Pile Foundation	Nos	72	0.351%	55	0.27%
	Abutment	Nos	72	0.103%		
	Abutment/Pier Cap	Nos	8	0.044%		
	Girder	Nos	56	0.040%		
	Deck Slab	Nos	4	0.046%		
	Finishing Works	Nos	1	0.057%		
<b>18</b>	<b>Minor Bridge at 337+874</b>					
	Excavation for foundation	Nos	1	0.046%	1	0.05%
	PCC	Nos	1	0.070%	1	0.07%
	Raft	Nos	1	0.235%	1	0.24%
	Wall	Nos	2	0.146%		
	Slab	Nos	1	0.088%		
	Finishing Works	Nos	1	0.054%		
<b>19</b>	<b>Minor Bridge at 343+566</b>					
	Pile Foundation	Nos	125	0.351%	60	0.17%
	Abutment	Nos	125	0.103%		
	Abutment/Pier Cap	Nos	8	0.044%		
	Girder	Nos	109	0.040%		
	Deck Slab	Nos	8	0.046%		
	Finishing Works	Nos	1	0.057%		
<b>20</b>	<b>Minor Bridge at 346+743</b>					
	Excavation for foundation	Nos	1	0.046%	1	0.05%
	PCC	Nos	1	0.070%	1	0.07%
	Raft	Nos	1	0.235%		0.00%
	Wall	Nos	2	0.146%		
	Slab	Nos	1	0.088%		
	Finishing Works	Nos	1	0.054%		
<b>21</b>	<b>Minor Bridge at Ch. 350+143</b>					
	Pile Foundation	Nos	14	0.351%	14	0.35%
	Abutment	Nos	14	0.103%		
	Abutment/Pier Cap	Nos	4	0.044%		
	Girder	Nos	14	0.040%		
	Deck Slab	Nos	2	0.046%		
	Finishing Works	Nos	1	0.057%		
<b>22</b>	<b>Minor Bridge at Ch. 350+201</b>					
	Excavation for foundation	Nos	4	0.046%	3	0.03%
	PCC	Nos	4	0.070%	2	0.04%
	Raft	Nos	4	0.235%	1	0.06%
	Wall	Nos	4	0.147%		
	Slab	Nos	2	0.108%		
	Finishing Works	Nos	1	0.034%		
<b>23</b>	<b>Minor Bridge at Ch. 354+636</b>					
	Pile Foundation	Nos	56	0.352%	50	0.31%
	Abutment	Nos	56	0.103%		
	Abutment/Pier Cap	Nos	8	0.044%		
	Girder	Nos	50	0.040%		
	Deck Slab	Nos	4	0.046%		
	Finishing Works	Nos	1	0.057%		
<b>24</b>	<b>Toll Plaza</b>					
	Operation & Office building at toll plaza	Nos	2	0.170%		
	Roof over Toll plaza	Nos	2	0.396%		
	Providing and fixing of Tool booth	Nos	2	0.170%		
	Toll plaza sign boards	Nos	2	0.453%		
	Toll Plaza Facilities	Nos	2	1.641%		
<b>25</b>	<b>DRAINAGE</b>					
	Construction of Drains	Km	30.52	1.060%		
<b>26</b>	<b>Traffic signs, Road markings and other road appurtunences</b>					
	Road signs, markings, Km stones, Road Delineators, Reflective Pavement Markers & Solar Studs, Traffic Impact Attenuators, Road Boundary Stone, Kilometer and Hectometer Stone	km	32	0.870%		
	Pavement marking	km	64			
	Providing and erecting " Thrie " metal beam crash barrier	km	30.52	1.080%		
<b>27</b>	<b>Project facilities</b>					



Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 355.00						
Physical Progress						
Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD				Date:- 9/26/2019		
EPC Contractor:- Patel Infrastructure Ltd.						
Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
	Rest Areas	LS	2	1.600%		
	Providing operational and maintenance Center	Nos	2	0.400%		
	Providing lighting including all	KM	32	1.220%		
	Providing Advanced Traffic Management Systems (ATMS)	Km.	32	0.510%		
	Providing & Placing Noise Barrier	Km	9.3	0.260%		
	Providing Rain Water Harvesting	Km	62	0.060%		
	Providing Chain Link Fencing in ROW	Km	30.52	1.080%		
	Providing min 600 mm dia NP4 pipes across the road for utility work	Nos.	61	0.180%	17	0.05%
<b>28</b>	<b>Land Scaping and Tree plantation</b>					
	Land Scaping and Tree plantation	Km	30.52	0.110%		
<b>29</b>	<b>RE Walls</b>					
	Reinforced Earth Walls at Flyover and VOP - Blocks Casting	Sqm	35787	0.900%	9631.67	0.24%
	Reinforced Earth Walls at Flyover and VOP - Blocks laying	Sqm	35787	0.600%		
<b>30</b>	<b>Boulder pitchin on slopes</b>					
	Providing and laying filter media underneath stone pitching	km	30.52	0.086%		
	Providing and laying stone pitching on embankment slopes	Km	30.52	0.174%		
<b>31</b>	<b>MISCELLANEOUS WORKS</b>					
	Overhead Signs	Km	32	0.140%		
	Traffic Aid Booth	No.	1	0.013%		
	Medical Aid Booth	No.	1	0.013%		
	Emergency Cross-overs	No.	6	0.016%		
	Others (Wearing Course, Kerb etc.)	Km	32	0.128%		
<b>Total Percentage completion and Amount==&gt;</b>				<b>100.000%</b>	<b>21.300%</b>	

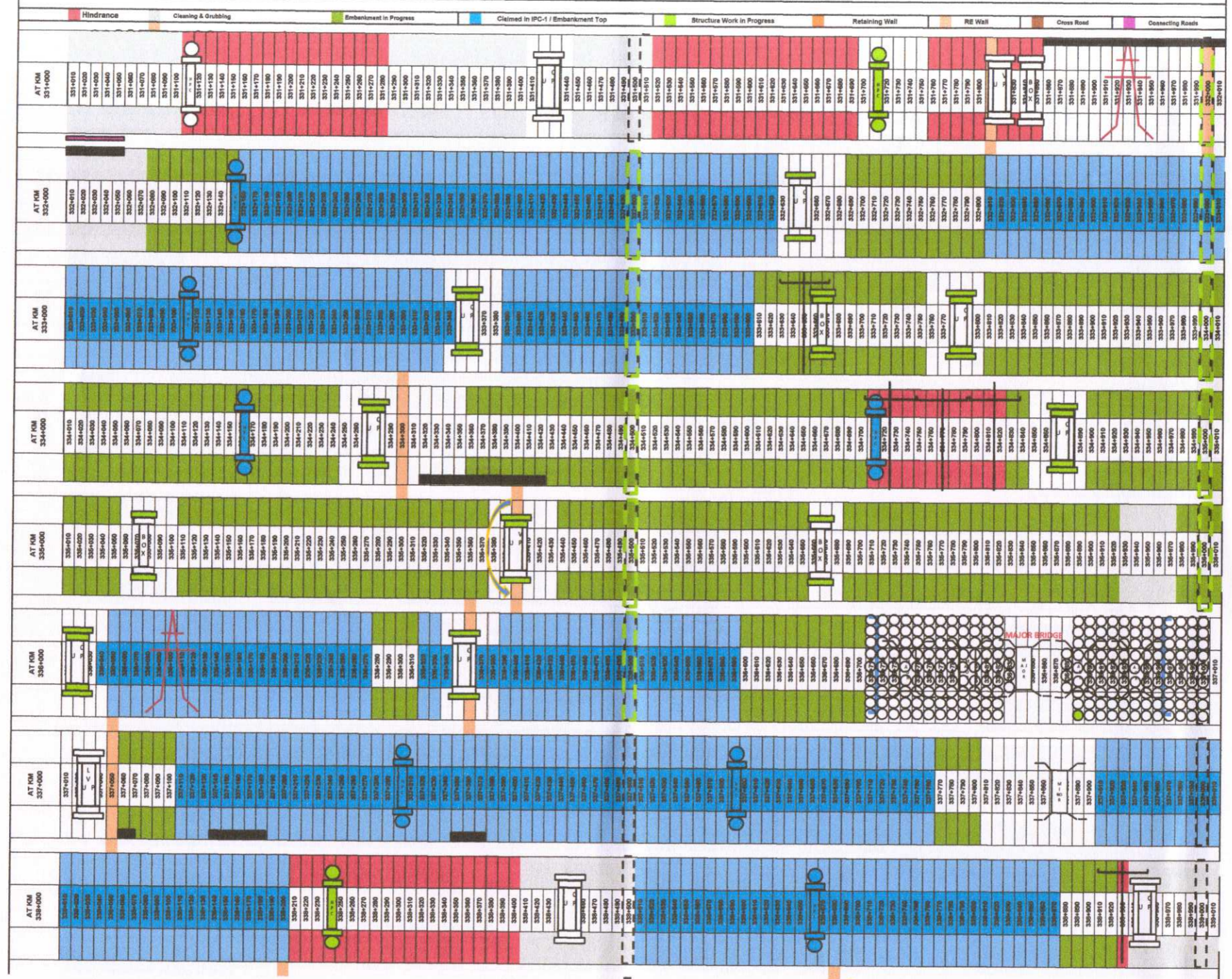


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



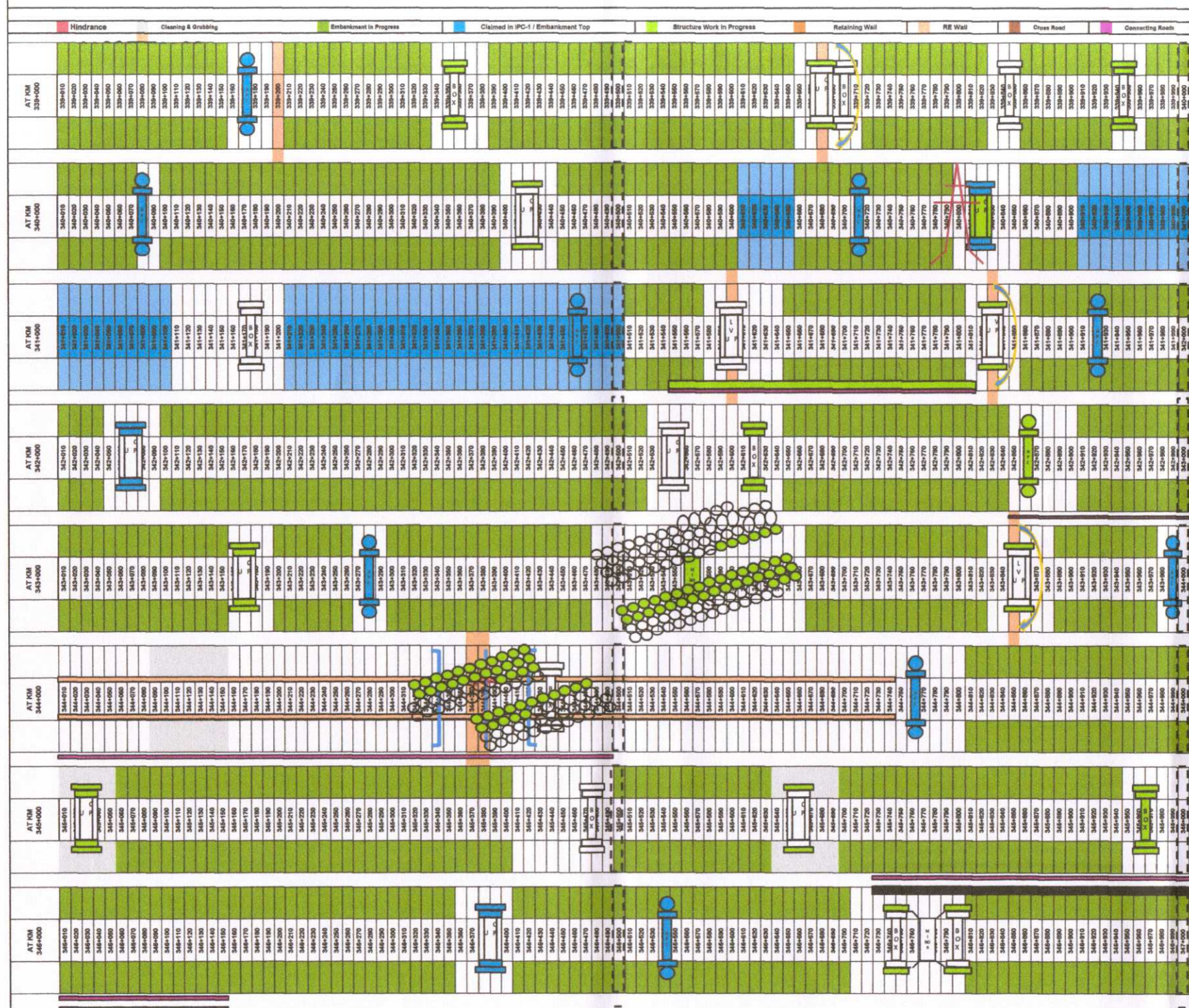


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



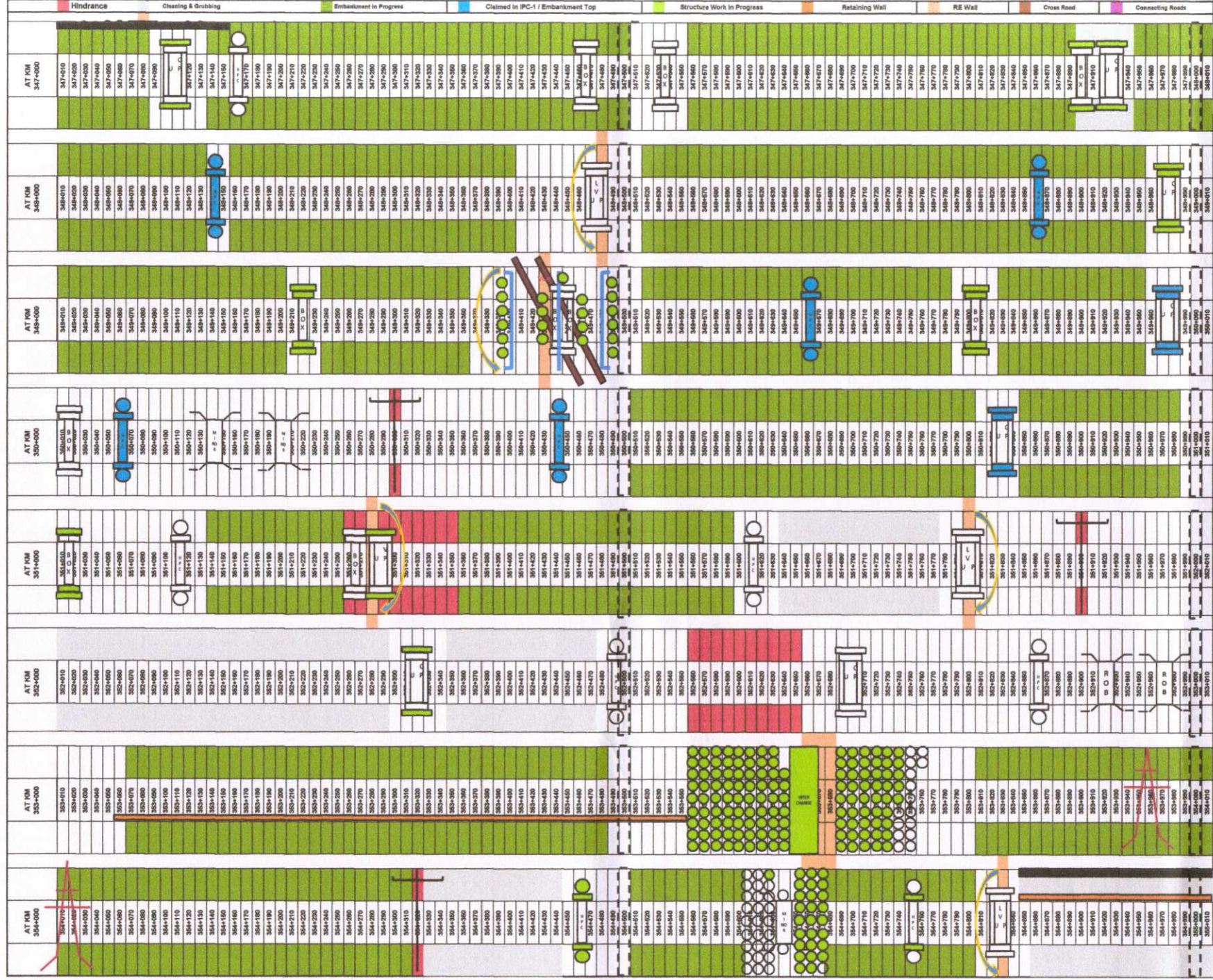


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



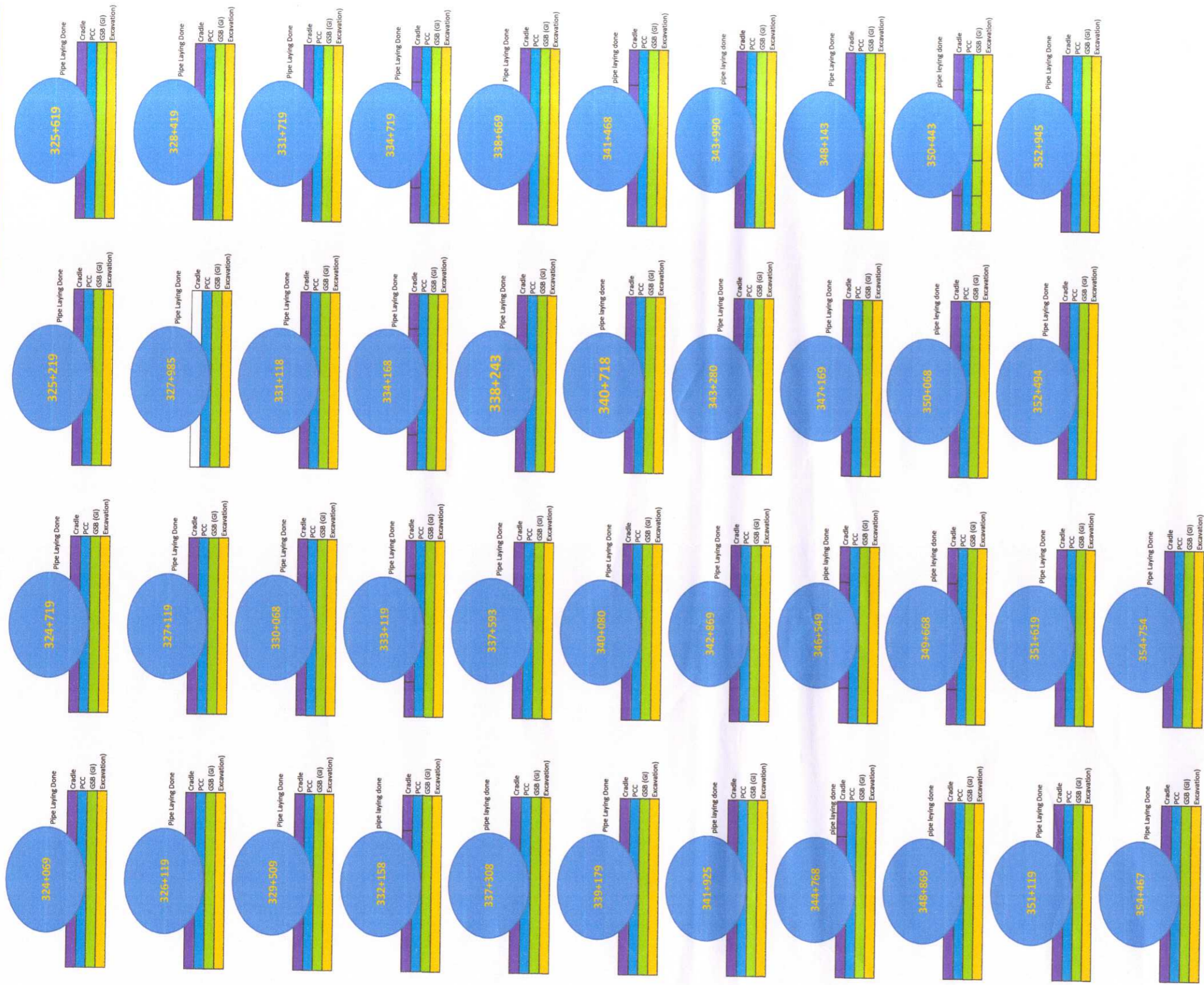


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



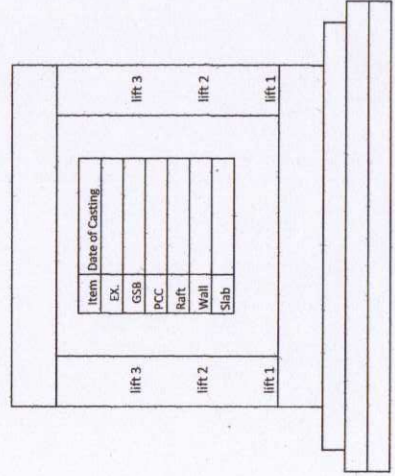


Pipe Culverts

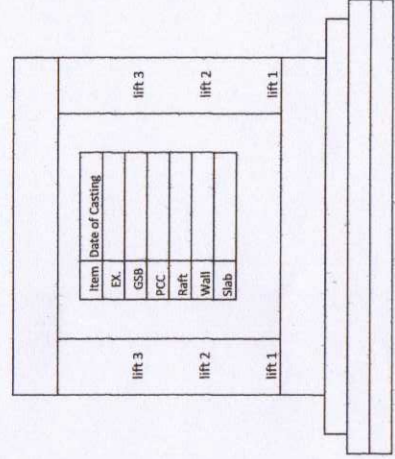




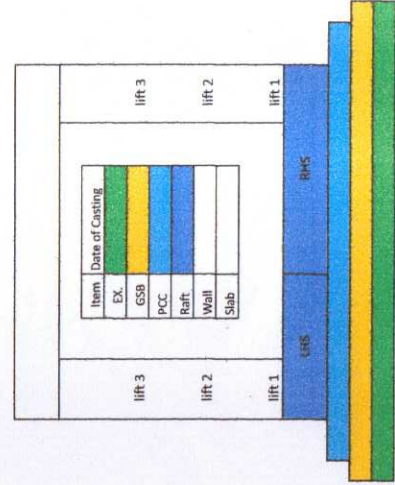
BOX Culverts



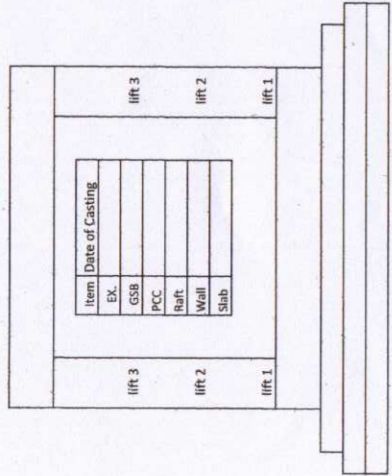
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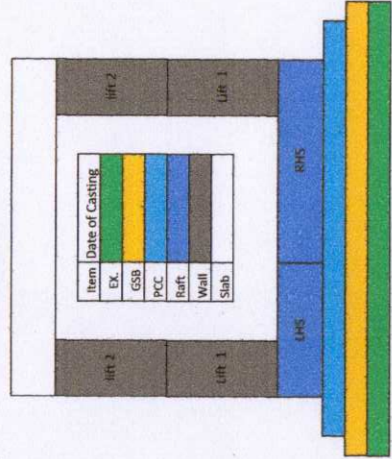
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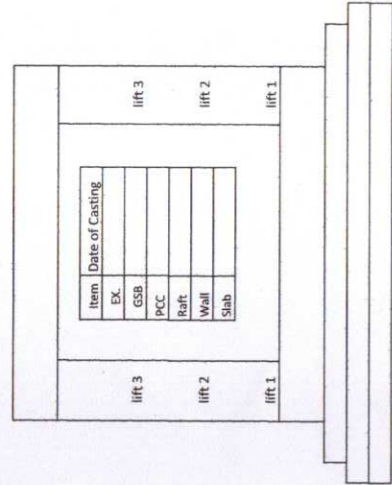
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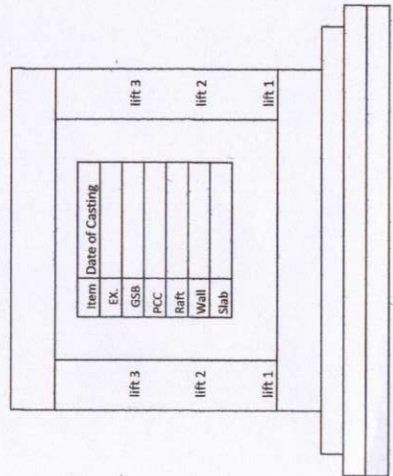
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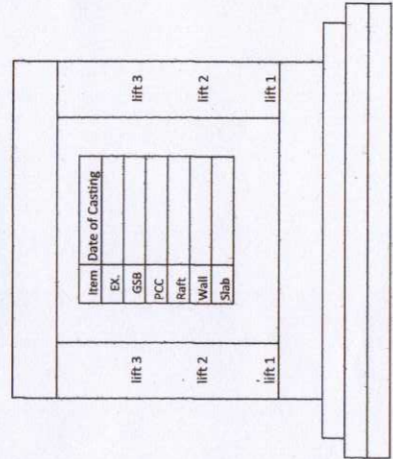
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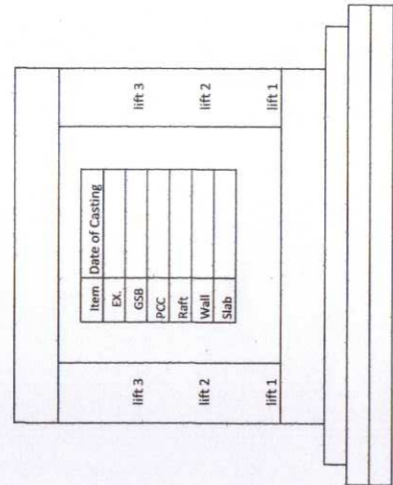
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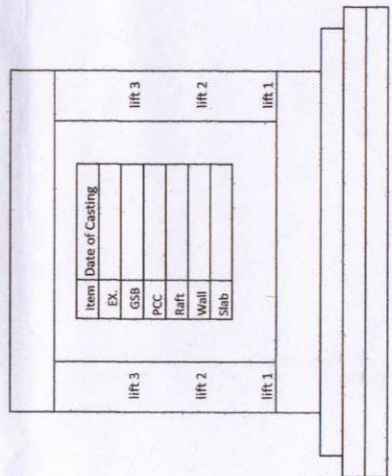
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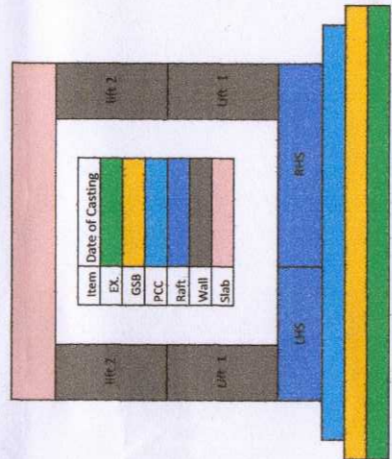
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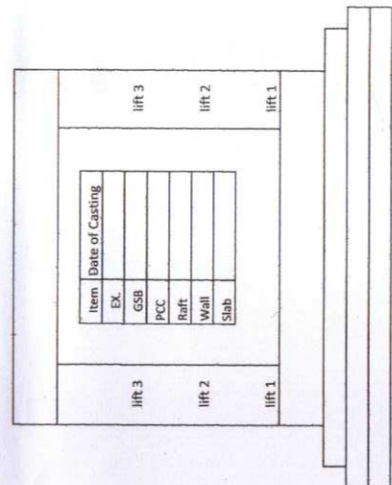
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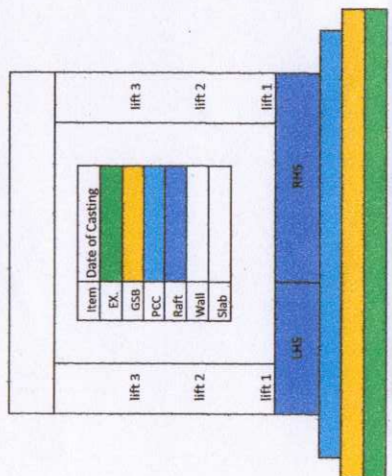
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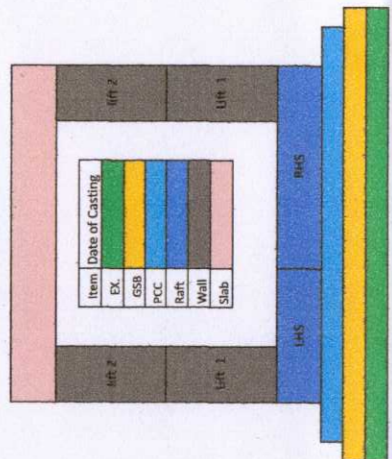
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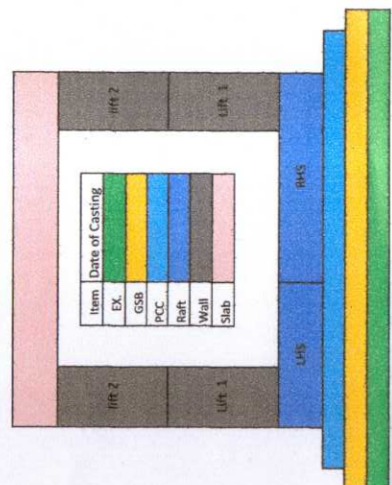
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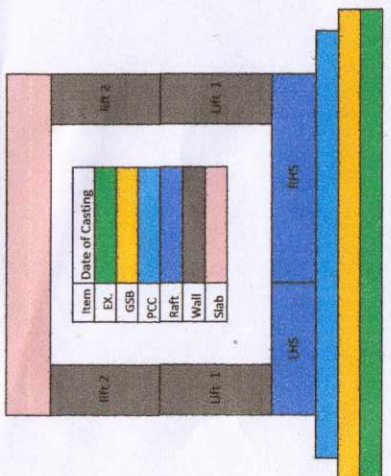
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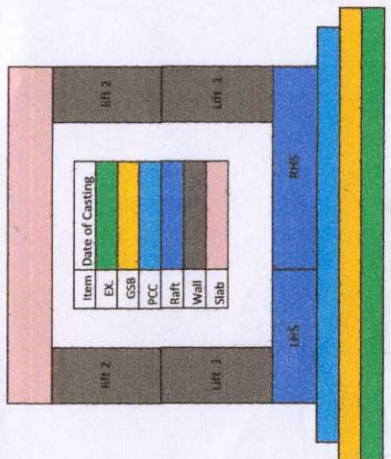
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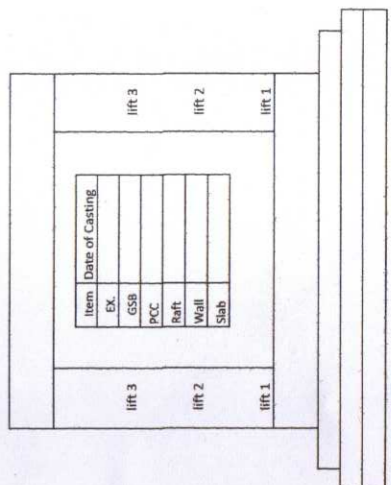
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335+664

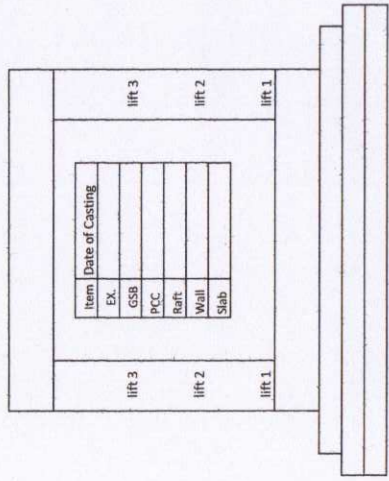


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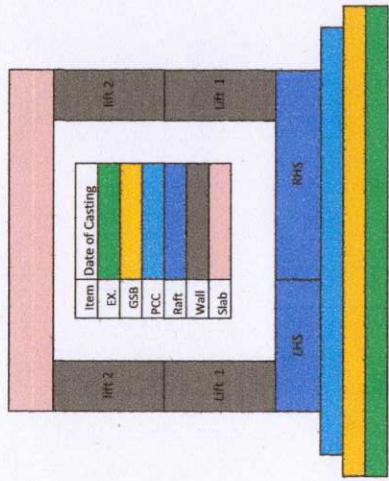


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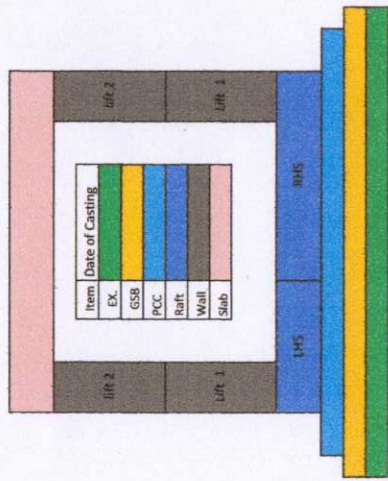




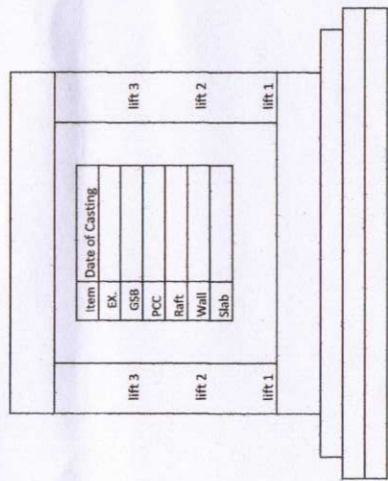
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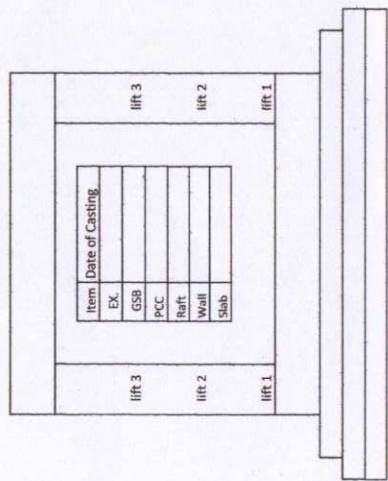
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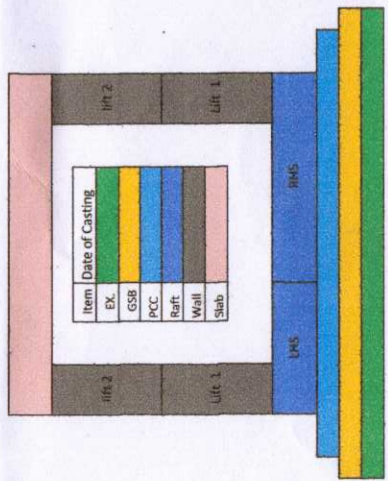
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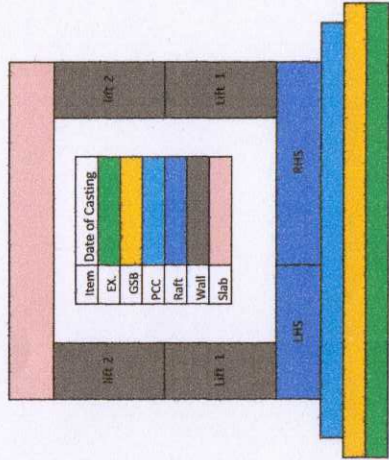
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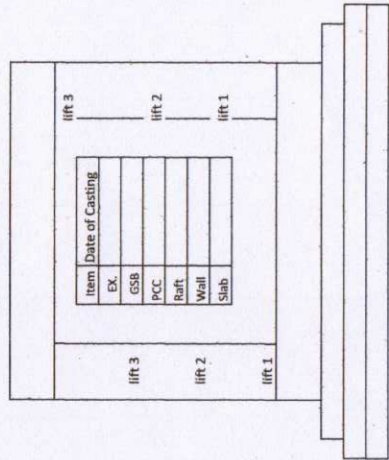
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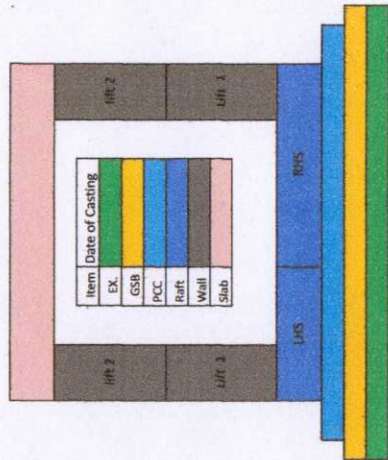
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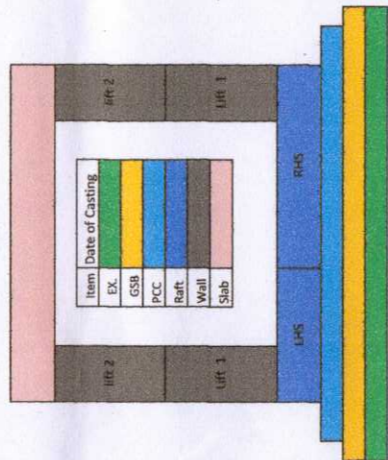
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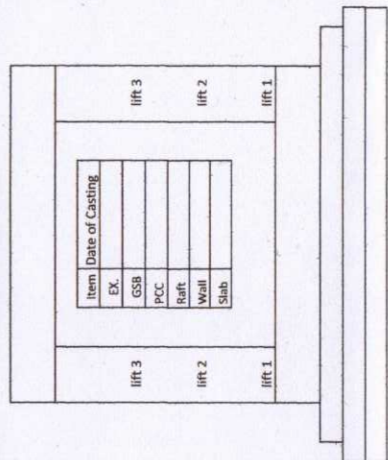
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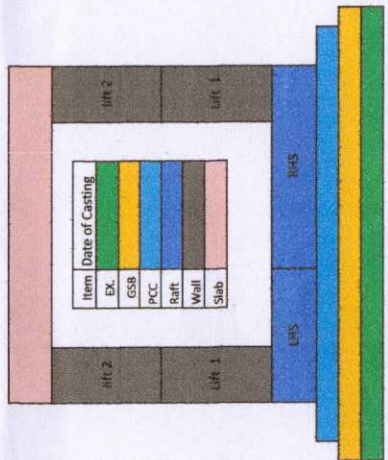
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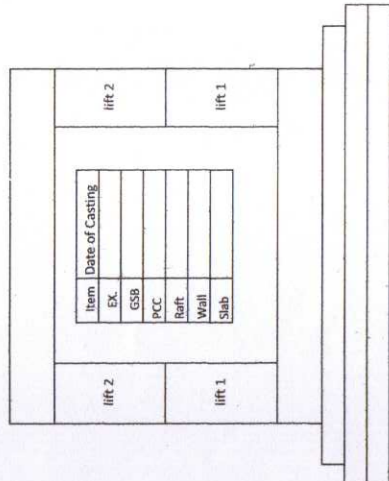
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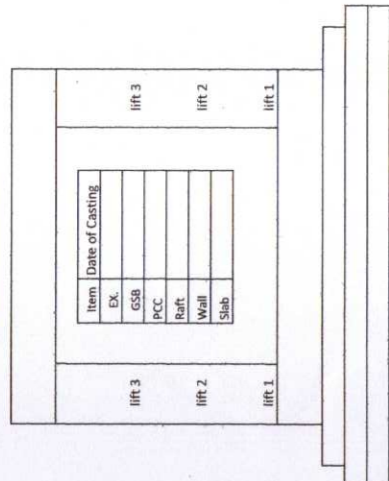
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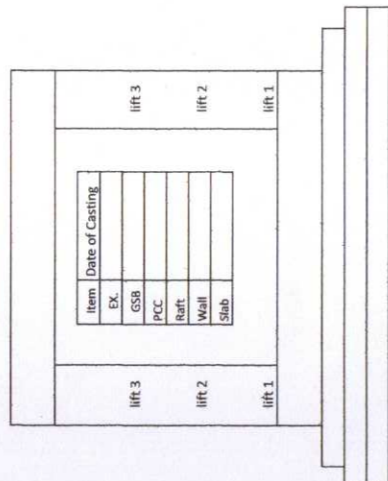
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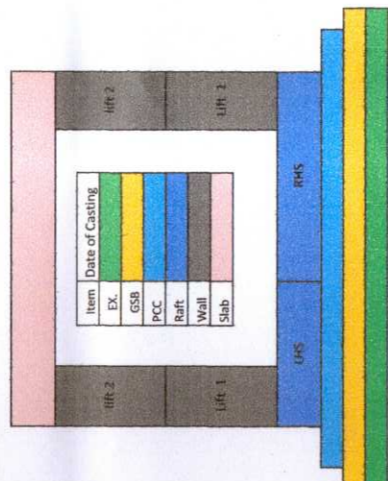
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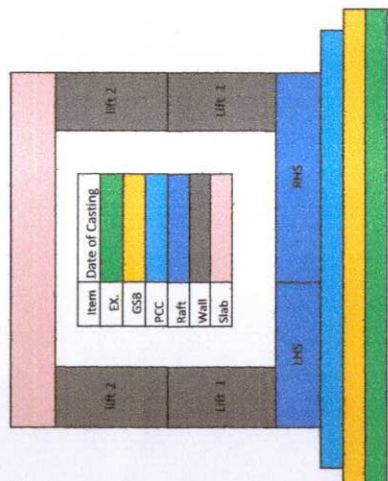
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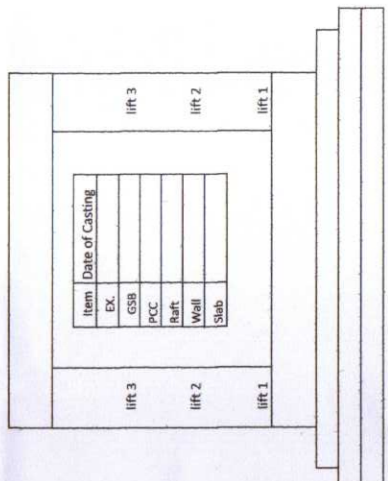
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349-220



349-809

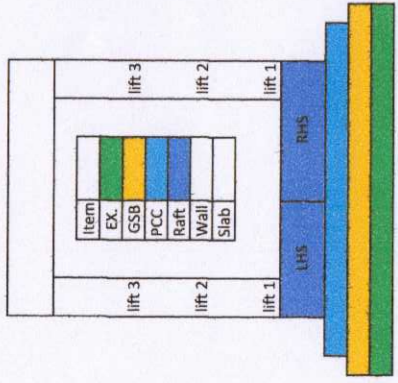


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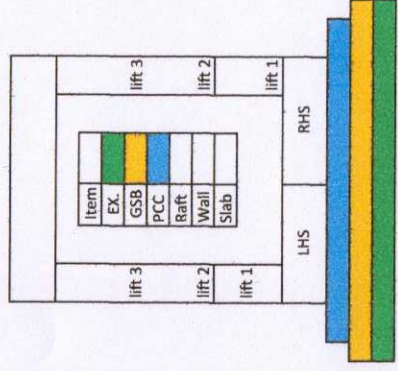




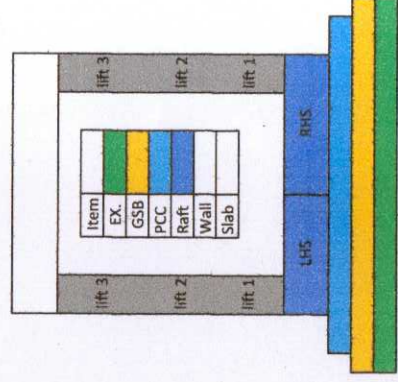




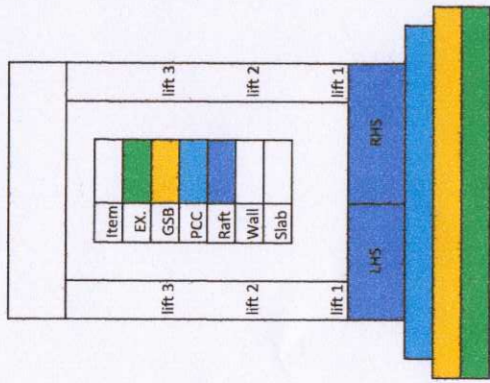
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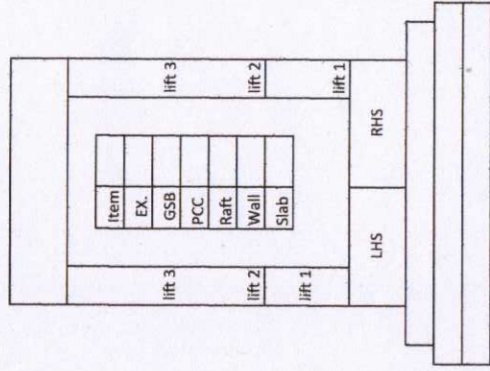
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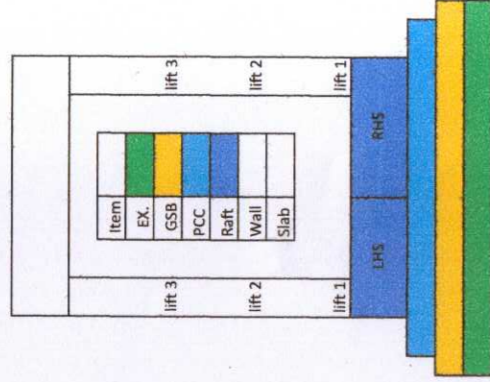
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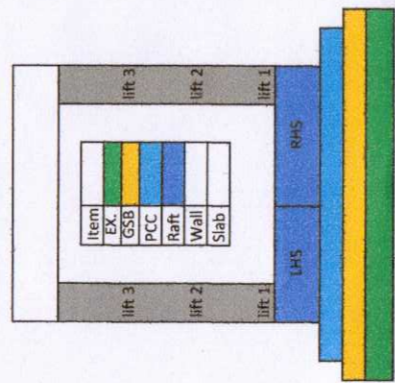
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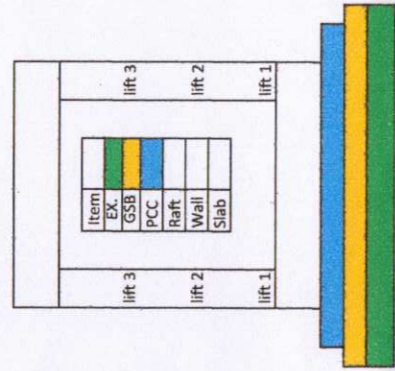
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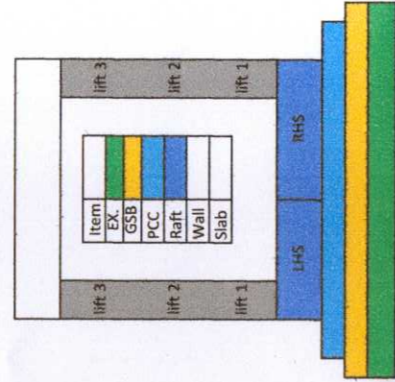
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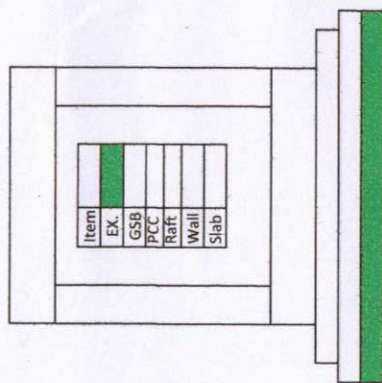
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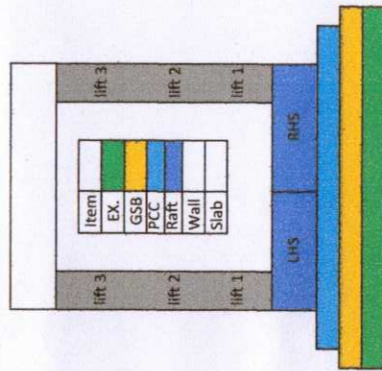
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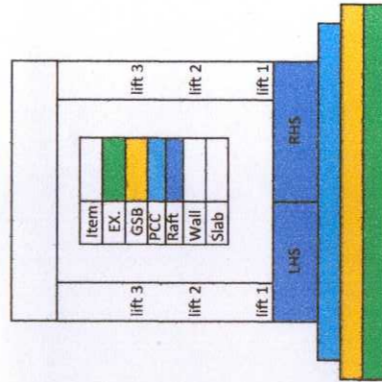
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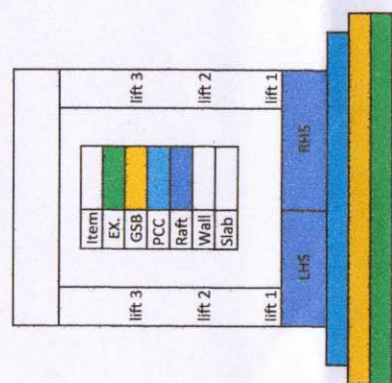
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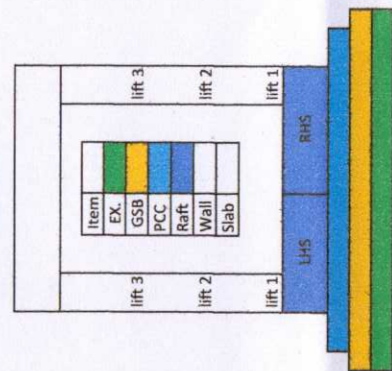
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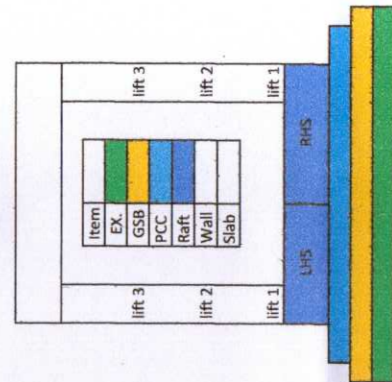
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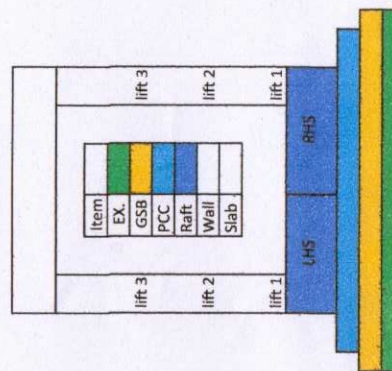
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350+831



352+317

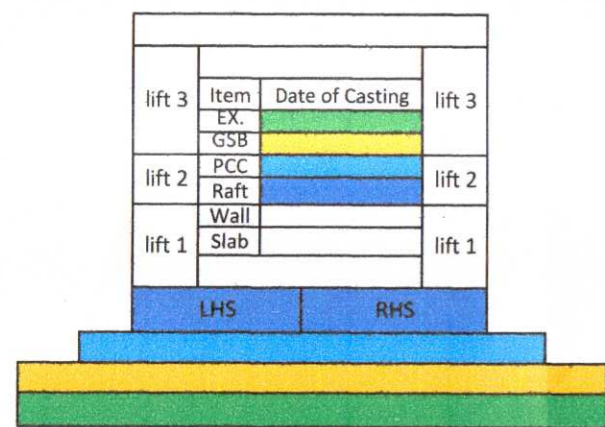


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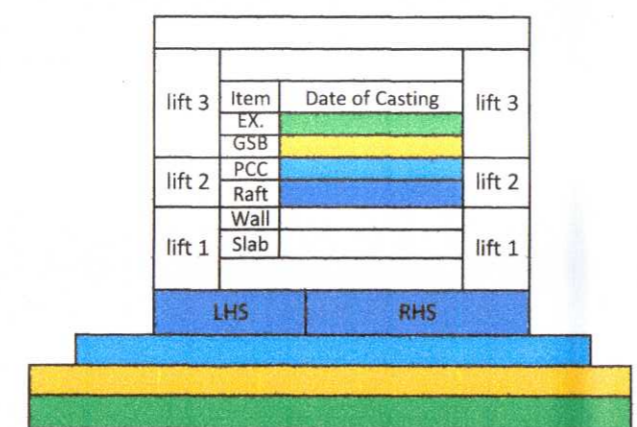


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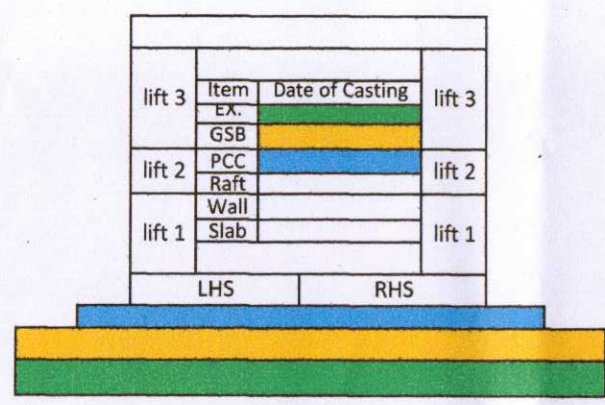
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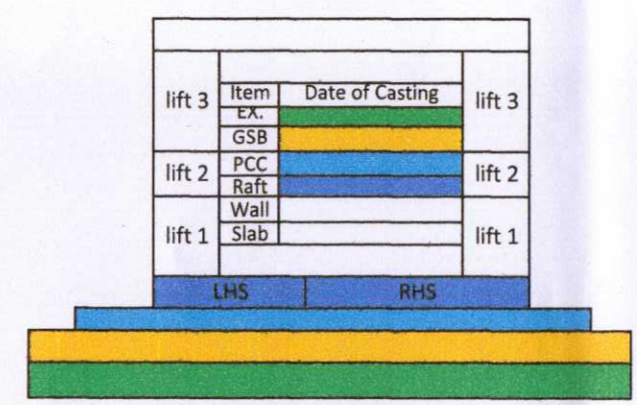
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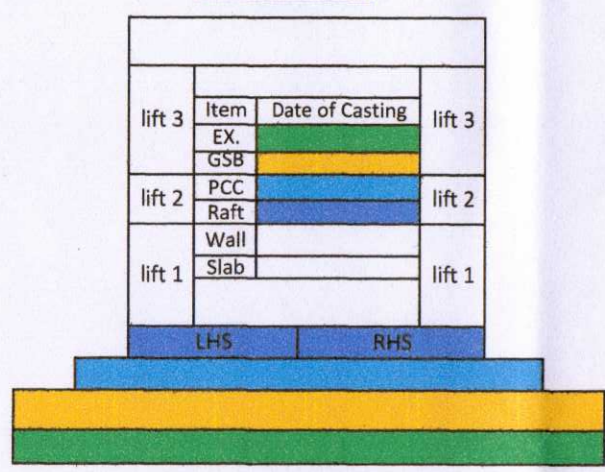
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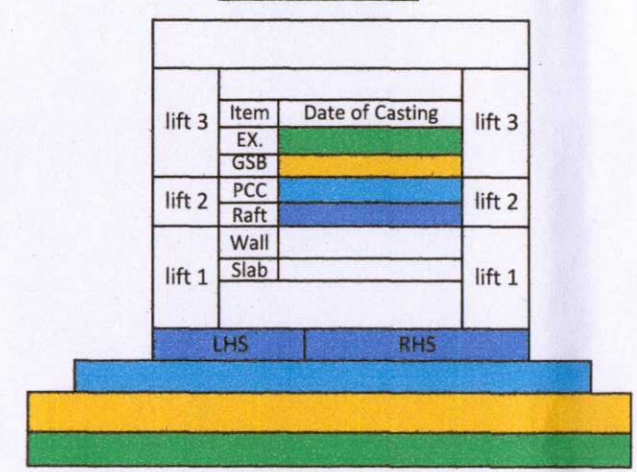
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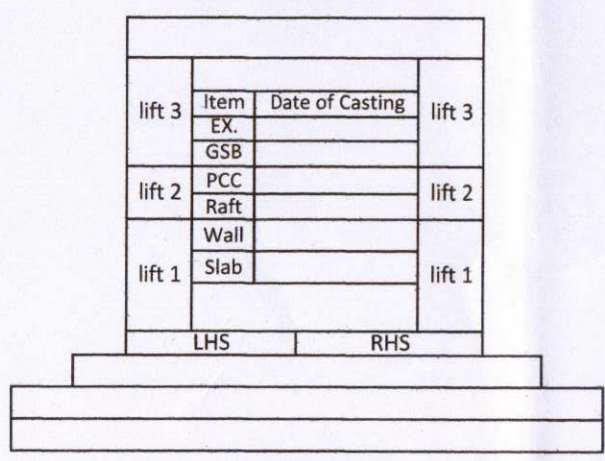
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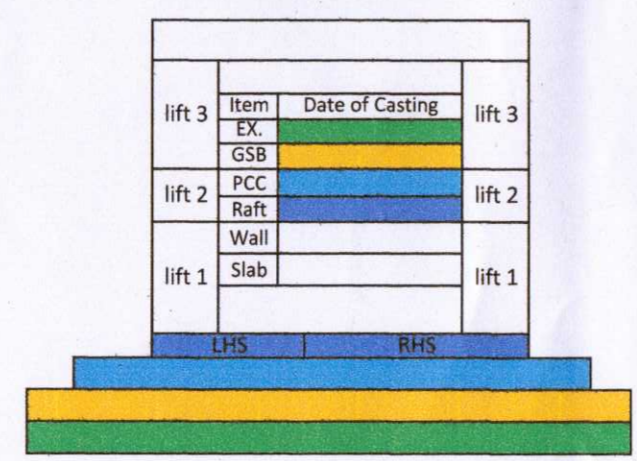
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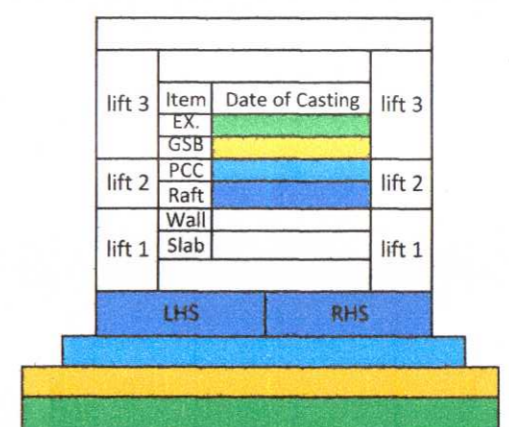
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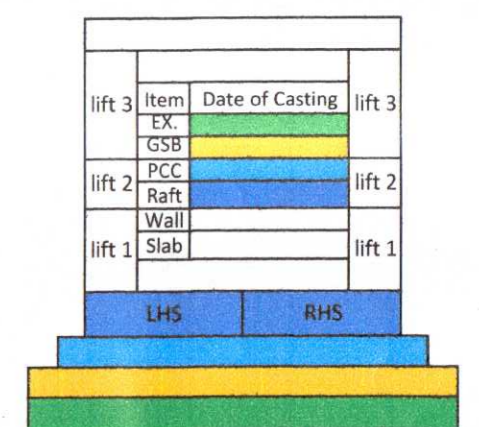
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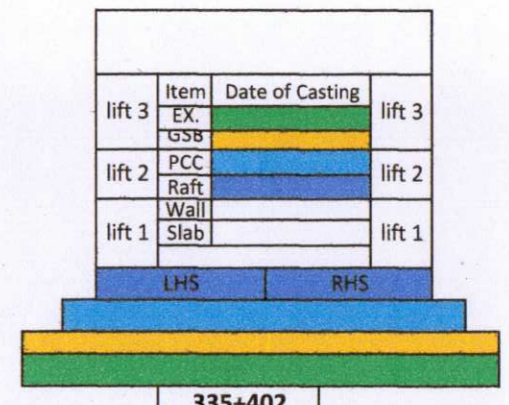
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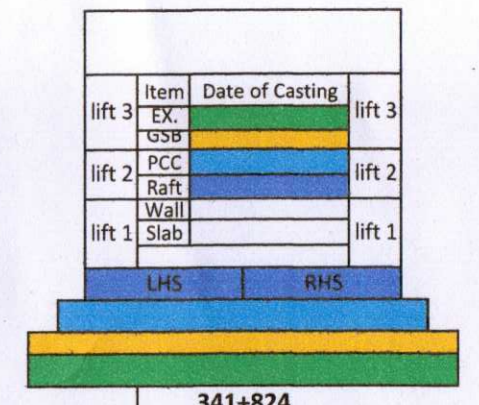
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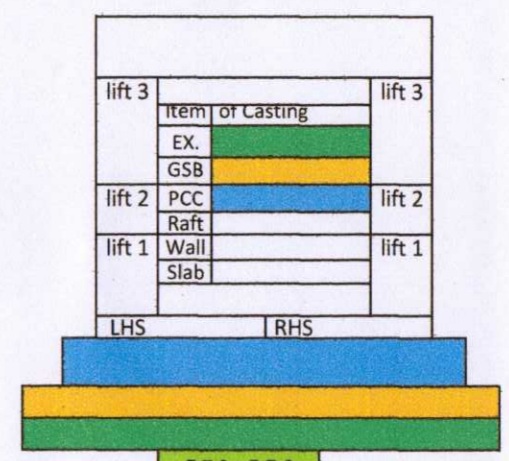
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**335+402**



**341+824**



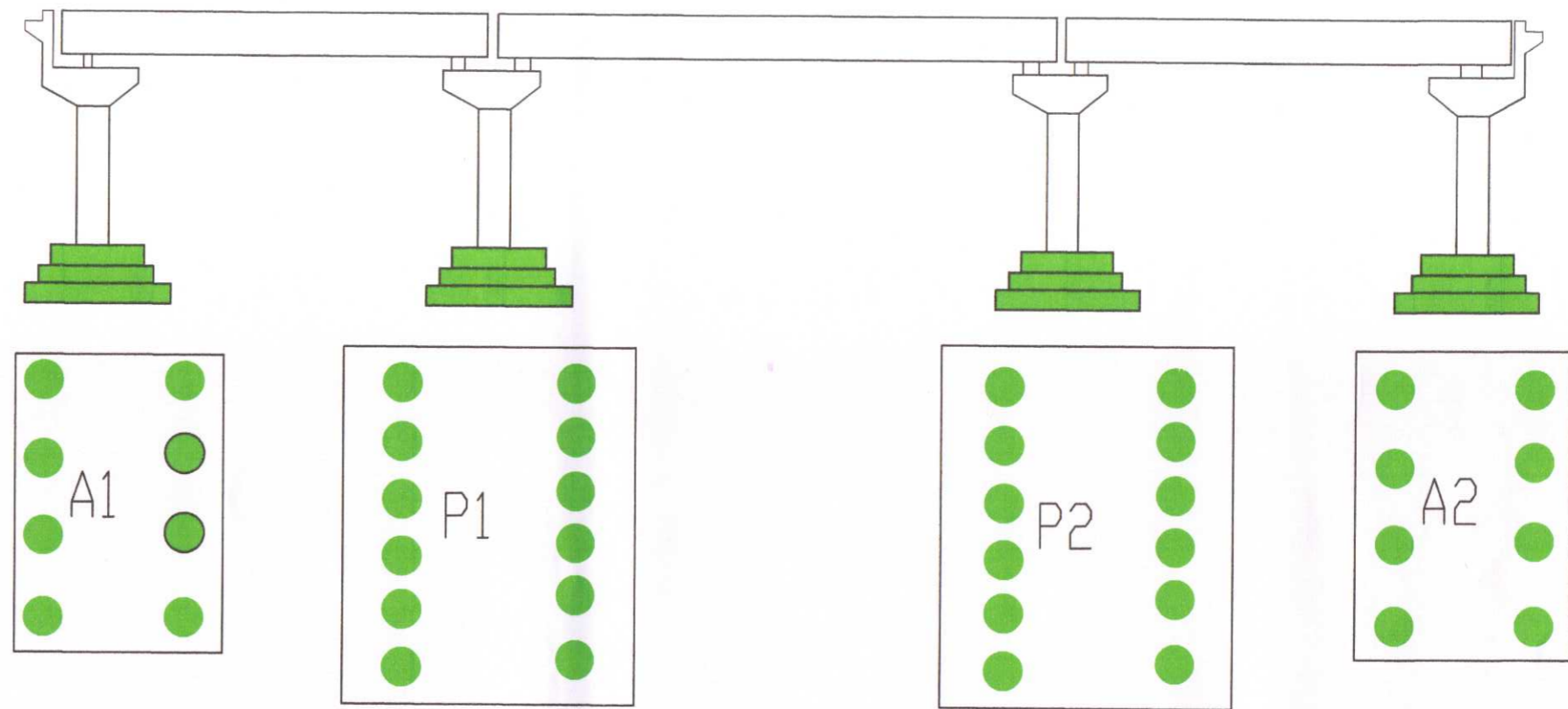
**351+284**



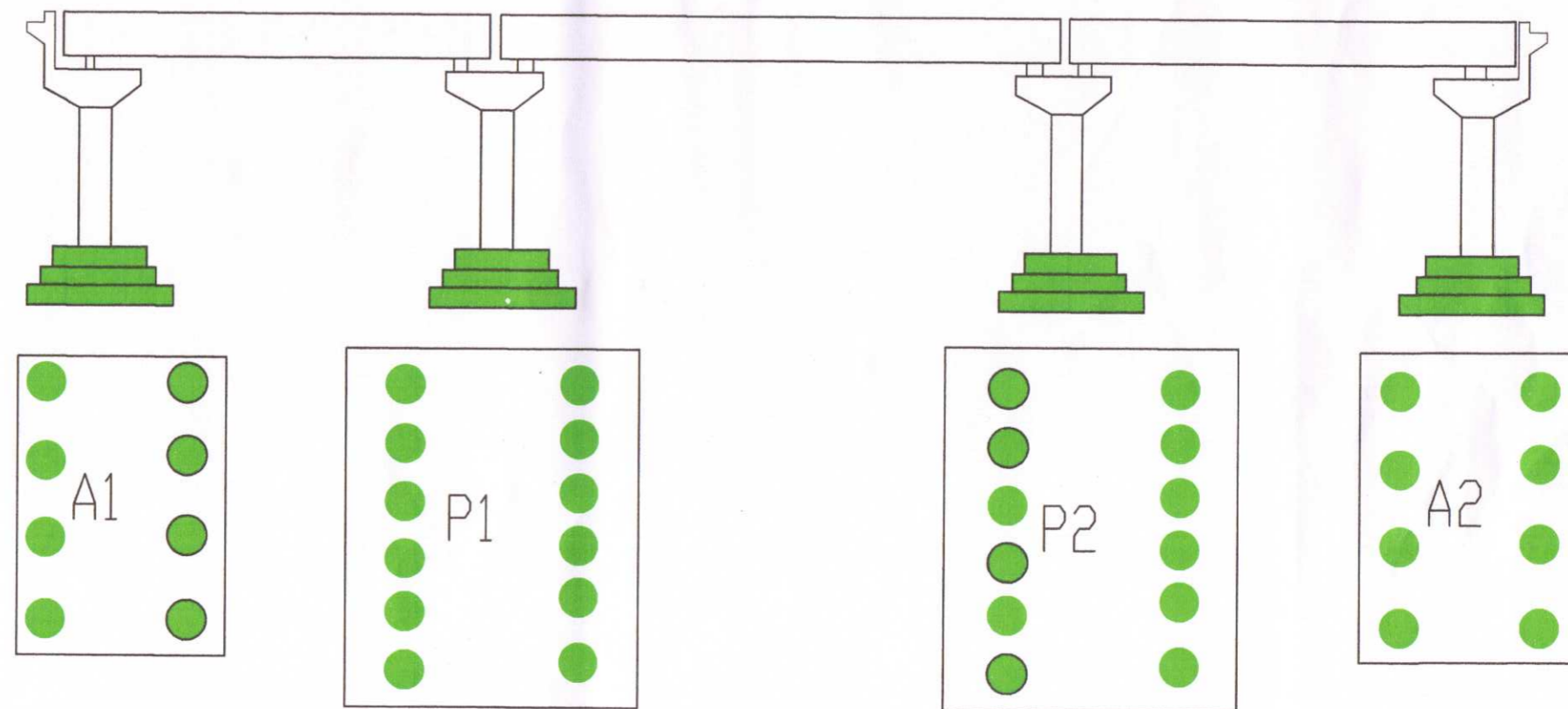


# Ch 323+074 Interchange

LHS



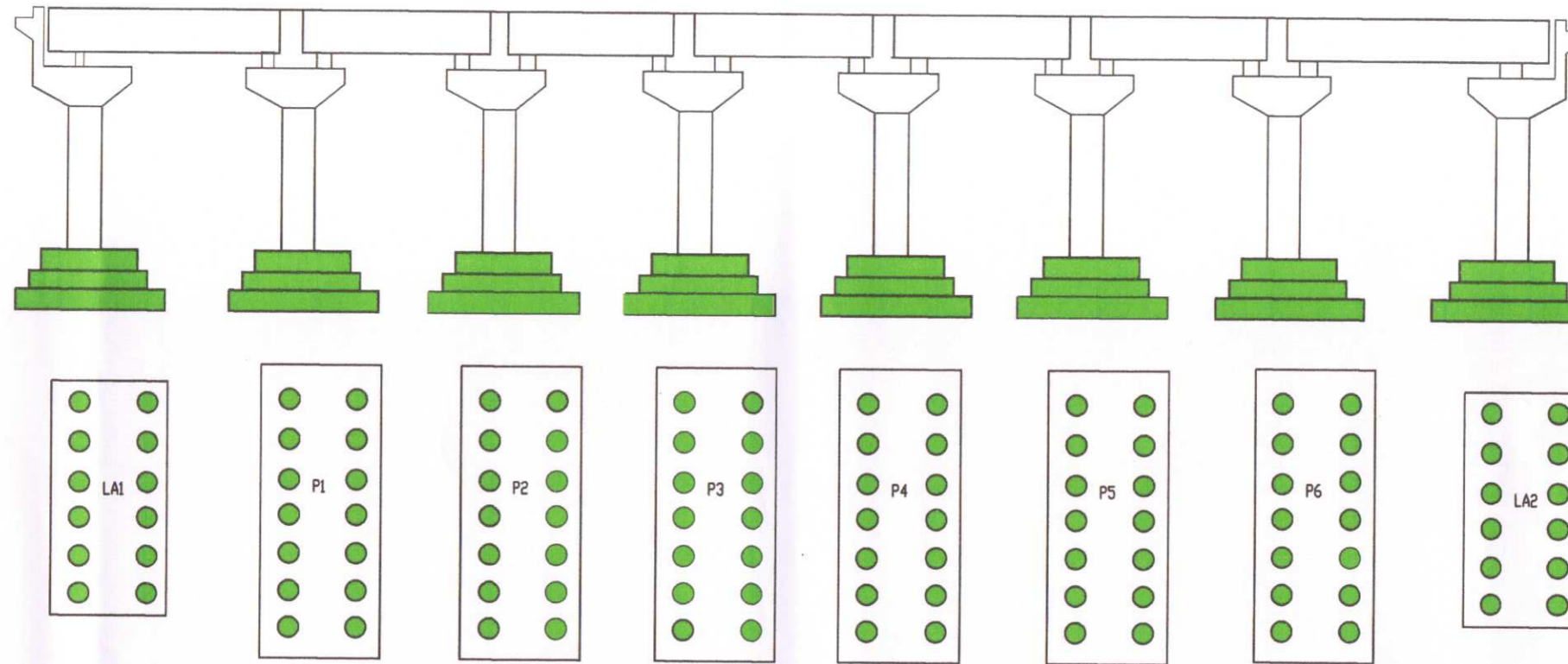
RHS



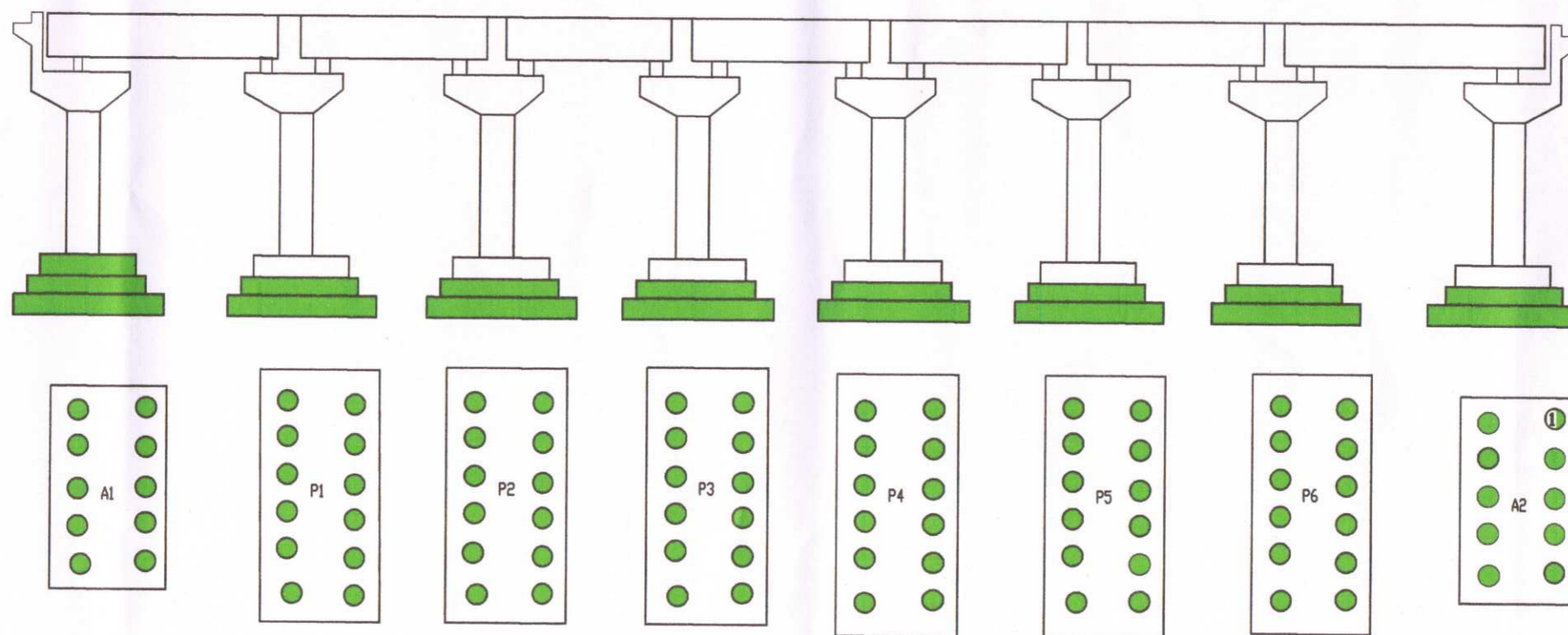


# Ch 353+666 Interchange

LHS



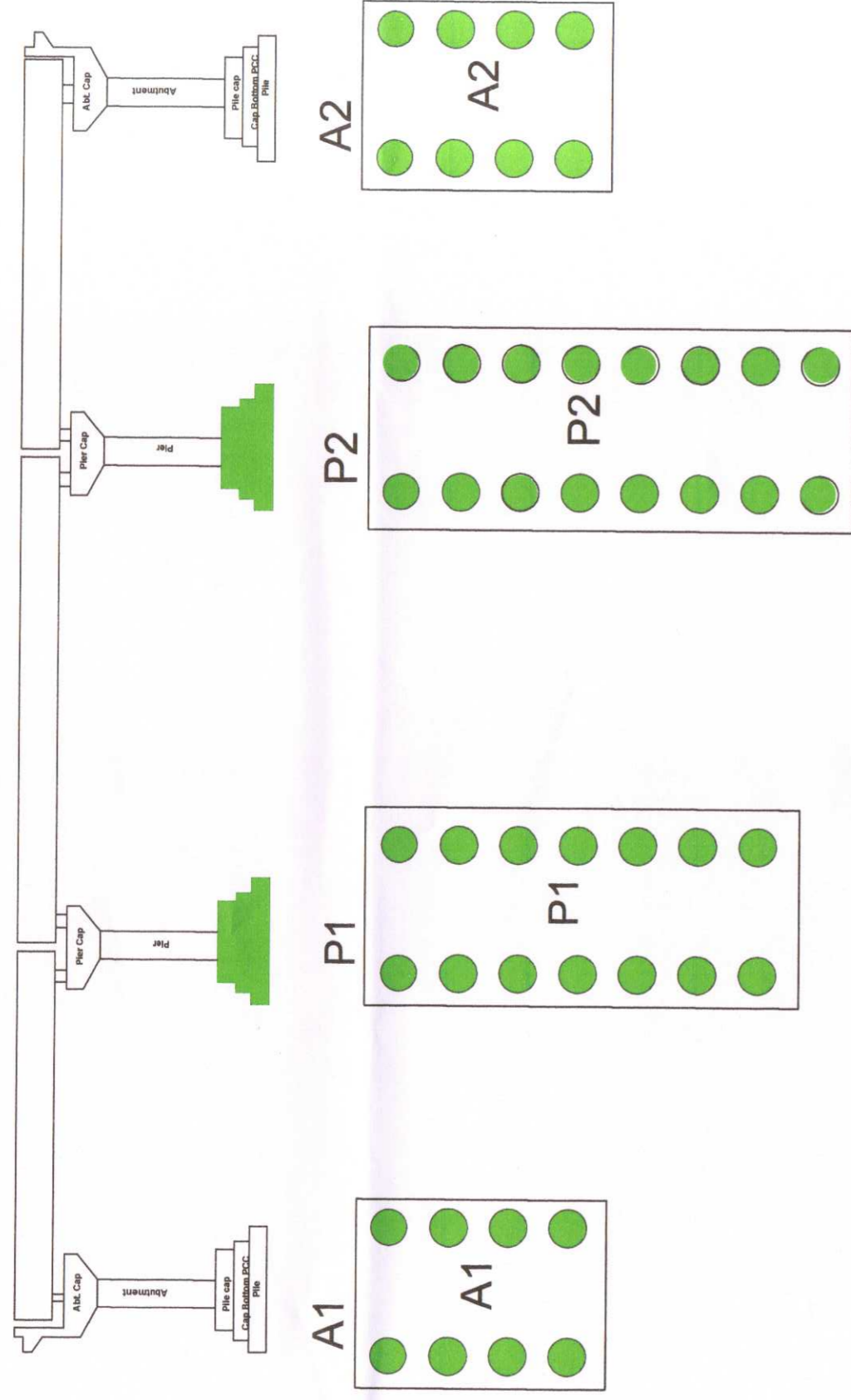
RHS



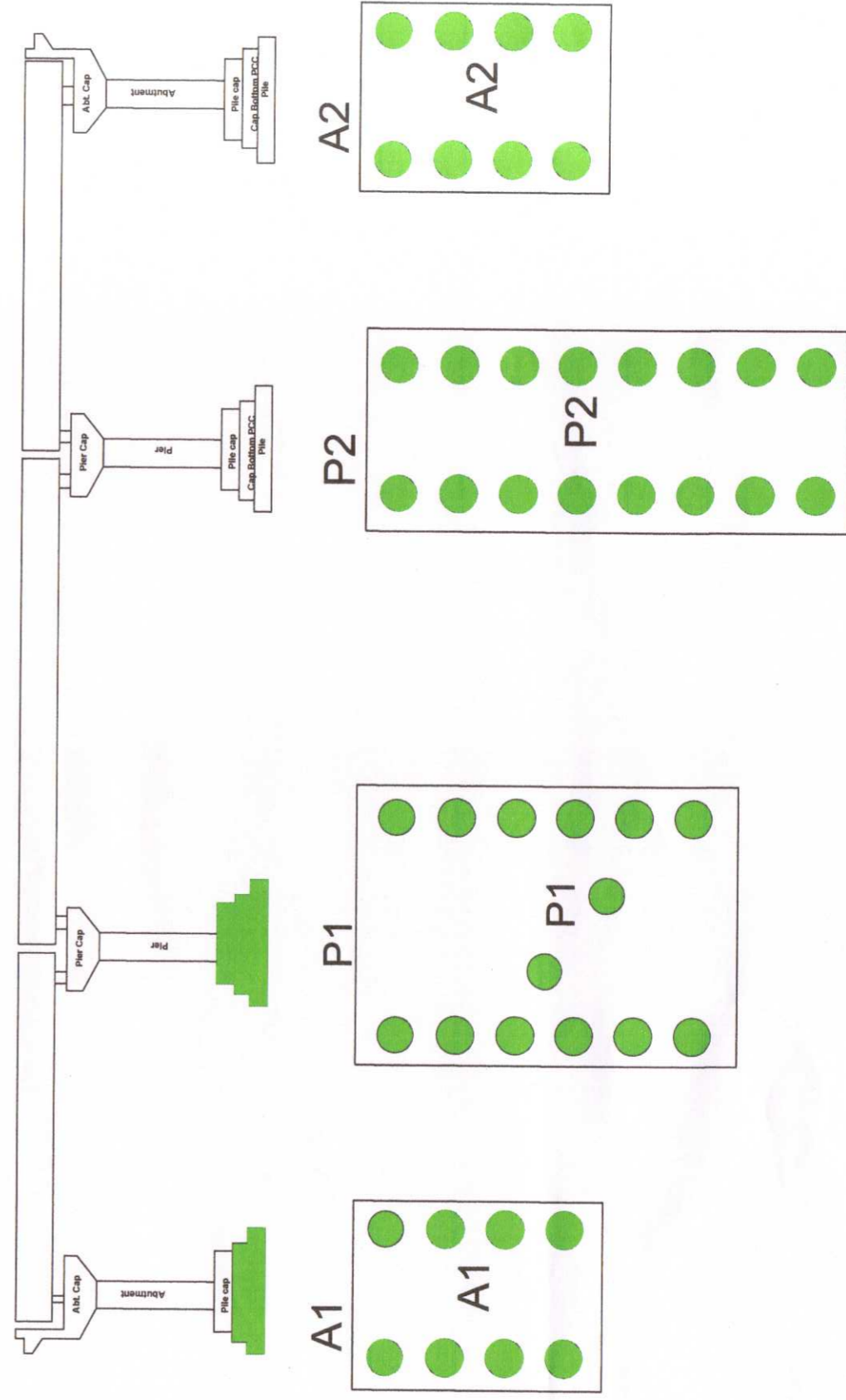


# CH 344+383 Flyover

LHS



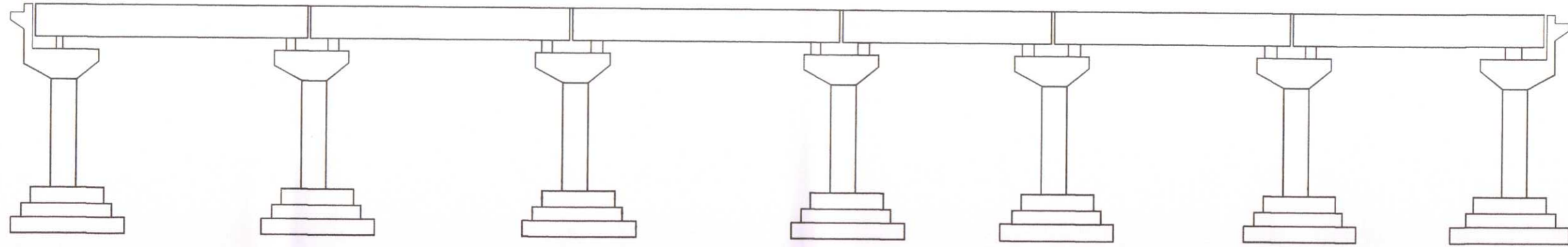
RHS



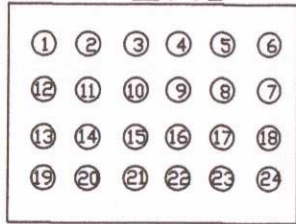


# Ch 336+810 Major Bridge

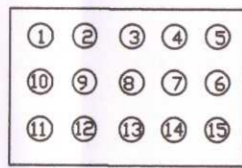
LHS



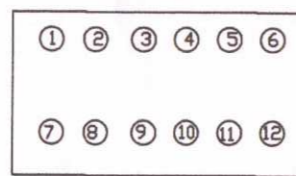
LA1



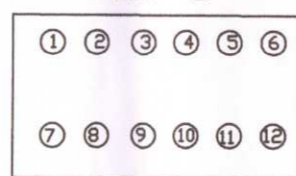
LP1



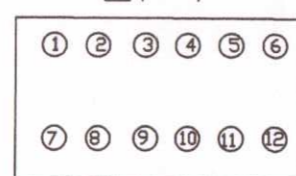
LP2



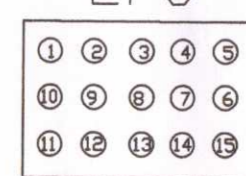
LP3



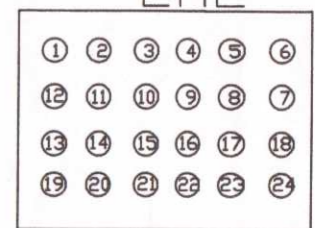
LP4



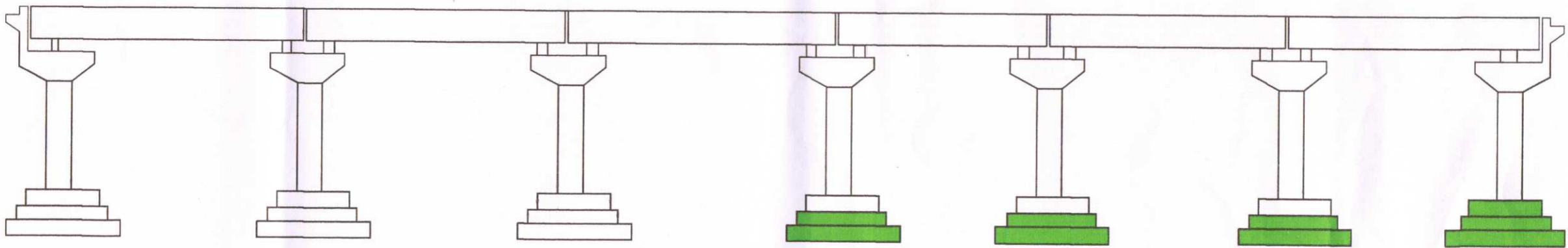
LP5



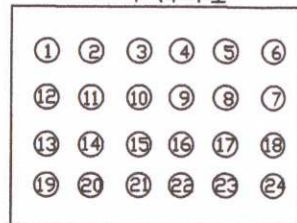
LA2



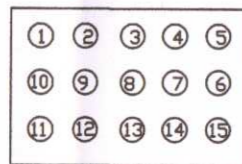
RHS



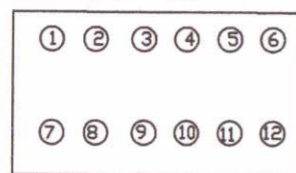
RA1



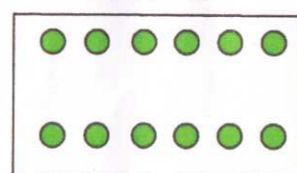
RP1



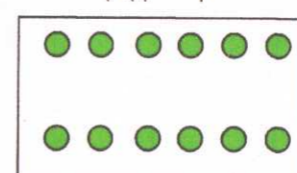
RP2



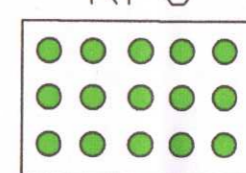
RP3



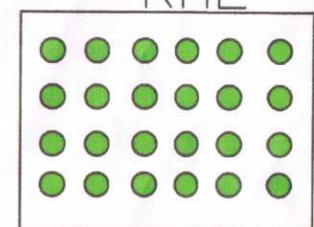
RP4



RP5

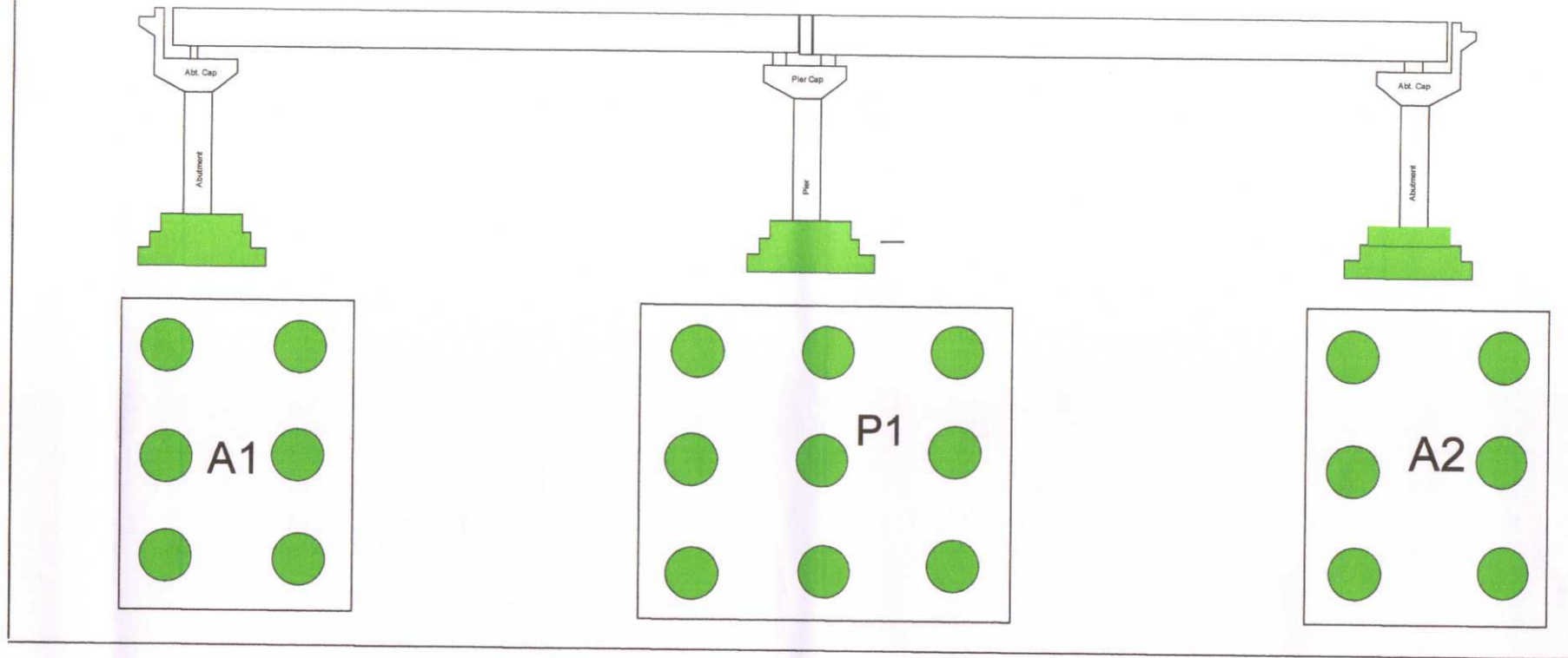


RA2

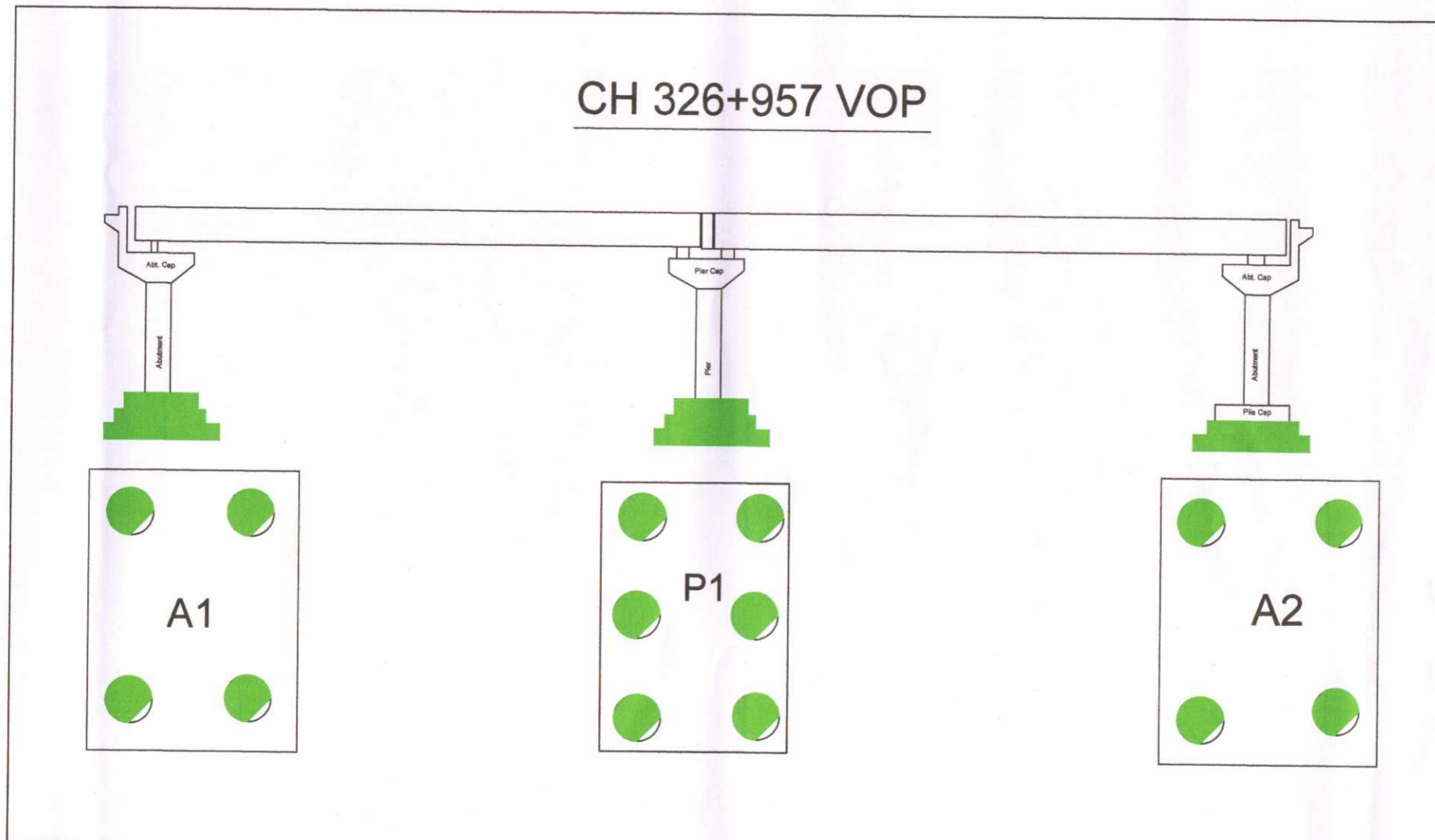




CH 349+441 VOP



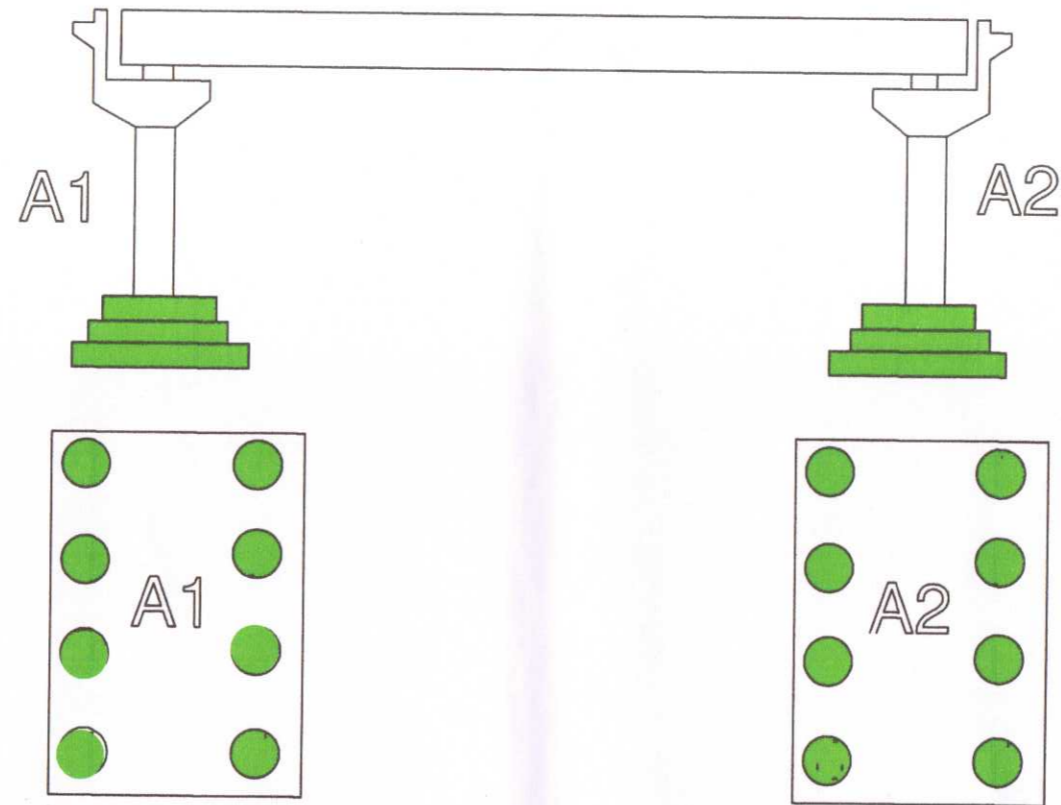
CH 326+957 VOP



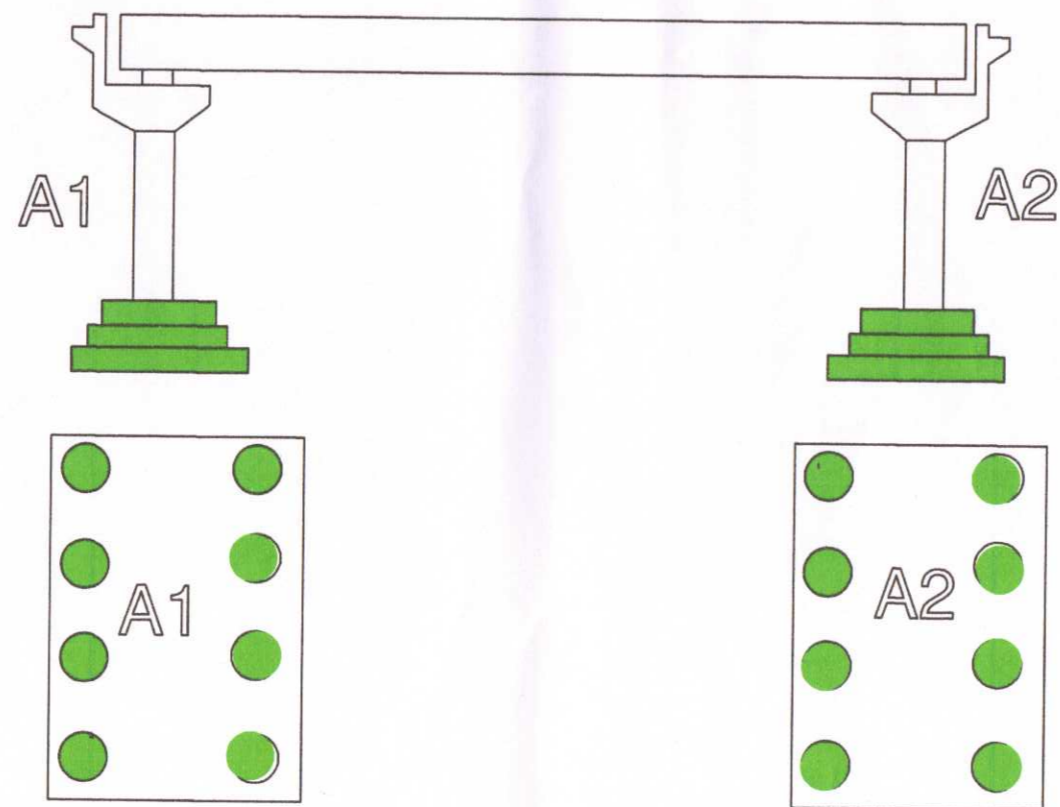


CH 324+193 MNB

LHS

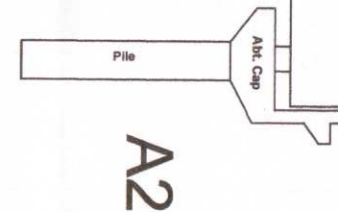
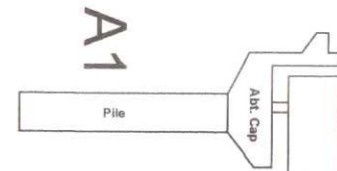


RHS

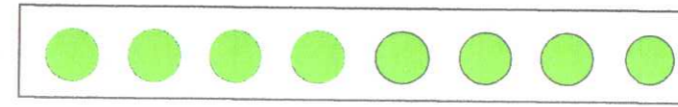




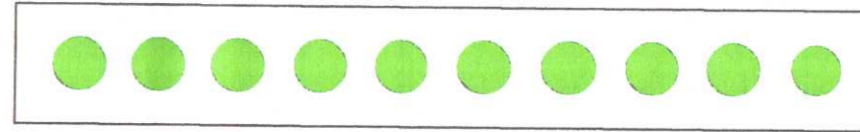
CH 330+640 MNB



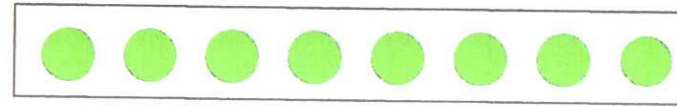
A1 Segment 1



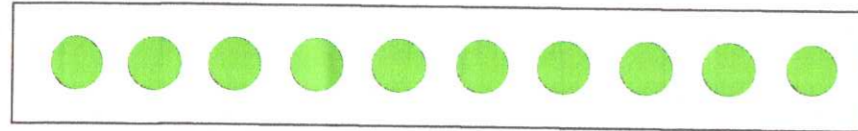
A1 Segment 2



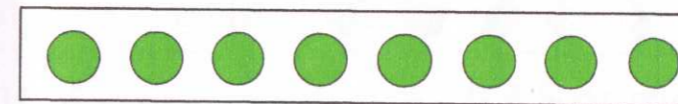
A1 Segment 4



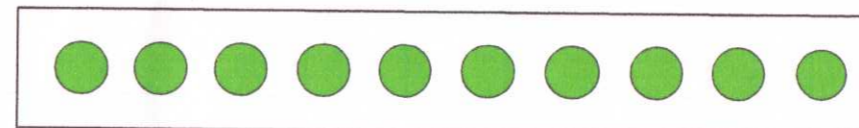
A1 Segment 3



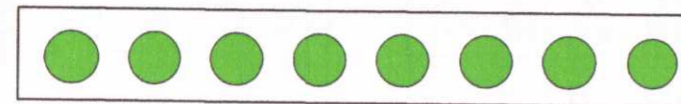
A2 Segment 1



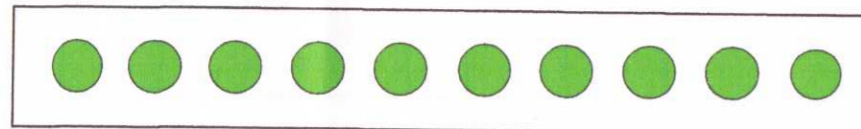
A2 Segment 2



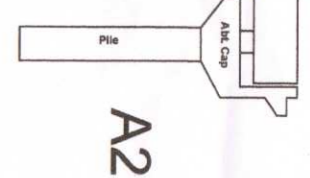
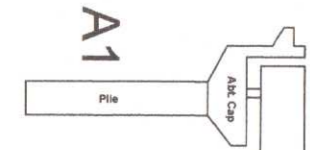
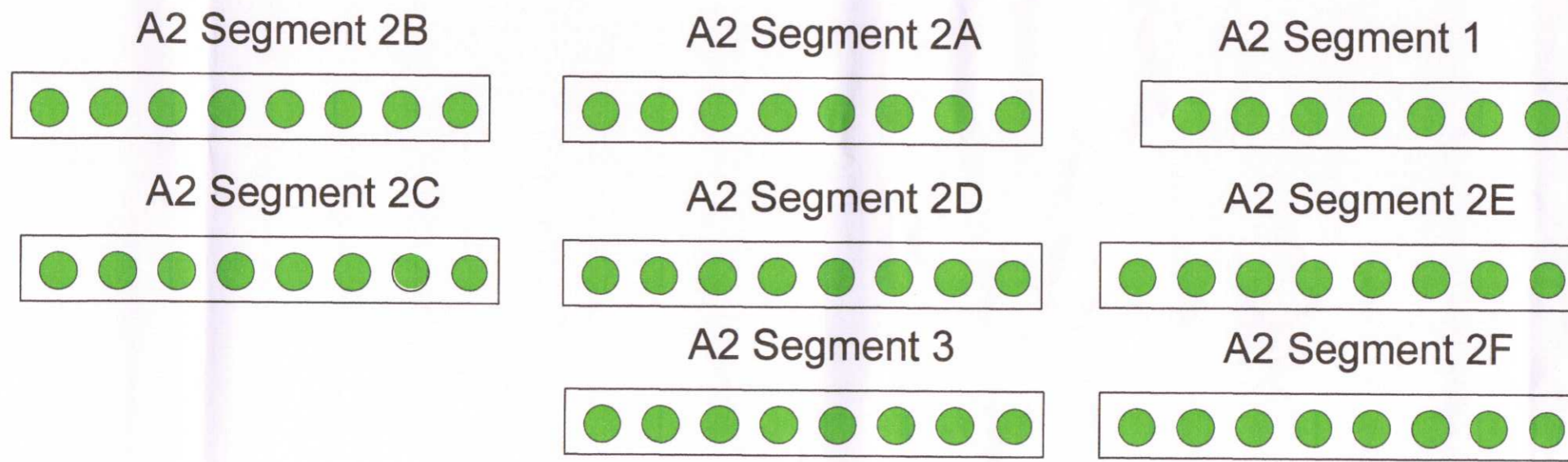
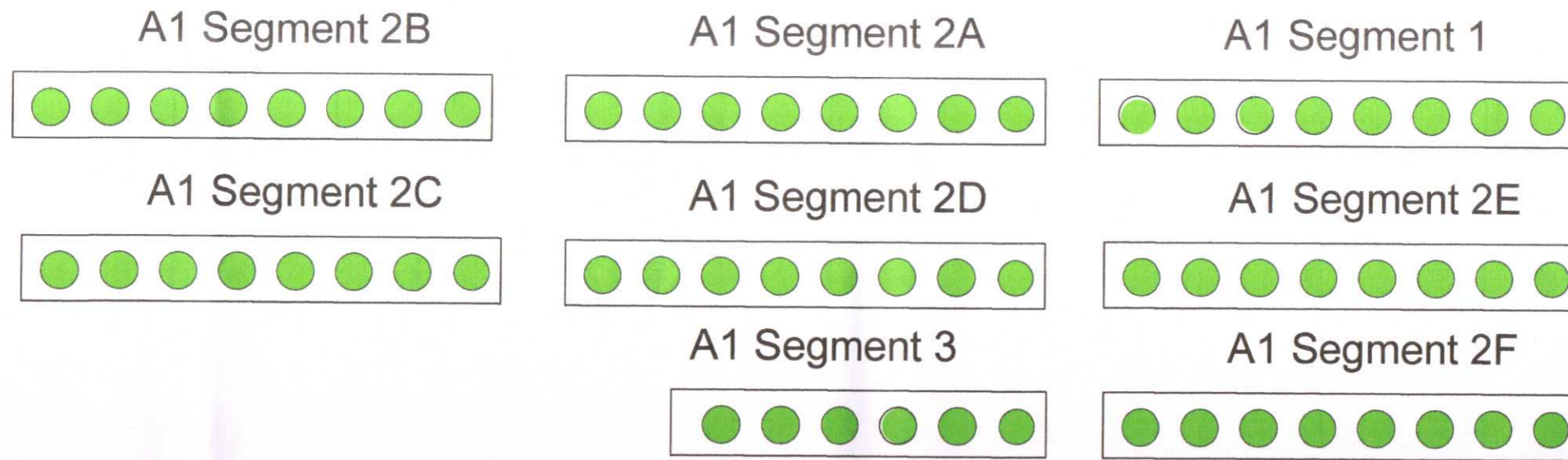
A2 Segment 4



A2 Segment 3

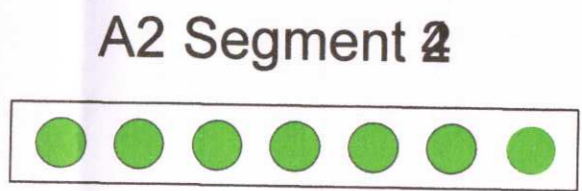
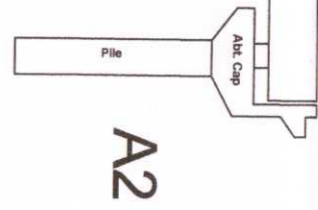
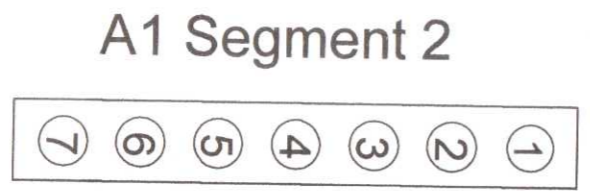
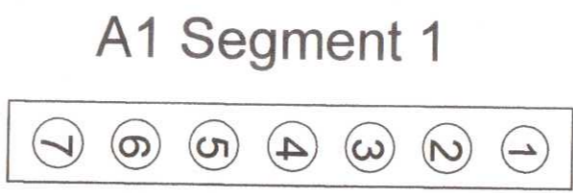
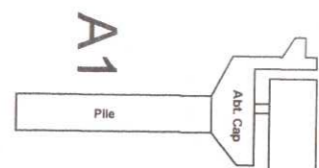






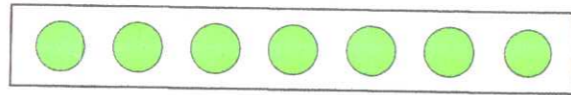


CH 350+143 MNB

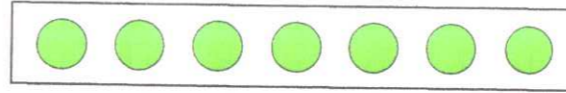




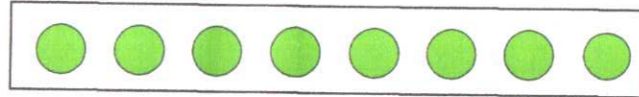
A1 Segment 4



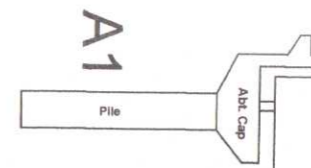
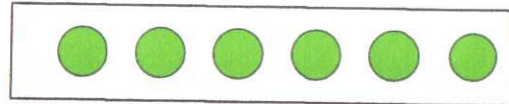
A1 Segment 1



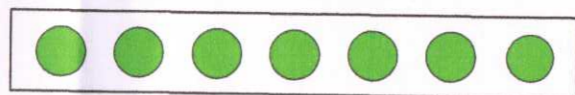
A1 Segment 2



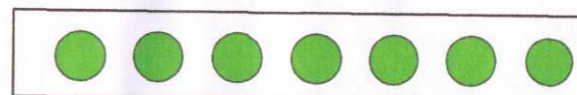
A1 Segment 3



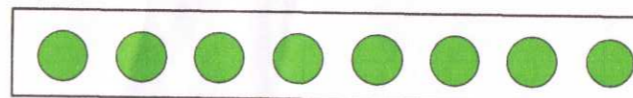
A2 Segment 4



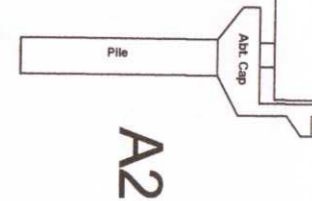
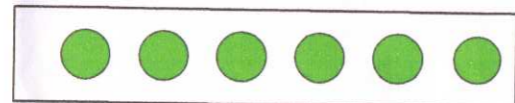
A2 Segment 1



A2 Segment 2



A2 Segment 3



CH 354+636 MNB



**Eight-Laning of Vadodara Kim Expressway from Km 323.000 to Km 355.000**

**Details of Electrical Utilities**

SR. NO.	CHAINAGE		Division	SIDE	TYPE	EFFECTED LENGTH (Mt.)	REMARKS	Affected Zone
	To	From						
1	323+030	323+040	Amod		11 KV	10	Electric Line Crossing (Amod)	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
2	323+090	323+095	Amod		11 KV	5	Electric Line Crossing (Amod)	
3	323+130	323+140	Amod		11 KV	10	Electric Line Crossing (Amod)	
4	323+160	323+170	Amod		12 KV	10	Electric Line Crossing (Amod)	
5	323+180	323+200	GETCO		66 KV	20	Electric Line Crossing (Amod)	
6	323+200	323+210	Amod		11 KV	10	Electric Line Crossing (Amod)	
7	323+380	323+440	Amod		11 KV	60	Electric Line Crossing (Amod)	
8	324+090	324+110	GETCO		1 Tower/220KV	20	High Tension Line Crossing	
9	324+600	324+610	Karjan		2/11KV	10	Electric Line Crossing	Within ROW (LHS)
10	324+700	324+705	Karjan	LHS		5	Transformer	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
11	324+800	324+830	Karjan		2/11KV	30	Electric Line Crossing	
12	324+690	324+710	Karjan		3/11KV	20	Electric Line Crossing	
13	325+100	325+115	GETCO		1 Tower/220KV	15	High Tension Line Crossing	
14	325+180	325+190	Karjan		11 KV	10	Electric Line Crossing	
15	325+780	325+790	Karjan	LHS		10	Transformer	
16	325+550	325+570	Karjan		11 KV	20	Electric Line Crossing	
17	325+600	325+630	Karjan		11 KV	30	Electric Line Crossing	
18	326+400	326+420	GETCO		1 Tower/220KV	20	High Tension Line Crossing	
19	326+900	326+910	Karjan		11 KV	10	Electric Line Crossing	
20	327+175	327+205	GETCO		220KV	30	High Tension Line Crossing	
21	327+280	327+290	Karjan		11 KV	10	Electric Line Crossing	
22	327+280		Karjan	RHS		5	Transformer	Entire ROW
23	327+700	327+710	Karjan		11 KV	10	Electric Line Crossing	MCW to ROW (RHS)
24	327+730	327+740	Karjan		11KV	10	Electric Line Crossing	
25	327+750	327+760	Karjan		11KV	10	Electric Line Crossing	
26	329+290	329+310	Karjan		11 KV	20	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
27	329+310	329+330	Karjan		11 KV	20	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
28	330+270	330+275	Karjan	RHS	11 KV	5	Transformer	Only MCW
29	330+275	330+570	Karjan	8 Line	12 KV	65	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
30	331+230	331+240	Karjan		11 KV	10	Electric Line Crossing	MCW
31	331+430	331+440	Karjan		11 KV	10	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
32	331+800	331+820	Karjan		11 KV	20	Electric Line Crossing	
33	331+900	331+920	Karjan		11 KV	20	Electric Line Crossing	
34	331+930	331+950	GETCO		66 KV	20	High Tension Line Crossing	
35	332+050	332+060	Karjan		11 KV	10	Electric Line Crossing	
36	332+130	332+150	Karjan		11 KV	20	Electric Line Crossing	
37	332+410	332+450	Karjan		11 KV	40	Electric Line Crossing	
38	332+490	332+500	Karjan	RHS		5	Transformer	
39	333+100	333+130	Karjan		11 KV	30	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW
40	333+340	333+350	Karjan	LHS		5	Transformer	
41	333+520	333+540	Karjan		11 KV	20	Electric Line Crossing	
42	333+620	333+720	Karjan		11 KV	100	Electric Line Crossing	
43	333+950	334+000	Karjan		11 KV	50	Electric Line Crossing	
44	334+220	334+240	Karjan		11 KV	20	Electric Line Crossing	
45	334+575	334+590	Karjan		11 KV	15	Electric Line Crossing	
46	334+585	334+610	Karjan		11 KV	35	Electric Line Crossing	
47	334+610	334+640	Karjan		11 KV	25	Electric Line Crossing	
48	334+690	334+720	Karjan		11 KV	30	Electric Line Crossing	
49	334+730	334+770	Karjan	2 Line	11 KV	40	Electric Line Crossing	MCW to ROW (RHS)
50	334+800	334+830	Karjan		11 KV	30	Electric Line Crossing	
51	335+370	335+400	Padra-1		11 KV	30	Electric Line Crossing	
52	335+370	335+400	Padra-1	LHS	11 KV	30	Electric Line Crossing	
53	336+080	336+130	PGCIL		400KV	50	High Tension Line Crossing	
54	337+470	337+510	Padra-1		11 KV	40	Electric Line Crossing	
55	337+580	337+620	Padra-1		11 KV	40	Electric Line Crossing	
56	338+480	338+550	Padra-1		11 KV	70	Electric Line Crossing	
57	339+670	339+720	Padra-1		11 KV	50	Electric Line Crossing	MCW, Shoulder and Service Road Affected because the electric line crossing over the Entire ROW



**Eight-Laning of Vadodara Kim Expressway from Km 323.000 to Km 355.000**

**Details of Electrical Utilities**

SR. NO.	CHAINAGE		Division	SIDE	TYPE	EFFECTED LENGTH (Mt.)	REMARKS	Affected Zone	
	To	From							
58	339+670	339+700	Padra-1		11 KV	30	Electric Line Crossing	MCW, Shoulder and Service Road Affetcted because the electric line crossing over the Entire ROW	
59	340+800	340+950	Torrent		400KV	150	High Tension Line Crossing		
60	341+610	341+650	Padra-1		11 KV	40	Electric Line Crossing		
61	341+790	341+820	Padra-1		11 KV	30	Electric Line Crossing		
62	341+780	341+790	Padra-1	C/L	11 KV	10	Transformer		
63	343+850	343+870	Padra-1		11 KV	20	Electric Line Crossing		
64	343+950	344+000	Padra-1		11 KV	50	Electric Line Crossing		
65	344+000	344+060	Padra-1		11 KV	60	Electric Line Crossing		
66	344+200	344+280	Padra-1		11 KV	80	Electric Line Crossing		
67	345+100	345+120	Padra-1	LHS		20	Transformer		
68	348+470	348+480	Padra-1		11 KV	10	Electric Line Crossing		
69	348+780	348+850	Padra-1		11 KV	70	Electric Line Crossing		
70	349+150	349+160	Padra-2		12 KV	10	Electric Line Crossing		
71	349+440	349+470	Padra-2		11 KV	30	Electric Line Crossing		
72	350+340	350+400	Padra-2		11 KV	60	Electric Line Crossing		
73	350+320	350+330	Padra-2	RHS		10	Transformer		
74	351+400	351+420	Padra-2		11 KV	20	Electric Line Crossing		
75	351+420	351+430	Padra-2	LHS		10	Transformer		
76	351+530	351+540	Padra-2		11 KV	10	Electric Line Crossing		
77	351+680	351+800	Padra-2		11 KV	10	Electric Line Crossing		
78	351+820	351+825	Padra-2		11 KV	5	Electric Line Crossing		
79	351+830	351+835	Padra-2		11 KV	5	Electric Line Crossing		
80	351+870	351+875	Padra-2		11 KV	5	Electric Line Crossing		
81	351+875	351+885	Padra-2		11 KV	10	Electric Line Crossing		
82	351+885	351+915	Padra-2		11 KV	30	Electric Line Crossing		
83	352+300	352+310	Padra-2		11 KV	10	Electric Line Crossing		
84	352+445	352+460	Padra-2		11 KV	15	Electric Line Crossing		
85	353+415	353+425	Padra-2		11 KV	10	Electric Line Crossing		
86	353+445	353+470	Padra-2		11 KV	25	Electric Line Crossing		
87	353+510	353+520	Padra-2		11 KV	10	Electric Line Crossing		
88	353+525	353+550	Padra-2		11 KV	25	Electric Line Crossing		
89	353+670	353+920	Padra-2		11 KV	10	Electric Line Crossing		
90	353+950	353+960	GETCO		66 KV	10	High Tension Line Crossing		
91	354+000	354+010	GETCO		66 KV	10	High Tension Line Crossing		
92	354+240	354+250	Padra-2		11 KV	10	Electric Line Crossing		
93	354+830	354+835	Padra-2		11 KV	5	Electric Line Crossing		
94	354+950	354+960	Padra-2		11 KV	10	Electric Line Crossing		
					<b>TOTAL LENGTH</b>	<b>2310</b>			



Details of Water Pipe Lines/Borewell/Canal Crossing						
SR. NO.	CHAINAGE		SIDE	TYPE	EFFECTED LENGTH	REMARKS
	To	From				
1	323+040	323+050	LHS	CANAL CROSSING		
2	323+165	323+175	C/L	TUBEWELL	10	
3	324+160	324+185	BHS	CANAL CROSSING		
4	324+180	324+210	BHS	CANAL CROSSING		
5	324+225	324+250	BHS	CANAL CROSSING		
6	324+215	324+240	BHS	CANAL CROSSING		
7	324+600	324+610	LHS	TUBEWELL	10	
8	324+960	324+980	BHS	CANAL CROSSING		
9	325+200	325+210	LHS	TUBEWELL	10	
10	326+830	326+850	BHS	CANAL CROSSING		
11	327+280	327+290	RHS	TUBEWELL	10	
12	328+340	328+360	BHS	CANAL CROSSING		
13	329+375	329+385	RHS	TUBEWELL	10	
14	330+280	330+290	C/L	TUBEWELL	10	
15	330+520	330+580	BHS	CANAL CROSSING		
16	330+620	330+630	RHS	TUBEWELL	10	
17	330+820	330+840	BHS	CANAL CROSSING		
18	331+400	331+410	RHS	TUBE WELL	10	
19	331+800	331+835	RHS	IRRIGATION CHANNEL		
20	332+640	332+660		Nala	20	
21	333+270	333+300	BHS	IRRIGATION CHANNEL		
22	333+350	333+360	LHS	TUBE WELL	10	
23	333+670	333+730	BHS	IRRIGATION CHANNEL		
24	334+815	334+825	C/L	TUBE WELL	10	
25	335+075	335+100	BHS	CANAL CROSSING		
26	336+750	336+900		Vishvavitri river		
27	338+595	338+605	RHS	TUBEWELL	10	
28	338+950	338+960	RHS	TUBE WELL	10	
29	339+550	339+675	BHS	CANAL CROSSING		
30	341+600	341+610	RHS	TUBE WELL	10	
31	342+540	342+560	BHS	CANAL CROSSING		
32	343+240	343+260	RHS	WATER PIPE LINE	20	
33	345+175	345+185	LHS	TUBE WELL	10	
34	345+490	345+510	BHS	CANAL CROSSING		
35	346+740	346+760	BHS	CANAL CROSSING WITH CULVERT		
36	347+530	347+550	BHS	CANAL CROSSING		
37	349+455	349+465	LHS	TUBE WELL	10	
38	350+300	350+315	BHS	TUBE WELL	15	
39	351+240	351+260	RHS	CANAL CROSSING		
40	351+245	351+255	C/L	TUBE WELL	10	
41	351+415	351+435	BHS	WATER LINE CROSSING	20	
42	351+530	351+540	RHS	WELL	10	
43	352+880	353+000	RHS	CANAL CROSSING		



44	354+330	354+340	RHS	BOREWELL	10	
				TOTAL LENGTH	255	



Details of Permanent structure like Building etc.					
Sr. No.	Chainage		Side	Structure type	Effectd Length(m)
	To	From			
1	323+165	323+175	LHS	House	10
2	327+280	327+320	RHS	COW SHELTER	40
3	329+350	329+355	LHS	COW SHELTER	5
4	329+365	329+375	BHS	HOUSE	10
5	330+320	330+330	BHS	HOUSE	10
6	335+415	335+425	LHS	HOUSE	10
7	338+580	338+620	RHS	HOUSE	40
8	338+920	338+930	RHS	HOUSE	10
9	339+650	339+670	LHS	MEDICAL CAMPUS BOUNDARY WALL	20
10	341+780	341+810	LHS	ONGC GAS OFFICE	30
<b>TOTAL LENGTH</b>					<b>185</b>



**Details of Hindered Land at Site as on 31.08.2019**

Sr. No.	Chainage from	Affected length	Village Name	Survey No.	Structure/ Highway	Owner Name	Hindrance Description
1	325+160 325+320	340	Sanpa	337	HPC	Govardhanbhai Ranchoddas	Award of Rs. 1 lakh against tube well submitted to CALA for payment. 3A for some increased area processed by SEACON for approval of CALA & further action.
2	325+160 325+500		Sanpa	527	Highway	Mohadbhai aslam esab	3A for some increased area processed by SEACON for approval of CALA & further action.
3	326+210 326+250	40	Sanpa	169	Highway	Patel Babubhai ambalal	3A for some increased area processed by SEACON for approval of CALA & further action.
4	327+250 327+300	50	Bodka	70	Highway	Vinunbhai kanjibhai Gondiyal	Award of Rs. 1 lakh against tube well submitted to CALA for payment.
5	327+800 328+000	200	Bodka	95	HPC	Vinodbhai Kanjibhai Patel	150 tree compensation paid by NHAI while owner claims that 2218 tree are present at site which needs to be considered for payment.
6	328+530 328+580	50	Bodka	161	Highway	Neelesh Patel	NHAI acquired 3 guntha Land but farmer claims that 11 Guntha land occupied by NHAI. CALA office is being persuade for settlement of additional claim of land owner.
7	329+310 329+400	90	Kanbha	413,10	LVUP	Malik Yusuphbhai & Mohan Kashi Prajapati	For Survey No.413, Award of Rs. 1 lakh against tube well submitted to CALA for payment. For Survey No.10, payment not made for structures (Cow Shelter).
8	330+250 330+300	50	Kanbha	296	Highway	Idrishbhai ahamadbhai	Award of Rs. 1 lakh against tube well submitted to CALA for payment. 3A for some increased area processed by SEACON for approval of CALA & further action.
9	331+100 331+280	180	Handod	41	HPC	Pannubhai Bhatt	CALA office is being persuade for payment of additional claim of land owner.
10	331+510 331+690	180	Handod	19	Highway	Ashokbhai bhatt	Payment done but owner claims that lesser nos. of trees considered for payment than the actual available at site.
11	331+750 331+850	100	Handod	15	VUP,BOX	Natversinh Gohil	Payment done but owner claims that lesser nos. of trees considered for payment than the actual available at site.
12	331+780 331+800	20	Handod	8/108B	Highway	Prfulbhai Bhatt/ Natversinh Gohil	DLR has deputed surveyor on 22.08.19 for verification of ownership dispute
13	332+870 332+950	80	Handod	234	Highway	Patel Ranjanben	Payment done but owner claims that lesser nos. of trees considered for payment than the actual available at site.



14	338+200	338+400	200	Hosepur	276	HPC	Somabhai Vasava	DLR submitted report for updation of owner's name in revenue record
15	351+250	351+350	100	Sonkhra Khurd	77	BOX.VUP	Jagdishbhai Shivabhai Jadhav	Forced possession is being persuaded after collection of possession letter (Kabza Pawti)
16	352+550	352+650	100	Sonkhra Khurd	199	Highway	Bhailalbai Shakarbhai Solanki	Forced possession is being persuaded after collection of possession letter (Kabza Pawti)
			<b>1780</b>					



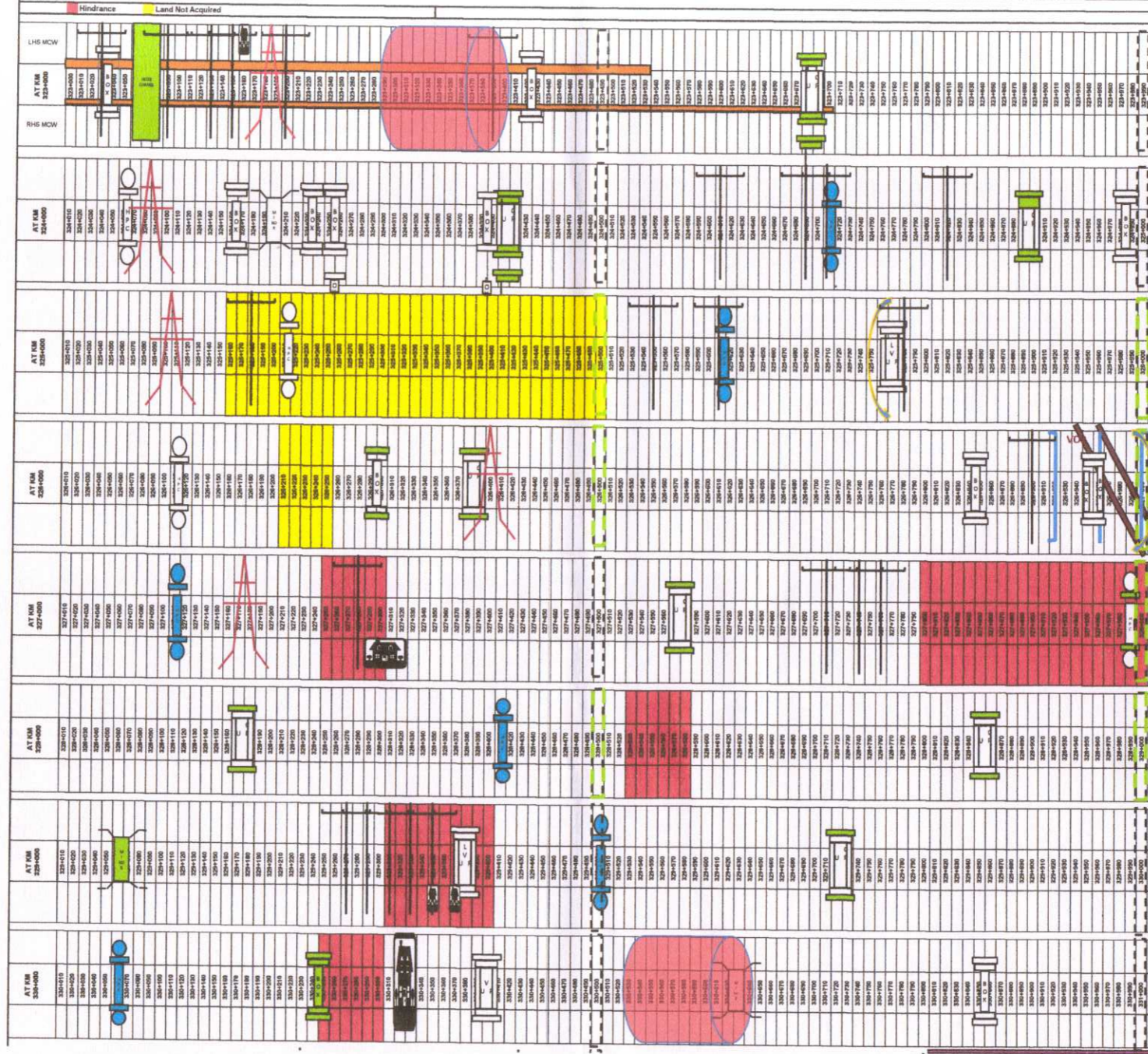
Eight-Laning of Vadodara Kim Expressway from Km 323.000 to Km 355.000					
Details of Gas Pipe Lines					
SR. NO.	Chainage	SIDE	TYPE	EFFECTED LENGTH	REMARKS
1	323+290 to 323+400	BHS	ONGC GAS LINE	110	
2	330+530 to 330+650	BHS	GSPL Line	120	
3	341+780 to 341+880	BHS	ONGC GAS LINE	100	
4	343+310 to 343+620	BHS	ONGC & GAIL PIPE LINE	310	
5	343+850 to 343+900	RHS	GAS PIPE LINE	50	
6	352+490 to 352+620	BHS	ONGC Line	130	
			<b>TOTAL LENGTH</b>	<b>820</b>	



Eight-Laning of Vadodara Kim Expressway from Km 323.000 to Km 355.000				
Details of Religious Structures like Temple, Mosque etc.				
Sl. No.	Temple Chainage	Side	EFFECTED LENGTH	Remarks
1	353+670	Centerline	20	Temple
2	353+670	LHS	20	Mazar/Mosque
		<b>TOTAL LENGTH</b>	<b>40</b>	

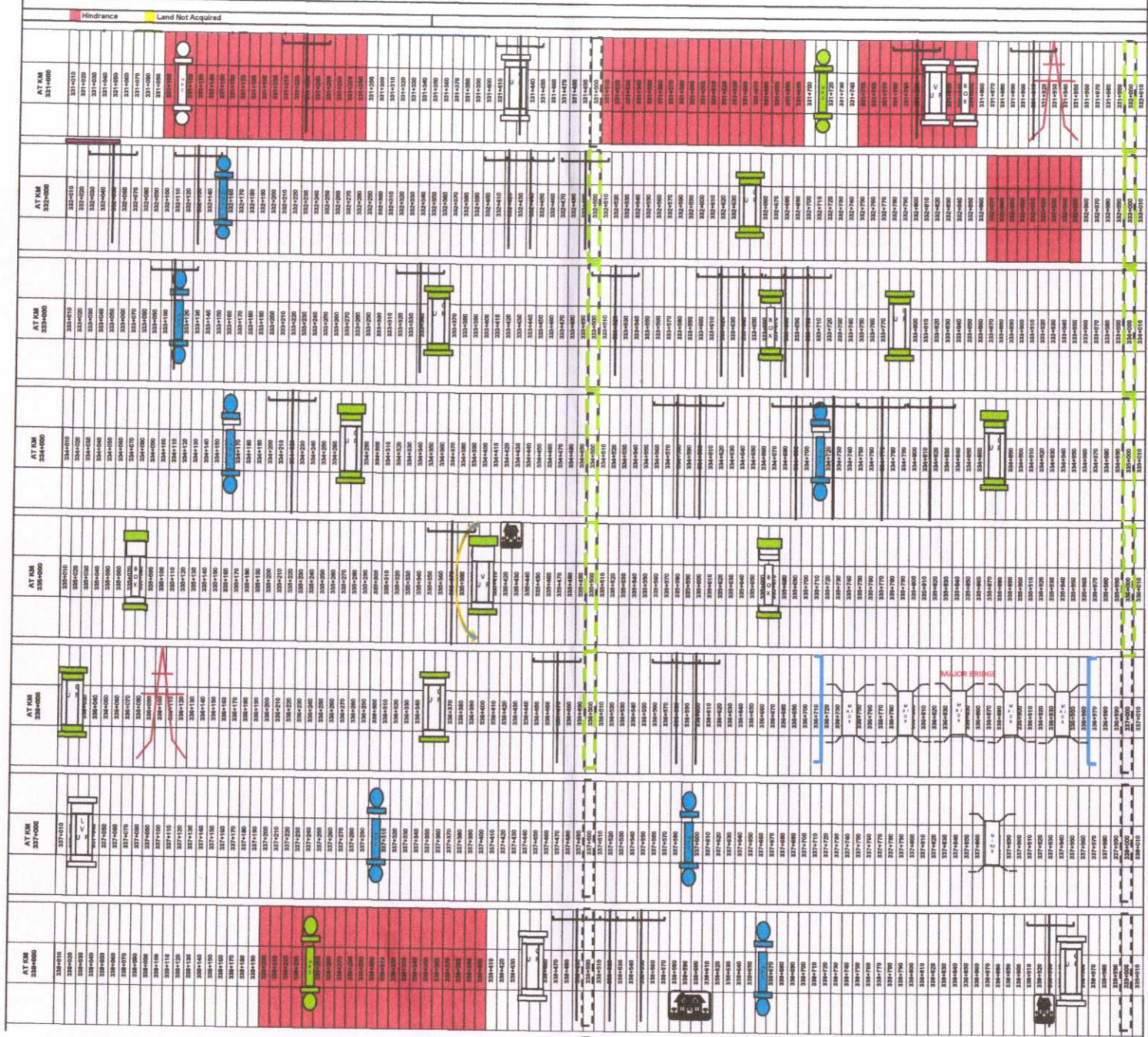


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



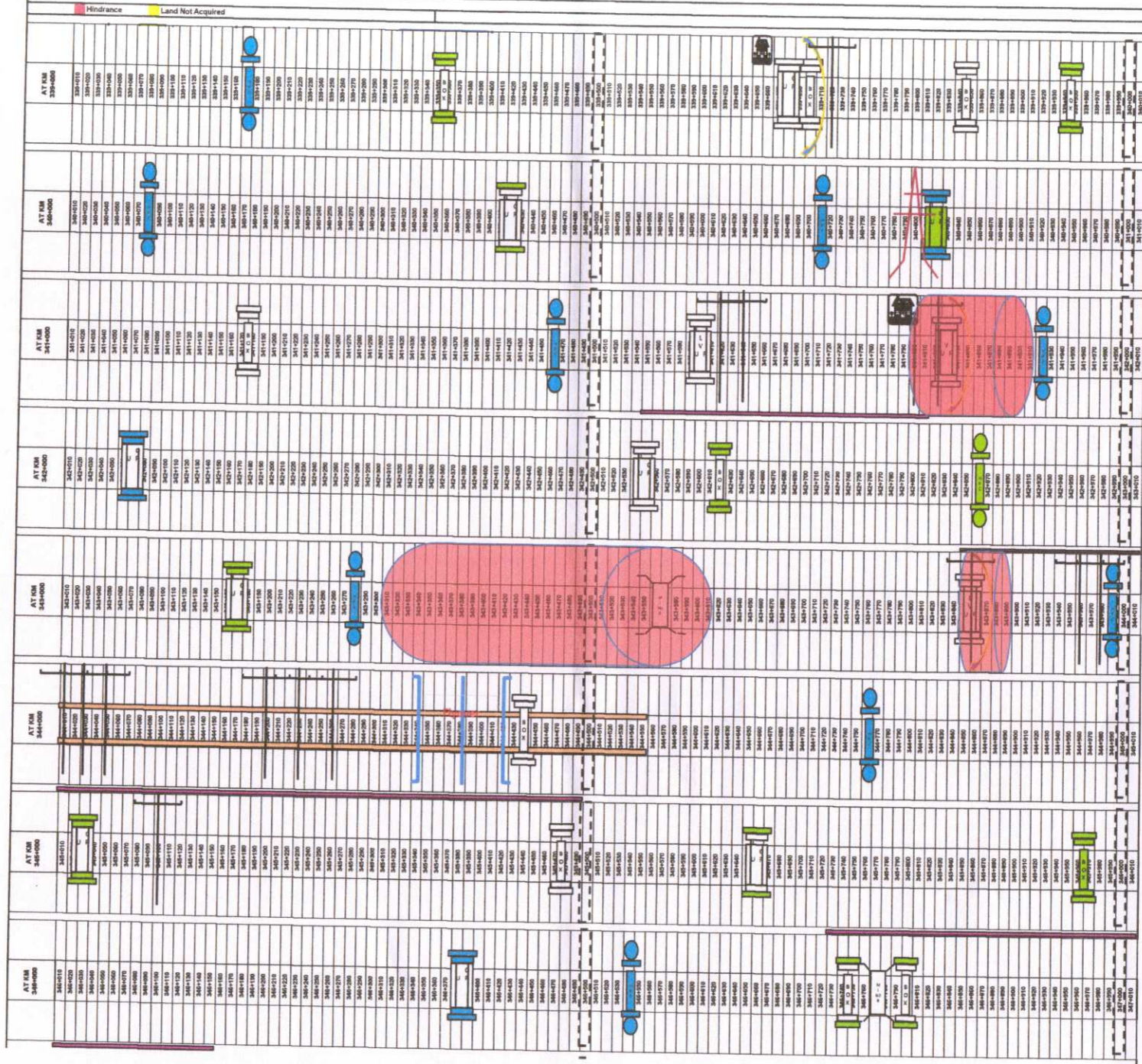


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



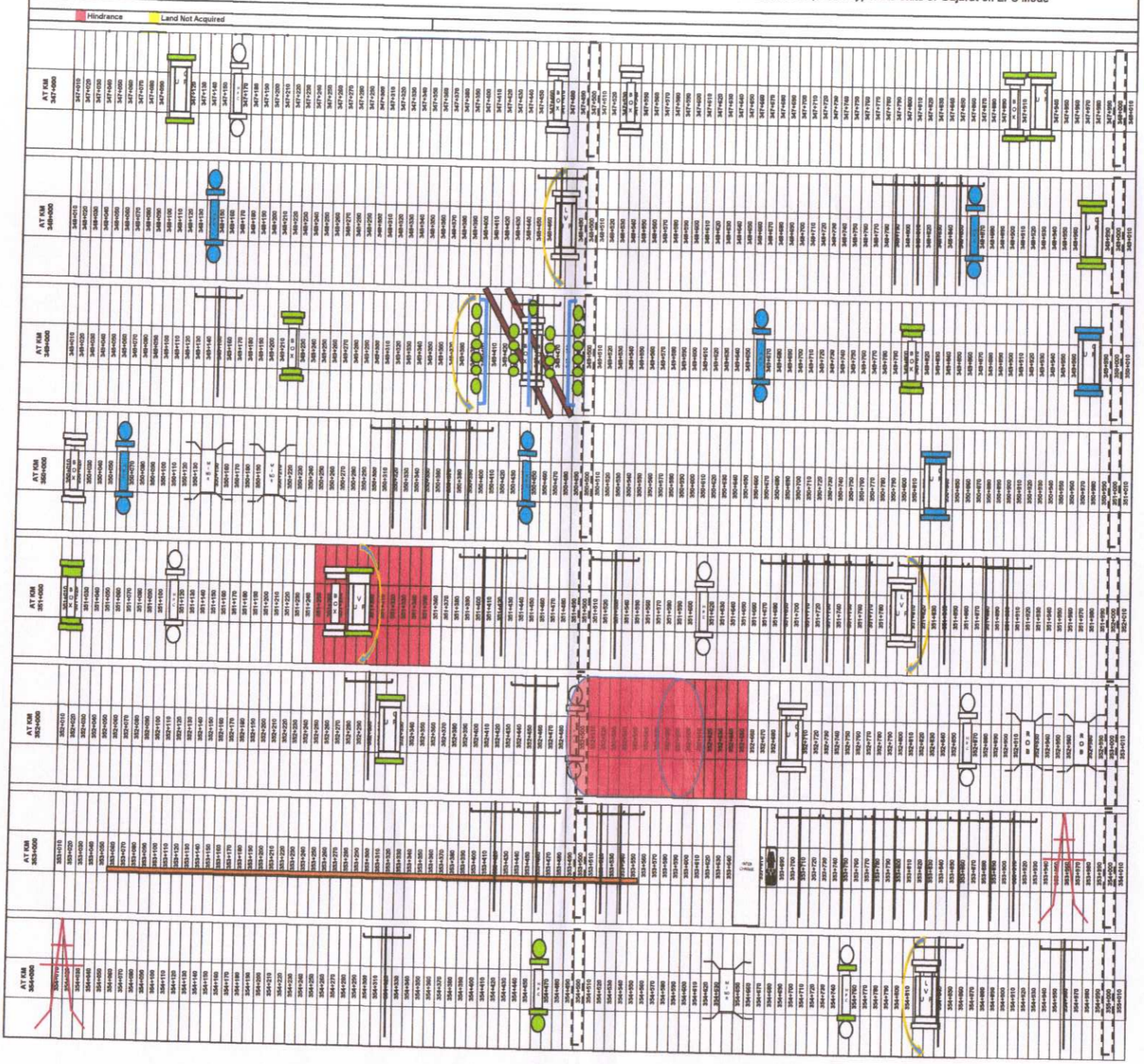


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode





Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode





## Details of Letter Correspondence From PIL TO IRCON

Sr.	Date	Letter No.	Subject
1	01.09.2019	PIL/ VK2/ IRCON/ 235 / 2019	Regarding Submission of Vendor Credentials for Supplying Reinforcement Couplers- "M/S Unitech Couplers India Pvt. Ltd. An ISO 9001-2008 Certified Company", for Approval
2	03.09.2019	PIL/ VK2/ IRCON/ 236 / 2019	Source Visit of Strata Geosystems (India) Pvt. Ltd.
3	03.09.2019	PIL/ VK2/ IRCON/ 237 / 2019	Compliance Under Applicable Labour Laws in Connection with Issuance of Form-III
4	03.09.2019	PIL/ VK2/ IRCON/ 238 / 2019	Submission of Permeability test report and Gradation test report of GSB Material.
5	04.09.2019	PIL/ VK2/ IRCON/ 239 / 2019	Submission of Monthly Progress Report for the Month of Aug '19.
6	04.09.2019	PIL/ VK2/ IRCON/ 240 / 2019	Submission of 28 Days Compressive Strength Report of RE Block Mix Design.
7	06.09.2019	PIL/ VK2/ IRCON/ 241 / 2019	Submission of Mix design for RE Block. (Ultratech Cement)
8	06.09.2019	PIL/ VK2/ IRCON/ 242 / 2019	Submission of Mix design for Concreting. (Ultratech, Nuvoco, Siddhi,Hathi and Sanghi_ Cement)
9	09.09.2019	PIL/ VK2/ IRCON/ 243 / 2019	Submission of DLC Mix Design.
10	10.09.2019	PIL/ VK2/ IRCON/ 244 / 2019	Regarding Presentation of Proposed System of RE WALL
11	12.09.2019	PIL/HO/VKP2/IRCON/615/2019	Submission of Design & Drawings of Toe Wall
12	16.09.2019	PIL/ VK2/ IRCON/ 246 / 2019	Source Visit Conash Infrastructure, Wanakbori Thermal Power Station.
13	21.09.2019	PIL/ VK2/ IRCON/ 247 / 2019	Submission of Design & Reinforced Soil wall & Company profile & Credential of M/s Strata Geosystem (I) Pvt. Ltd. for Construction of bridges by way of Design & Construction of Reinforced Soil Walls
14	21.09.2019	PIL/ VK2/ IRCON/ 248 / 2019	Submission of IPC - 2
15	22.09.2019	PIL/ VK2/ IRCON/ 249 / 2019	Review of estimate from various utility owning agencies viz. GETCO, TPGL, PGCIL, MGVCL by Independent Engineer
16	23.09.2019	PIL/ VK2/ IRCON/ 250 / 2019	Submission of estimates.
17	23.09.2019	PIL/HO/VKP2/IRCON/625/2019	Submission of Geo-Technical Investigation Reports
18	23.09.2019	PIL/ VK2/ IRCON/ 252 / 2019	Regarding Authorization of Signing RFI, Lab Reports, Survey Reports (Level Sheet).
19	26.09.2019	PIL/ VK2/ IRCON/ 253 / 2019	Additional 3A approval and payment disbursement of certain survey no. of some villages.



Sr.	Date	Letter No.	Subject
1	02.09.2019	IRCON/ 3019/ VKE/ PATEL / 786	Approval of Mix Design for Granular Sub-base with Timba based Quarry
2	02.09.2019	IRCON/ 3019/ VKE/ PATEL / 788	Submission of Steel, Cement, Concrete Admixture & Bontonite Third Party Test Result Report
3	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 790	Estimate for shifting / Modification of EHV Transmission line of 400 KV SUGEN/PIRANA/VAPI/Jhanor/DEGN Lines.
4	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 791	Review of estimate from various utility owning agencies viz. GETCO, TPGL, PGCIL, MGVCL by Independent Engineer
5	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 793	To decide the market rate of Well, Room, Electricity connection, Pipeline etc. for the land acquired for Vadodara - Mumbai Expressway Project.
6	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 794	More land used against actual acquired land for S. No. 247/A, 247/B, 260 and 261 Moje: Goriyad, Tal.: Padra
7	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 795	More land used against actual acquired land for S. No. 161, Moje: Bodka, Tal.: Karjan
8	03.09.2019	IRCON/ 3019/ VKE/ PATEL / 796	Estimated for Line Shifting for Vadodara Mumbai under Option-II
9	04.09.2019	IRCON/ 3019/ VKE/ PATEL / 798	Issuance of Form-III
10	07.09.2019	IRCON/ 3019/ VKE/ PATEL / 807	Approval of the Nigam for crossing of 19 Nos. of Narmada Canal under Block No. 9A3 and 9C1 for proposed Vadodara - Mumbai Expressway to be executed under NHDP Phase - 1 by NHAI & Approval of proposed structure for 13 Canal crossing falling under Narmada Project Canal Division No. 5 Karjan Between Ch. 315+230 to 333+650 of Vadodara Mumbai Expressway
11	07.09.2019	IRCON/ 3019/ VKE/ PATEL / 808	Programme of Inspection on the Project Expressway for the Month of August 2019
12	09.09.2019	IRCON/ 3019/ VKE/ PATEL / 809	Submission of revised Highway drawing (Plan and Profile from Km 323+000 to 355+000
13	13.09.2019	IRCON/ 3019/ VKE/ PATEL / 815	Physical Progress and Financial Progress Details - Scheduled Vs Achieved since the Appointed date Backup details requested
14	16.09.2019	IRCON/3019/VKE/ PIL/1003/817	Regarding extension of cure period of achievement of project Milestones Reg.
15	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 818	Submission of Estimates
16	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 819	Supervision Charges
17	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 820	Supervision Charges
18	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 821	Supervision Charges
19	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 822	Approval of the Nigam for crossing of 19 Nos. of Narmada Canal under Block no. 9A3 and 9C1 for proposed Vadodara - Mumbai Expressway to be executed under NHDP Phase -I by NHAI.
20	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 823	Approval of proposed structure for 13 canal crossing falling under Narmada Project Canal Division no. 5, Karjan between Ch. 315+230 to 333+650 of Vadodara - Mumbai Expressway
21	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 824	Source visit of Strata Geosystems (India) pvt. Ltd.
22	16.09.2019	IRCON/ 3019/ VKE/ PATEL / 825	Submission of 28 days Compressive Strength Report of RE Block Mix Design



## Details of Letter Correspondence From IRCON TO PIL

Sr.	Date	Letter No.	Subject
23	17.09.2019	IRCON/ 3019/ VKE/ PATEL / 826	Submission of Permeability test report and Gradation test report of GSB Material
24	17.09.2019	IRCON/ 3019/ VKE/ PATEL / 827	Damaging the Dayadra - Nabipur four Lane Road (MDR) by ongoing construction of Vadodara - Mumbai Expressway.
25	17.09.2019	IRCON/ 3019/ VKE/ PATEL / 828	Gail Utility Shifting
26	18.09.2019	IRCON/ 3019/ VKE/ PATEL / 831	Submission of Revised design and drawings for VUP at Km. 331+843, 341+843 and Km. 351+303
27	18.09.2019	IRCON/ 3019/ VKE/ PATEL / 832	Status update for USW works estimates as per NHAI circular 108225
28	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 833	Submission of Mix Design for RE Block
29	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 834	Construction Of 8 Lane Vadodara Kim Expressway at Nhais 330 +530 To 330+750 KM
30	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 835	Shifting of various 220 KV & 400 KV Transmission lines of POWERGRID for the proposed Vadodara- Mumbai Eight Lane Expressway in state of Gujarat
31	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 836	Approval of proposed structure for 13 canal crossing falling under Narmada Project Canal Division no. 5, Karjan between Ch. 315+230 to 333+650 of Vadodara - Mumbai Expressway
32	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 837	Estimate for Shifting various 66 KV and EHV class existing transmission lines for M/s NHAI under deposit work Option-II, under Construction Division, Jambuva of Jambuva Circle
33	20.09.2019	IRCON/ 3019/ VKE/ PATEL / 838	Request to Providing financial assistance against Work done of the Project Expressway
34	23.09.2019	IRCON/ 3019/ VKE/ PATEL / 843	Improper Protection and stacking of Reinforcement bars
35	23.09.2019	IRCON/ 3019/ VKE/ PATEL / 844	Safety during construction
36	23.09.2019	IRCON/ 3019/ VKE/ PATEL / 845	Initial Pile Load Test
37	23.09.2019	IRCON/ 3019/ VKE/ PATEL / 846	Observations on Diversion Road
38	24.09.2019	IRCON/ 3019/ VKE/ PATEL / 847	Review of Design and Drawings of foundation, sub-structure and super structure of Major Bridge at Km 336+810
39	25.09.2019	IRCON/ 3019/ VKE/ PATEL / 848	Submission of Compliance with details for Quality Assurance Plan.
40	25.09.2019	IRCON/ 3019/ VKE/ PATEL / 849	Physical progress as per annexure I of Schedule J of Contract Agreement
41	26.09.2019	IRCON/ 3019/ VKE/ PATEL / 851	Physical and Financial Progress details - schedule Vs Achieved since the Appointed Date - Backup details requested
42	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 852	Hindrance of GAIL Gas Pipe Line in Executive of Piling Work of MNB at KM 343+566
43	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 853	Submission of drawing and design report for VUP at Ch. 330+402
44	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 854	Submission of Method Statement for Separation Layer works with Non - Woven Geotextile.
45	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 855	Submission of Mix design for concreting
46	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 856	Submission of DLC Mix design
47	27.09.2019	IRCON/ 3019/ VKE/ PATEL / 858	Submission of Company Profile and credentials of M/s Conash Infrastructure for the supply of



### Details of Letter Correspondence From IRCON TO PIL

Sr.	Date	Letter No.	Subject
			Material "Fly Ash"
48	28.09.2019	IRCON/ 3019/ VKE/ PATEL / 860	Estimate for Shifting various 66 KV and EHV class existing transmission lines for M/s NHAI under deposit work option-II, under construction Division, Jambuva of Jambuva circle.
49	30.09.2019	IRCON/ 3019/ VKE/ PATEL / 862	To provide facility for exit of monsoon water at Village: Survada, Taluka: Karjan Dist.: Vadodara due to construction of Vadodara-Mumbai Expressway
50	30.09.2019	IRCON/ 3019/ VKE/ PATEL / 863	Approval of GADs for canal crossing falling under N. P Canal Planing & Design Division, Five (5) bridge at VME Ch. 290+065, 291+275, 307+734, 309+853 and 312+815 & Fifteen (15) RCC Box/Hume Pipe
51	30.09.2019	IRCON/ 3019/ VKE/ PATEL / 864	Notice under Article 21 of the Contract Agreement Reporting occurrence, Nature and extend of Force Majeure: Non-Political event and for consequent claim and entitlement
52	30.09.2019	IRCON/ 3019/ VKE/ PATEL / 865	Physical and Financial progress details - Scheduled vs Achieved since the appointed date - Backup details requested



## MONTHLY WEATHER REPORT

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

For The Month of September-19

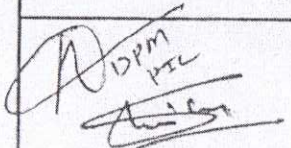
Client  
Concessionaire  
Independent Engineer  
EPC Contractor  
Contractor

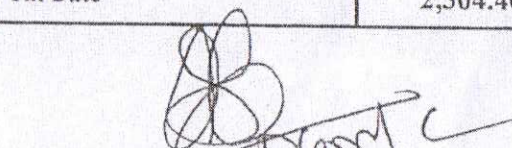
National Highways Authority of India  
Irecon Vadodara Kim Expressway Ltd.  
Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
Irecon International Ltd.  
Patel Infrastructure Ltd.

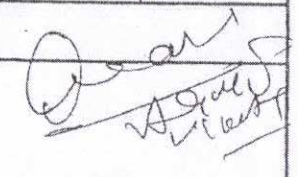
S. No.	DATE	TEMPRATURE (°C)		HUMIDITY (%)		RAINFALL (mm)	CUMMULATIVE RAINFALL (mm)	WEATHER	REMARKS
		Min.	Max.	Min.	Max.				
1	01-Sep-19	28.80	33.70	66.00	94.00	5.00	5.00		
2	02-Sep-19	28.70	33.40	70.00	95.00	-	5.00		
3	03-Sep-19	29.00	32.90	69.00	98.00	-	5.00		
4	04-Sep-19	26.80	32.90	70.00	99.00	54.50	59.50		
5	05-Sep-19	28.10	33.10	73.00	94.00	12.00	71.50		
6	06-Sep-19	28.10	33.40	71.00	94.00	-	71.50		
7	07-Sep-19	28.10	33.60	71.00	94.00	-	71.50		
8	08-Sep-19	29.10	33.30	71.00	94.00	-	71.50		
9	09-Sep-19	27.40	30.80	88.00	99.00	78.10	149.60		
10	10-Sep-19	27.10	28.90	92.00	99.00	70.00	219.60		
11	11-Sep-19	27.80	30.20	87.00	99.00	-	219.60		
12	12-Sep-19	27.90	31.40	82.00	99.00	-	219.60		
13	13-Sep-19	28.20	29.50	87.00	99.00	2.20	221.80		
14	14-Sep-19	27.80	30.20	87.00	99.00	-	221.80		
15	15-Sep-19	27.80	30.70	83.00	99.00	-	221.80		
16	16-Sep-19	27.20	30.60	79.00	99.00	-	221.80		
17	17-Sep-19	27.20	33.90	66.00	99.00	-	221.80		
18	18-Sep-19	26.70	32.80	67.00	99.00	4.50	226.30		
19	19-Sep-19	27.00	32.70	74.00	99.00	-	226.30		
20	20-Sep-19	27.30	32.50	73.00	99.00	22.20	248.50		
21	21-Sep-19	27.50	32.50	69.00	99.00	5.00	253.50		
22	22-Sep-19	26.40	33.10	65.00	99.00	92.00	345.50		
23	23-Sep-19	26.50	34.10	71.00	94.00	34.00	379.50		
24	24-Sep-19	26.10	33.70	78.00	96.00	-	379.50		
25	25-Sep-19	26.40	33.50	66.00	99.00	64.00	443.50		
26	26-Sep-19	24.00	32.00	69.00	98.00	42.00	485.50		
27	27-Sep-19	24.30	31.80	63.00	87.00	52.00	537.50		
28	28-Sep-19	25.10	32.40	65.00	99.00	10.00	547.50		
29	29-Sep-19	27.60	30.70	77.00	94.00	32.00	579.50		
30	30-Sep-19	25.30	29.50	62.00	96.00	67.00	646.50		

Cummulative Rainfall Till Date

2,304.40 mm

  
EPC Representative

  
Concessionaire Representative

  
IE Representative



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapura to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India  
 Concessionaire Iroon Vadodra Kim Expressway Ltd  
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor Iroon International Ltd.  
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)  
 Sep-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	I.E. Witness	Results		No. of Test Conducted	Results			
		Passed	Failed			Passed	Failed		Passed	Failed		
1	Proctor Test	226	0	0	0	0	0	226	0			
2	LL/PI	226	0	0	0	0	0	226	0			
3	Sand Content (GSA)	226	0	0	0	0	0	226	0		Frequency of testing is as per specification	
4	Free Swell Index	226	0	0	0	0	0	226	0			
5	C.B.R	30	0	0	0	0	0	30	0			

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	I.E. Witness	Results		No. of Test Conducted	Results			
		Passed	Failed			Passed	Failed		Passed	Failed		
1	Proctor Test	0	0	0	0	0	0	0	0			
2	LL/PI	0	0	0	0	0	0	0	0			
3	Sand Content (GSA)	0	0	0	0	0	0	0	0		Frequency of testing is as per specification	
4	Free Swell Index	0	0	0	0	0	0	0	0			
5	C.B.R	0	0	0	0	0	0	0	0			

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	I.E. Witness	Results		No. of Test Conducted	Results			
		Passed	Failed			Passed	Failed		Passed	Failed		
1	Proctor Test	0	0	8	8	8	8	8	0			
2	LL/PI	0	0	0	0	0	0	0	0			
3	Sand Content (GSA)	0	0	0	0	0	0	0	0		Frequency of testing is as per specification	
4	Free Swell Index	0	0	0	0	0	0	0	0			
5	C.B.R	0	0	14	12	14	14	12	2			

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**NATIONAL HIGHWAYS AUTHORITY OF INDIA**

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase I.A - Package-II)

Client  
National Highways Authority of India  
Concessionaire  
Iron Vadoara Kim Expressway Ltd  
Independent Engineer  
Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
EPC Contractor  
Iron International Ltd.  
Contractor  
Patel Infrastructure Ltd.

**MONTHLY PROGRESS REPORT (PKG-II)**

Sep-19

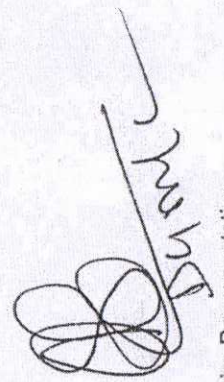
**Borrow Materials**

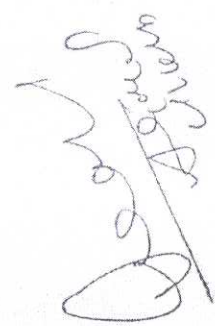
S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test Conducted during this Month					Cumulative Total		Remarks
		No. of Test Conducted	Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results		
			Passed	Failed		Passed	Failed			Passed	Failed	
1	Proctor Test	2545	0	0	0	0	0	0	2545	0	0	Frequency of testing is as per specification
2	LL/PI	2545	0	0	0	0	0	2545	0	0		
3	Sand Content (GSA)	2545	0	0	0	0	0	2545	0	0		
4	Free Swell Index	2545	0	0	0	0	0	2545	0	0		
5	C.B.R	485	473	12	5	5	0	490	478	12		
6	C.B.R (Soil Blended with Sand)	6	0	6	0	0	0	6	0	6		

**Soil Stabilization**

S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test Conducted during this Month					Cumulative Total		Remarks
		No. of Test Conducted	Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results		
			Passed	Failed		Passed	Failed			Passed	Failed	
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	LL/PI	0	0	0	0	0	0	0	0	0		
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0		
4	Free Swell Index	0	0	0	0	0	0	0	0	0		
5	C.B.R	0	0	0	0	0	0	0	0	0		

  
EPC Representative

  
Concessionaire Representative

  
IE Representative

Concessionaire Representative

IE Representative



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

Client  
National Highways Authority of India  
Concessionaire  
Iron Vadodara Kim Expressway Ltd  
Independent Engineer  
Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
EPC Contractor  
Iron International Ltd.  
Contractor  
Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Sep-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Proctor Test	8	0	0	0	0	0	8	0	8	0	Frequency of testing is as per specification
2	Gradation	94	3	68	2	7	162	157	5	157	5	
3	LL/PI	91	0	66	0	7	157	157	0	157	0	
4	10% fines Value	2	0	0	0	0	2	2	0	2	0	
5	AIV	10	0	0	0	0	10	10	0	10	0	
6	CBR	8	0	0	0	0	8	8	0	8	0	

Wet Mix Macadam

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	Gradation	0	0	0	0	0	0	0	0	0	0	
3	LL/PI	0	0	0	0	0	0	0	0	0	0	
4	A.I.V.	0	0	0	0	0	0	0	0	0	0	
5	F.I. & E.I.	0	0	0	0	0	0	0	0	0	0	
6	L.A.A.V	0	0	0	0	0	0	0	0	0	0	

Existing Site Sample (GSB/WMM)

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	Gradation	0	0	0	0	0	0	0	0	0	0	
3	LL/PI	0	0	0	0	0	0	0	0	0	0	
4	A.I.V.	0	0	0	0	0	0	0	0	0	0	
5	F.I. & E.I.	0	0	0	0	0	0	0	0	0	0	
6	10% fines Value	0	0	0	0	0	0	0	0	0	0	
7	Water Absorption	0	0	0	0	0	0	0	0	0	0	
8	L.A.A.V	0	0	0	0	0	0	0	0	0	0	
9	CBR	0	0	0	0	0	0	0	0	0	0	

82  
EPC Representative

CONTRACTOR  
Patel Infrastructure Ltd.

IE Representative

EPC Representative

Concessionaire Representative



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujarat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India  
 Concessionaire Iacon Vadoara Kim Expressway Ltd  
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor Iacon International Ltd.  
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)  
 Sep-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		No. of Test Conducted	I.E. Witness	Results		No. of Test Conducted	
		Passed	Failed		Passed	Failed			Passed	Failed		
A.	Compressive Strength of concrete											
1	Concrete (Grouting) 7 days	0	0	0	0	0	0	0	0	0	0	0
2	M-15 Concrete											
	7 Days	0	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0	0
3	M-20 Concrete											
	7 Days	295	0	113	113	0	32	408	408	0	0	0
	28 days	686	0	287	287	0	113	973	973	0	0	0
4	M-25 Concrete											
	7 Days	0	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0	0
5	M-30 Concrete											
	7 Days	69	0	41	41	0	5	110	110	0	0	0
	28 days	140	0	201	201	0	20	341	341	0	0	0
6	M-35 (Pile)											
	7 Days	202	0	218	218	0	104	420	420	0	0	0
	28 days	663	0	1816	1816	0	310	2479	2479	0	0	0
	M-35 (RCC)											
	7 Days	66	0	112	112	0	56	178	178	0	0	0
	28 days	299	0	688	688	0	100	987	987	0	0	0
	M-35 (RE)											
	7 Days	37	0	8	8	0	4	45	45	0	0	0
	28 days	120	0	37	37	0	25	157	157	0	0	0

*(Signature)*  
 Concessionaire Representative

*(Signature)*  
 IE Representative

*(Signature)*  
 EPC Representative







**NATIONAL HIGHWAYS AUTHORITY OF INDIA**

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujarat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

Client: National Highways Authority of India  
 Concessionaire: Ireon Vadoara Kim Expressway Ltd  
 Independent Engineer: Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor: Ireon International Ltd.  
 Contractor: Patel Infrastructure Ltd.

**MONTHLY PROGRESS REPORT (PKG-II)**

Sep-19

**Cement Testing**

**(i) OPC-43 Grade**

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Consistency	2	0	0	0	0	0	2	2	0	0	Frequency of testing is as per specification
2	Initial & Final Setting Time	2	0	0	0	0	0	2	2	0	0	
3	Fineness	2	0	0	0	0	0	2	2	0	0	
4	Specific Gravity	0	0	0	0	0	0	0	0	0	0	
5	3 days Comp. Strength	2	0	0	0	0	0	2	2	0	0	
6	7 days Comp. Strength	2	0	0	0	0	0	2	2	0	0	
7	28 days Comp. Strength	2	0	0	0	0	0	2	2	0	0	

**(ii) OPC-53 Grade**

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Consistency	24	0	17	0	5	5	41	41	0	0	Frequency of testing is as per specification
2	Initial & Final Setting Time	24	0	17	0	5	5	41	41	0	0	
3	Fineness	24	0	17	0	5	5	41	41	0	0	
4	Specific Gravity	0	0	0	0	0	0	0	0	0	0	
5	3 days Comp. Strength	27	0	22	0	0	0	49	49	0	0	
6	7 days Comp. Strength	26	0	17	0	0	0	43	43	0	0	
7	28 days Comp. Strength	18	0	8	0	0	0	26	26	0	0	

*(Signature)*  
 DPM P&E

*(Signature)*  
 EDC Representative

*(Signature)*  
 IREON

*(Signature)*

*(Signature)*  
 EDC Representative



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India  
 Concessionaire Irocon Vadodara Kim Expressway Ltd  
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor Irocon International Ltd.  
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Sep-19

Bitumen Testing

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks	
		Results		No. of Test Conducted	Results		I.E. Witness	Results		No. of Test Conducted	Results		
		Passed	Failed		Passed	Failed		Passed	Failed				
1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification	
2	Penetration	0	0	0	0	0	0	0	0	0	0		
3	Softening Point	0	0	0	0	0	0	0	0	0	0		
4	Ductility	0	0	0	0	0	0	0	0	0	0		
5	Viscosity	0	0	0	0	0	0	0	0	0	0		

(ii) VG 30

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks	
		Results		No. of Test Conducted	Results		I.E. Witness	Results		No. of Test Conducted	Results		
		Passed	Failed		Passed	Failed		Passed	Failed				
1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification	
2	Penetration	0	0	0	0	0	0	0	0	0	0		
3	Softening Point	0	0	0	0	0	0	0	0	0	0		
4	Ductility	0	0	0	0	0	0	0	0	0	0		
5	Viscosity	0	0	0	0	0	0	0	0	0	0		

Emulsion Testing

(i) Emulsion (RS-1)

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks	
		Results		No. of Test Conducted	Results		I.E. Witness	Results		No. of Test Conducted	Results		
		Passed	Failed		Passed	Failed		Passed	Failed				
1	Penetration	0	0	0	0	0	0	0	0	0	0		
2	Ductility	0	0	0	0	0	0	0	0	0	0		
3	Viscosity	0	0	0	0	0	0	0	0	0	0		

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**NATIONAL HIGHWAYS AUTHORITY OF INDIA**

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujarat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

Client: National Highways Authority of India  
 Concessionaire: Ircan Vadodara Kim Expressway Ltd  
 Independent Engineer: Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor: Ircan International Ltd.  
 Contractor: Patel Infrastructure Ltd.

**MONTHLY PROGRESS REPORT (PKG-II)**

Sep-19

(ii) Emulsion (SS-2)

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Penetration	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	0	
3	Viscosity	0	0	0	0	0	0	0	0	0	0	

Rate of Spread of Material

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Prime Coat	0	0	0	0	0	0	0	0	0	0	
2	Tack Coat	0	0	0	0	0	0	0	0	0	0	
3	Cement	0	0	0	0	0	0	0	0	0	0	

DBM (G-II) Testing (Site Sample)

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		Results		No. of Test Conducted	Results		I.E. Witness	No. of Test Conducted	Results			
		Passed	Failed		Passed	Failed			Passed	Failed		
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	0	0	0	0	0	0	0	0	
3	Binder Content of Mix	0	0	0	0	0	0	0	0	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	
5	After Extraction Gradation	0	0	0	0	0	0	0	0	0	0	
6	Marshal Specimen Testing (SET)	0	0	0	0	0	0	0	0	0	0	
7	Maximum Sp. Gravity (Gmm) Test	0	0	0	0	0	0	0	0	0	0	
8	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	0	
9	AIV Test	0	0	0	0	0	0	0	0	0	0	
10	LAAV Testing	0	0	0	0	0	0	0	0	0	0	
10	Core Density Testing	0	0	0	0	0	0	0	0	0	0	

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*(Handwritten signature)*



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India  
 Concessionaire Ireon Vadodara Kim Expressway Ltd  
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor Ireon International Ltd.  
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Sep-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks	
		Results		No. of Test Conducted	Results		No. of Test Conducted	Results		No. of Test Conducted	Results		
		Passed	Failed		Passed	Failed		Passed	Failed		Passed		Failed
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0		
2	Sand Equivalent Value	0	0	0	0	0	0	0	0	0	0		
3	Binder Content of Mix	0	0	0	0	0	0	0	0	0	0		
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0		
4	After Extraction Gradation	0	0	0	0	0	0	0	0	0	0		
5	Marshal Specimen Testing (SET)	0	0	0	0	0	0	0	0	0	0		
6	Maximum Sp. Gravity (Gmm) Test	0	0	0	0	0	0	0	0	0	0		
7	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	0		
8	AIV Test	0	0	0	0	0	0	0	0	0	0		
9	LAAY Testing	0	0	0	0	0	0	0	0	0	0		
10	Core Density Testing	0	0	0	0	0	0	0	0	0	0		

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks	
		Results		No. of Test Conducted	Results		No. of Test Conducted	Results		No. of Test Conducted	Results		
		Passed	Failed		Passed	Failed		Passed	Failed		Passed		Failed
1	M-15	0	0	0	0	0	0	0	0	0	0		
2	M-20	44	0	0	0	0	0	44	0	44	0		
3	M-20 (Kerb)	0	0	0	0	0	0	0	0	0	0		
4	M-25	0	0	0	0	0	0	0	0	0	0		
5	M-30	44	0	0	0	0	0	44	0	44	0		
6	M-35 (R.C.C.)	44	0	0	0	0	0	44	0	44	0		
7	M-35 (Piling)	44	0	0	0	0	0	44	0	44	0		
8	M-35 (RE-Block)	4	0	2	0	2	0	6	0	6	0	(28 days Strength Achieved)	
9	M-40	40	0	0	0	0	0	40	0	40	0		
10	M-45	0	0	0	0	0	0	0	0	0	0		
11	M-50	0	0	0	0	0	0	0	0	0	0		
11	GP2	0	0	0	0	0	0	0	0	0	0		
12	D.L.C.	4	0	0	0	0	0	4	0	4	0		
13	G.S.B.	2	0	0	0	0	0	2	0	2	0		
14	W.M.M	0	0	0	0	0	0	0	0	0	0		
15	M-40 P. O. C.	0	0	0	0	0	0	0	0	0	0		
17	DBM GRADE - II	0	0	0	0	0	0	0	0	0	0		
19	BC GRADE - II	0	0	0	0	0	0	0	0	0	0		

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Concessionaire Representative

IE Representative



NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India  
 Concessionaire Iron Vadoara Kim Expressway Ltd  
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 EPC Contractor Iron International Ltd.  
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Sep-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		No. of Test Conducted	Results		No. of Test Conducted	Results		No. of Test Conducted	Results			
			Passed	Failed		Passed	Failed		Passed	Failed		
1	WMM Plant	0	0	0	0	0	0	0	0	0	0	
2	Concrete Batching Plant	9	9	0	0	1	0	10	10	0	0	
3	Hot Mix Plant	0	0	0	0	0	0	0	0	0	0	
4	Rapid Moisture Meter	8	8	0	0	2	0	10	10	0	0	
5	Sand Pouring Cylinder	22	22	0	0	2	0	24	24	0	0	
6	C.T.M.	2	2	0	0	0	0	2	2	0	0	
7	F.T.M.	1	1	0	0	0	0	1	1	0	0	
8	Weight & Balance	9	9	0	0	0	0	9	9	0	0	
9	Prooving rings	1	1	0	0	0	0	1	1	0	0	
	a) 2.5 KN	1	1	0	0	0	0	1	1	0	0	
	b) 25 KN	1	1	0	0	0	0	1	1	0	0	
	c) 50 KN	1	1	0	0	0	0	1	1	0	0	
	d) 100 KN	0	0	0	0	0	0	0	0	0	0	
10	Hot Mix Limhoff 320	0	0	0	0	0	0	0	0	0	0	

Field Density Test

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
		No. of Test Conducted	Results		No. of Test Conducted	Results		No. of Test Conducted	Results			
			Passed	Failed		Passed	Failed		Passed	Failed		
1	O.G.L.	2987	2982	5	0	0	0	2987	2982	5	0	Frequency of testing is as per specification
2	Embankment	3353	3340	13	2460	2447	13	5813	5787	26	0	
3	Subgrade	0	0	0	2382	2376	6	2382	2376	6	0	
4	G.S.B.	333	331	2	123	120	3	456	451	5	0	
5	W.M.M.	0	0	0	0	0	0	0	0	0	0	
6	D.L.C.	0	0	0	0	0	0	0	0	0	0	
7	C.T.B.	0	0	0	0	0	0	0	0	0	0	
8	BSM	0	0	0	0	0	0	0	0	0	0	
9	Back filling	0	0	0	0	0	0	0	0	0	0	
10	Shoulder/Median	0	0	0	0	0	0	0	0	0	0	
11	Embankment (RE Wall)	0	0	0	0	0	0	0	0	0	0	

TEST witness BY SITE MA-H.C.

89  
 DPM PER  
 [Signature]

[Signature]

[Signature]



**NATIONAL HIGHWAYS AUTHORITY OF INDIA**

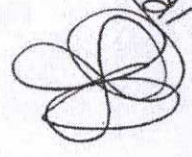
Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sapna to Padra Section of Vadodara Mumbai Expressway) in the state of Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

Client  
 Concessionaire  
 Independent Engineer  
 EPC Contractor  
 Contractor

National Highways Authority of India  
 Iron Vadoara Kim Expressway Ltd  
 Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.  
 Iron International Ltd.  
 Patel Infrastructure Ltd.

**MONTHLY PROGRESS REPORT (PKG-II)**  
 Sep-19

Fly Ash	S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cumulative Total		Remarks
			No. of Test Conducted	Results		No. of Test Conducted	Results		No. of Test Conducted	Results			
				Passed	Failed		Passed	Failed		Passed	Failed		
	1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
	2	LL/PI	0	0	0	0	0	0	0	0	0	0	
	3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	

  
 Iron International Ltd.  
 Representative

  
 Iron Vadoara Kim Expressway Ltd.  
 Representative





323+074 LP1 Concrete Pouring



323+074 Pile Cap LP 1 Pouring Work Started



323+074 Pile Cap Reinforcement Binding & Shuttering Progress



323+074 LP1 Middle Pier 1st lift Concrete Pouring Completed





323+074 LA1 Pile Cap Concrete Pouring Completed



323+074 Pile Dynamic load test



323+074 Pile Dynamic load test



323+074 LP2 Pile cap Reinforcement Binding and shuttering in Progress

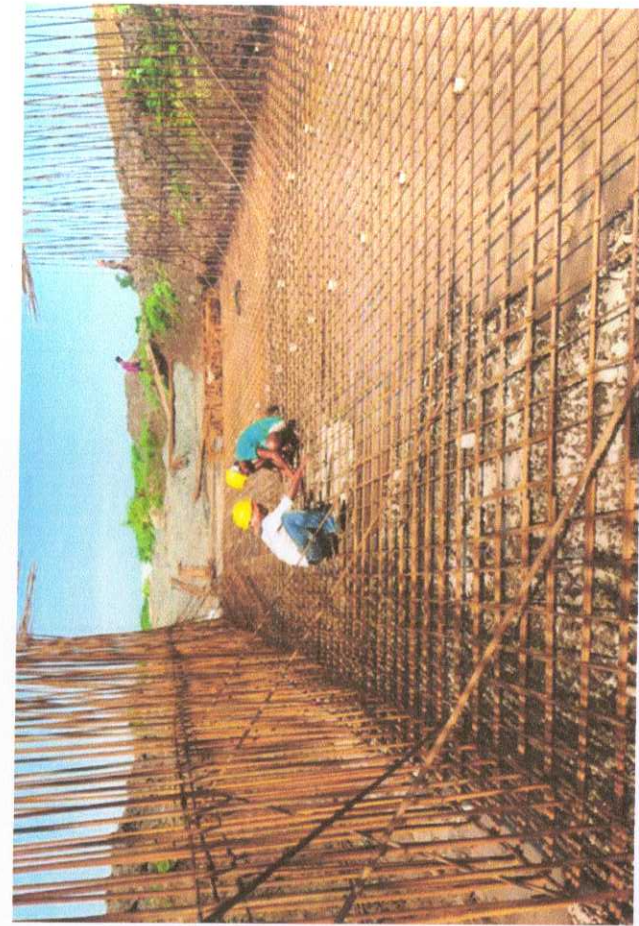




323+074(P2 LHS) Interchange Pile cap started



325+769 LVUP Raft LHS Reinforcement Binding in Progress

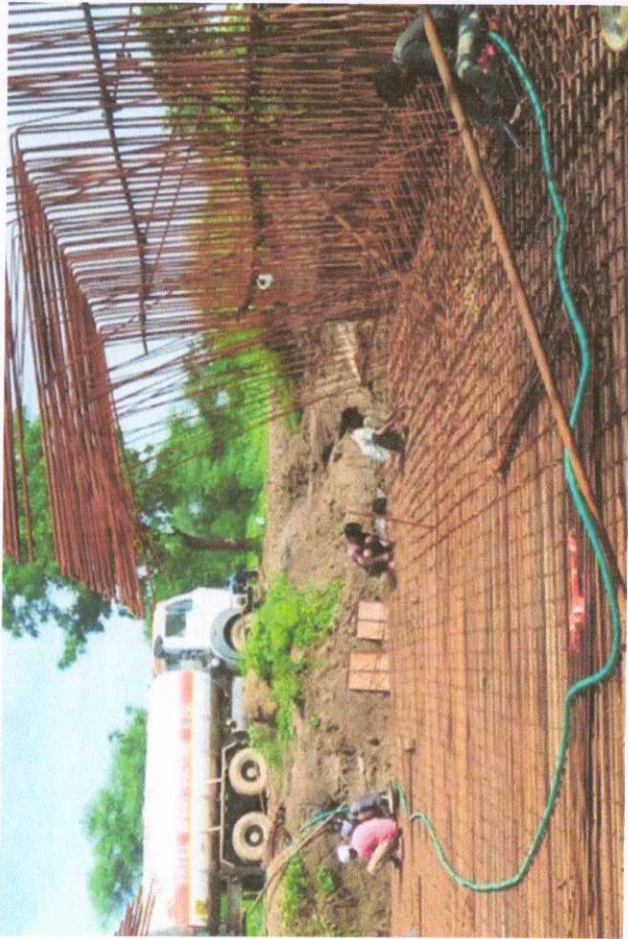


324+236 Box Culvert Raft Bottom Steel Binding work in progress



326+957 VOP





329+062 MNB Raft Mud cleaning work in Progress



330+640 MNB Test Pile Concrete Pouring Work in Progress



330+640 MNB A1 Segment 1 LHS Pile No 35 Boring Started



335+074 Box Culvert RHS Raft Reinforcement work and shuttering





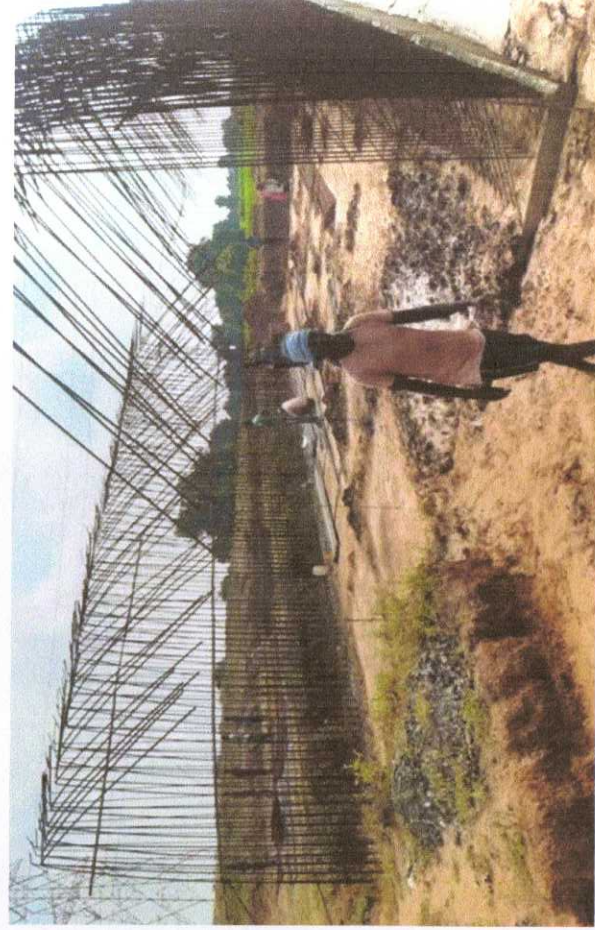
334+868 CUP Lift Wall Pouring Work Ongoing



335+402 VUP Raft (RHS) Concrete Pouring Completed



336+830 Test Pile Boring Work In Progress



336+020 CUP Reinforcement work ongoing for Raft (RHS)





336+810 RHS Pile No 1 Abutment A2 Boring in Progress



339+687 CUP RHS Raft Ready for casting



336+930 Cage Binding going on



339+352 Box culvert Reinforcement Binding in Progress





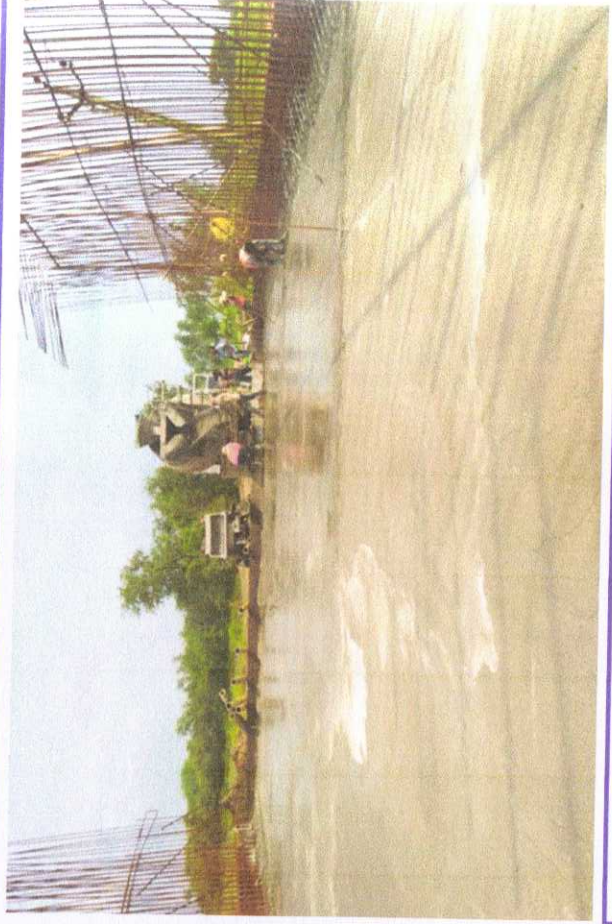
341+600 LVUP PCC Work In Progress



341+700 Toe Wall Shuttering in Progress

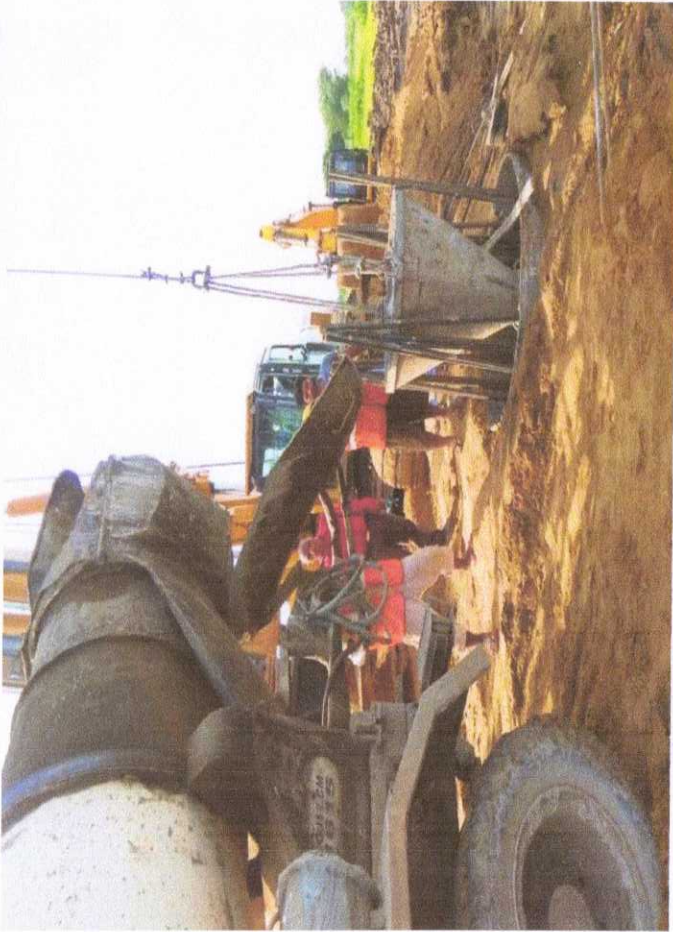


341+824 VUP Raft Pouring Started



341+824 VUP Raft Pouring Completed

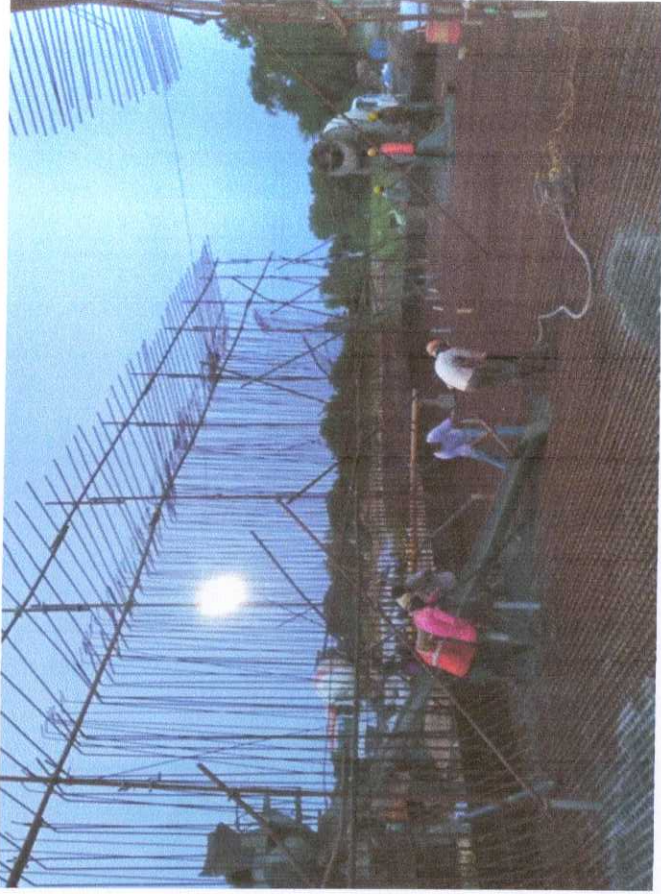




343+566 Pile No 5 Concrete Pouring Started



343+856 Raft Concreting Work In Progress



343+856 LUVP Raft 1 Pouring Work In Progress



344+383 Pile No 11 RP1 Pouring in Progress

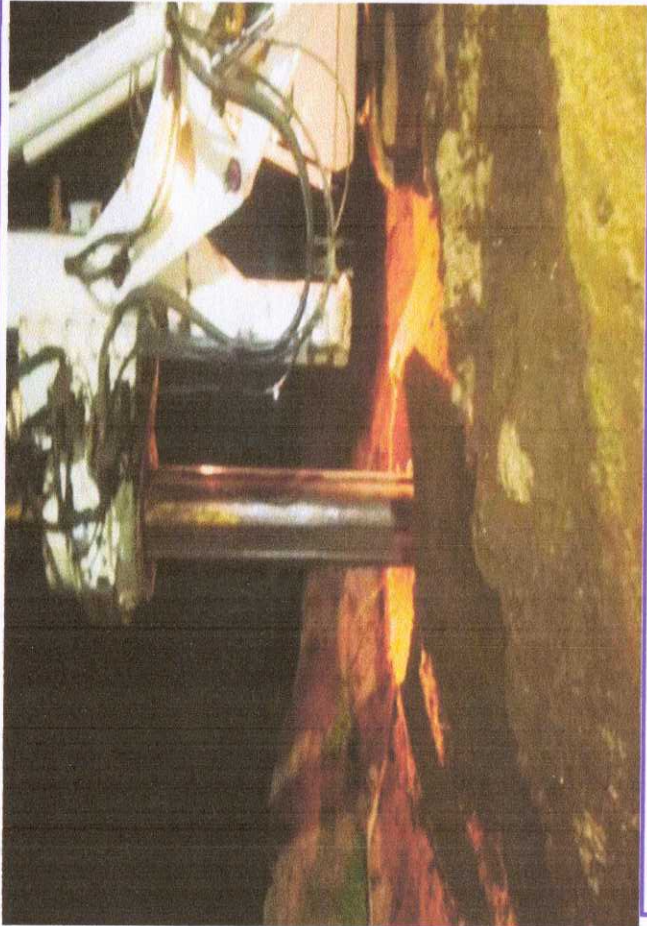




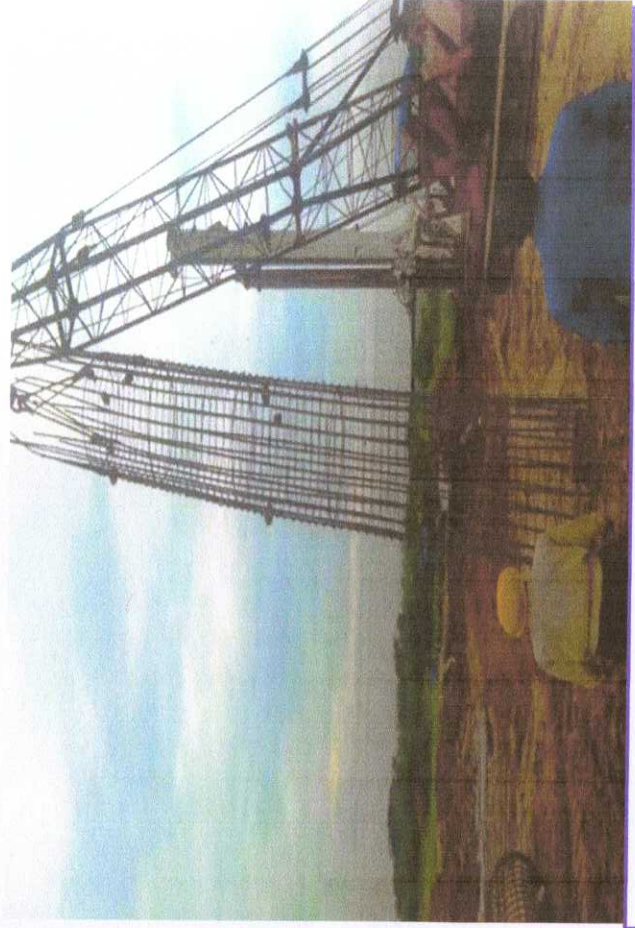
344+383 Flyover Pile No 8 RP1 Concreting Started



344+383 Flyover Pile No 8 RP1 Work In Progress

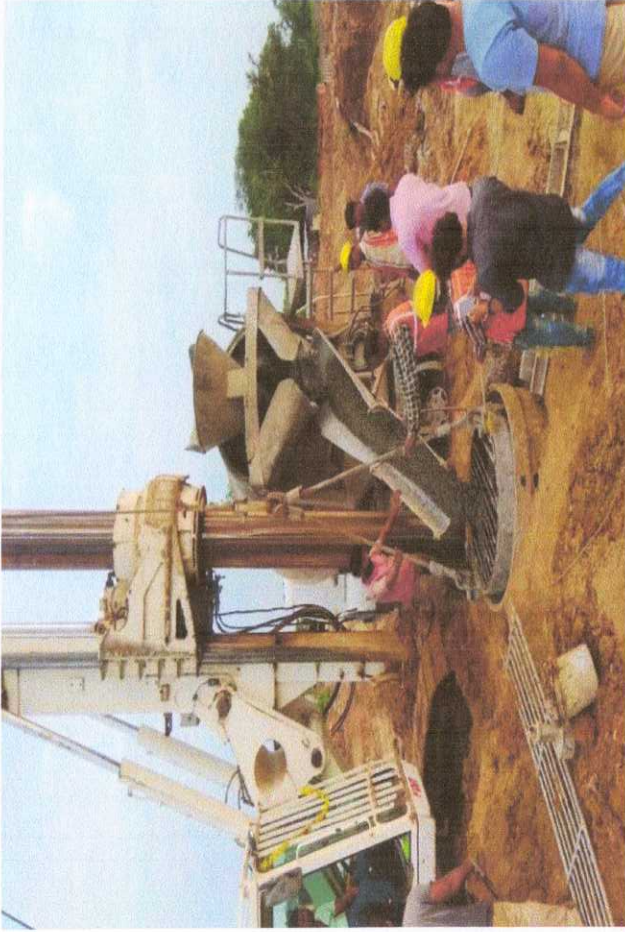


344+383 Boring work in Progress

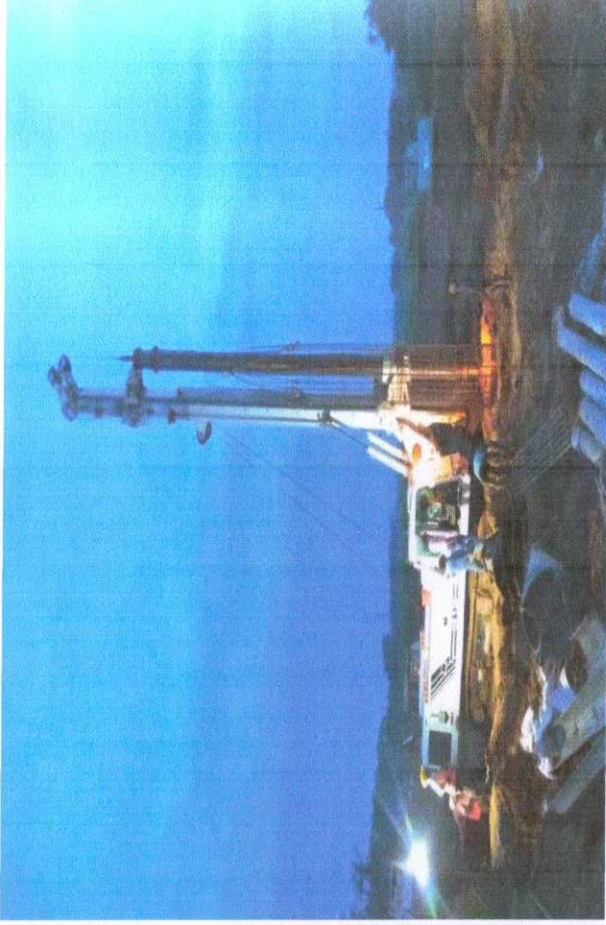


344+383 Flyover Pile No 11 LP1 Bottom cage Lowering

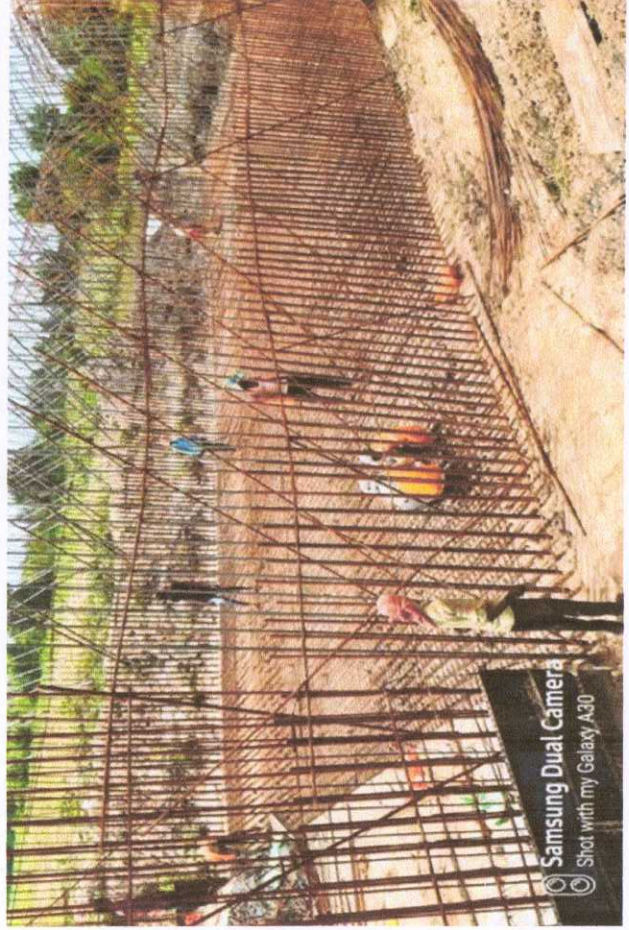




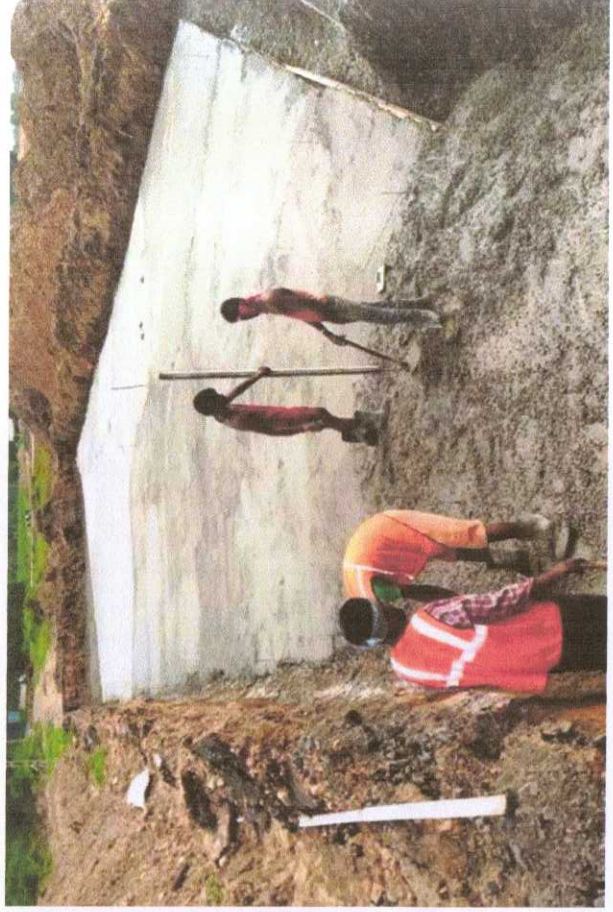
344+383 Flyover Concrete Pouring started



344+383 Flyover LP2 Pile No 17 Cage Lowering in Progress



347+922 CUP LHS Raft steel Binding in Progress

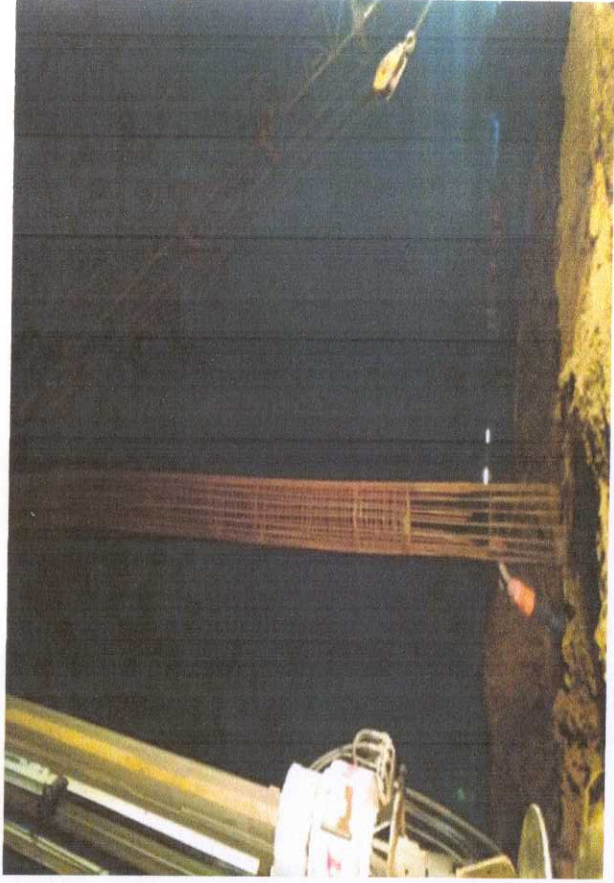


348+468 LVUP LHS PCC Laying work in Progress





349+441 VOP Pile cap A2 Completed



353+666 LP6 Pile No. 6 Top Cage



353+666 LP6 Pile No 9 Boring on Ongoing



353+666 LP6 Pile Work in Progress

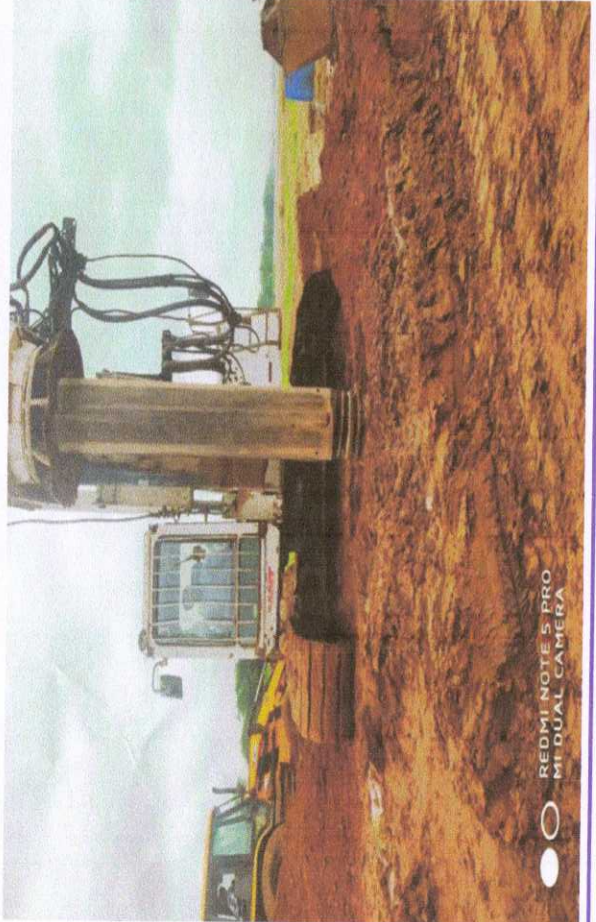




353+666 Interchange RP5 Concrete Pouring started



354+636 Pile No 5 Concrete Pouring started

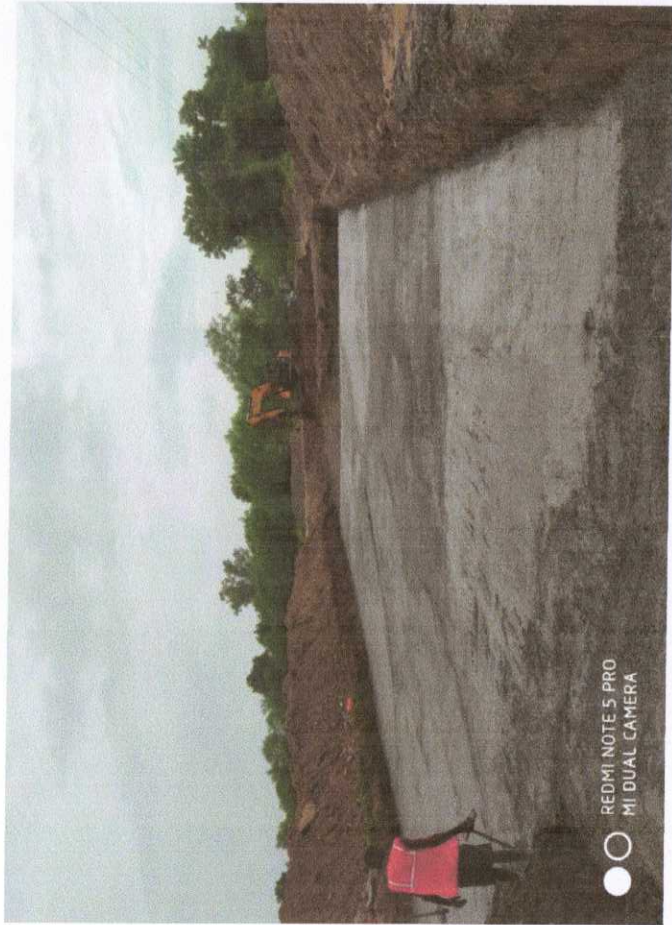


354+636 Pile No1 Seg3 Boring Started



354+636 SG 2 Pile No 6 Concrete Pouring in Progress





354+832 LVUP RHS SIDE PCC COMPLETED



354+832 LVUP Marking



Hard Barricading Repair work is in Progress



354+832 GSB Laying Completed , Ready For Concrete





Fixing of Safety Sign Board "MEN AT WORK" Completed



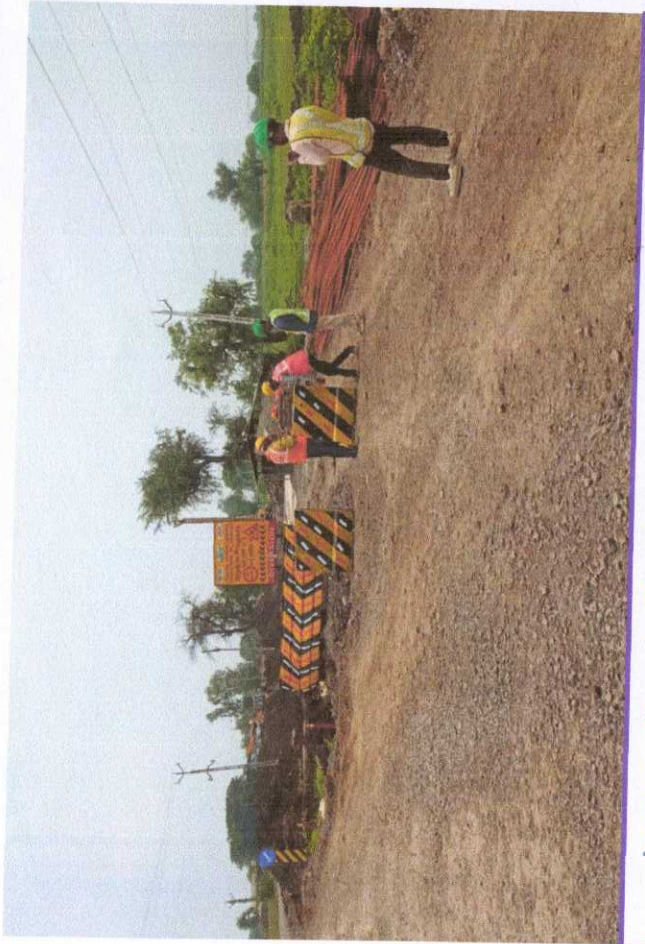
Fixing of Diversion Safety Board "WORK IN PROGRESS "



Fixing of Warning Sign Board " OVERHEAD POWER LINE"







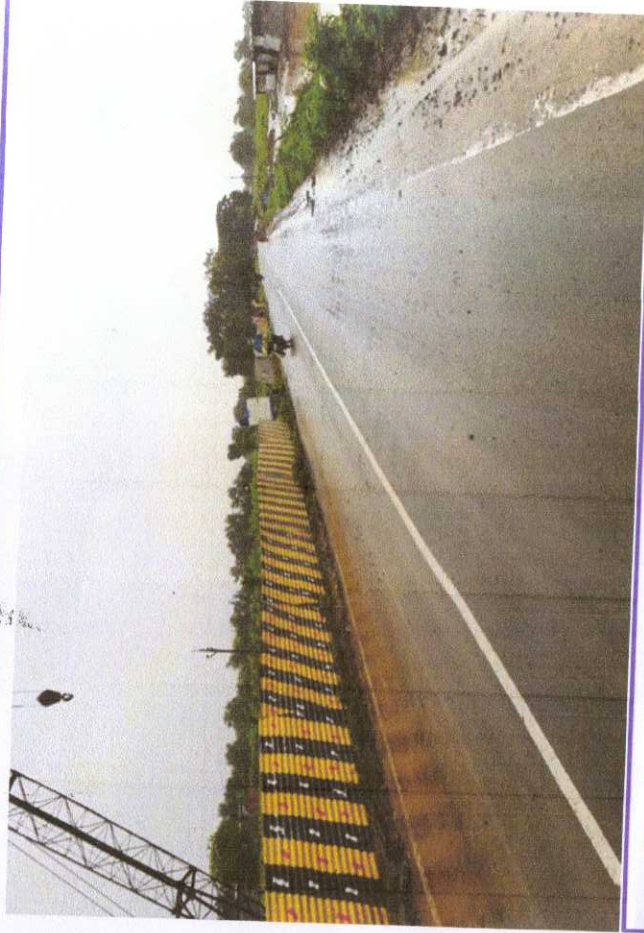
Jersey Crash Barrier Installed at CH 330



Jersey Crash Barrier Installed at CH 323



Jersey Crash Barrier Painting Work In Progress



Barricading Completed at flyover Ch.344+340