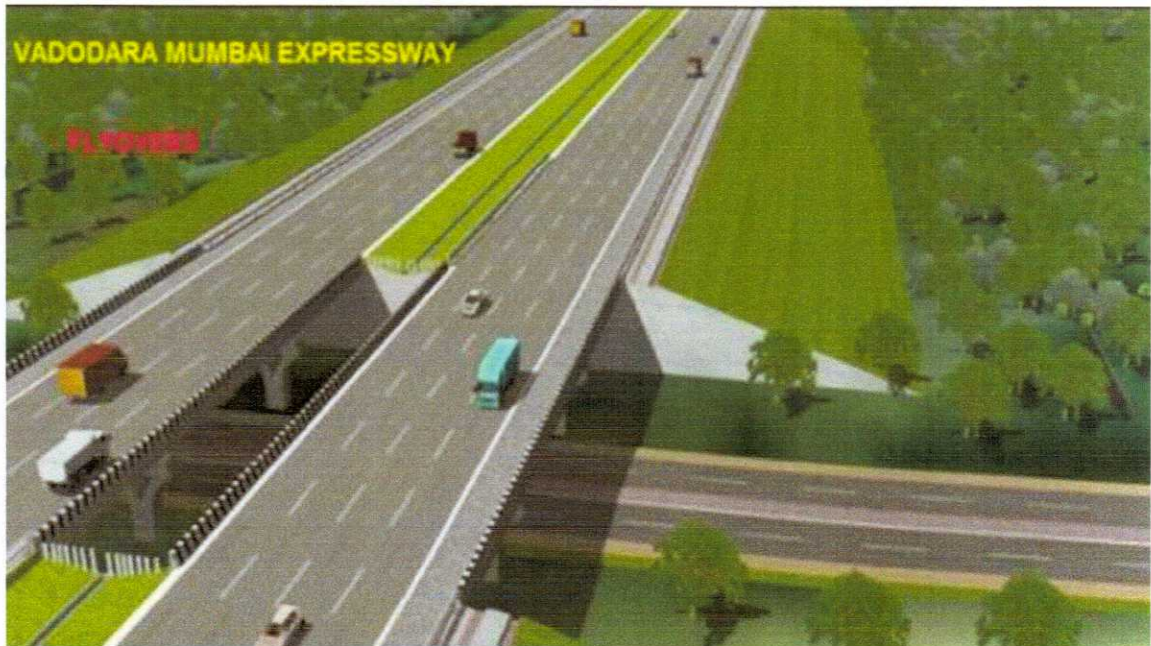


MONTHLY PROGRESS REPORT

OCTOBER-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

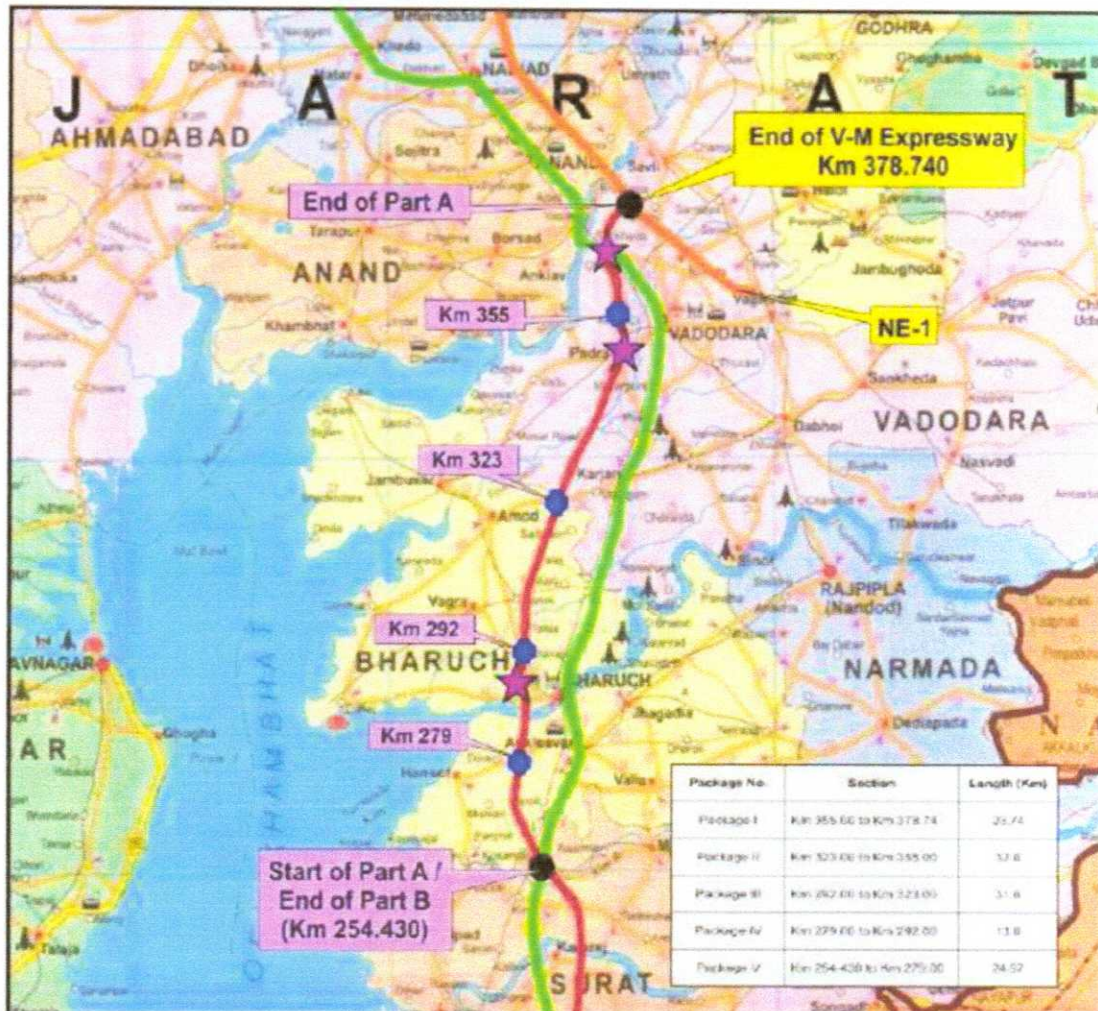
PATEL HOUSE, CHANNI, VADODARA

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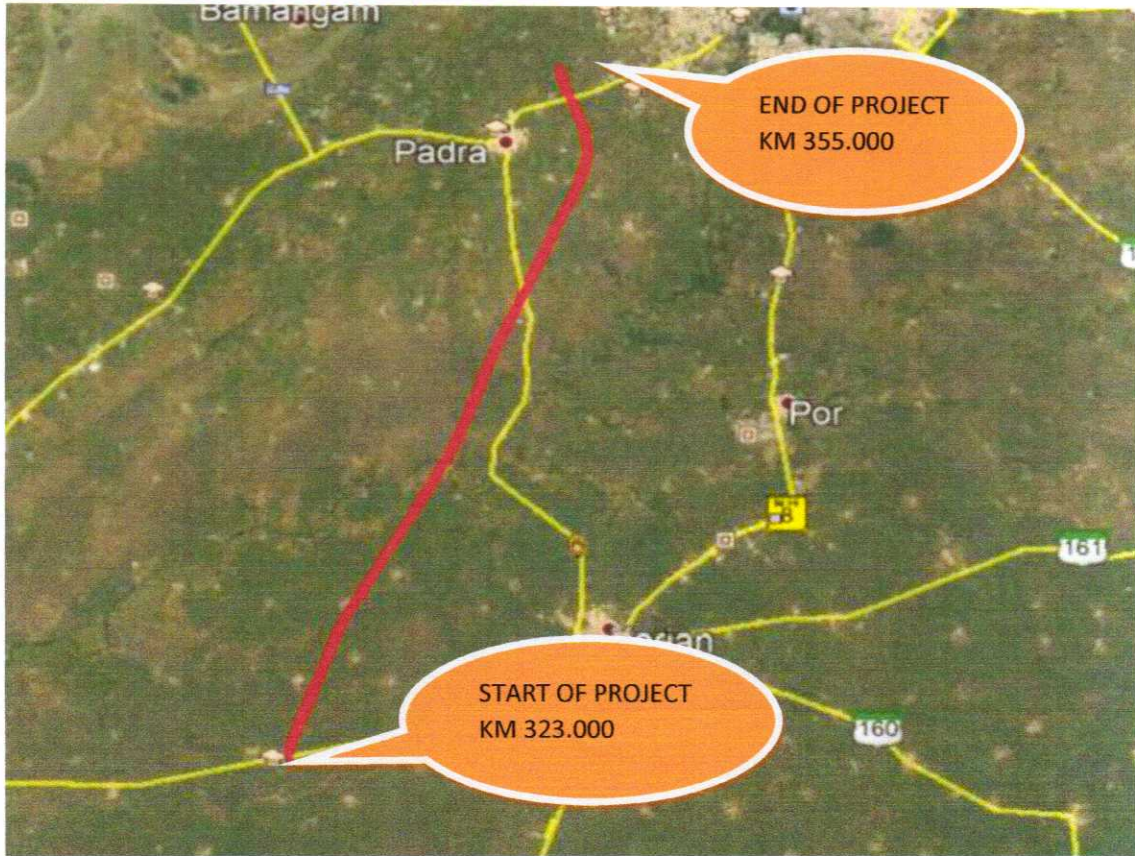
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I. LOCATION PLAN & KEY PLAN

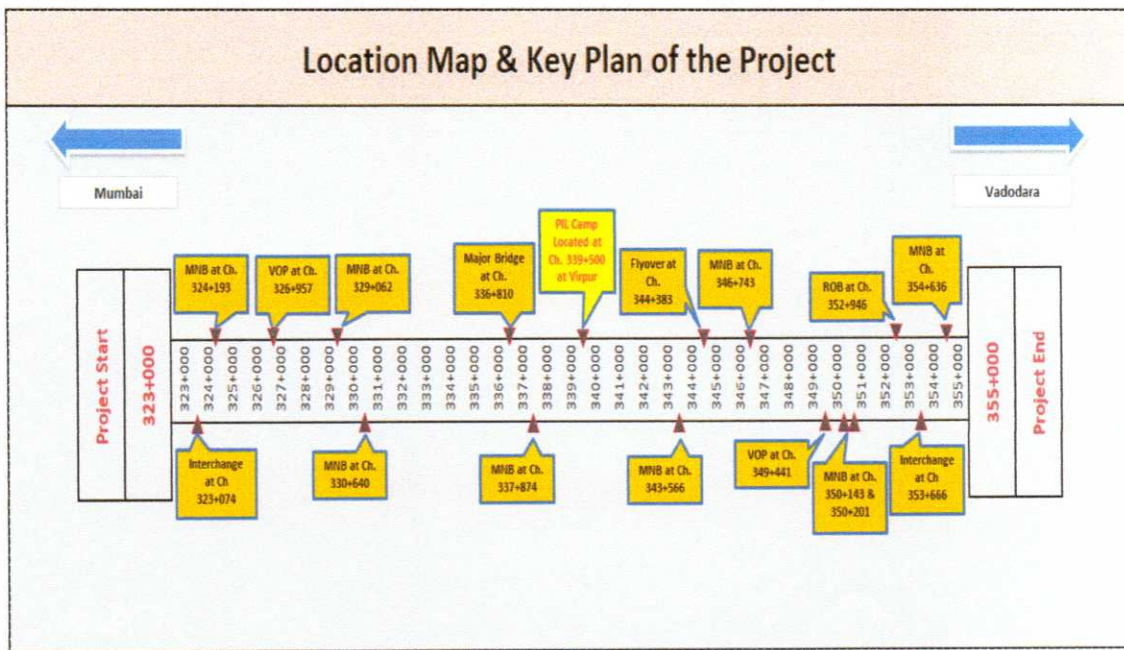
A. Key plan of Expressway



B. KEY PLAN OF PROJECT



Location Map & Key Plan of the 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 (%)	23.60%
2	Cumulative Achieved Physical Progress up to Current month (%)	25.82%
3	Physical progress target during current month (%)	3.13%
4	Physical progress achieved during current month (%)	4.52%
5	Cumulative scheduled financial Progress (%)	23.60%

Executive Summary of the Project		
Sl. No	Key Reporting Metrics	Value/%/Amount
6	Cumulative Achieved Financial Progress up to Current month (%)	11.85%
7	Financial progress target during current month (%)	3.13%
8	Financial progress achieved during current month (%)	1.70%

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

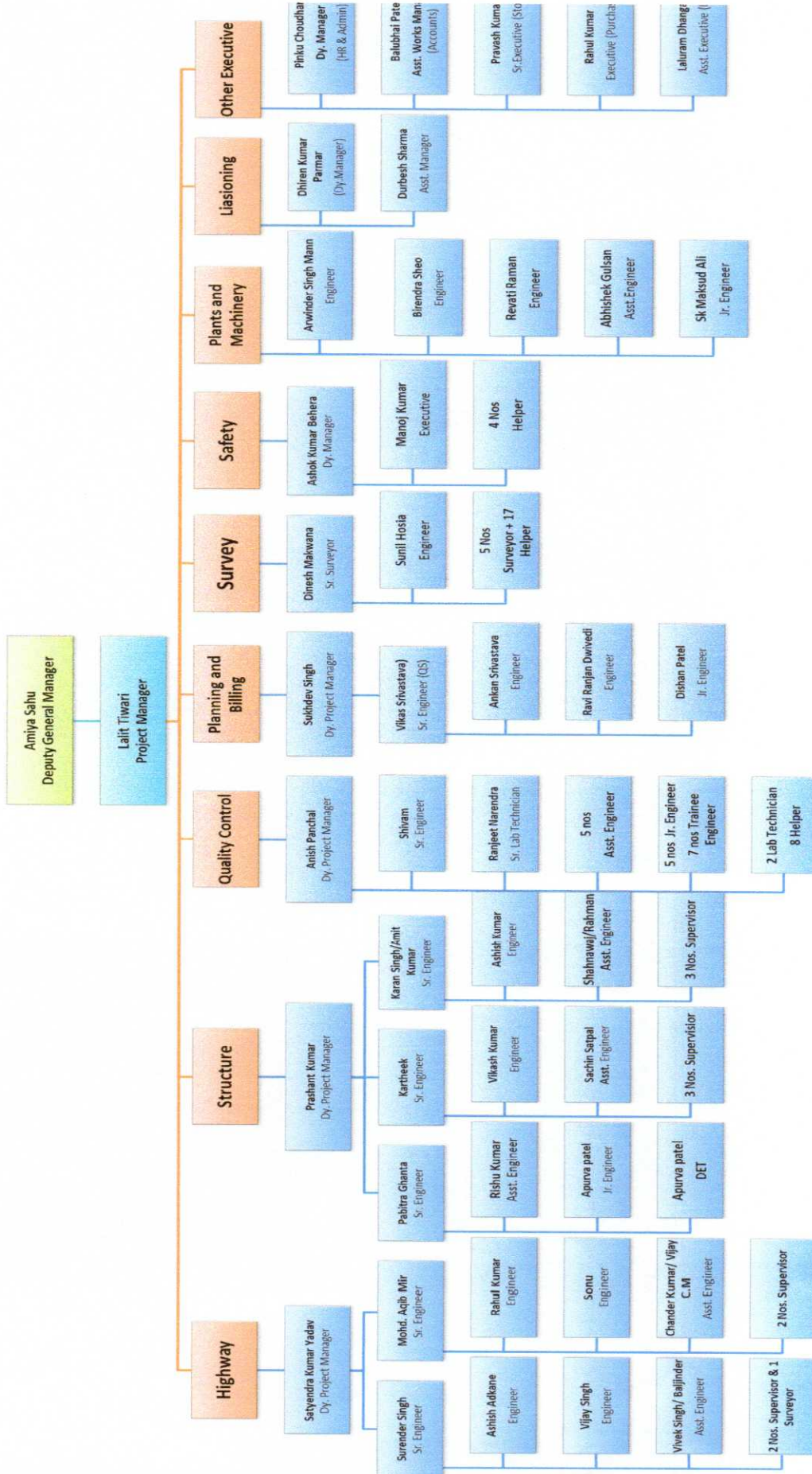
C. Details of MCW:

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)
Total		157

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	5	12	
2	Excavator	Nos	19	20	
3	Motor Grader	Nos	19	21	
4	Vibratory Roller/Soil Compactor	Nos	19	22	
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	86	92	
16	FE Loaders/Dozer	Nos	2	3	
17	Water Tanker	Nos	19	24	
18	Compressor	Nos	0	0	
19	Concrete Batching Plant	Nos	1	8	
20	Transit Mixers	Nos	9	14	
21	Concrete Pump + Boom placer	Nos	2	3	
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	8	
29	Hydra Crane	Nos	2	6	
30	Vibratory Rammer	Nos	2	0	
31	Dewatering Pump (Portable)	Nos	5	7	
32	Baby Roller	Nos	2	2	
33	Trailer / Platform Truck	Nos	1	2	
34	Vibrator (Needle Type)	Nos	4	12	
35	Kerb Cutter	Nos	2	0	
36	Pile Boring machines	Nos.	6	10	

G. Details of Applicable Permits:

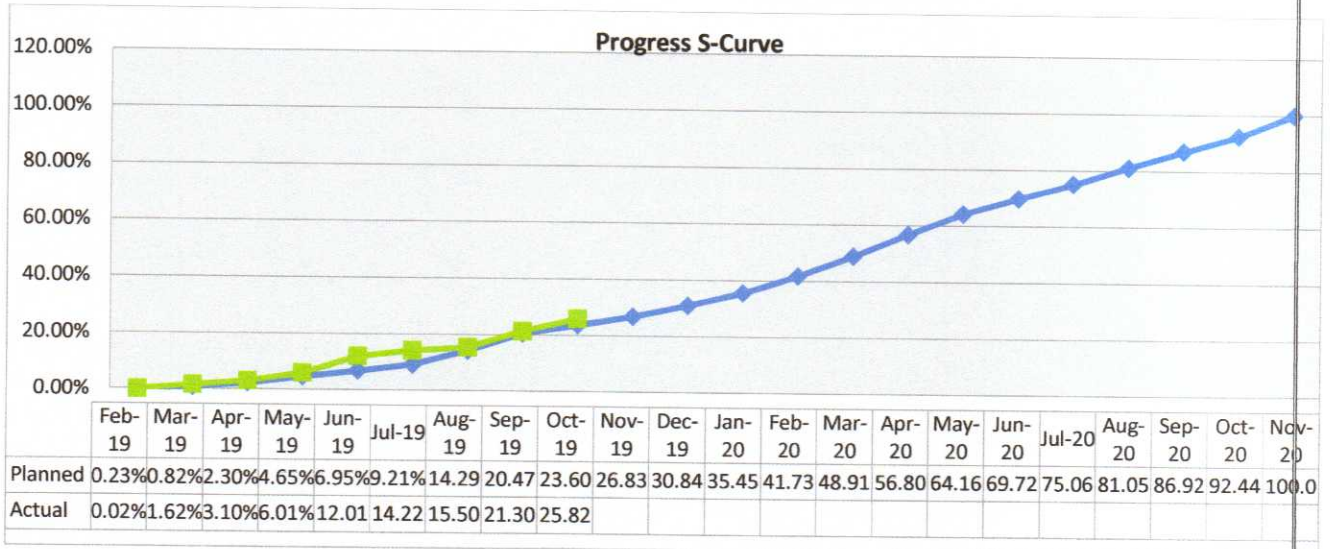
Status of Applicable Permits (As per Schedule F) as on October -19				
Sl. No	Description	Status	Receiving Date	Remarks
1	Permission of the State Government for extraction of boulders from quarry for and in respect of at least 20 (twenty) percent of the total length of the project;	Received	06.12.2018	
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 04.11.2019 to the overall scope of the work.

The physical percentage achieved is 21.3% as on 31st October 2019.



Given below is the summary of status of the works executed as on 31st October 2019.

B. Highway Progress:

Sr. No.	Item	Unit	Scope of work	Completed	Work in Progress	Balance work
1	C & G	Km	30.52	23.20	4.35	2.97
2	Embankment	Km	30.52	11.85	9.35	9.32
3	Sub grade	Km	30.52	7.50	5.20	17.82
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	13	25
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 31st October 2019 is **96.875%** i.e. **31 Km.** out of total 32km.
- Length of various utilities(hindrances) falling in the clear length of 31 km is **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
Grand Total	5,390	

- Net unencumbered/Unhindered length of road = **31.00 – 5.390 = 25.610 km. i.e. 82.61%**.
- 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 21 Aug 2019 raised some observations which are compiled on 28.08.2019. Compliances to all observations have been made and submitted to NHAI office by IE on 19.10.2019 for approval.
GETCO	8	Revised Estimate sent to PIU Bharuch which is then forwarded to IE for review. This is presently under review with IE.
PGCIL	1	Estimate is approved by its chairmen and sent to Vadodara office. After receiving the same will be forwarded to PIU Bharuch/Surat for further process. The separate estimates have been submitted to NHAI office on 17.10.2019 by PGCIL.
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. Torrent has submitted revised estimates to NHAI office on 17.10.2019.
GWSSB	4	Meeting with TL/IE held on 14.08.2019 and it was explained to him that proposal of GWSSB for Box Culverts instead of MS casing is cost effective and that the supervision charge of 2.5% already accepted by GWSSB. TL/IE finally sent its consent on the above matter to PIU Bharuch.
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. Based on the discussion held with GM/Production Sh.S.Kujur, report on issue of work permission is likely to be received in 2-3 days.
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 needs to send duly signed GADs of affected structures to GAIL. Meeting is scheduled on 03.09.2019 in GAIL office to decide the way forward. Joint site visit along with GAIL representatives has been done on 21.10.2019, NOC is pending.
GSPL	2	Necessary insurance add-on cover regarding special contingency liability as per the requirements of GSPL has been ensured and the same is already intimated of GSPL officially. Now, an agreements needs to be signed between NHAI & GSPL for issue of work permit. The required agreement has been signed between NHAI & GSPL. Copy of agreement and NOC is pending on GSPL end.
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. SE/SSNNL has suggested PIU sending them a letter elaborating our points (discussed) along with some documents of other departments like GWSSB for supervision charges and he will then discuss the matter with CE/SSNNL for way forward.

VII. STATUS OF DESIGN & DRAWING

Sr.No	Type of Structure	Total scope (Nos)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balanced to be reviewed by IE	Chainage	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on
1	Interchange	2	2	1	1	323+075	PIL/HO/VKE2/IRCON/577/2019 Dt. 13.08.2019	M.O.M. dated 23.09.19 to 26.09.19	Via mail to IE HO designer dated 12.10.2019
						353+666	PIL/HO/VKP2/IRCON/580/2019 dt. 17.08.2019	M.O.M. dated 23.09.19 to 26.09.19	Via mail to IE HO designer dated 08.10.2019
2	Major Bridge	1	1	0	1	336+830	Submitted to IE-HO By SES by mail of dt. 19.06.2019	IRCON/3019/VKE/PAT EL/847 dt. 24.09.2019	-
						326+957	PIL/HO/VKP2/IRCON/604/2019 Dt. 28.08.2019	-	-
3	VOP	2	2	0	2	349+441	PIL/HO/VKP2/IRCON/183/2019 dt. 20.03.2019	IRCON/3019/VKE/PAT EL/370 dt. 03.05.2019	PIL/HO/VKP2/IRCON/638/2019 Dt. 04.10.2019
						324+193	-	IRCON/3019/VKE/PAT EL/761 dt. 23.08.2019	-
4	Minor Bridge	9	9	4	5	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	PIL/HO/VKE2/IRCON/495/2019 Dt. 01.07.2019
						-	-	-	-

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

7	VUP	5	5	5	0	330+40 2	PIL/HO/VKE2/IRCON/533/2019 Dt. 20.07.2019	IRCON/3019/VKE/PAT EL/853 dt. 27.09.2019 for bar No. 16	-
						331+82 2	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/50 1/2019 Dt. 02.07.2019
						335+40 2	Submitted to IE-Ho By SES by mail of dt. 28.05.2019	-	-
8	LVUP	8	8	2	6	341+82 6	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/50 9/2019 Dt. 10.07.2019
						351+28 4	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	Ircon letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/50 1/2019 Dt. 02.07.2019
9	PUP/CU P	8	34	30	4	-	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 dated 15.03.2019	2 nos. Approved by IRCON Letter no. 758 dt. 23.08.2019	-
						-	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)	-

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

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 mai 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	-
11	Pipe Culvert	42	42	42	0	-	42 Nos. Submitted by PIL/HO/VKE2/IRCON/362/2019 Dt. 24.05.2019	42 nos. IRCON/3019/VKE/PAT EL/476 dt. 06.06.2019	42 Nos. Submitted by PIL/HO/VKE2/IRCON/49 9/2019 Dt. 02.07.2019
	Total =	157	153	104	49				

VIII. Weather report for the month of October'19

Date	Temperature (° C)		Rainfall (mm)	Weather	Remarks
	Maximum	Minimum			
1-Oct-19	31.40	25.30	-	Clear	
2-Oct-19	32.10	27.10	-	Clear	
3-Oct-19	33.20	27.40	-	Cloudy	
4-Oct-19	33.00	27.20	9.00	Rainy	
5-Oct-19	32.70	27.10	-	Clear	
6-Oct-19	33.30	26.80	-	Clear	
7-Oct-19	33.90	26.70	-	Clear	
8-Oct-19	33.80	27.20	-	Clear	
9-Oct-19	34.20	27.30	-	Clear	
10-Oct-19	33.80	27.10	-	Clear	
11-Oct-19	33.20	25.00	-	Clear	
12-Oct-19	33.80	25.00	-	Clear	
13-Oct-19	33.90	25.50	-	Clear	
14-Oct-19	33.70	26.00	-	Clear	
15-Oct-19	34.20	26.40	-	Clear	
16-Oct-19	34.00	25.80	-	Clear	
17-Oct-19	34.10	25.50	-	Clear	
18-Oct-19	33.10	26.00	-	Clear	
19-Oct-19	31.50	26.80	-	Clear	
20-Oct-19	31.90	25.80	-	Clear	
21-Oct-19	31.50	25.50	-	Clear	
22-Oct-19	31.50	25.50	-	Clear	
23-Oct-19	31.50	24.70	-	Clear	
24-Oct-19	31.50	24.80	-	Clear	
25-Oct-19	31.50	24.20	-	Clear	
26-Oct-19	31.00	22.00	-	Clear	

Date	Temperature (° C)		Rainfall (mm)	Weather	Remarks
	Maximum	Minimum			
27-Oct-19	29.00	22.00	-	Cloudy	
28-Oct-19	31.00	24.00	16.00	Rainy	
29-Oct-19	32.00	23.00	45.00	Rainy	
30-Oct-19	33.70	24.20	-	Cloudy	
31-Oct-19	33.70	24.20	-	Clear	

IX. Status of RFI

<u>MONTH :- October 2019</u>				
S. No.	Total RFI	Approved RFI	RFI Re-submitted after corrections suggested	Remarks
<u>Highway</u>				
1	620			
<u>Structure</u>				
1	1539	1065		
<u>Laboratory (QA/QC)</u>				
1	2	2		
<u>Survey</u>				
1	1	1		

X. Summary Of Tests Conducted For The Month Of October- 19

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

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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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	Results		I.E. Witness	No. of Test Conducted	Results			
			Passed	Failed		Passed	Failed			Passed	Failed		
Existing Site Sample (MCW/SR)													
1	Proctor Test	8	8	0	0	0	0	0	0	8	8	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	14	12	2	2	2	2	2	2	14	14	2	
Borrow Materials													
1	Proctor Test	2545	2545	0	26	26	0	6	6	2571	2571	0	Frequency of testing is as per specification
2	LL/PI	2545	2545	0	26	26	0	6	6	2571	2571	0	
3	Sand Content (GSA)	2545	2545	0	26	26	0	6	6	2571	2571	0	
4	Free Swell Index	2545	2545	0	26	26	0	6	6	2571	2571	0	
5	C.B.R	490	478	12	13	13	0	4	4	503	491	12	
6	C.B.R (Soil Blended with Sand)	6	0	6	0	0	0	0	0	6	0	6	

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Soil Stabilization													
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	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
Granular Sub Base													
1	Proctor Test	8	8	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
2	Gradation	162	157	5	13	13	0	0	3	175	170	170	5
3	LL/PI	157	157	0	13	13	0	0	3	170	170	170	0
4	10% fines Value	2	2	0	0	0	0	0	0	2	2	2	0
5	AIV	10	10	0	0	0	0	0	0	10	10	10	0
6	C.B.R	8	8	0	0	0	0	0	0	8	8	8	0
Wet Mix Macadam													
1	Proctor Test	0	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	0	0
3	LL/PI	0	0	0	0	0	0	0	0	0	0	0	0

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4	A.I.V.	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
6	L.A.A.V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Sample(GSB/WMM)																			
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Gradation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LL/PI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	A.I.V.	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
6	10% fines Value	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Water Absorption	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
9	CBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete Works																			
A.	Compressive Strength of concrete cubes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	Concrete (Grouting)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Frequency of testing is as per specification

Frequency of testing is as per specification

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	7 days	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0
3	M-20 Concrete																								
	7 Days	408	408	0	33	33	0	7	441	441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28 days	973	973	0	53	53	0	11	1026	1026	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0
5	M-30 Concrete																								
	7 Days	110	110	0	32	32	0	7	142	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28 days	341	341	0	38	38	0	8	379	379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	M-35 (Pile)																								
	7 Days	420	420	0	267	267	0	107	687	687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28 days	2479	2479	0	715	715	0	429	3194	3194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	M-35 (RCC)																								
	7 Days	178	178	0	112	112	0	45	290	290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Patel Infrastructure Limited

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	28 days	987	987	0	137	0	69	1124	1124	0
	M-35 (RE)									
	7 Days	45	45	0	18	0	5	63	63	0
	28 days	157	157	0	23	0	8	180	180	0
7	M-40 Concrete									
	7 Days	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0
8	M-45 Concrete									
	7 Days	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0
9	M-50 Concrete									
	7 Days	0	0	0	0	0	0	0	0	0
	28 Days	0	0	0	0	0	0	0	0	0
10	End Block(GP2)	0	0	0	0	0	0	0	0	0
11	DLC Concrete									
	07 days	0	0	0	0	0	0	0	0	0
12	POC (M-40)									
	7 Days	0	0	0				0	0	0

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28 days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
a) D.L.C. (Combined Gradation)	4	4	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0
b) Coarse Aggregate Gradation	183	182	1	31	31	0	8	214	213	213	1								
c) Fine Aggregate Gradation	182	182	0	31	31	0	8	213	213	213	0								
d) Flakiness Index	182	182	0	5	5	0	1	187	187	187	0								
e) Impact Test	182	182	0	4	4	0	1	186	186	186	0								
f) Specific Gravity	18	18	0	0	0	0	0	18	18	18	0								
g) Water Absorption	18	18	0	0	0	0	0	18	18	18	0								
B. Testing of stone																			
a) Petro graphical Examination	3	3	0	0	0	0	0	3	3	3	0								
b) Alkali Agg Reactivity	4	4	0	0	0	0	0	4	4	4	0								
c) Chloride Content	4	4	0	0	0	0	0	4	4	4	0								
d) Sulphate Content	4	4	0	0	0	0	0	4	4	4	0								
e) Del material Content	4	4	0	0	0	0	0	4	4	4	0								
f) Sp. Gr & Water Absorption	4	4	0	0	0	0	0	4	4	4	0								

Cement Testing

(i) OPC-43 Grade																			
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1	Consistency	2	2	0	1	1	0	0	0	0	3	0	Frequency of testing is as per specification
2	Initial & Final Setting Time	2	2	0	1	1	0	0	0	3	3	0	
3	Fineness	2	2	0	1	1	0	0	0	3	3	0	
4	Specific Gravity	0	0	0	0	0	0	0	0	0	0	0	
5	3 days Comp. Strength	2	2	0	1	1	0	0	0	3	3	0	
6	7 days Comp. Strength	2	2	0	1	1	0	0	0	3	3	0	
7	28 days Comp. Strength	2	2	0	1	1	0	0	0	3	3	0	
(ii)	OPC-53 Grade												
1	Consistency	41	41	0	17	17	0	6	58	58	58	0	Frequency of testing is as per specification
2	Initial & Final Setting Time	41	41	0	17	17	0	6	58	58	58	0	
3	Fineness	41	41	0	17	17	0	6	58	58	58	0	
4	Specific Gravity	0	0	0	0	0	0	0	0	0	0	0	
5	3 days Comp. Strength	49	49	0	19	19	0	4	68	68	68	0	
6	7 days Comp. Strength	43	43	0	20	20	0	4	63	63	63	0	
7	28 days Comp. Strength	26	26	0	17	17	0	4	43	43	43	0	
Bitumen Testing													
(i)	VG 40												

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1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
3	Softening Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
4	Ductility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
5	Viscosity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
(ii)	VG 30																							
1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
3	Softening Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
4	Ductility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
5	Viscosity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as per specification
Emulsion Testing																								
(i)	Emulsion (RS-1)																							
1	Penetration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Viscosity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(ii)	Emulsion (SS-2)																							
1	Penetration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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3	Viscosity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate of Spread of Material																	
1	Prime Coat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Tack Coat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DBM (G-II) Testing (Site Sample)																		
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Sand Equivalent Value	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	After Extraction Gradation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Marshall Specimen Testing (SET)	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
7	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	AIV Test	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	LAAY Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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10	Core Density Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BC (G-II) Testing (Site Sample)																		
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	0	0	0	0	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	0	0	0	0	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	After Extraction Gradation	0	0	0	0	0	0	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	0	0	0	0	0	0	
6	Maximum Sp. Gravity (Gmm) Test	0	0	0	0	0	0	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	0	0	0	0	0	0	
8	AIV Test	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	LAAV Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	Core Density Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Design Mix/Nominal Mix																		
1	M-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(28 days Strength Achieved)
2	M-20	44	44	0	0	0	0	0	0	0	0	0	0	44	44	0	0	

3	M-20 (Kerb)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	M-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	M-30	44	44	0	0	0	0	0	0	44	44	44	44	0	44	44	44	44	0	0	0	
6	M-35 (R.C.C.)	44	44	0	0	0	0	0	0	44	44	44	44	0	44	44	44	44	0	0	0	
7	M-35 (Piling)	44	44	0	0	0	0	0	0	44	44	44	44	0	44	44	44	44	0	0	0	
8	M-35 (RE- Block)	6	6	0	0	0	0	0	0	6	6	6	6	0	6	6	6	6	0	0	0	
9	M-40	40	40	0	0	0	0	0	0	40	40	40	40	0	40	40	40	40	0	0	0	
10	M-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	M-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	GP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	D.L.C.	13	13	0	0	0	0	0	0	13	13	13	13	0	13	13	13	13	0	0	0	7 days Strength Achieved
13	G.S.B.	2	2	0	0	0	0	0	0	2	2	2	2	0	2	2	2	2	0	0	0	
14	W.M.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	M-40 P. Q. C.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	DBM GRADE - II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	BC GRADE - II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Calibrations																						

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1	WMM Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	Concrete Batching Plant	10	10	0	4	0	0	2	14	14	0	0	14	0	0	0	0	0	0	0		
3	Hot Mix Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	Rapid Moisture Meter	10	10	0	2	0	0	1	12	12	0	0	12	0	0	0	0	0	0	0		
5	Sand Pouring Cylinder	24	24	0	2	0	0	1	26	26	0	0	26	0	0	0	0	0	0	0		
6	C.T.M.	2	2	0	0	0	0	0	2	2	0	0	2	0	0	0	0	0	0	0		
7	F.T.M.	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0		
8	Weight & Balance	9	9	0	0	0	0	0	9	9	0	0	9	0	0	0	0	0	0	0		
9	Prooving rings																					
	a) 2.5 KN	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0		
	b) 25 KN	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0		
	c) 50 KN	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0		
	d) 100 KN	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0		
Field Density Test																						
1	O.G.L.	2987	2982	5	32	0	32	0	3019	3014	5	3014	5	3014	5	3014	5	3014	5	3014	5	Frequency of testing is as per specification
2	Embankment	3353	3340	13	278	0	278	0	3631	3618	13	3618	13	3618	13	3618	13	3618	13	3618	13	Frequency of testing is as per specification

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	Subgrade	88	88	0	144	144	0	0	232	232	0
4	G.S.B	456	451	5	9	9	0	0	465	460	5
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
Fly Ash											
1	Proctor Test	0	0	0	0	0	0	0	0	0	0
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
											Frequency of testing is as per specification

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

Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 31/10/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
1	Road Works					
	Clearing and grubbing of -MCW	Km	30.52	0.045%	23.20	0.03%
	Construction of embankment upto 1 mtr	Km	30.52	5.54%	20.85	3.79%
	Construction of embankment from 1 mtr - 2 mtr	Km	30.52	4.60%	11.80	1.78%
	Construction of embankment from 2 mtr - 3 mtr	Km	30.52	3.68%	9.15	1.10%
	Construction of embankment from 3 mtr - Emb Top	Km	30.52	4.60%	8.75	1.32%
	Construction of Sub grade - MCW	Km	30.52	1.84%	7.50	0.45%
	Constructing Grannular Sub-base	Km	30.52	3.26%		
	Medians	Km	30.52	0.12%		
	Shoulders	Km	61.04	0.06%		
	200mm dia. NP4 pipes	Km	30.52	0.537%		
	DLC	Km	30.52	4.39%		
	PQC	Km	30.52	21.51%		
2	Pipe Culverts					
	Culvert Excavation	Nos	42	0.01%	42	0.01%
	Culvert PCC M15 grade	Nos	42	0.01%	42	0.01%
	Providing , laying and jointing NP4 Hume pipes for culverts	Nos	42	0.37%	40	0.35%
3	Box Culvert					
	Culvert Excavation	Nos	52	0.04%	28	0.02%
	Culvert PCC M15 grade	Nos	52	0.39%	27	0.20%
	Foundation RCC M 30 - Culvert	Nos	52	1.18%	20	0.45%
	Substructure RCC M 30 - Culvert	Nos	104	1.33%	32	0.41%
	Super Structure RCC M 30 - Culvert	Nos	52	0.73%	14	0.20%
4	CUP/PUP					
	Structure excavation Ordinary and soft Soils - PUP	Nos	34	0.09%	34	0.09%
	PUP - PCC M15 grade Levelling course	Nos	34	0.25%	32	0.24%
	PUP - RCC M35 Raft	Nos	34	2.77%	25	2.03%
	PUP RCC M35 Wall	Nos	68	1.22%	12	0.21%
	PUP - RCC M35 - TOP Slab	Nos	34	1.24%		
5	LVUP/VUP					
	Structure excavation Ordinary and soft Soils - VUP	Nos	13	0.04%	13	0.04%
	VUP - PCC M15 grade - Levelling course	Nos	13	0.10%	13	0.10%
	VUP - RCC M35 - Raft	Nos	13	1.10%	13	1.10%
	VUP - RCC M35 - WALL	Nos	26	0.76%	8	0.23%
	RCC M35 - TOP SLAB	Nos	13	0.35%		
6	Connecting Roads					
	Construction of Subgrade course	Km	4.385	0.08%		
	Construction of GSB Course	Km	4.385	0.17%		
	Constructing Wet Mix Macadam base	Km	4.385	0.22%		
	Dense Bituminous Macadam course- Connecting road	Km	4.385	0.23%		
	Bituminous Concrete - Connecting Road	Km	4.385	0.165%		
7	Retaining Wall + Toe Wall					
	Excavation of Retaining Wall + Toe Wall	Km	3.305	0.05%	1.02	0.01%
	PCC Retaining Wall + Toe Wall	Km	3.305	0.12%	0.98	0.03%
	Retaining Wall + Toe Wall	Km	3.305	4.69%	0.97	1.38%
8	VOP at Chainage 326+957					
	Excavation for foundation	Nos	3	0.001%	3	0.00%
	Pile Foundation	Nos	14	0.050%	14	0.05%
	Pile Foundation Cap	Nos	3	0.090%	3	0.09%
	Abutment	Nos	2	0.008%		
	PIER	Nos	1	0.004%		
	Abutment/Pier Cap	Nos	3	0.015%		
	Girder	Nos	8	0.032%		
	Deck Slab	Nos	2	0.075%		
	Finishing Works	Nos	1			
9	VOP at Chainage 349+441					
	Excavation for foundation	Nos	3	0.001%	3	0.00%
	Pile Foundation	Nos	21	0.050%	21	0.05%
	Pile Foundation Cap	Nos	3	0.090%	3	0.09%
	Abutment	Nos	2	0.008%	2	0.01%
	PIER	Nos	1	0.004%	1	0.00%
	Abutment/Pier Cap	Nos	3	0.015%		
	Girder	Nos	8	0.032%		

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

Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 31/10/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
	Deck Slab	Nos	2	0.075%		
	Finishing Works	Nos	1			
10	Flyover at Ch. 344+360					
	Excavation for foundation	Nos	8	0.002%	8	0.00%
	Pile Foundation	Nos	92	0.542%	92	0.54%
	Pile Foundation Cap	Nos	8	0.083%	4	0.04%
	Abutment	Nos	24	0.044%		
	PIER	Nos	24	0.045%		
	Abutment/Pier Cap	Nos	8	0.103%		
	Girder	Nos	42	0.187%		
	Deck Slab	Nos	6	0.110%		
	Finishing Works	Nos	1			
11	Major Bridge at Ch. 336+830					
	Excavation for foundation	Nos	14	0.007%	3	0.00%
	Pile Foundation	Nos	228	1.522%	167	1.11%
	Pile Foundation Cap	Nos	14	0.165%		0.00%
	Abutment	Nos	2	0.118%		
	PIER	Nos	30	0.257%		
	Abutment/Pier Cap	Nos	14	0.192%		
	Girder	Nos	84	0.680%		
	Deck Slab	Nos	12	0.342%		
	Finishing Works	Nos	1			
12	ROB at Ch. 352+926					
	Excavation for foundation	Nos	6	0.005%		
	Pile Foundation	Nos	60	0.726%		
	Pile Foundation Cap	Nos	6	0.121%		
	Abutment	Nos	12	0.238%		
	PIER	Nos	6	0.025%		
	Abutment/Pier Cap	Nos	6	0.083%		
	Girder	Nos	40	1.230%		
	Deck Slab	Nos	4	0.051%		
	Finishing Works	Nos	1			
13	Interchnage at Ch. 323+074					
	Excavation for foundation & PCC	Nos	8	0.014%	8	0.01%
	Pile Foundation	Nos	80	1.813%	80	1.81%
	Pile Foundation Cap	Nos	8	0.341%	8	0.34%
	Abutment	Nos	12	0.369%	8	0.25%
	PIER	Nos	12	0.123%	9	0.09%
	Abutment/Pier Cap	Nos	8	0.189%		
	Girder	Nos	42	0.455%		
	Deck Slab	Nos	6	0.204%		
	Finishing Works	Nos	1	0.000%		
14	Interchnage at Ch. 353+666					
	Excavation for foundation & PCC	Nos	16	0.014%	16	0.01%
	Pile Foundation	Nos	200	2.719%	200	2.72%
	Pile Foundation Cap	Nos	16	0.341%	9	0.19%
	Abutment	Nos	14	0.061%		
	PIER	Nos	42	0.306%		
	Abutment/Pier Cap	Nos	16	0.189%		
	Girder	Nos	84	0.455%		
	Deck Slab	Nos	14	0.273%		
	Finishing Works	Nos	1	0.000%		
15	Minor Bridge at Ch. 324+193					
	Pile Foundation	Nos	32	0.320%	32	0.32%
	Pile Foundation Cap	Nos	4	0.121%	2	0.06%
	Abutment (RCC Wall Type)	Nos	4	0.114%		
	Abutment/Pier Cap	Nos	4	0.060%		
	Girder	Nos	14	0.069%		
	Deck Slab	Nos	2	0.088%		
	Finishing Works	Nos	1			
16	Minor Bridge at Ch. 329+062					
	Excavation for foundation	Nos	1	0.024%	2	0.05%
	PCC	Nos	1	0.070%	2	0.14%
	Raft	Nos	1	0.235%	2	0.47%
	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 (Sanpa to Padra Section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode

Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

Date:- 31/10/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
17	Minor Bridge at Ch. 330+630					
	Pile Foundation	Nos	72	0.320%	58	0.26%
	Abutment	Nos	72	0.121%		
	Abutment/Pier Cap	Nos	8	0.114%		
	Girder	Nos	56	0.060%		
	Deck Slab	Nos	4	0.069%		
	Finishing Works	Nos	1	0.088%		
18	Minor Bridge at 337+874					
	Excavation for foundation	Nos	1	0.024%	1	0.02%
	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%		
19	Minor Bridge at 343+566					
	Pile Foundation	Nos	125	0.320%	125	0.32%
	Abutment	Nos	125	0.121%		
	Abutment/Pier Cap	Nos	8	0.114%		
	Girder	Nos	109	0.060%		
	Deck Slab	Nos	8	0.069%		
	Finishing Works	Nos	1	0.088%		
20	Minor Bridge at 346+743					
	Excavation for foundation	Nos	1	0.024%	1	0.02%
	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%		
21	Minor Bridge at Ch. 350+143					
	Pile Foundation	Nos	28	0.101%	14	0.05%
	Abutment	Nos	28	0.121%		
	Abutment/Pier Cap	Nos	4	0.114%		
	Girder	Nos	14	0.060%		
	Deck Slab	Nos	2	0.069%		
	Finishing Works	Nos	1	0.088%		
22	Minor Bridge at Ch. 350+201					
	Excavation for foundation	Nos	4	0.024%	3	0.02%
	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%		
23	Minor Bridge at Ch. 354+636					
	Pile Foundation	Nos	56	0.320%	56	0.32%
	Abutment	Nos	56	0.121%		
	Abutment/Pier Cap	Nos	8	0.114%		
	Girder	Nos	50	0.060%		
	Deck Slab	Nos	4	0.069%		
	Finishing Works	Nos	1	0.088%		
24	Toll Plaza					
	Operation & Office building at toll plaza	Nos	2	1.865%		
	Roof over Toll plaza	Nos	2	0.205%		
	Providing and fixing of Tool booth	Nos	2	0.040%		
	Toll plaza sign boards	Nos	2	0.155%		
	Toll Plaza Facilities	Nos	2	0.159%		
25	DRAINAGE					
	Construction of Drains	Km	30.52	1.197%		
26	Traffic signs, Road markings and other road appurtunences					
	Road signs, markings, Km stones, Road Delineators, Reflective Pavement Markers & Solar Studs, Traffic Impact Attenuators, Road Boundary Stone, Kilometer and Hectometer Stone	km	32	0.451%		
	Pavement marking	km	64	0.228%		
	Providing and erecting " Thrie " metal beam crash barrier	km	30.52	1.190%		
27	Project facilities					
	Wayside Amenities/Service Area	LS	2	0.883%		

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

Physical Progress

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD

EPC Contractor:- Patel Infrastructure Ltd.

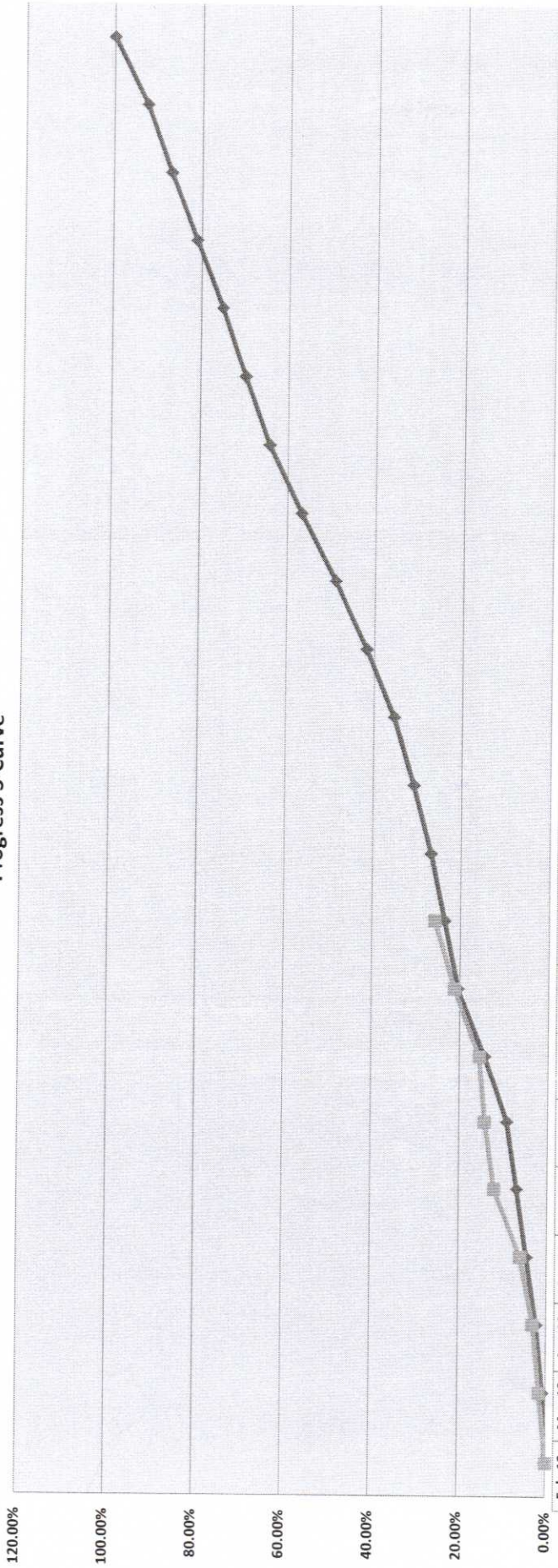
Date:- 31/10/2019

Sl. No	Task	Unit	Total Qty	Rev. Wt%	Achieved Qty	% Progress
	Providing operational and maintenance Center	Nos	2	0.442%		
	Providing lighting including all	KM	32	0.077%		
	Providing Advanced Traffic Management Systems (ATMS)	Km.	32	0.565%		
	Providing & Placing Noise Barrier	Km	9.3	0.290%		
	Providing Rain Water Harvesting	Km	62	0.062%		
	Providing Chain Link Fencing in ROW	Km	30.52	1.190%		
	Providing min 600 mm dia NP4 pipes across the road for utility work	Nos.	61	0.197%	37	0.12%
28	Land Scaping and Tree plantation					
	Land Scaping and Tree plantation	Km	30.52	0.146%		
29	RE Walls					
	Reinforced Earth Walls at Flyover and VOP - Blocks Casting	Sqm	35787	0.405%	17005	0.19%
	Reinforced Earth Walls at Flyover and VOP - Blocks laying	Sqm	35787	0.405%		
30	Boulder pitchin on slopes					
	Providing and laying filter media underneath stone pitching	km	30.52	0.064%		
	Providing and laying stone pitching on embankment slopes	Km	30.52	0.181%		
31	MISCELLANEOUS WORKS					
	Overhead Signs	Km	32	0.158%		
	Traffic Aid Booth	No.	1	0.014%		
	Medical Aid Booth	No.	1	0.014%		
	Emergency Cross-overs	No.	6	0.018%		
	Others (Wearing Course, Kerb etc.)	Km	32	0.141%		
Total Percentage completion and Amount==>				100.00%		25.820%

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
 Physical Progress S-Curve

Concessionair :- IRCON VADODARA-KIM EXPRESSWAY PVT LTD
 EPC Contractor:- Patel Infrastructure Ltd.

Progress S-Curve



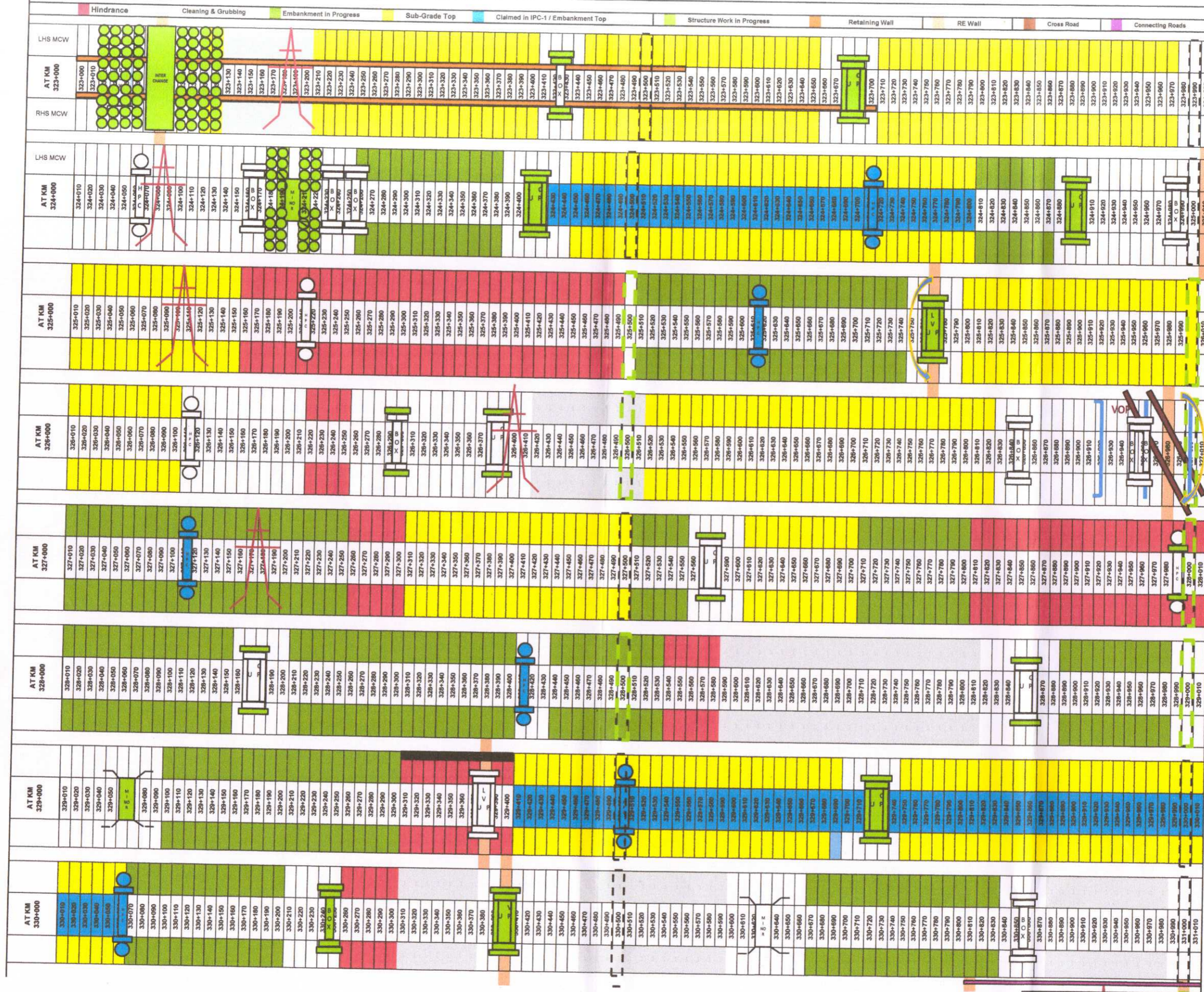
	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
Planned	0.23%	0.82%	2.30%	4.65%	6.95%	9.21%	14.29%	20.47%	23.60%	26.83%	30.84%	35.45%	41.73%	48.91%	56.80%	64.16%	69.72%	75.06%	81.05%	86.92%	92.44%	100.00%
Actual	0.02%	1.62%	3.10%	6.01%	12.01%	14.22%	15.50%	21.30%	25.82%													

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 1A-Package II)

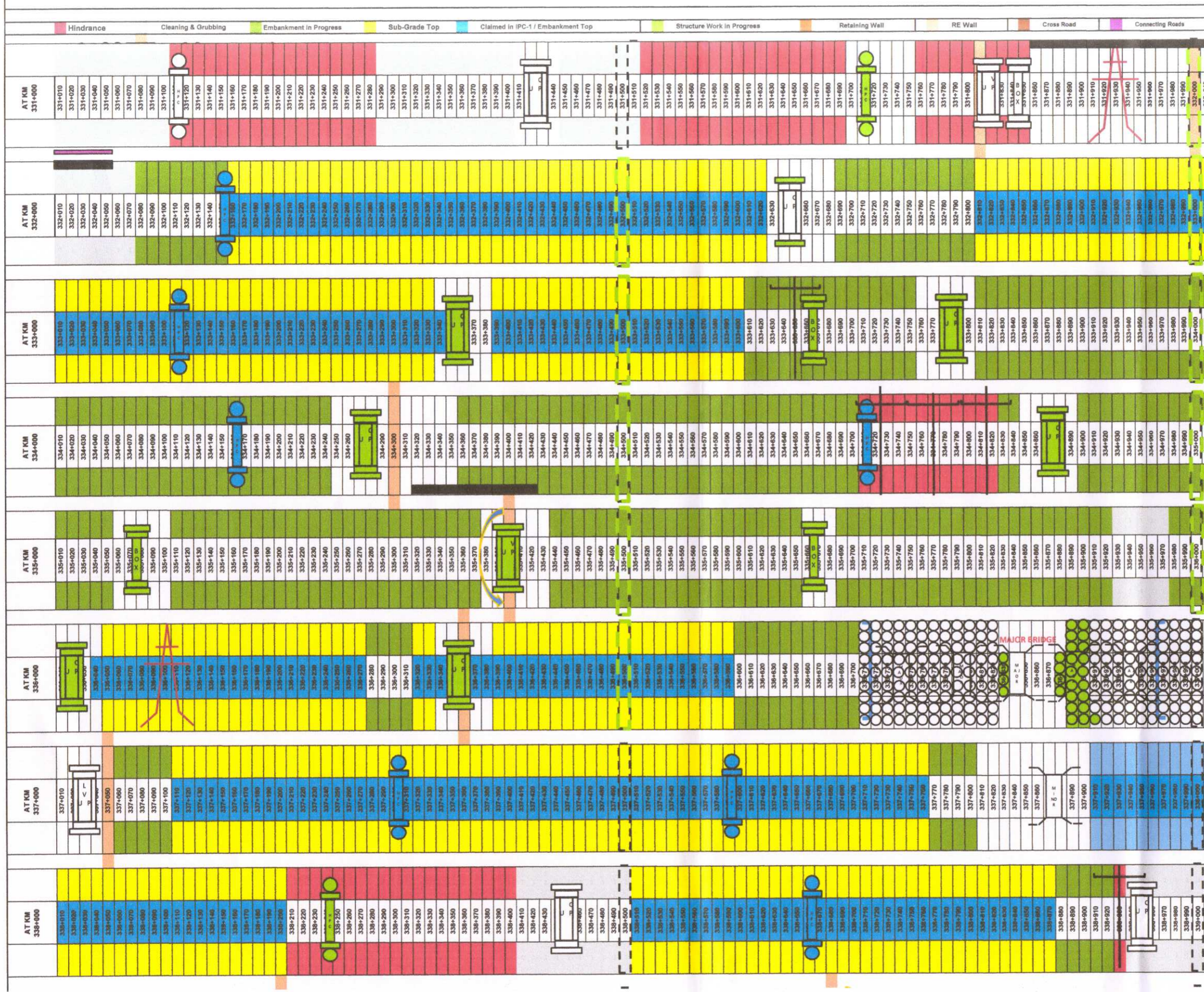
Oct-19

Sl. No	Key Reporting Metrics	Value/%/Amount	Remarks
1	Cummulative Scheduled Physical Progress (%)	23.60%	
2	Cummulative Achieved Physical Progress up to Current month (%)	25.82%	
3	Physical progress target during current month (%)	3.13%	
4	Physical progress achieved during current month (%)	4.52%	
5	Cummulative scheduled financial Progress (%)	23.60%	
6	Cummulative Achieved Financial Progress up to Current month (%)	11.85%	
7	Financial progress target during current month (%)	3.13%	
8	Financial progress achieved during current month (%)	1.70%	

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



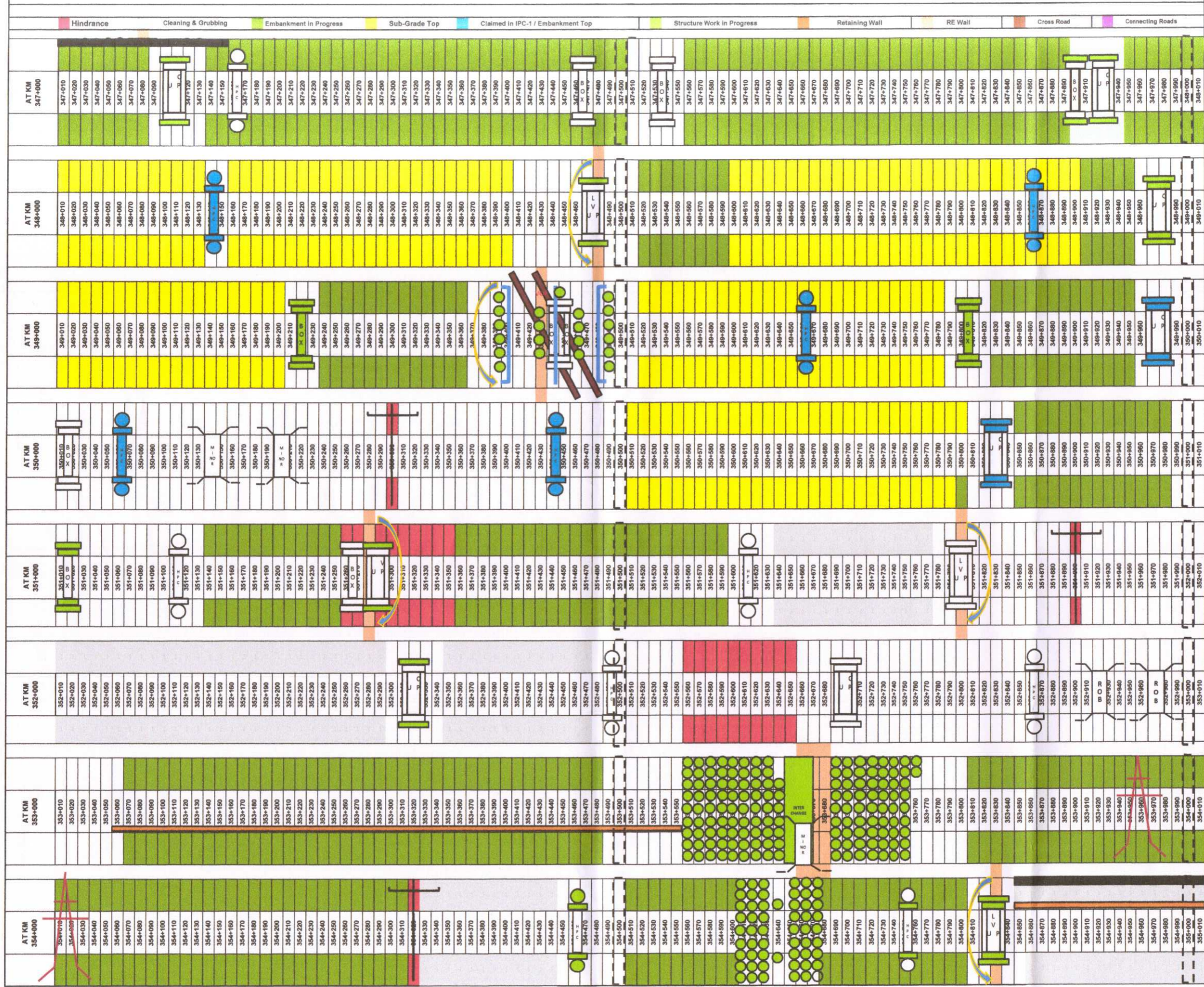
Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



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

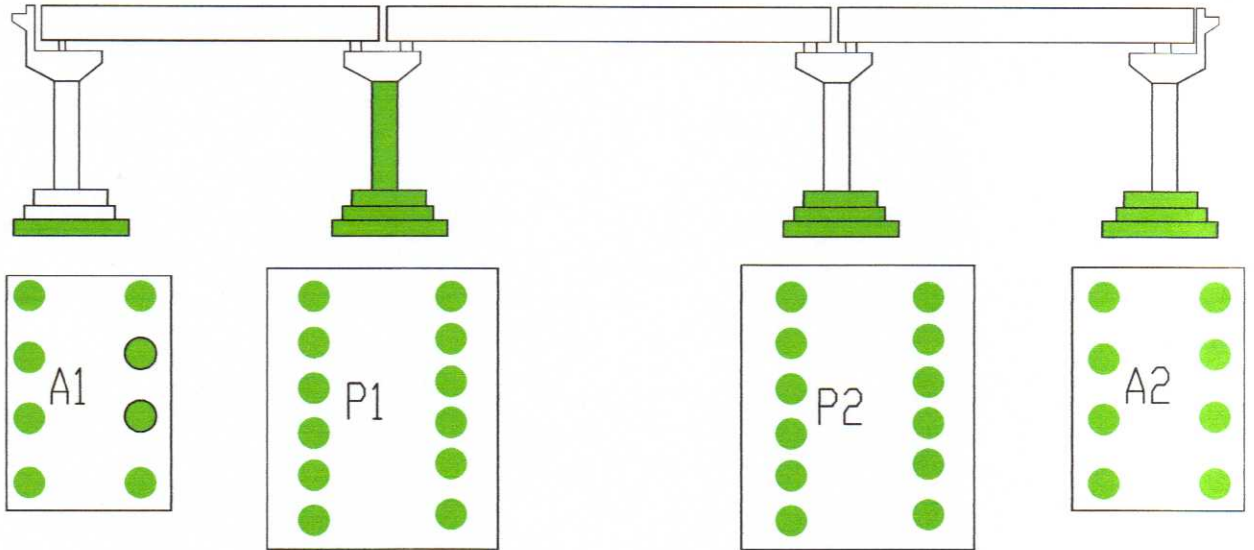


Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode

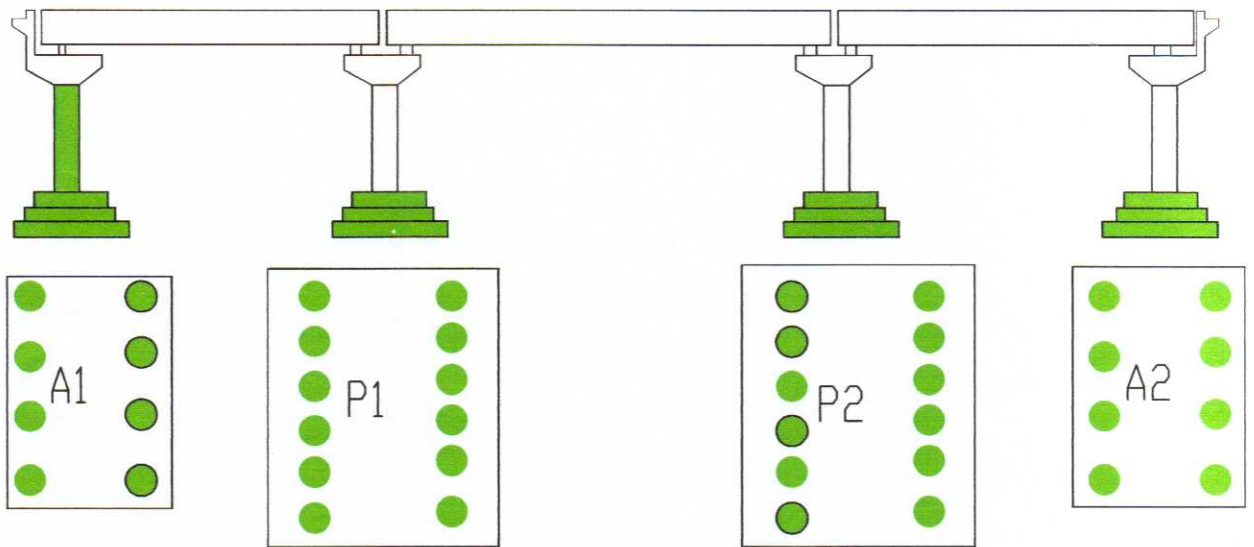


Ch 323+074 Interchange

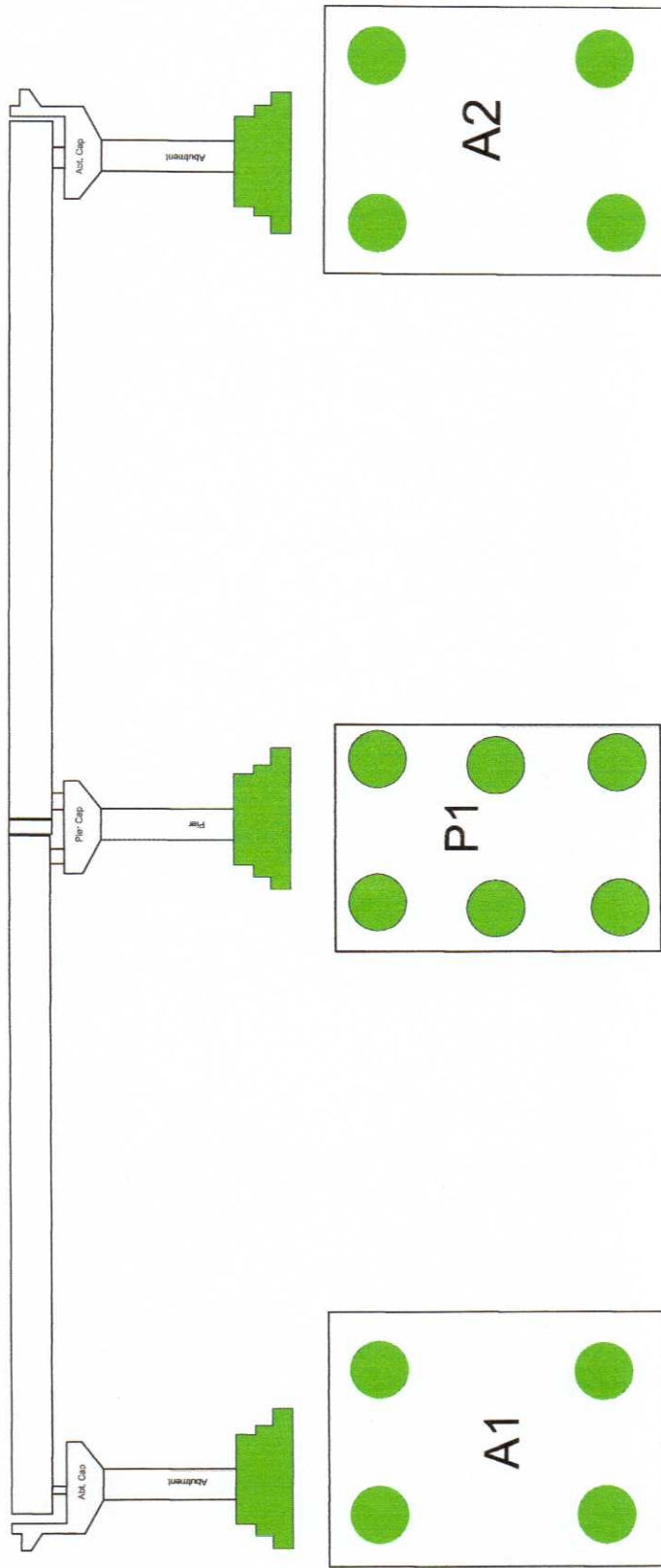
LHS



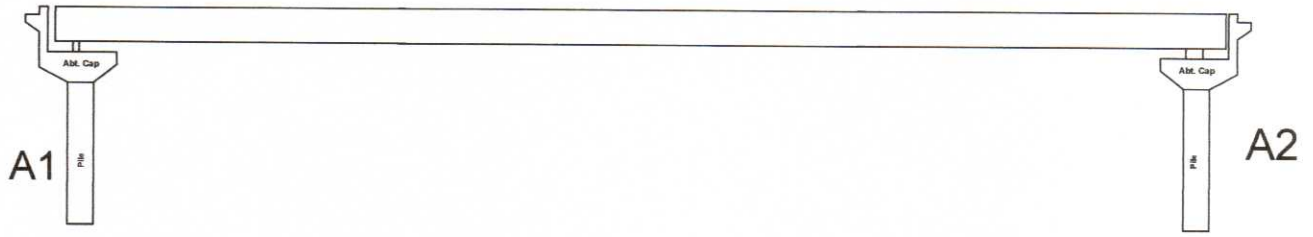
RHS



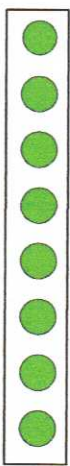
CH 326+957 VOP



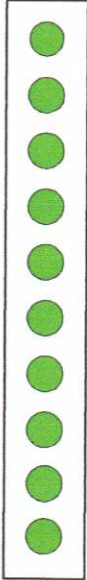
CH 330+640 MNB



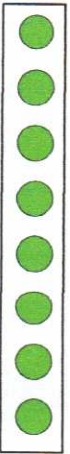
A1 Segment 1



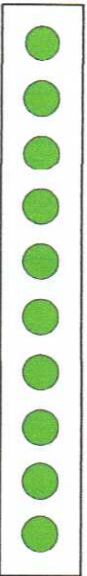
A1 Segment 2



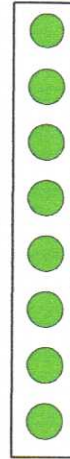
A1 Segment 4



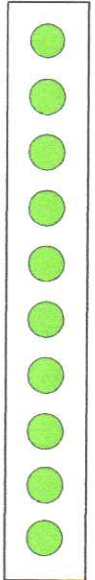
A1 Segment 3



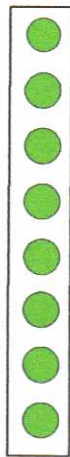
A2 Segment 1



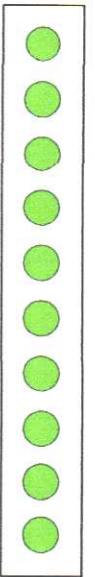
A2 Segment 2



A2 Segment 4

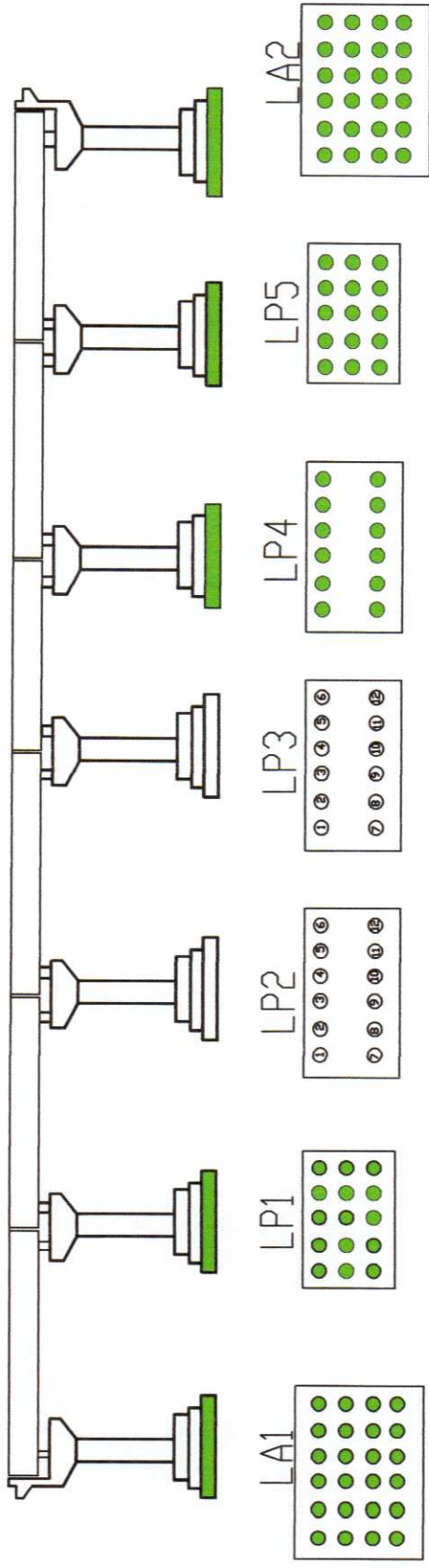


A2 Segment 3

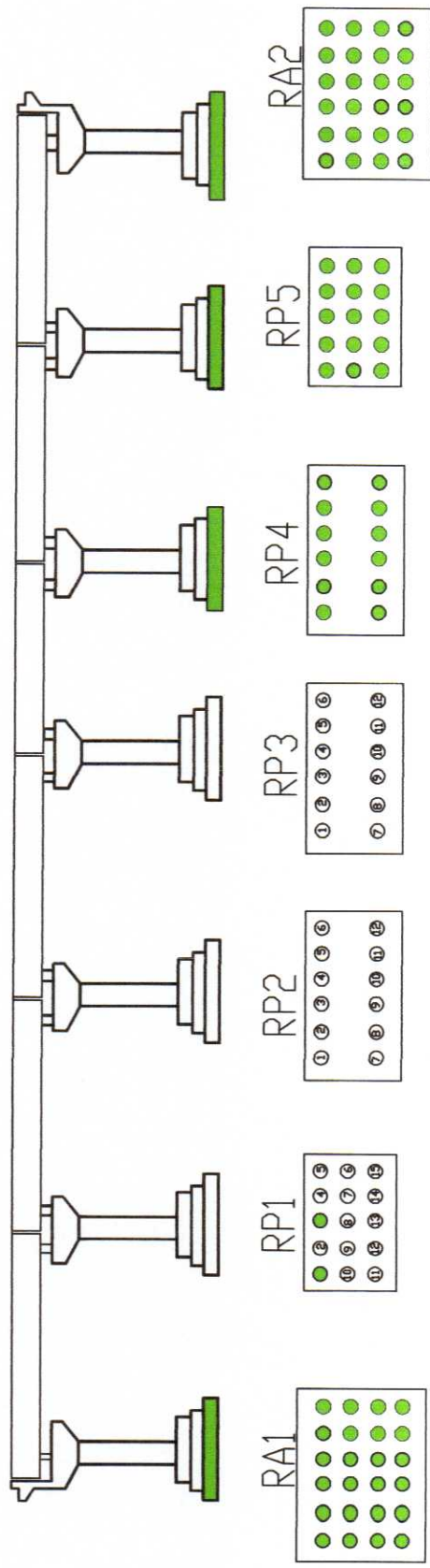


Ch 336+810 Major Bridge

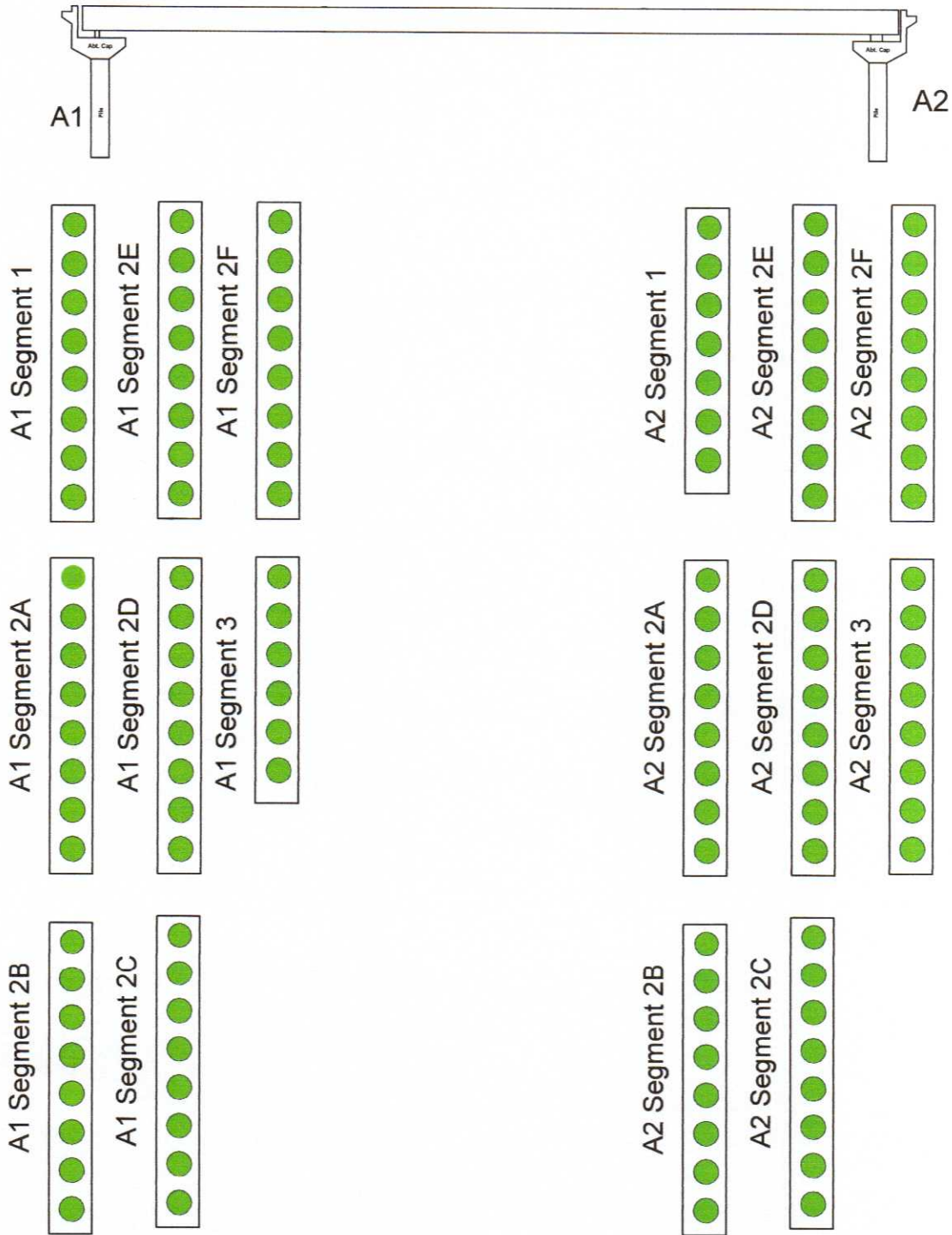
LHS



RHS

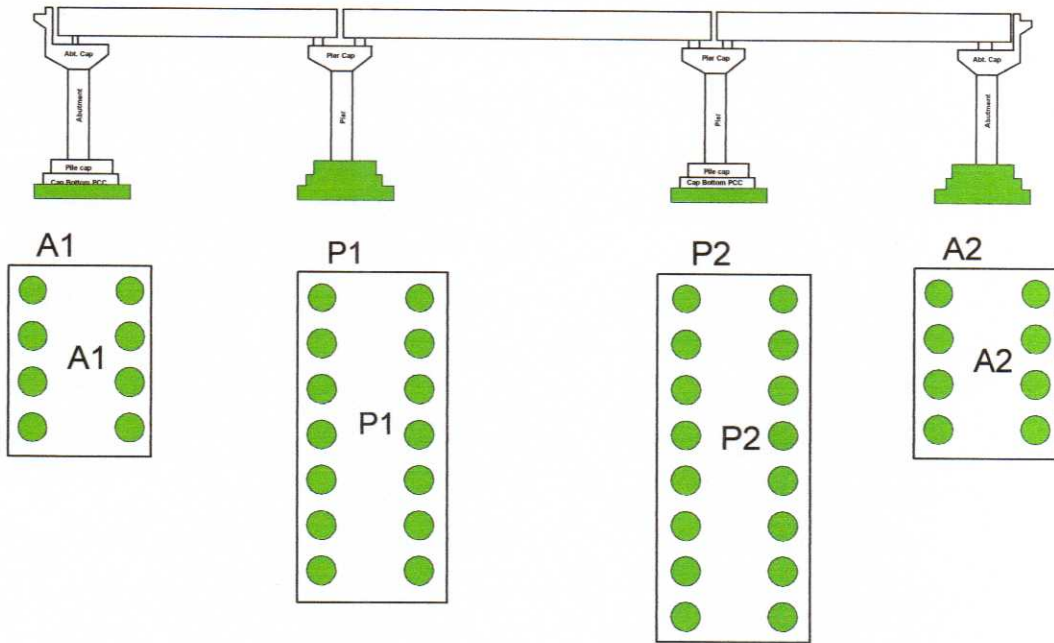


CH 343+566 MNB

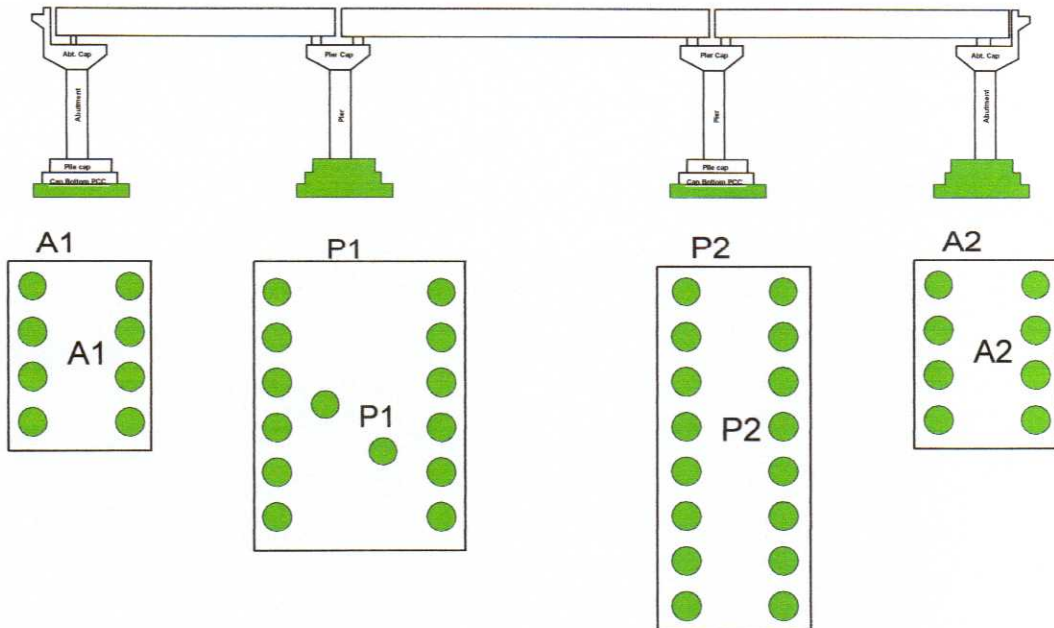


CH 344+383 Flyover

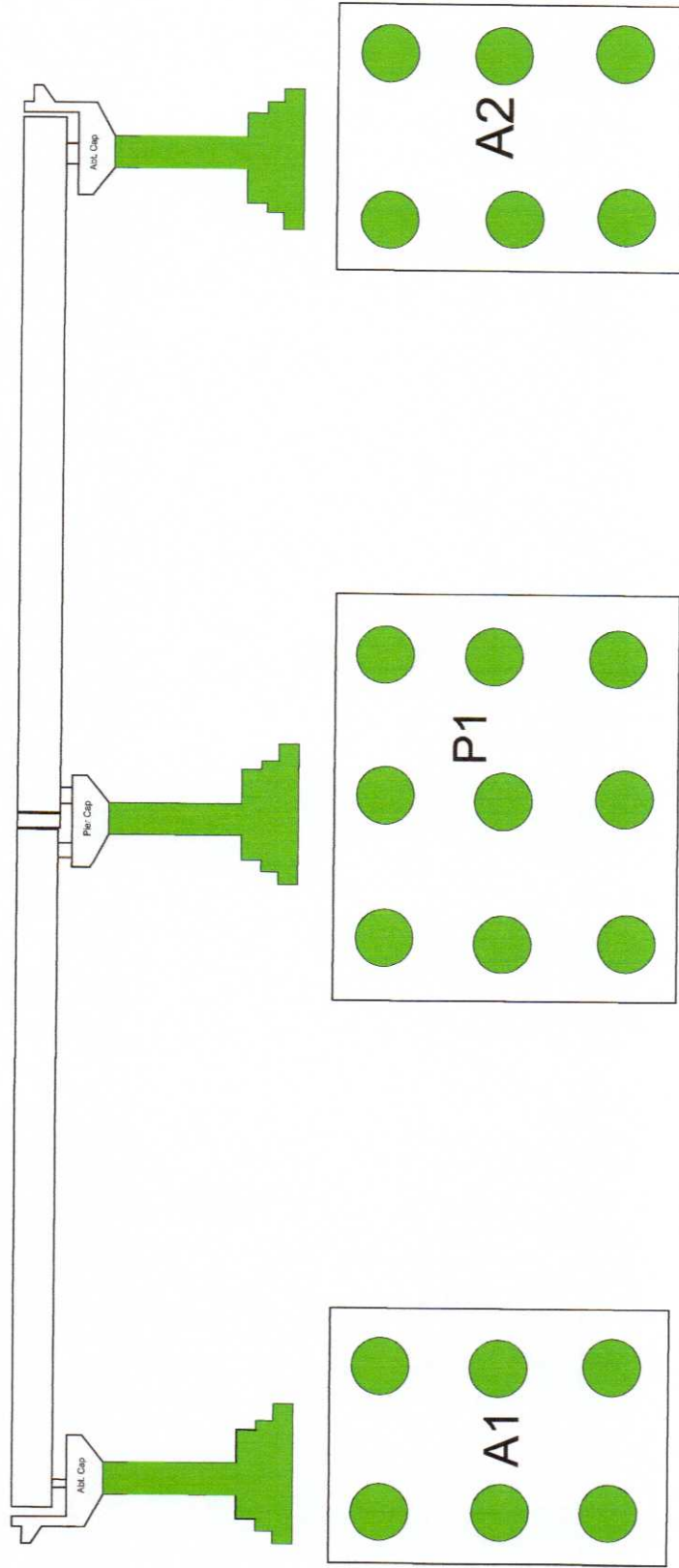
LHS



RHS

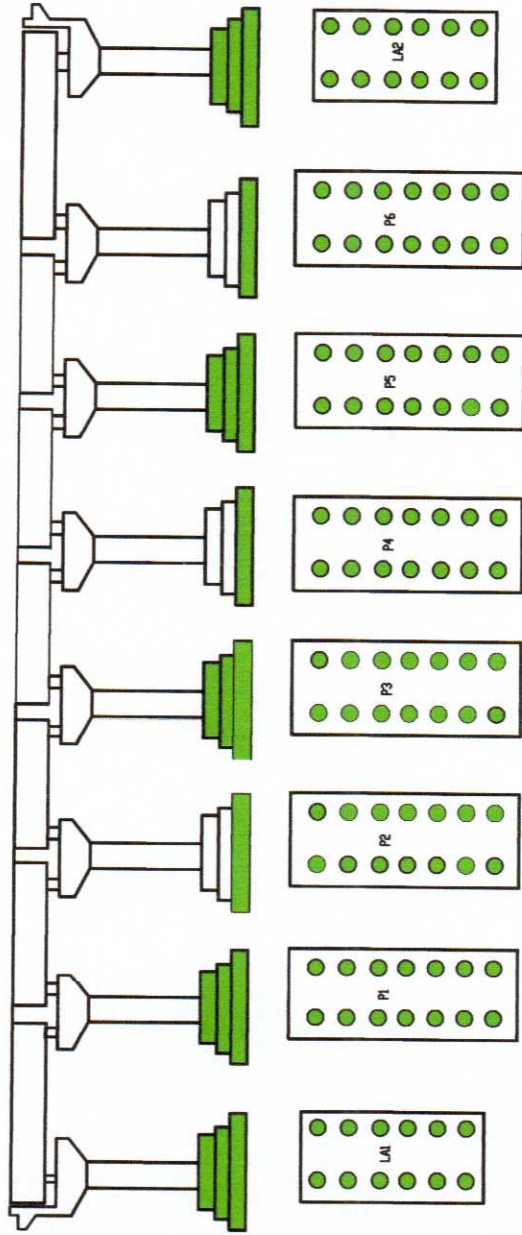


CH 349+441 VOP

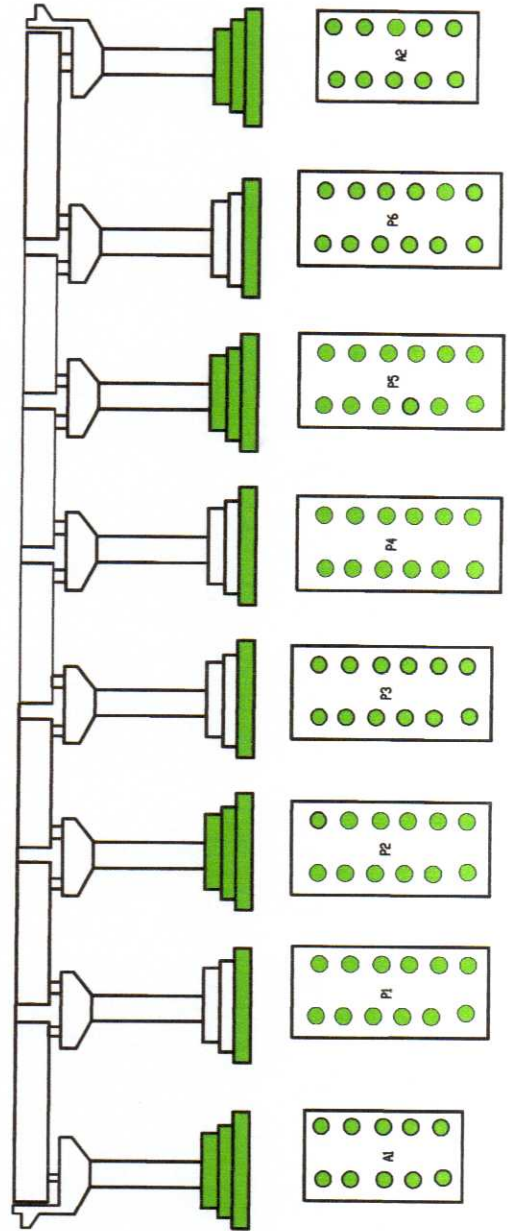


Ch 353+666 Interchange

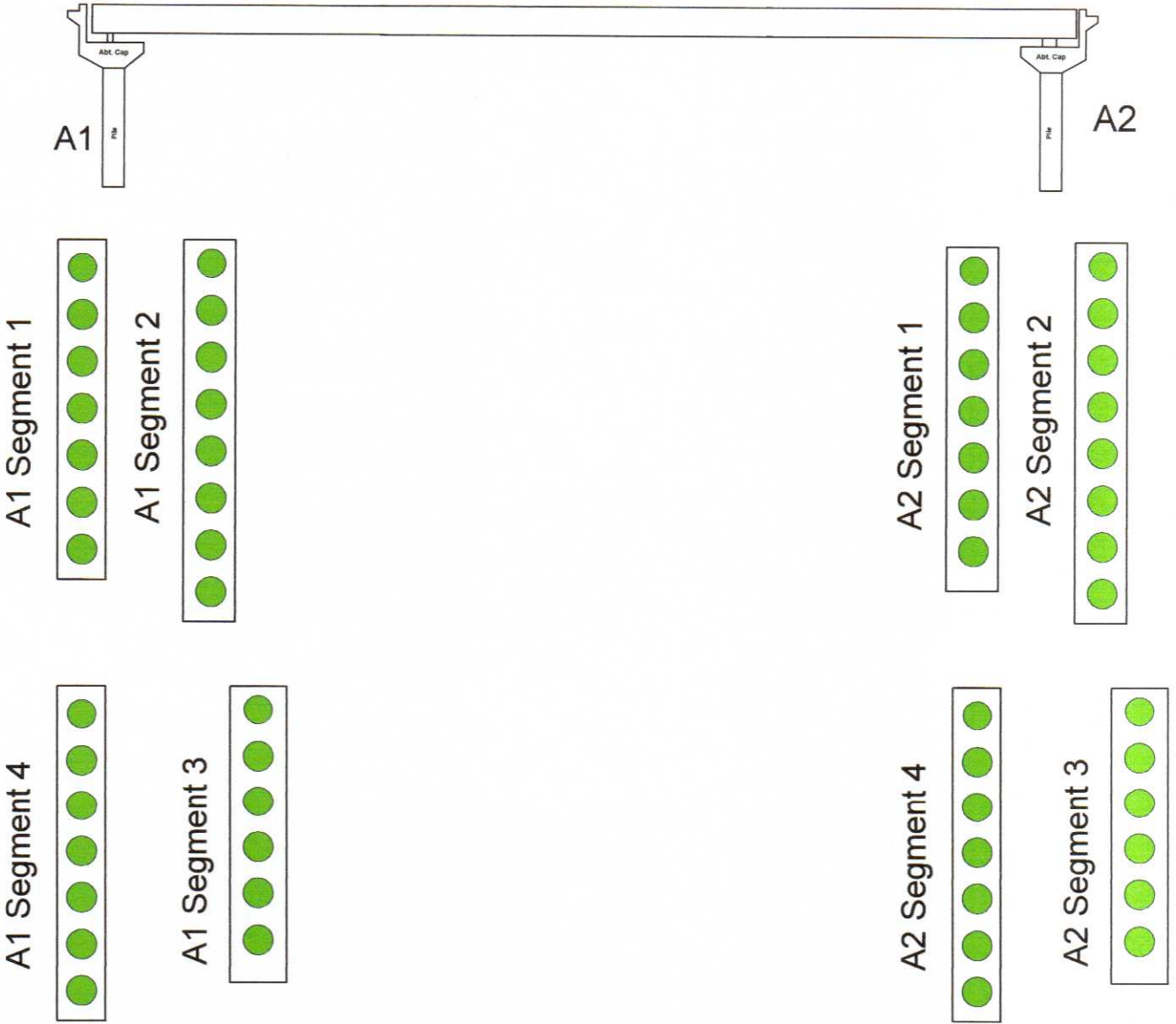
LHS



RHS

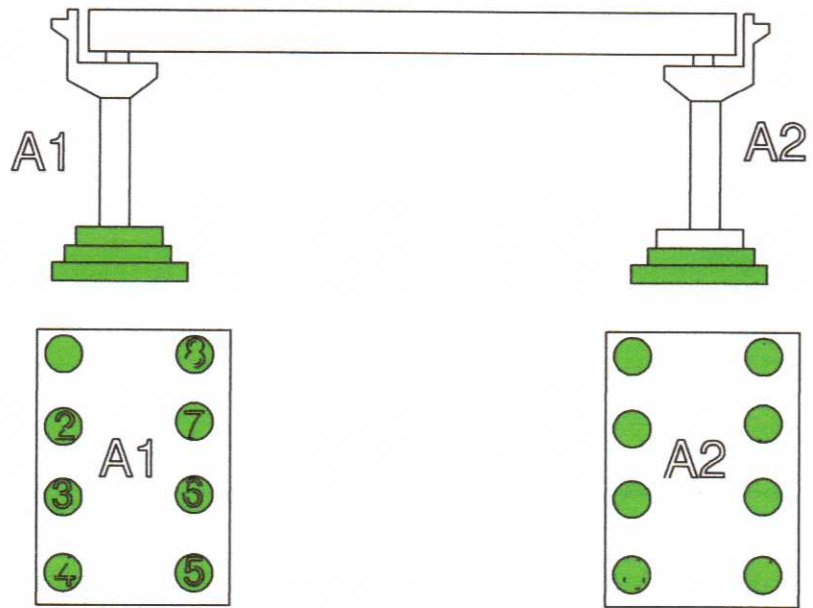


CH 354+636 MNB

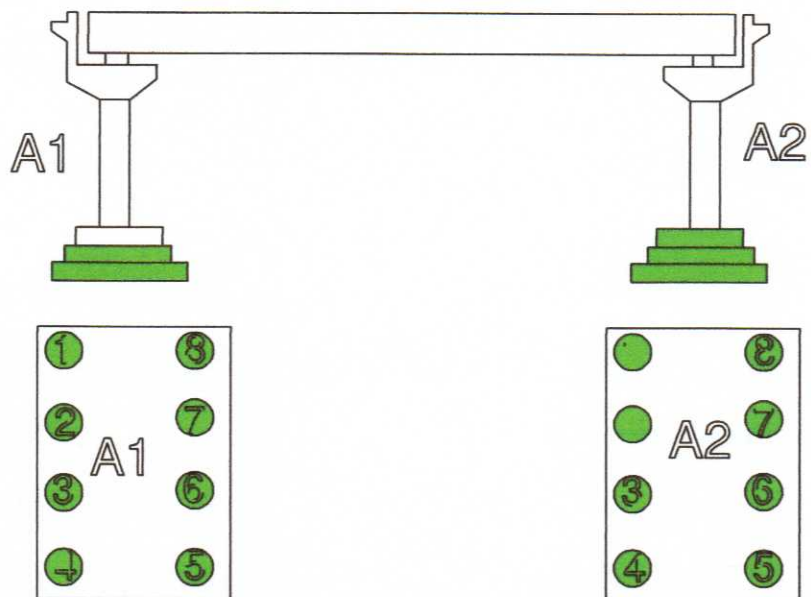


CH 324+193 MNB

LHS

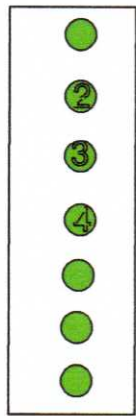
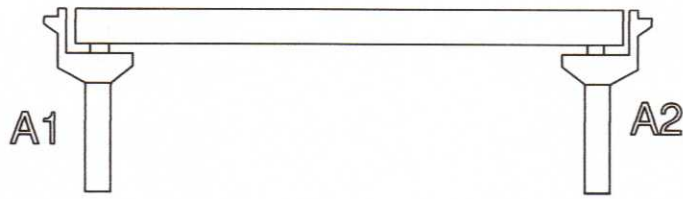


RHS

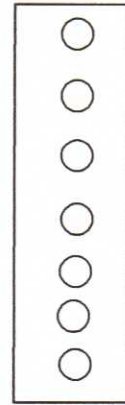


MINOR BRIDGE 350+143

LHS

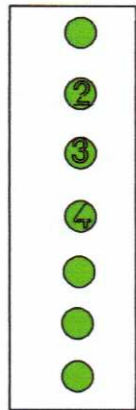
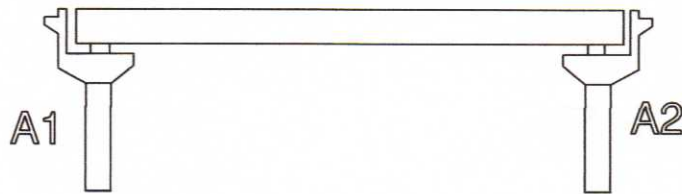


A1

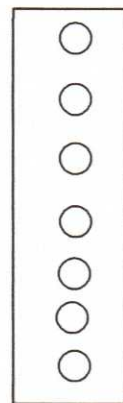


A2

RHS

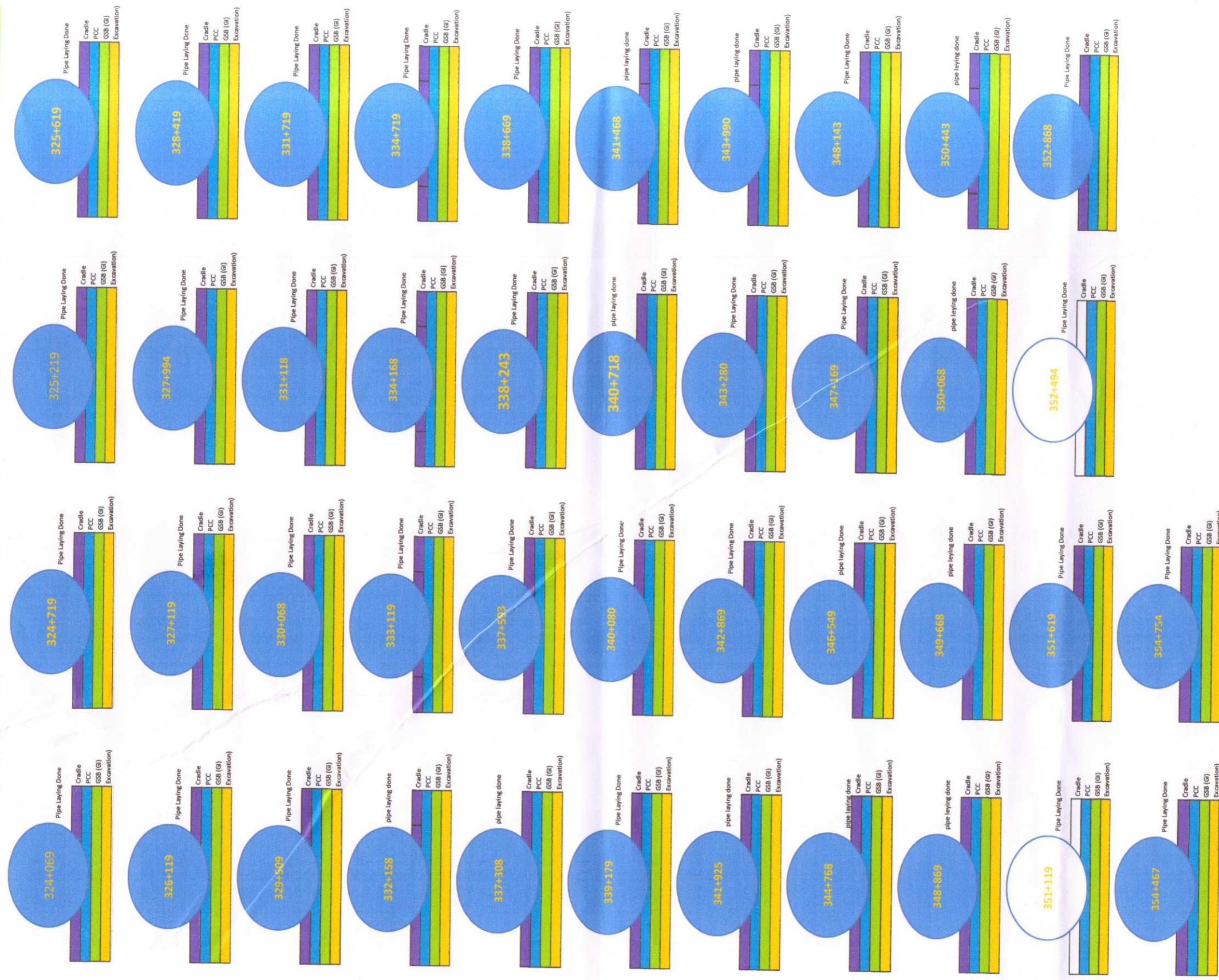


A1

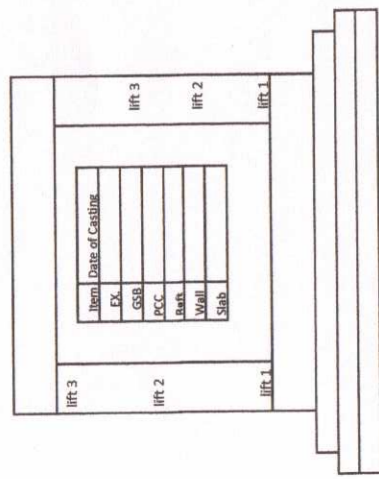


A2

Pipe Culverts



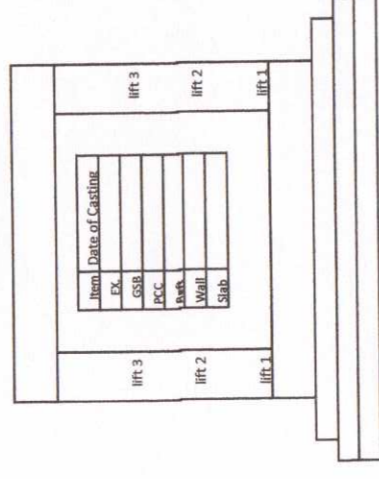
BOX Culverts



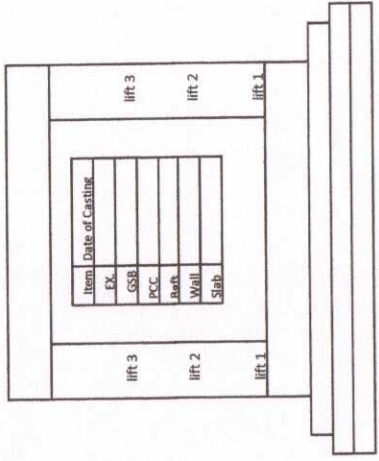
323+039



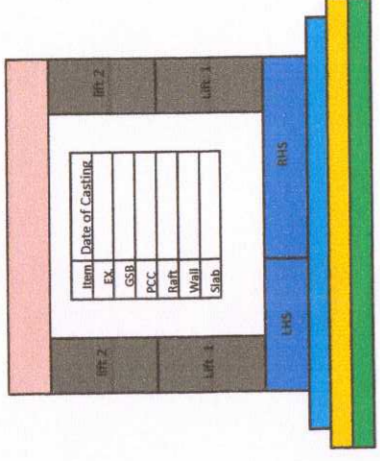
324+164



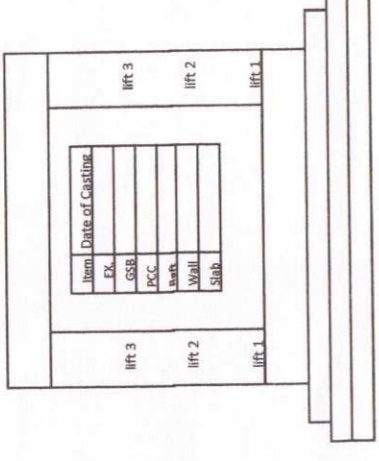
324+987



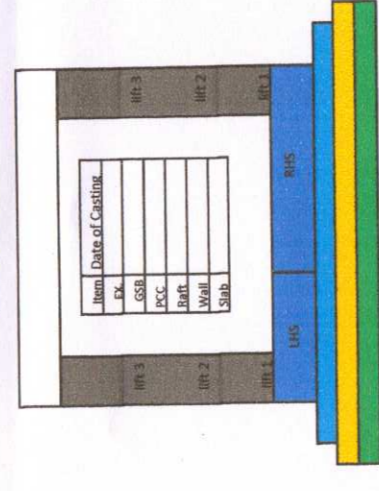
323+087



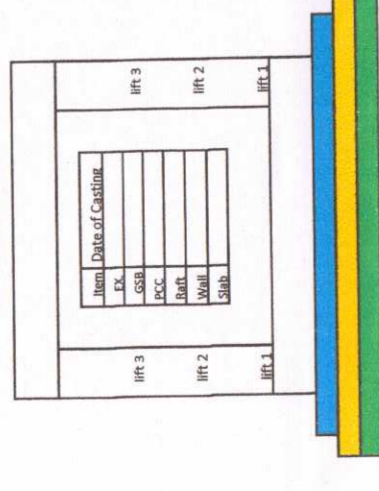
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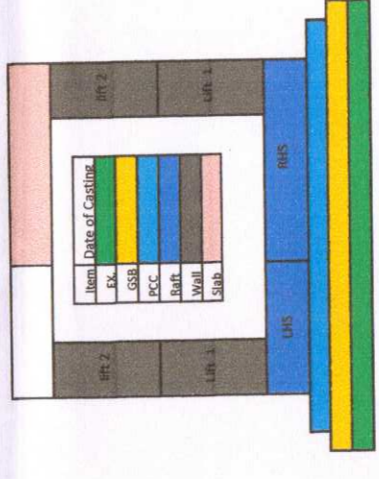
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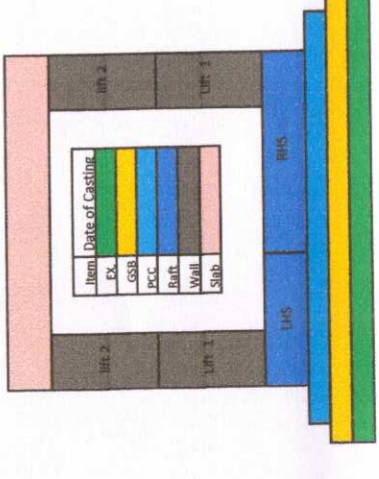
326+957



331+840



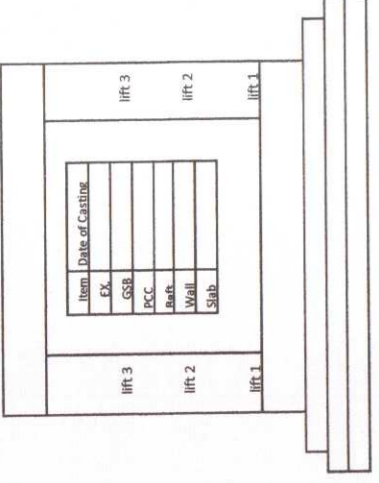
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333+661



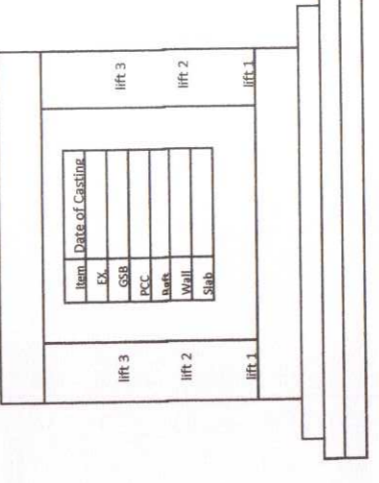
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323+425



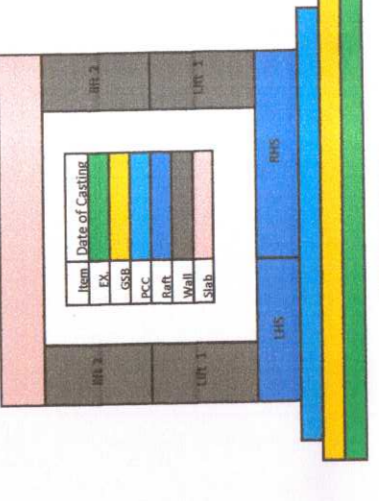
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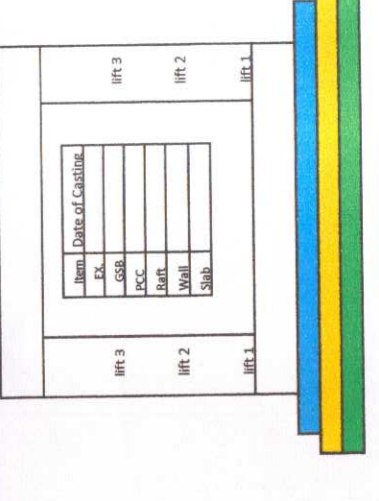
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330+853

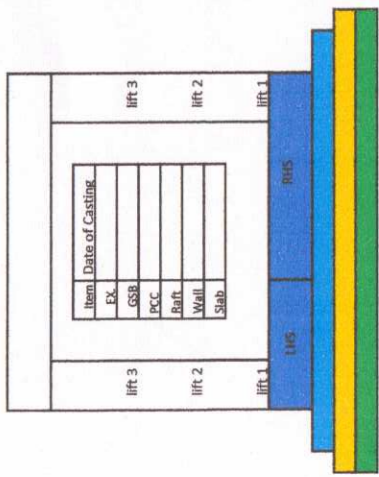


335+074

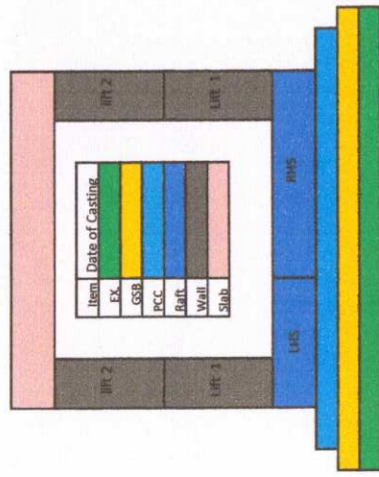


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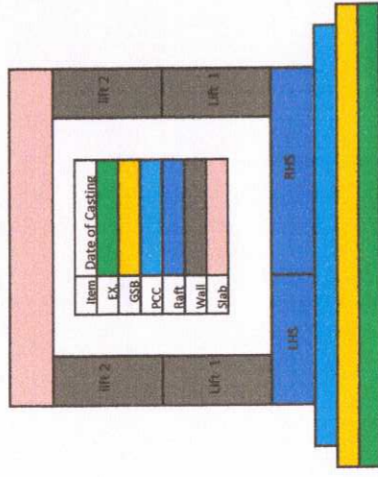
BOX Culverts



339+948



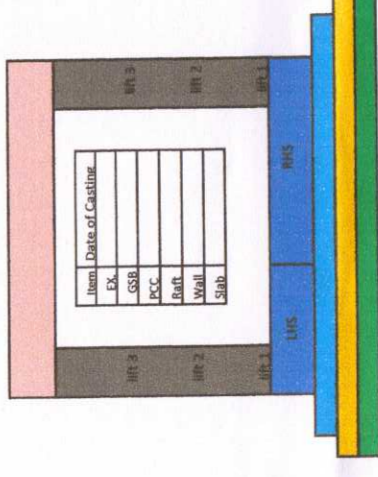
342+620



345+966



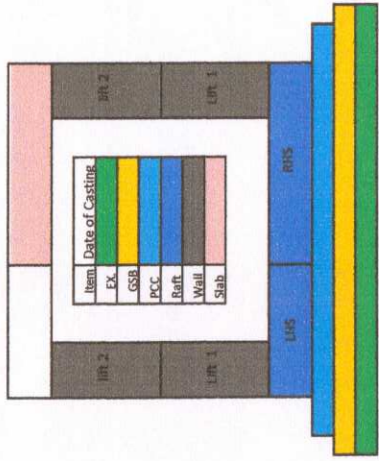
347+357



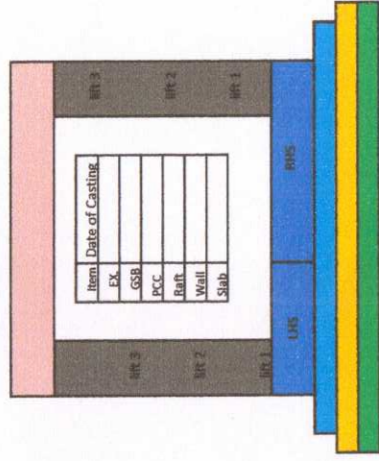
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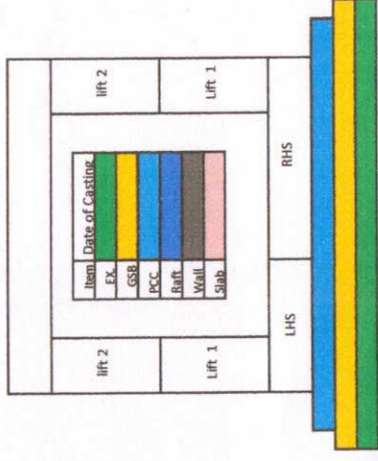
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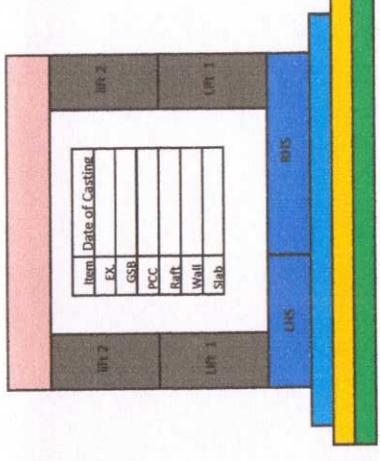
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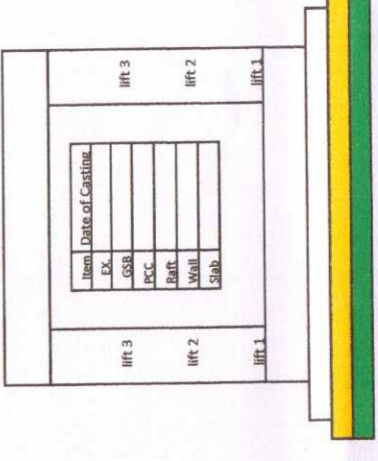
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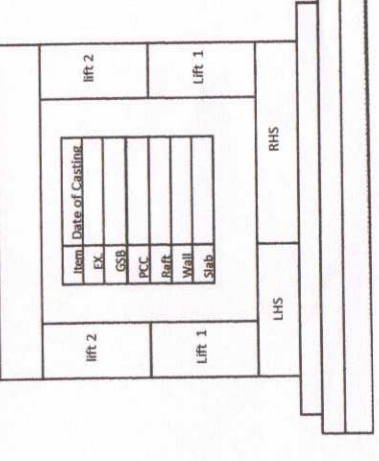
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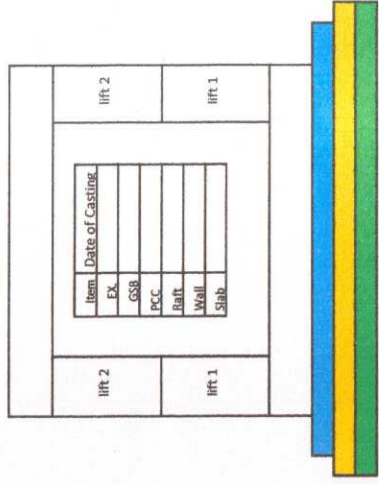
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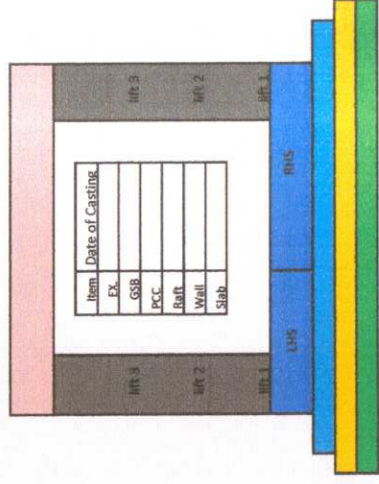
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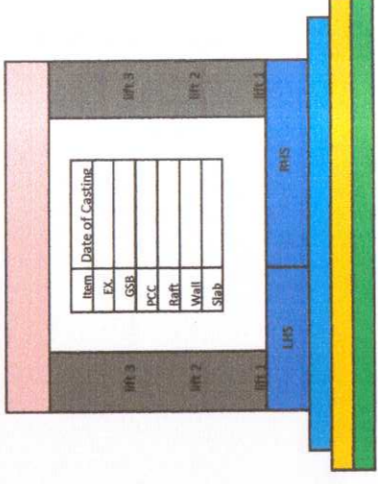
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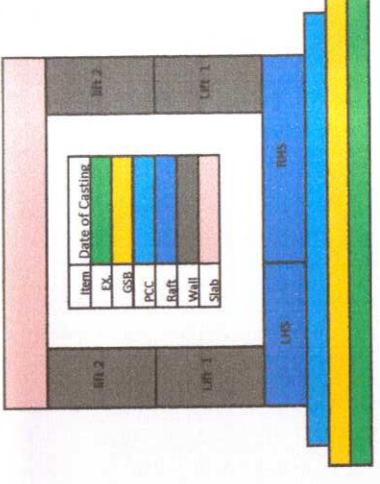
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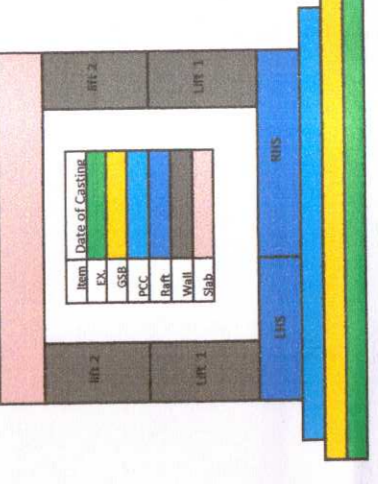
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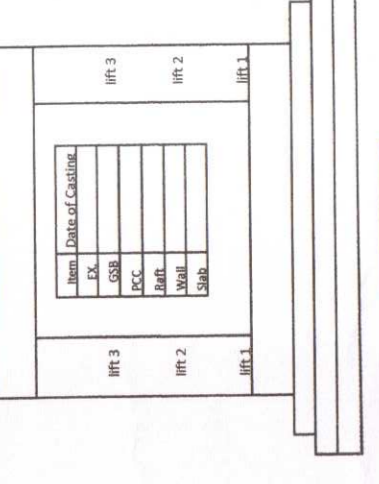
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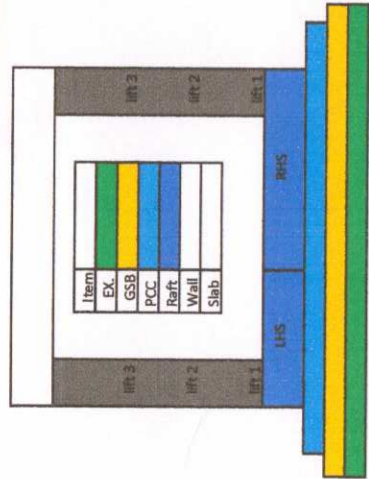
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349+809



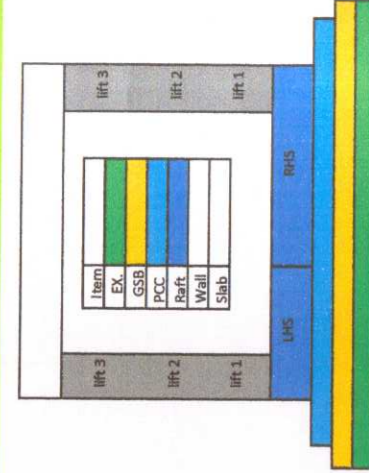
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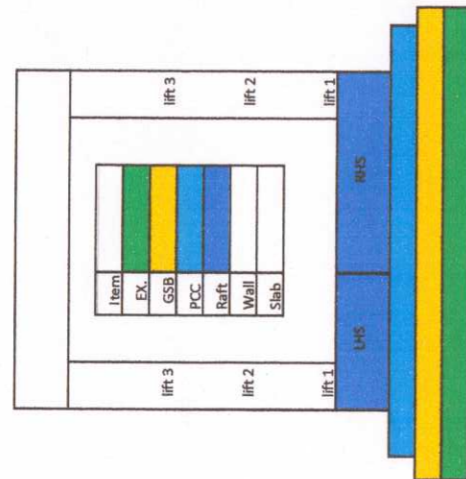
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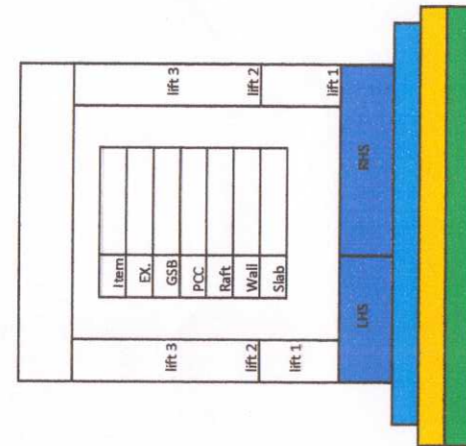
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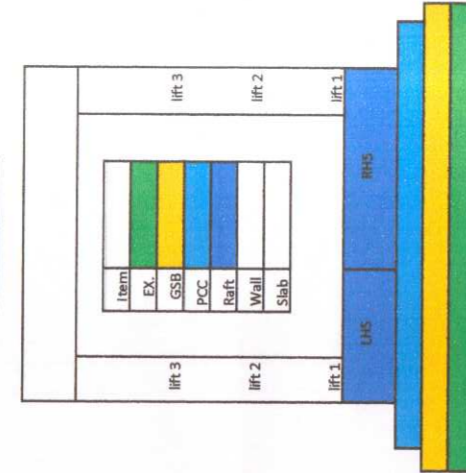
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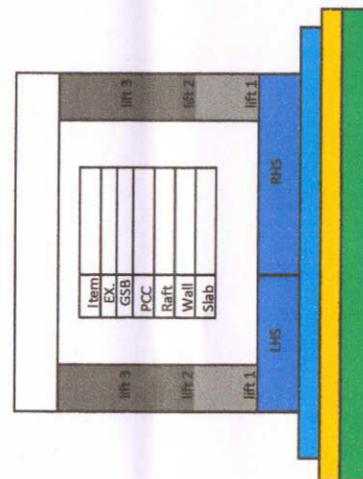
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342+543



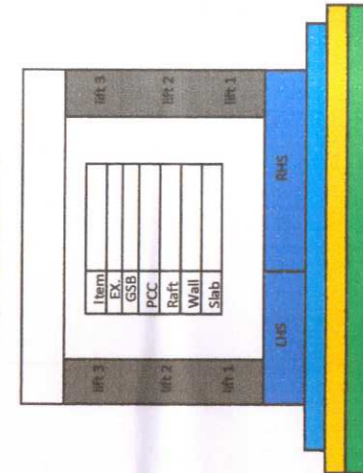
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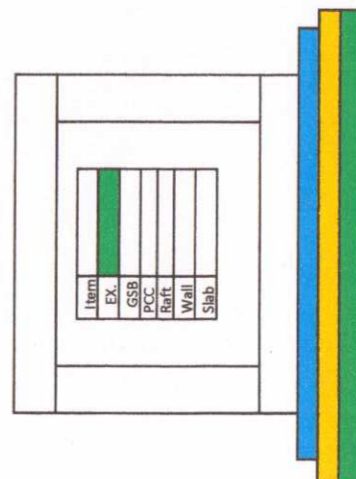
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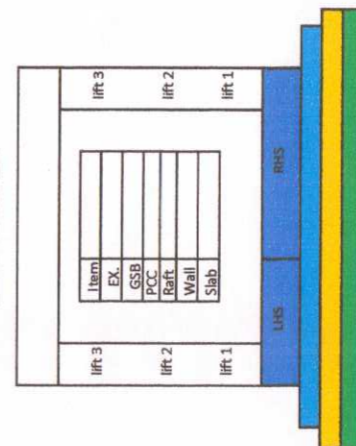
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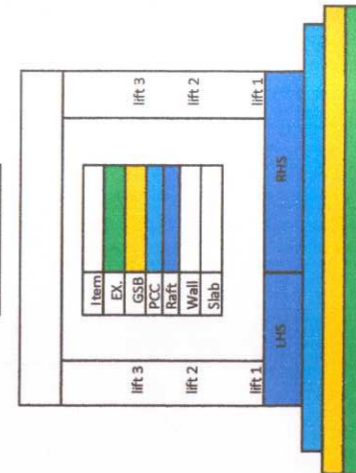
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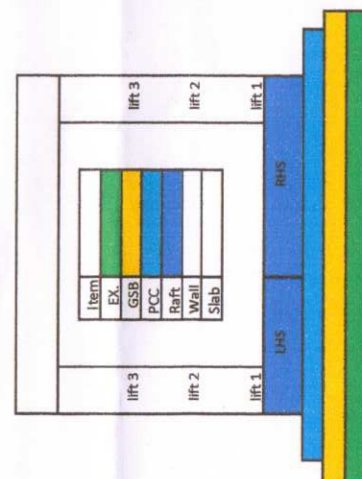
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347+922



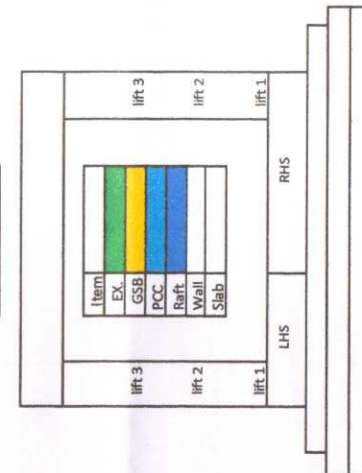
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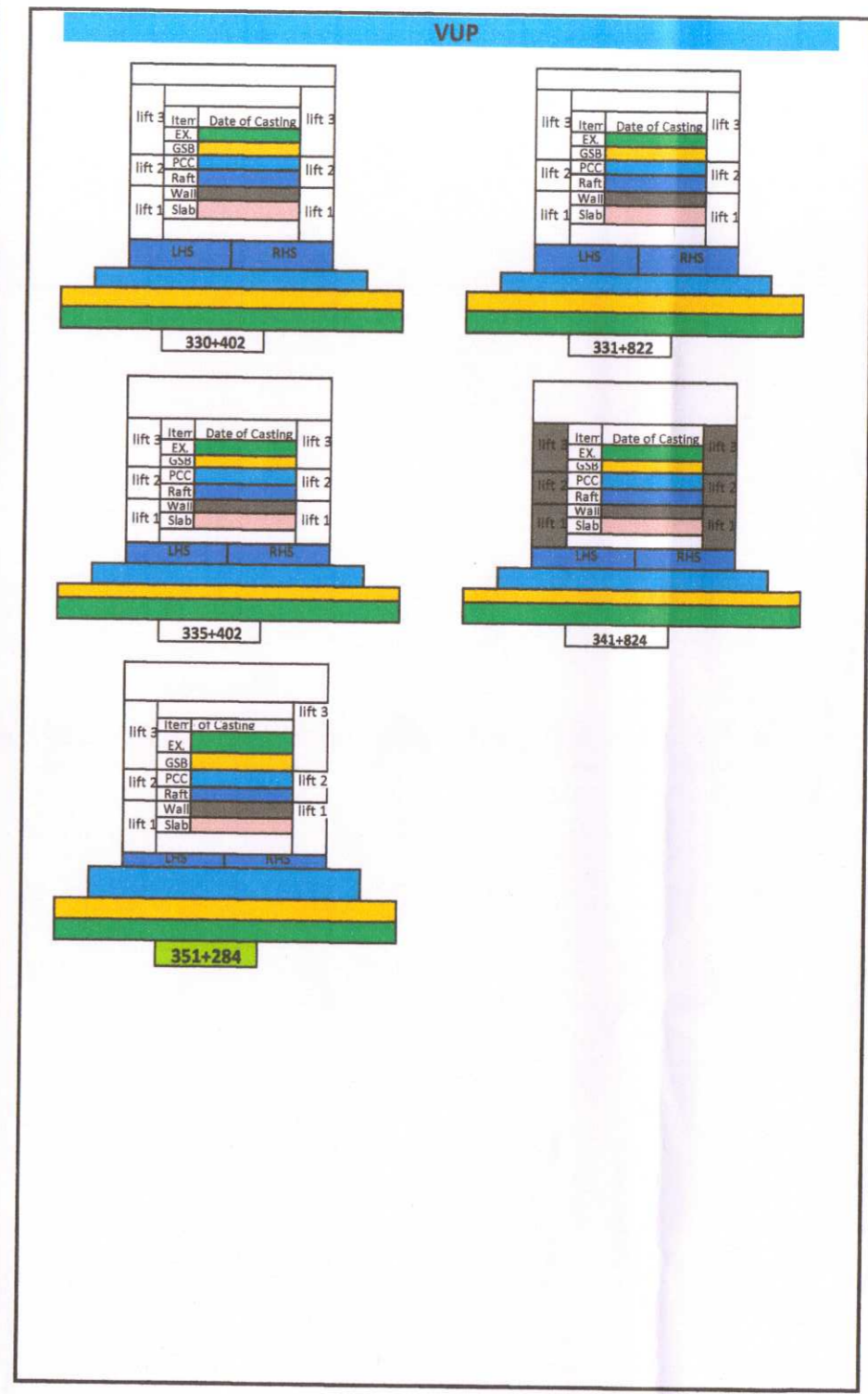
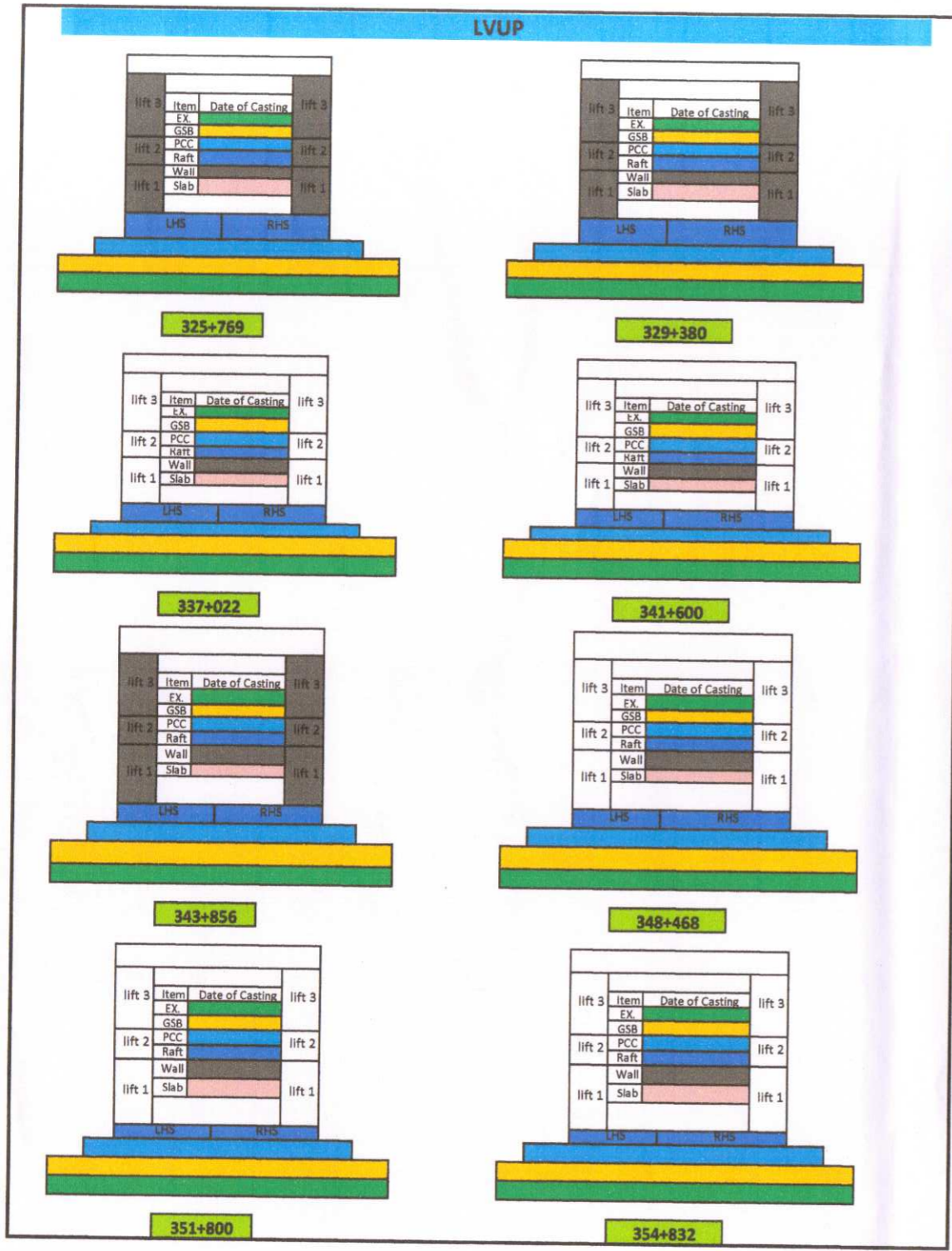
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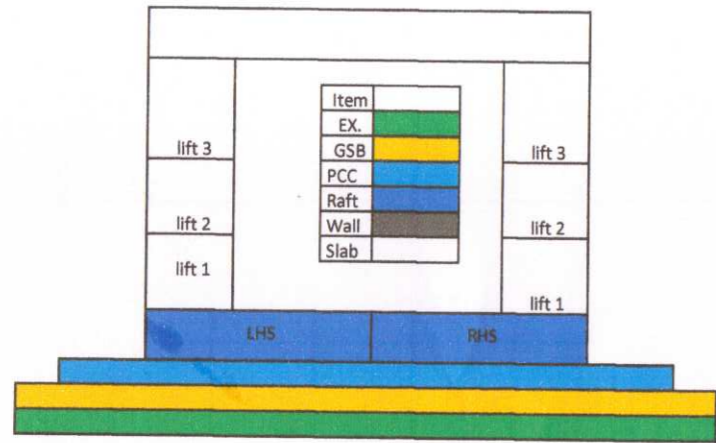
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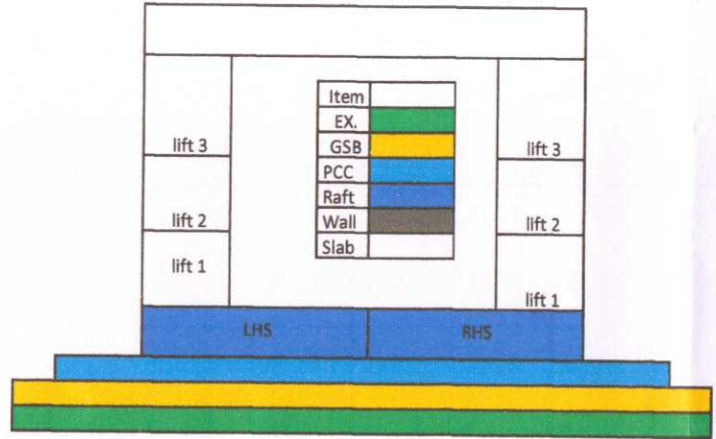
352+317



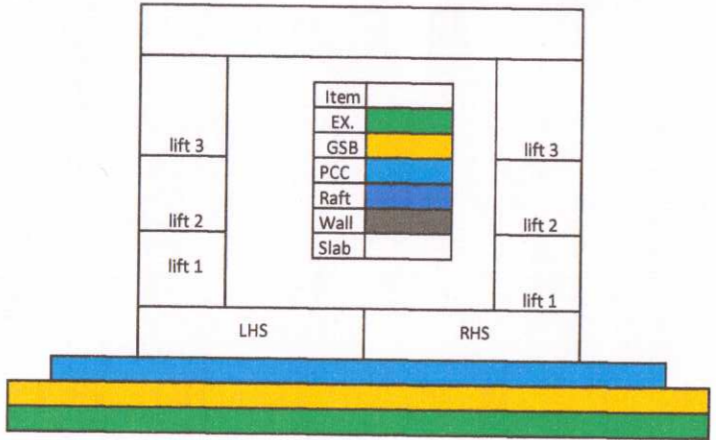
MNB



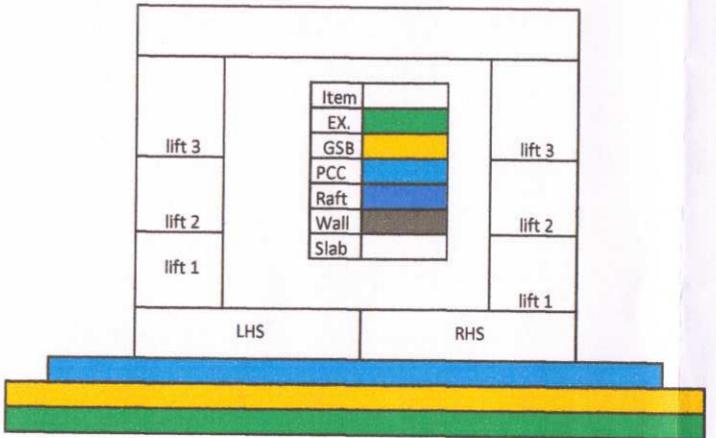
329+062



337+874

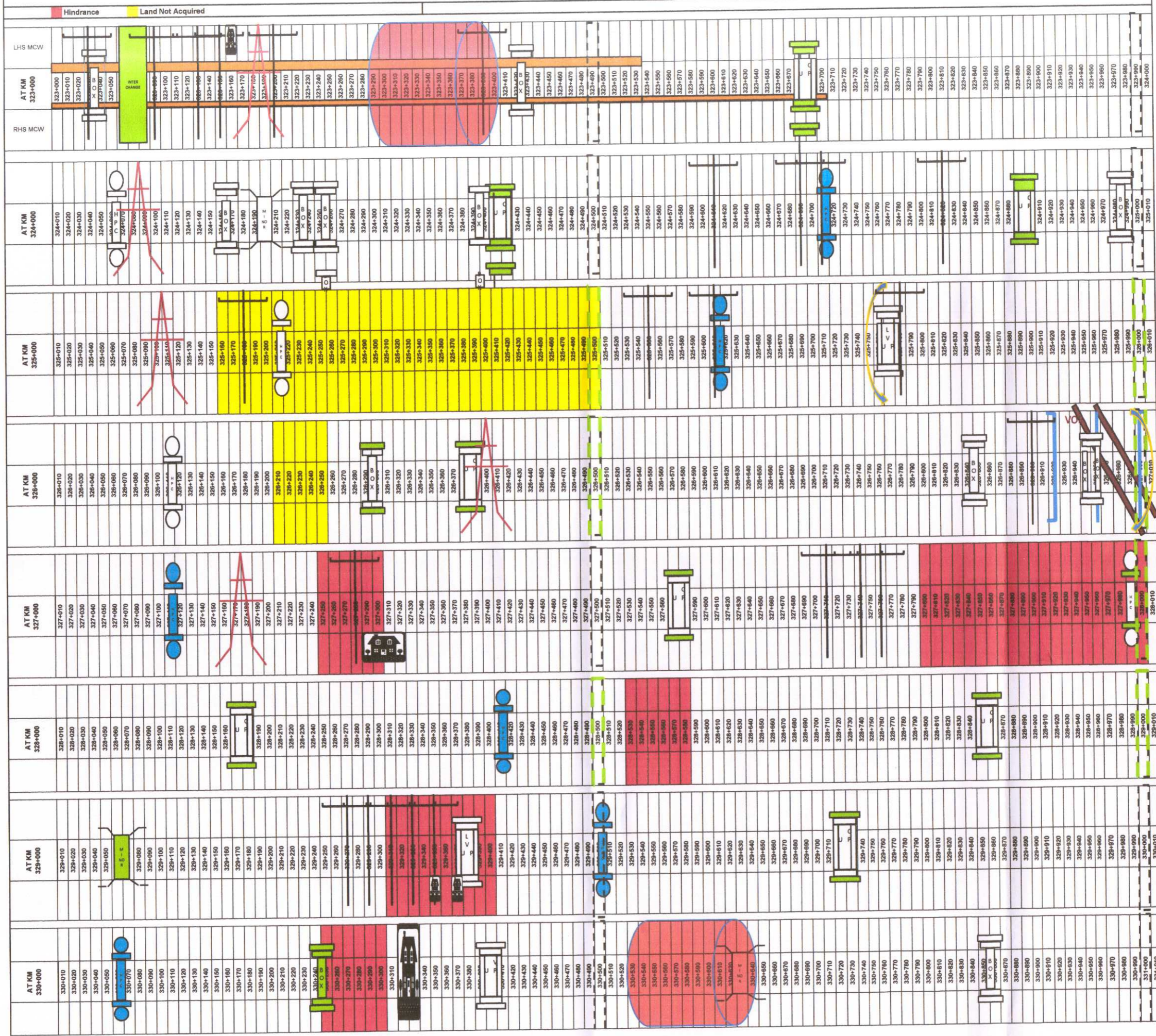


346+743

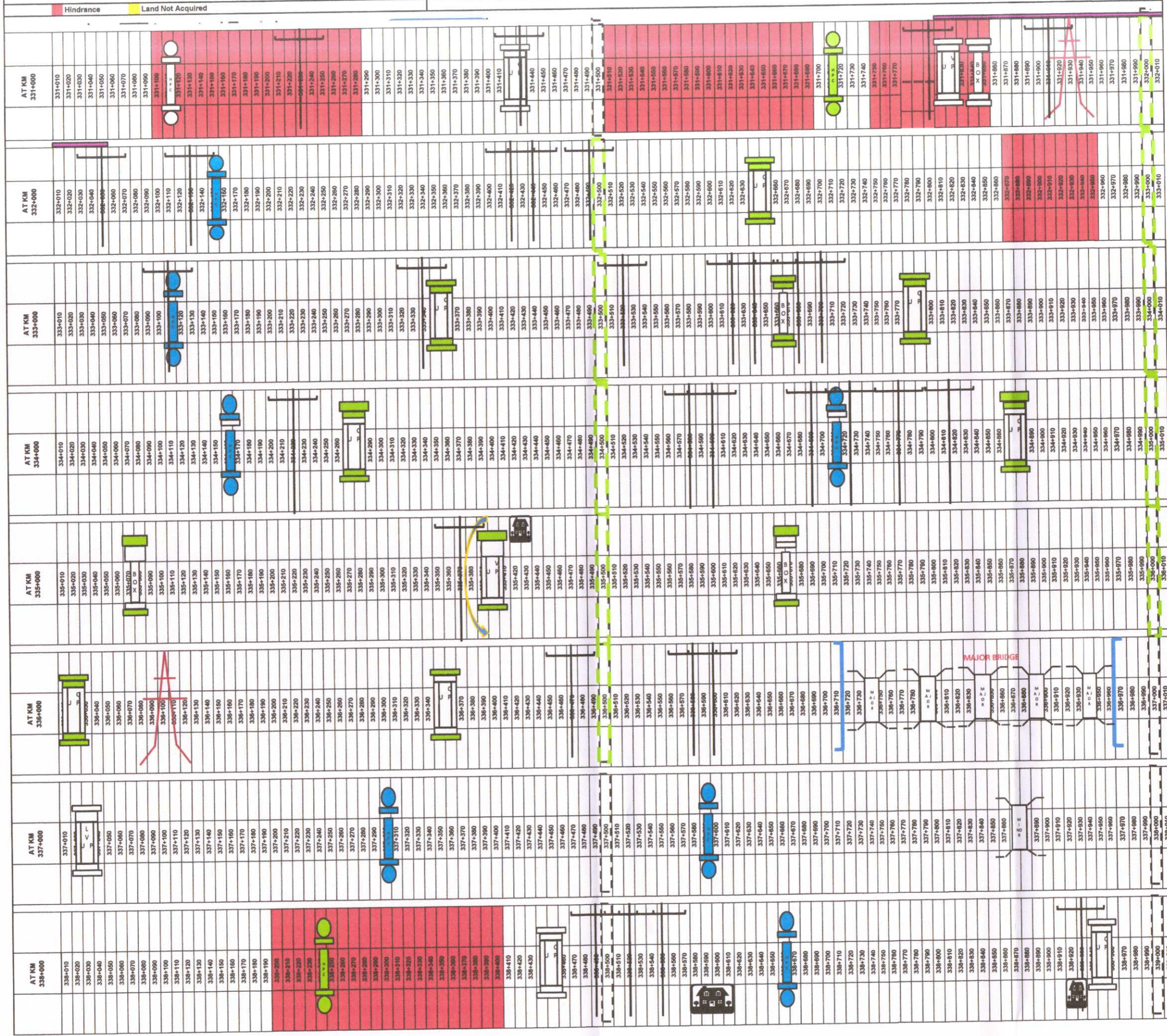


350+201

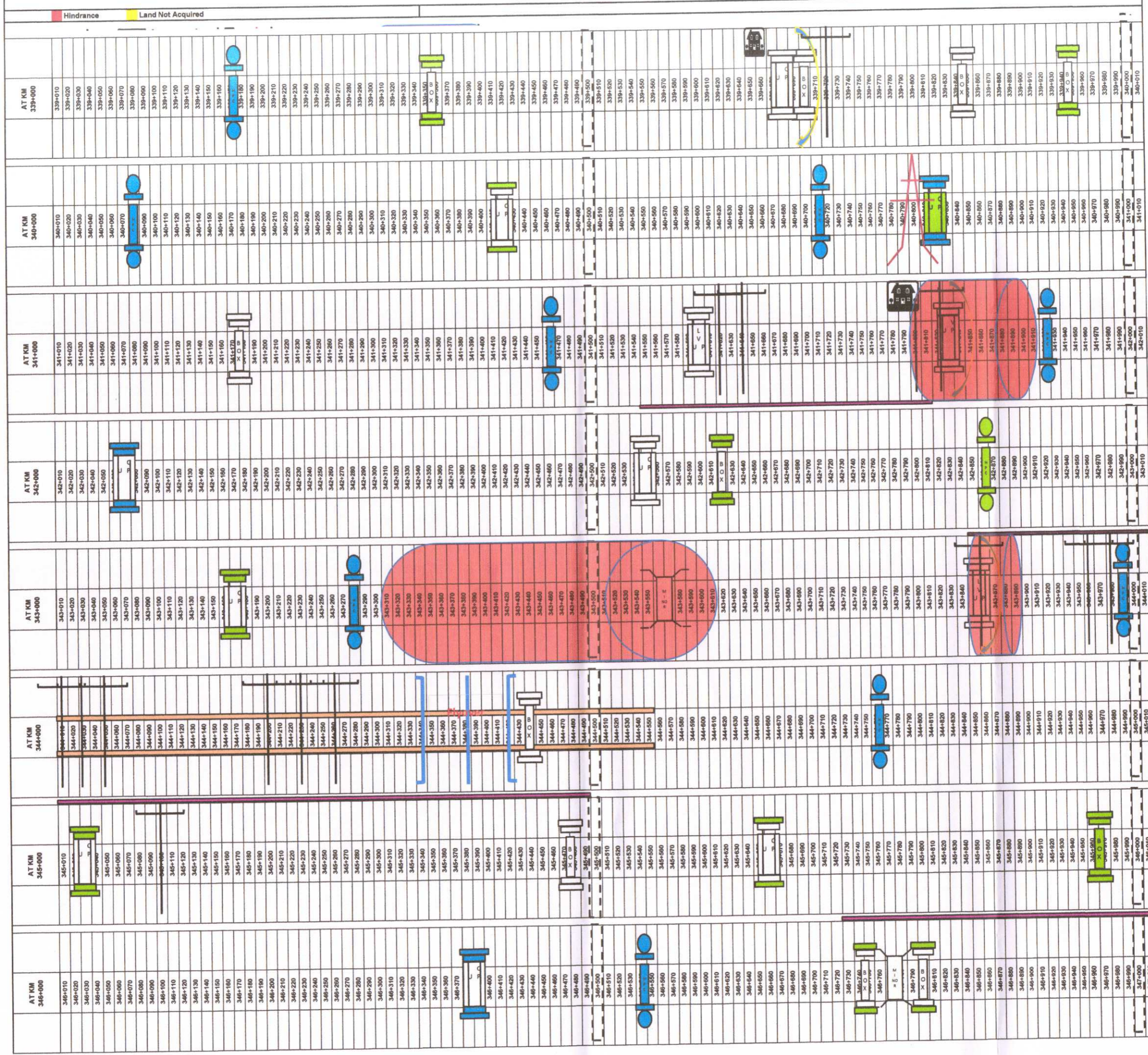
Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) in the state of Gujarat on EPC Mode



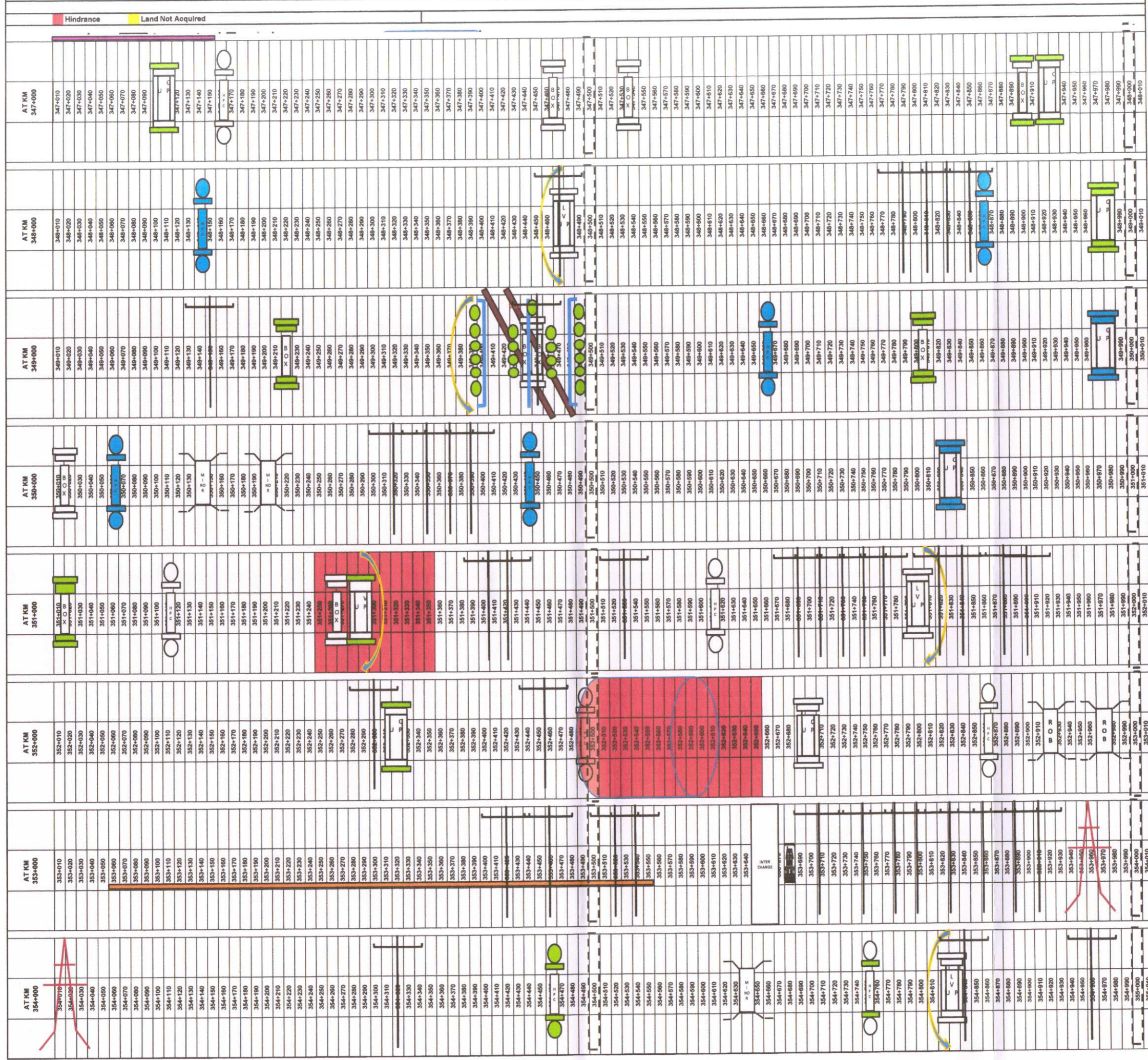
Construction of Eight Lane Vadodara - Kim Expressway from Km 323.00 to Km 355.00 (Sanpa to Padra Section of Vadodara - Mumbai Expressway) In the state of Gujarat on EPC Mode



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



Updated Details of Site Hindered due to Land as on 31.10.2019

Sr. No.	Chainage from		Affected length	Village Name	Survey No.	Structure/ Highway	Owner Name	Hindrance Description	Current Status
Add.3A									
1	325+160	325+320	340	Sanpa	337	HPC	Govardhanbhai Ranchoddas	3A for some increased area processed by SEACON for approval of CALA & further action.	Additional 3A Authentication done at dt. 05-10-2019 from CALA
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.	Additional 3A Authentication done at dt. 05-10-2019 from CALA
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.	Additional 3A Authentication done at dt. 05-10-2019 from CALA
4	331+780	331+800	20	Handod	8	Highway	Prafulbhai Bhatt	DLR has been submitted to NHAI & CALA office on 23.08.19 favour of survey no.8.	Additional 3A Authentication done at dt. 05-10-2019 from CALA
Total Length			400						

Payment									
1	325+160	325+320		Sanpa	337		Govardhanbhai Ranchoddas	Award of Rs. 1 lakh against tube well submitted to CALA for payment.	Payment disbursement pending from CALA office
2	327+250	327+300	50	Bodka	70	Highway	Vinunbhai kanjibhai Gondiyal	Award of Rs. 1 lakh against tube well submitted to CALA for payment.	Payment disbursement pending from CALA office
3	329+355	329+400	45	Kanbha	413	LVUP	Malik Yusuphbhai	Award of Rs. 1 lakh against tube well submitted to CALA for payment.	Payment disbursement pending from CALA office
4	330+250	330+300	50	Kanbha	296	Highway	Idrishbhai ahamadbhai	Award of Rs. 1 lakh against tube well submitted to CALA for payment.	Payment disbursement pending from CALA office
5	331+100	331+280	180	Handod	41	HPC	Pannubhai Bhatt	Award submitted to CALA for payment.	Payment disbursement pending from CALA office
Total Length			325						

Updated Details of Site Hindered due to Land

Sr. No.	Chainage from		Affected length	Village Name	Survey No.	Structure/ Highway	Owner Name	Hindrance Description	Current Status
Other issue									
1	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.	In view this reference, it has been noticed that this discrepancy is came due to village map. oncessionaire suggest NHAI/CALA to refer the matter the DLR for rectifying this discrepancy of survey no.161.
2	338+200	338+400	200	Hosepur	276	HPC	Somabhai Vasava	Kachchi Nond updated in revenue record with owner's name and 7/12 will be shown in revenue record after 45 days	Under Process
Total Length			250						

Force Possession

1	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.	Force Possession
2	329+310	329+355	45	Kanbha	10	LVUP	Mohan Kashi Prajapati	Payment done but owner claims that his cow shelter needs to be considered for payment.	Force Possession
3	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.	Force Possession
4	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.	Force Possession
5	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.	Force Possession
6	351+250	351+350	100	Sonkhra Khurd	77	BOX.VUP	Jagdishbhai Shivabhai Jadhav	Forced possession is being persuaded	Force Possession
7	352+550	352+650	100	Sonkhra Khurd	199	Highway	Bhailalbhai Shakarbhai Solanki	Forced possession is being persuaded	Force Possession
Total Length			805						
Total Affected Length			1780						

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 Affetcted 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	
10	324+700	324+705	Karjan	LHS		5	Transformer	Within ROW (LHS)
11	324+800	324+830	Karjan		2/11KV	30	Electric Line Crossing	MCW, Shoulder and Service Road Affetcted because the electric line crossing over the Entire ROW
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	Within ROW (RHS)
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 Affetcted because the electric line crossing over the Entire ROW
27	329+310	329+330	Karjan		11 KV	20	Electric Line Crossing	
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 Affetcted because the electric line crossing over the Entire ROW
30	331+230	331+240	Karjan		11 KV	10	Electric Line Crossing	
31	331+430	331+440	Karjan		11 KV	10	Electric Line Crossing	MCW
32	331+800	331+820	Karjan		11 KV	20	Electric Line Crossing	MCW, Shoulder and Service Road Affetcted because the electric line crossing over the Entire ROW
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	MCW to ROW (LHS)
39	333+100	333+130	Karjan		11 KV	30	Electric Line Crossing	MCW, Shoulder and Service Road Affetcted 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	MCW, Shoulder and Service Road Affetcted because the electric line crossing over the Entire ROW
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	

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 Affected 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-2		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	
					TOTAL LENGTH	2310		

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		Vishvamitri 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	Effectuated 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
TOTAL LENGTH					185

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	
			TOTAL LENGTH	820	

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
		TOTAL LENGTH	40	

Details of Letter Correspondence From PIL TO IRCON.

Sr.	Date	Letter No.	Subject
1	01.10.2019	PIL/ VK2/ IRCON/ 256 / 2019	Request to Release Payment for Price Adjustment of Interim payment -1 & Interim Payment-02 as per Contract Clause 19.10.
2	01.10.2019	PIL/ VK2/ IRCON/ 257 / 2019	Factory Visit of Strata Geosystems (India) Pvt. Ltd & SUYOG Suppliers. (Geogrid & Flyash).
3	04.10.2019	PIL/HO/ VKP2/IRCON/ 635/2019	Regarding details of Right of way remains affected / not made available within 180 days from appointed date for the Project Highway"
4	04.10.2019	PIL/HO/ VKP2/IRCON/ 638/2019	Compliance to the observations made on submission design & drawings of Superstructure, Substructure and foundation of VOP at Ch. 349+441
5	04.10.2019	PIL/ VK2/ IRCON/ 259 / 2019	More land used against actual acquired land for Survey no.161, Village – Vodka, Taluka – Karjan, District- Vadodara -Regd.
6	04.10.2019	PIL/ VK2/ IRCON/ 260 / 2019	Submission of Physical Progress details on achieving of 20% Physical Progress as an Intimation prior to Occurrence of Milestone-I as per Annexure-I of Schedule – J.
7	05.10.2019	PIL/ VK2/ IRCON/ 261 / 2019	Submission of Monthly Progress Report for the Month of Sept '19.
8	07.10.2019	PIL/ VK2/ IRCON/ 262 / 2019	Submission of High Strain Dynamic Pile Load Testing Report for Interchange 323+074 by M/s CIMEC Technologies Pvt Ltd.
9	10.10.2019	PIL/ VK2/ IRCON/ 266 / 2019	Compliance to the observations made on submission of Annexure 1 of Schedule - G
10	11.10.2019	PIL/ VK2/ IRCON/ 267 / 2019	Submission of Company Profile & Credentials for Supplying of Reinforcement steel - " M/S Nilkanth Concast Pvt. Ltd. An ISO 9001-2008 certified company" for Approval
11	12.10.2019	PIL/ VK2/ IRCON/ 268 / 2019	Resubmission of IPC 3
12	12.10.2019	PIL/ VK2/ IRCON/ 269 / 2019	Providing details of specifically Designated Account of Receiving Interest Bearing Working Capital Advance
13	12.10.2019	PIL/ VK2/ IRCON/ 270 / 2019	Assurance Regarding Depositing of Royalty for Materials used in the Construction of Project Vadodra- KIM expressway.
14	12.10.2019	PIL/ VK2/ IRCON/ 271 / 2019	Submission of Method Statement for conducting High strain Dynamic Pile testing for routine pile by "M/S Aadhya Engineering Services- An ISO 9001:2008 Certified Company"
15	12.10.2019	PIL/ VK2/ IRCON/ 272 / 2019	Request to providing financial assistance against
16	12.10.2019	PIL/ VK2/ IRCON/ 273 / 2019	Submission of Design for Staging
17	15.10.2019	PIL/ VK2/ IRCON/ 274 / 2019	Submission of Company profile & credentials for the Maccaferri Environmental Solutions Pvt. Ltd., Manas Geo Tech India Pvt. Ltd. & Techfab (India) Industries Ltd. of Geo-textile material for source approval.
18	17.10.2019	PIL/ VK2/ IRCON/ 275 / 2019	Resubmission of Compliance to the Observations made on Annexure-I of Schedule - G
19	17.10.2019	PIL/ VK2/ IRCON/ 276 / 2019	Submission of Borrow area 3(C) & 9 (A)
20	21.10.2019	PIL/ VK2/ IRCON/ 277 / 2019	Submission of High Strain Dynamic Pile Load Testing Report for VUP at Ch. 349+441 & For Interchange at Ch. 323+074, tests conducted by Aadhya Engineering Services.
21	22.10.2019	PIL/ VK2/ IRCON/ 278 / 2019	Submission of Test Reports of source visit of Suyog for Fly Ash & Strata Geosystems (India) Pvt. Ltd. for Geogrid.
22	23.10.2019	PIL/ HO/ VKE2/IRCON 664/ 2019	Release of Payment against working Capital Advance.

Details of Letter Correspondence From IRCON TO PIL.

Sr.	Date	Letter No.	Subject
1	01.10.2019	IRCON/ 3019/ VKE/ PATEL / 867	Submission of revised Test Pile Design and Drawing for MNB at Ch. 354+636
2	01.10.2019	IRCON/ 3019/ VKE/ PATEL / 868	Submission of details with compliance
3	04.10.2019	IRCON/ 3019/ VKE/ PATEL / 869	Submission of details with compliance
4	04.10.2019	IRCON/ 3019/ VKE/ PATEL / 870	Shifting / Modification of EHV Transmission line of 400 KV SUGEN/ PIRANA/ VAPI/ JHANOR/ DEGN Line
5	04.10.2019	IRCON/ 3019/ VKE/ PATEL / 871	Monthly Progress Report of M/s Patel Infrastructure Limited (PIL)
6	04.10.2019	IRCON/ 3019/ VKE/ PATEL / 872	Gail Utility Shifting
7	04.10.2019	IRCON/ 3019/ VKE/ PATEL / 873	Shifting of Three Phase Light Connection
8	07.10.2019	IRCON/ 3019/ VKE/ PATEL / 877	Compliance to Observations made on Embankment construction.
9	07.10.2019	IRCON/ 3019/ VKE/ PATEL / 879	Closure of Non Conformance Report (NCR)
10	09.10.2019	IRCON/ 3019/ VKE/ PATEL / 880	Programme of Inspection on the Project Highway for the Month of September 2019
11	09.10.2019	IRCON/ 3019/ VKE/ PATEL / 881	To provide facility for exit of monsoon water at Village: Survada, Taluka: Karjan Dist.: Vadodara due to construction of Vadodara-Mumbai Expressway
12	09.10.2019	IRCON/ 3019/ VKE/ PATEL / 882	Submission of Drawing and design report for MNB at Ch. 346+743
13	09.10.2019	IRCON/ 3019/ VKE/ PATEL / 883	Utility shifting estimates for GWSSB Pipeline
14	09.10.2019	IRCON/ 3019/ VKE/ PATEL / 884	Shifting/ Modification of EHV Transmission line of 400 KV SUGEN/PIRANA/VAPI /JHANOR/DEGN line of M/s TORRENT
15	11.10.2019	IRCON/ 3019/ VKE/ PATEL / 888	Approval GAD Drawings of Minor Bridge at Ch. 330+622
16	11.10.2019	IRCON/ 3019/ VKE/ PATEL / 889	Estimate for Shifting various 66 KV and EHV class existing transmission lines for M/s NHA under deposit work option-II, under Construction Division, Jambuva of Jambuva Circle.
17	11.10.2019	IRCON/ 3019/ VKE/ PATEL / 890	Land Acquisition issues of Angadh and Samiyala Village, Vadodara
18	11.10.2019	IRCON/ 3019/ VKE/ PATEL / 891	Shifting of various 220 KV & 400 KV Transmission line of POWERGRID for the proposed Vadodara-Mumbai Eight Lane Expressway in the state of Gujarat.
19	11.10.2019	IRCON/ 3019/ VKE/ PATEL / 892	Factory Visit of Strata Geosystems (India) Pvt. Ltd (Geogrid) & SUYOG Suppliers. (Flyash).
20	21.10.2019	IRCON/ 3019/ VKE/ PATEL / 904	Submission of Design & Drawings of Toe Wall.
21	21.10.2019	IRCON/ 3019/ VKE/ PATEL / 905	Deposition of Joint Visit Charges
22	21.10.2019	IRCON/ 3019/ VKE/ PATEL / 906	Waiver of Different charges to be paid as per the estimates received
23	23.10.2019	IRCON/ 3019/ VKE/ PATEL / 909	Compliances to all observations on the Estimates submitted by MGVCL

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 Gujarat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

For The Month of October-19

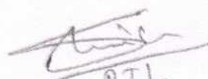
Client
Concessionaire
Independent Engineer
EPC Contractor
Contractor

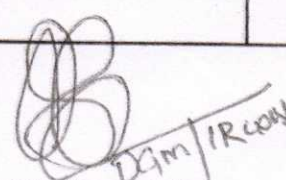
National Highways Authority of India
Ircn Vadodara Kim Expressway Ltd.
Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
Ircn International Ltd.
Patel Infrastructure Ltd

S. No.	DATE	TEMPRATURE (°C)		HUMIDITY (%)		RAINFALL (mm)	CUMMULATIVE RAINFALL (mm)	WEATHER	REMARKS
		Min.	Max.	Min.	Max.				
1	01-Oct-19	25.30	31.40	73.00	99.00	-	-		
2	02-Oct-19	27.10	32.10	65.00	93.00	-	-		
3	03-Oct-19	27.40	33.20	61.00	98.00	-	-		
4	04-Oct-19	27.20	33.00	64.00	92.00	9.00	9.00		
5	05-Oct-19	27.10	32.70	66.00	89.00	-	9.00		
6	06-Oct-19	26.80	33.30	57.00	95.00	-	9.00		
7	07-Oct-19	26.70	33.90	53.00	99.00	-	9.00		
8	08-Oct-19	27.20	33.80	52.00	97.00	-	9.00		
9	09-Oct-19	27.30	34.20	51.00	93.00	-	9.00		
10	10-Oct-19	27.10	33.80	54.00	91.00	-	9.00		
11	11-Oct-19	25.00	33.20	46.00	86.00	-	9.00		
12	12-Oct-19	25.00	33.80	44.00	75.00	-	9.00		
13	13-Oct-19	25.50	33.90	33.00	75.00	-	9.00		
14	14-Oct-19	26.00	33.70	39.00	79.00	-	9.00		
15	15-Oct-19	26.40	34.20	37.00	77.00	-	9.00		
16	16-Oct-19	25.80	34.00	35.00	79.00	-	9.00		
17	17-Oct-19	25.50	34.10	32.00	84.00	-	9.00		
18	18-Oct-19	26.00	33.10	41.00	79.00	-	9.00		
19	19-Oct-19	26.80	31.50	61.00	89.00	-	9.00		
20	20-Oct-19	25.80	31.90	54.00	87.00	-	9.00		
21	21-Oct-19	25.50	31.50	55.00	83.00	-	9.00		
22	22-Oct-19	25.50	31.50	55.00	84.00	-	9.00		
23	23-Oct-19	24.70	31.50	55.00	84.00	-	9.00		
24	24-Oct-19	24.80	31.50	55.00	84.00	-	9.00		
25	25-Oct-19	24.20	31.50	47.00	84.00	-	9.00		
26	26-Oct-19	22.00	31.00	54.00	82.00	-	9.00		
27	27-Oct-19	22.00	29.00	55.00	84.00	-	9.00		
28	28-Oct-19	24.00	31.00	41.00	75.00	16.00	25.00		
29	29-Oct-19	23.00	32.00	47.00	92.00	45.00	70.00		
30	30-Oct-19	24.20	33.70	47.00	92.00	-	70.00		
30	31-Oct-19	24.20	33.70	47.00	92.00	-	70.00		

Cummulative Rainfall Till Date

2,374.40 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 (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
 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)

Oct-19

OGI

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	226	0	Frequency of testing is as per specification
2	LL/PI	226	0	0	0	0	0	226	0	226	0	
3	Sand Content (GSA)	226	0	0	0	0	0	226	0	226	0	
4	Free Swell Index	226	0	0	0	0	0	226	0	226	0	
5	C.B.R	30	0	0	0	0	0	30	0	30	0	

Shoulder

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	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	

Existing Site Sample (MCW/SR)

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	8	0	0	0	0	0	8	0	8	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	14	2	2	2	2	2	16	2	14	2	

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 EPC Representative

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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
 Concessionaire
 Independent Engineer
 EPC Contractor
 Contractor

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

MONTHLY PROGRESS REPORT (PKG-II)
 Oct-19

Borrow Materials

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	2545	0	26	0	6	2571	2571	0			
2	LL/PI	2545	0	26	0	6	2571	2571	0			
3	Sand Content (GSA)	2545	0	26	0	6	2571	2571	0			
4	Free Swell Index	2545	0	26	0	6	2571	2571	0		Frequency of testing is as per specification	
5	C.B.R	490	12	13	0	4	503	491	12			
6	C.B.R (Soil Blended with Sand)	6	0	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				Cummulative 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			
2	LL/PI	0	0	0	0	0	0	0	0			
3	Sand Content (GSA)	0	0	0	0	0	0	0	0			
4	Free Swell Index	0	0	0	0	0	0	0	0		Frequency of testing is as per specification	
5	C.B.R	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 Gujrat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

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

MONTHLY PROGRESS REPORT (PKG-II)

Oct-19

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	Proctor Test	8	0	0	0	0	0	0	8	0	0	Frequency of testing is as per specification	
2	Gradation	162	5	13	13	0	0	175	170	5			
3	LL/PI	157	0	13	13	0	0	170	170	0			
4	10% fines Value	2	0	0	0	0	0	2	2	0			
5	AIV	10	0	0	0	0	0	10	10	0			
6	C.B.R	8	0	0	0	0	0	8	8	0			

Wet Mix Macadam

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				Cummulative 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	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			
3	LL/PI	0	0	0	0	0	0	0	0	0			
4	A.I.V.	0	0	0	0	0	0	0	0	0			
5	F.I. & E.I.	0	0	0	0	0	0	0	0	0			
6	L.A.A.V	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				Cummulative 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	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			
3	LL/PI	0	0	0	0	0	0	0	0	0			
4	A.I.V.	0	0	0	0	0	0	0	0	0			
5	F.I. & E.I.	0	0	0	0	0	0	0	0	0			
6	10% fines Value	0	0	0	0	0	0	0	0	0			
7	Water Absorption	0	0	0	0	0	0	0	0	0			
8	L.A.A.V	0	0	0	0	0	0	0	0	0			
9	CBR	0	0	0	0	0	0	0	0	0			

Dear Agents

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IE Representative

Concessionaire Representative

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 Gujrat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

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

MONTHLY PROGRESS REPORT (PKG-II)
 Oct-19

Concrete Works

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	
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 28 days	0	0	0	0	0	0	0	0	0	0	0
3	M-20 Concrete 7 Days 28 days	408	0	33	33	0	7	441	0	441	0	0
4	M-25 Concrete 7 Days 28 days	973	0	53	53	0	11	1026	0	1026	0	0
5	M-30 Concrete 7 Days 28 days	0	0	0	0	0	0	0	0	0	0	0
6	M-35 (Pile) 7 Days 28 days	110	0	32	32	0	7	142	0	142	0	0
	M-35 (RCC) 7 Days 28 days	341	0	38	38	0	8	379	0	379	0	0
	M-35 (RCC) 7 Days 28 days	420	0	267	267	0	107	687	0	687	0	0
	M-35 (RCC) 7 Days 28 days	2479	0	715	715	0	429	3194	0	3194	0	0
	M-35 (RE) 7 Days 28 days	178	0	112	112	0	45	290	0	290	0	0
	M-35 (RE) 7 Days 28 days	987	0	137	137	0	69	1124	0	1124	0	0
	M-35 (RE) 7 Days 28 days	45	0	18	18	0	5	63	0	63	0	0
	M-35 (RE) 7 Days 28 days	157	0	23	23	0	8	180	0	180	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 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)

Oct-19

Sl. No.	Item Description	Frequency of testing										Frequency of testing is as per specification
		0	0	0	0	0	0	0	0	0	0	
7	M-40 Concrete	0	0	0	0	0	0	0	0	0	0	0
	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
8	M-45 Concrete	0	0	0	0	0	0	0	0	0	0	0
	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
9	M-50 Concrete	0	0	0	0	0	0	0	0	0	0	0
	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
10	End Block(GP2)	0	0	0	0	0	0	0	0	0	0	0
11	DLC Concrete	0	0	0	0	0	0	0	0	0	0	0
	07 days	0	0	0	0	0	0	0	0	0	0	0
12	PQC (M-40)	0	0	0	0	0	0	0	0	0	0	0
	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
	Beam	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4	4	4
a)	D.L.C. (Combined Gradation)	183	182	1	31	31	0	8	214	213	0	1
b)	Coarse Aggregate Gradation	182	182	0	31	31	0	8	213	213	0	0
c)	Fine Aggregate Gradation	182	182	0	5	5	0	1	187	187	0	0
d)	Flakiness Index	182	182	0	4	4	0	1	186	186	0	0
e)	Impact Test	18	18	0	0	0	0	0	18	18	0	0
f)	Specific Gravity	18	18	0	0	0	0	0	18	18	0	0
g)	Water Absorption	3	3	0	0	0	0	0	3	3	0	0
B.	Testing of stone	4	4	0	0	0	0	0	4	4	0	0
a)	Petrographical Examination	4	4	0	0	0	0	0	4	4	0	0
b)	Alkali Agg Reactivity	4	4	0	0	0	0	0	4	4	0	0
c)	Chloride Content	4	4	0	0	0	0	0	4	4	0	0
d)	Sulphate Content	4	4	0	0	0	0	0	4	4	0	0
e)	Del material Content	4	4	0	0	0	0	0	4	4	0	0
f)	Sp. Gr & Water Absorption	4	4	0	0	0	0	0	4	4	0	0

Devi Agnihotri

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Dgm Irocon

Representative
Concessionaire Representative

NATIONAL HIGHWAYS AUTHORITY OF INDIA

Eight-laning of Vadodara Kim Expressway from km 323.00 to km 355.00 (Sappa to Padra Section of Vadodara Mumbai Expressway) in the state of Gujarat 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)

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

(ii) OPC-53 Grade

S.No	Description of Test	No. of Test Conducted upto previous month				No. of Test Conducted during this Month				I.E. Witness	Remarks
		Results		No. of Test Conducted	Results		No. of Test Conducted	Cumulative Total			
		Passed	Failed		Passed	Failed		Passed	Failed		
1	Consistency	41	0	17	0	6	58	0			
2	Initial & Final Setting Time	41	0	17	0	6	58	0			
3	Fineness	41	0	17	0	6	58	0			
4	Specific Gravity	0	0	0	0	0	0	0		Frequency of testing is as per specification	
5	3 days Comp. Strength	49	0	19	0	0	68	0			
6	7 days Comp. Strength	43	0	20	0	0	63	0			
7	28 days Comp. Strength	26	0	17	0	0	43	0			

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EPC Representative

NATIONAL HIGHWAYS AUTHORITY OF INDIA

Client: 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: Itron Vadodra Kim Expressway Ltd
 Independent Engineer: Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
 EPC Contractor: Itron International Ltd.
 Contractor: Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Oct-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		No. of Test Conducted	Results		No. of Test Conducted		
		Passed	Failed		Passed	Failed		Passed	Failed			
(i)	VG 40											
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		
3	Softening Point	0	0	0	0	0	0	0	0	0		
4	Ductility	0	0	0	0	0	0	0	0	0		
5	Viscosity	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		No. of Test Conducted	Results		No. of Test Conducted		
		Passed	Failed		Passed	Failed		Passed	Failed			
(i)	VG 30											
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		
3	Softening Point	0	0	0	0	0	0	0	0	0		
4	Ductility	0	0	0	0	0	0	0	0	0		
5	Viscosity	0	0	0	0	0	0	0	0	0		

Emulsion 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		No. of Test Conducted	Results		No. of Test Conducted		
		Passed	Failed		Passed	Failed		Passed	Failed			
(i)	Emulsion (RS-1)											
1	Penetration	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0		
3	Viscosity	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 Iron Vadodra 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)

Oct-19

(ii) Emulsion (SS-2)

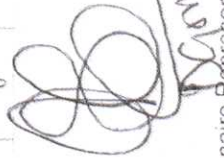
S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test Conducted during this Month			Cumulative Total			Remarks
		No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	
1	Penetration	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	
3	Viscosity	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
		No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	
1	Prime Coat	0	0	0	0	0	0	0	0	0	
2	Tack Coat	0	0	0	0	0	0	0	0	0	
3	Cement	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
		No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	No. of Test Conducted	Passed	Failed	
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	0	0	0	0	0	0	0	
3	Binder Content of Mix	0	0	0	0	0	0	0	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	
4	After Extraction Gradation	0	0	0	0	0	0	0	0	0	
5	Marshal Specimen Testing (SET)	0	0	0	0	0	0	0	0	0	
6	Maximum Sp. Gravity (G _{mm}) Test	0	0	0	0	0	0	0	0	0	
7	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	
8	AIV Test	0	0	0	0	0	0	0	0	0	
9	LAAV Testing	0	0	0	0	0	0	0	0	0	
10	Core Density Testing	0	0	0	0	0	0	0	0	0	


 Concessionaire Representative


 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 Gujrat under NHDP Phase-VI on EPC Mode (Phase IA - Package-II)

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

MONTHLY PROGRESS REPORT (PKG-II)

Oct-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	I.E. Witness	Results		No of Test Conducted		
		Passed	Failed			Passed	Failed			Passed	Failed			
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	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	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	0	0	
4	After Extraction Gradation	0	0	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	0	0	
6	Maximum Sp. Gravity (Gmm) Test	0	0	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	0	0	
8	AIV Test	0	0	0	0	0	0	0	0	0	0	0	0	
9	LAIV Testing	0	0	0	0	0	0	0	0	0	0	0	0	
10	Core Density Testing	0	0	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	I.E. Witness	Results		No of Test Conducted	I.E. Witness	Results		No of Test Conducted		
		Passed	Failed			Passed	Failed			Passed	Failed			
1	M-15	0	0	0	0	0	0	0	0	0	0	0	0	
2	M-20	44	0	44	0	0	0	44	0	0	0	44	0	
3	M-20 (Kerb)	0	0	0	0	0	0	0	0	0	0	0	0	
4	M-25	44	0	44	0	0	0	44	0	0	0	44	0	
5	M-30	44	0	44	0	0	0	44	0	0	0	44	0	
6	M-35 (R.C.C.)	44	0	44	0	0	0	44	0	0	0	44	0	
7	M-35 (Piling)	44	0	44	0	0	0	44	0	0	0	44	0	
8	M-35 (RE-Block)	6	0	6	0	0	0	6	0	0	0	6	0	(28 days Strength Achieved)
9	M-40	40	0	40	0	0	0	40	0	0	0	40	0	
10	M-45	0	0	0	0	0	0	0	0	0	0	0	0	
11	M-50	0	0	0	0	0	0	0	0	0	0	0	0	
11	GP2	0	0	0	0	0	0	0	0	0	0	0	0	
12	D.L.C	13	0	13	0	0	0	13	0	0	0	13	0	
13	G.S.B	2	0	2	0	0	0	2	0	0	0	2	0	
14	W.M.M	0	0	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	0	0	
17	DBM GRADE - II	0	0	0	0	0	0	0	0	0	0	0	0	
19	BC GRADE - II	0	0	0	0	0	0	0	0	0	0	0	0	

Devi
Aganis

[Signature]

[Signature]
Pranjal Dink

[Signature]
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 (Sappna 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 Irccon Vadodara Kim Expressway Ltd
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
 EPC Contractor Irccon International Ltd.
 Contractor Patel Infrastructure Ltd.

MONTHLY PROGRESS REPORT (PKG-II)

Oct-19

Calibrations

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	I.E. Witness	Results		No. of Test Conducted		
		Passed	Failed			Passed	Failed			Passed	Failed			
1	WMM Plant	0	0	0	0	0	0	0	0	0	0	0	0	
2	Concrete Batching Plant	10	0	4	0	4	0	2	0	14	0	0	0	
3	Hot Mix Plant	0	0	0	0	0	0	0	0	0	0	0	0	
4	Rapid Moisture Meter	10	0	2	0	2	0	1	0	12	0	0	0	
5	Sand Pouring Cylinder	24	0	2	0	2	0	1	0	26	0	0	0	
6	C.T.M.	2	0	0	0	0	0	0	0	2	0	0	0	
7	F.T.M	1	0	0	0	0	0	0	0	1	0	0	0	
8	Weight & Balance	9	0	0	0	0	0	0	0	9	0	0	0	
9	Proving rings	1	0	0	0	0	0	0	0	1	0	0	0	
	a) 2.5 KN	1	0	0	0	0	0	0	0	1	0	0	0	
	b) 25 KN	1	0	0	0	0	0	0	0	1	0	0	0	
	c) 50 KN	1	0	0	0	0	0	0	0	1	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

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	I.E. Witness	Results		No. of Test Conducted		
		Passed	Failed			Passed	Failed			Passed	Failed			
1	O.G.L.	2987	2982	5	0	32	0	0	0	3019	0	5	0	Frequency of testing is as per specification(Std) Ground Improvement
2	Embankment	3353	3340	13	0	278	0	0	0	3631	0	13	0	
3	Subgrade	88	88	0	0	144	0	0	0	232	0	0	0	
4	G.S.B	456	451	5	0	9	0	0	0	465	0	5	0	
5	W.M.M	0	0	0	0	0	0	0	0	0	0	0	0	
6	D.L.C	0	0	0	0	0	0	0	0	0	0	0	0	
7	C.T.B	0	0	0	0	0	0	0	0	0	0	0	0	
8	BSM	0	0	0	0	0	0	0	0	0	0	0	0	
9	Back filling	0	0	0	0	0	0	0	0	0	0	0	0	
10	Shoulder/Median	0	0	0	0	0	0	0	0	0	0	0	0	
11	Embankment (RE Wall)	0	0	0	0	0	0	0	0	0	0	0	0	

[Signature]
EPC Representative

[Signature]
Concessionaire Representative

[Signature]
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 Gujarat under NHDP Phase -VI on EPC Mode (Phase IA - Package-II)

Client National Highways Authority of India
 Concessionaire Iron Vadodra 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)
 Oct-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		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	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		

Fly Ash


 EPC Representative

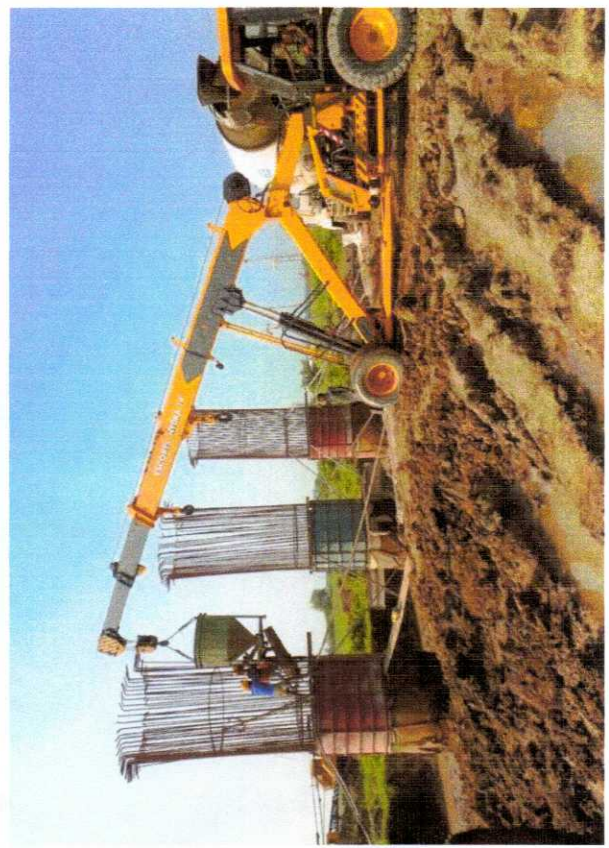

 Concessionaire Representative



323+074 PIER LEFT & RIGHT SIDE CONCRETE POURING STARTED



323+074 PILE CAP AND PIER LHS CONCRETING WORK



323+074 PIER LIFT CONCRETING IN PROGRESS



323+074 INITIAL PILE LOAD TEST



323+074 RAFT LINK BAR & SHUTTERING WORK IN
PROGRESS



323+270 RHS RAW BED COMPACTION WORK IN
PROGRESS



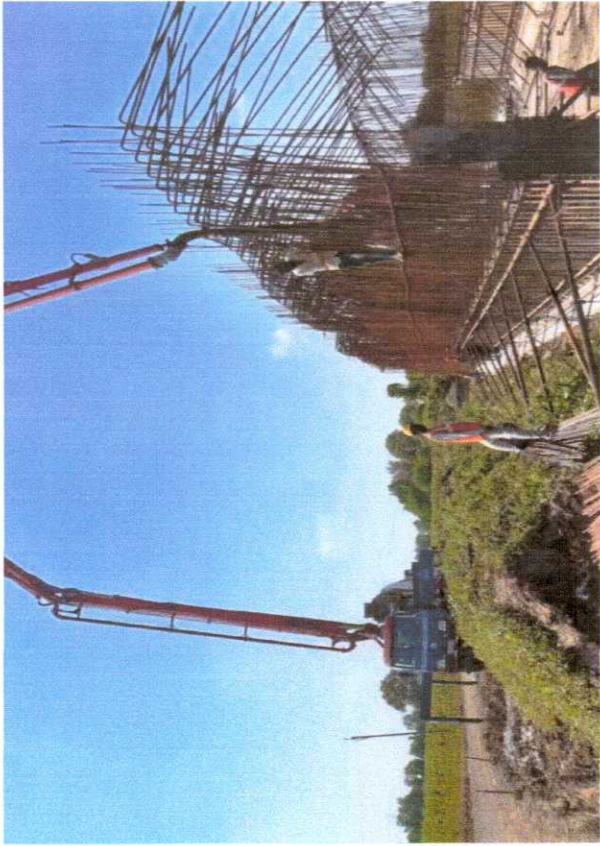
323+074 PIER LIFT CONCRETE POURING
PROGRESS



323+074 LIFT SHUTTERING WORK IN PROGRESS



325+769 BINDING AND HAUNCH SHUTTERING WORK IN
PROGRESS



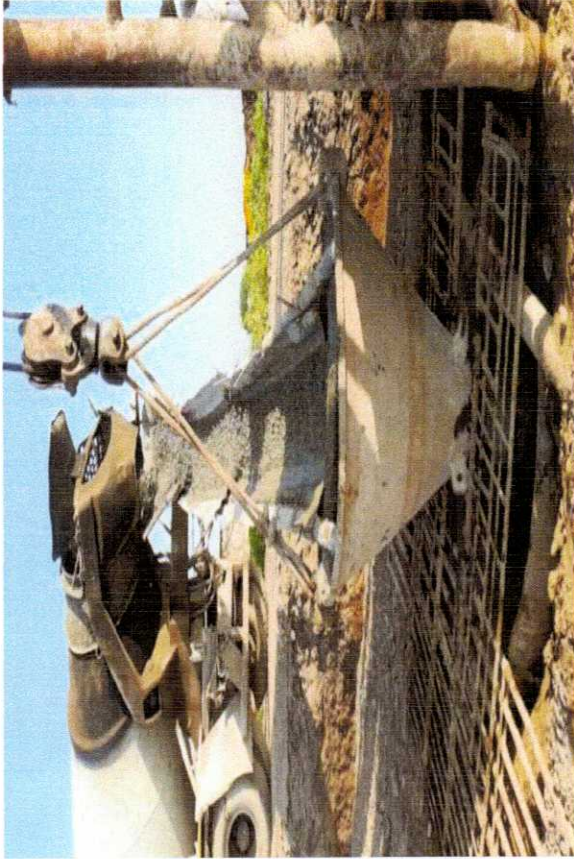
325+769 (RHS) WALL LIFT CONCRETING STARTED



323+290 RHS RETAINING WALL PCC LAYING IN
PROGRESS



325+769 LVUP R.H.S. SLAB STAGING WORK IN
PROGRESS



324+193 PILE CONCRETE POURING STARTED



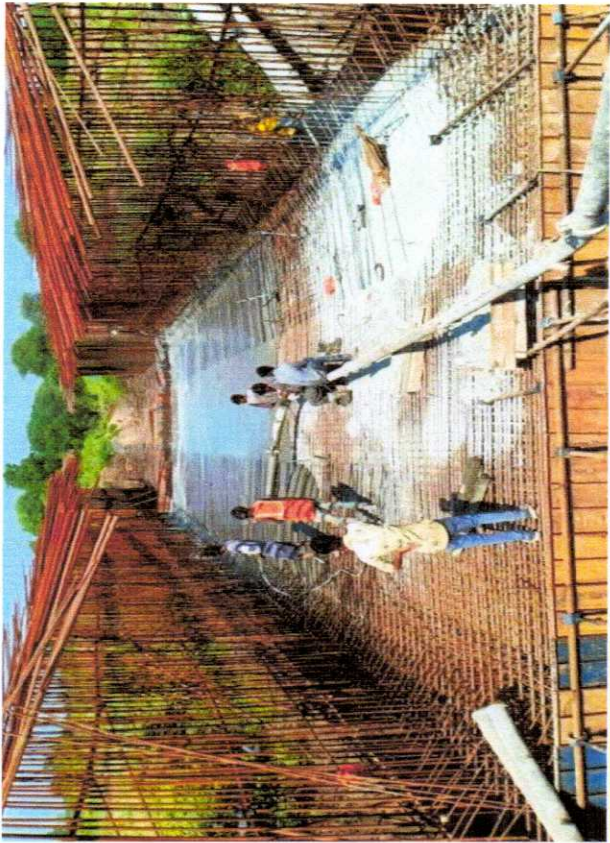
324+236 RAFT CONCRETE POURING WORK IN PROGRESS



324+236 BOX CULVERT HAUNCH CONCRETE POURING



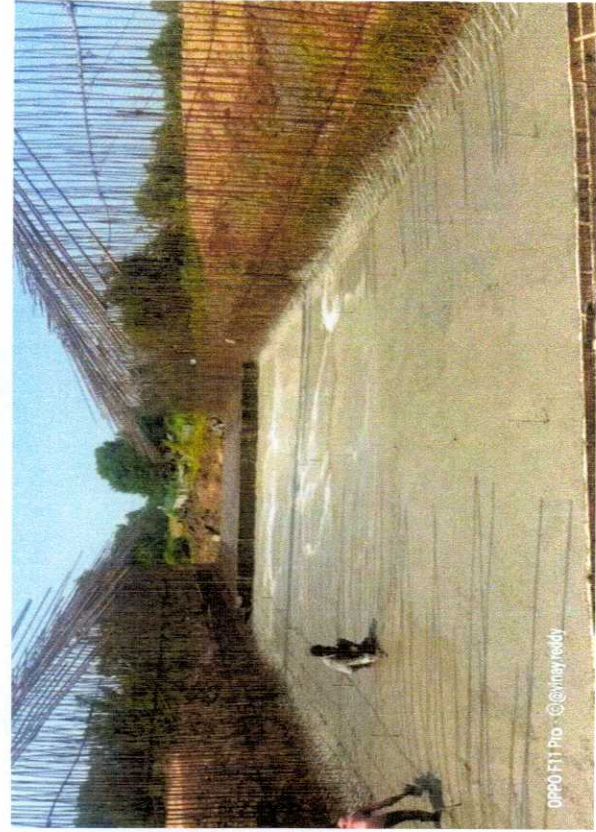
324+900 LHS RAFT CONCRETE POURING COMPLETED



329+062 MNB RHS CONCRETE POURING IN PROGRESS



329+700 RHS RAFT CONCRETE POURING STARTED



329+700 CUP RAFT RHS CONCRETE POURING COMPLETED



330+402 VUP RAFT REINFORCEMENT BINDING IN PROGRESS



330+402 VUP RHS RAFT CONCRETE POURING IN PROGRESS



330+640 MNB BORING COMPLETED



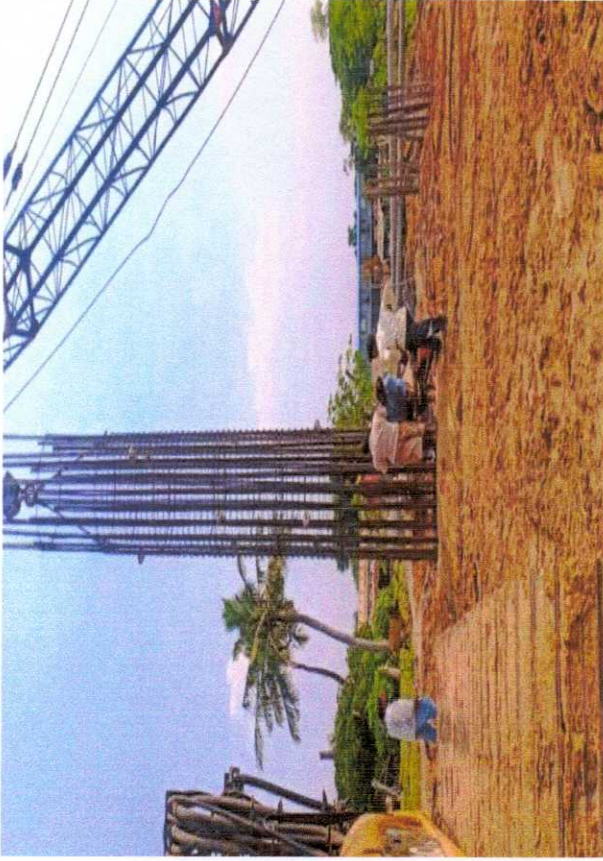
330+640 MNB CAGE MAKING IN PROGRESS



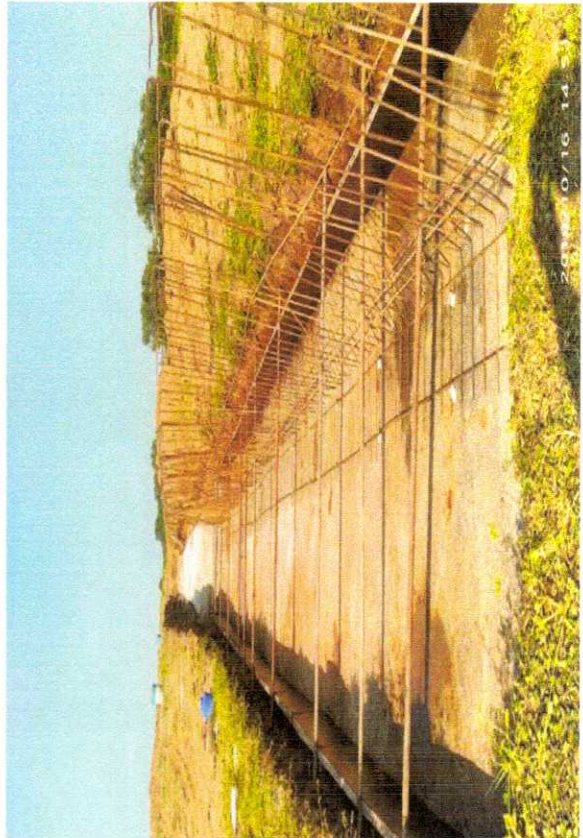
330+640 PILE CONCRETE POURING IN PROGRESS



334+280 CUP RAFT(LHS) POURING
ONGOING



330+640 PILE CAGE LAPPING & WELDING PROGRESS



334+325 TO 334+345 TOE WALL RAFT READY FOR
CONCRETE



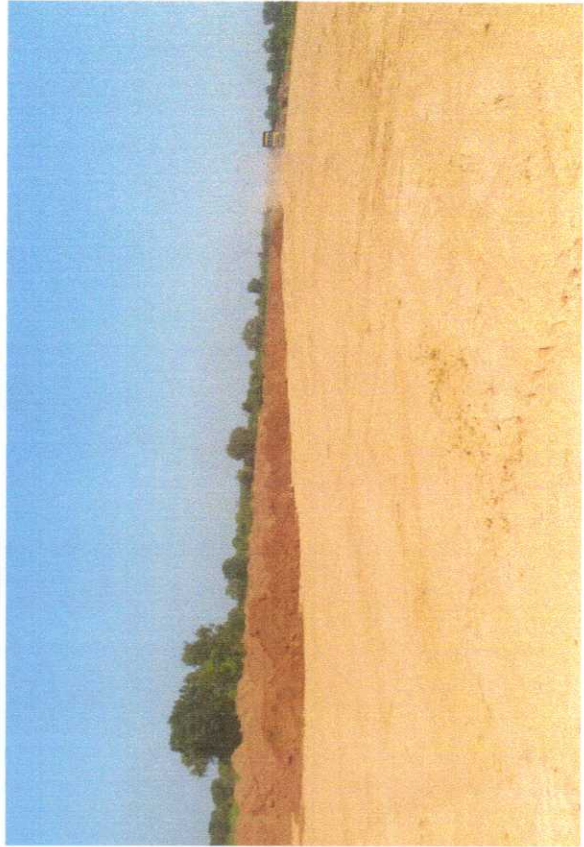
330+640 PILE CONCRETE POURING IN PROGRESS



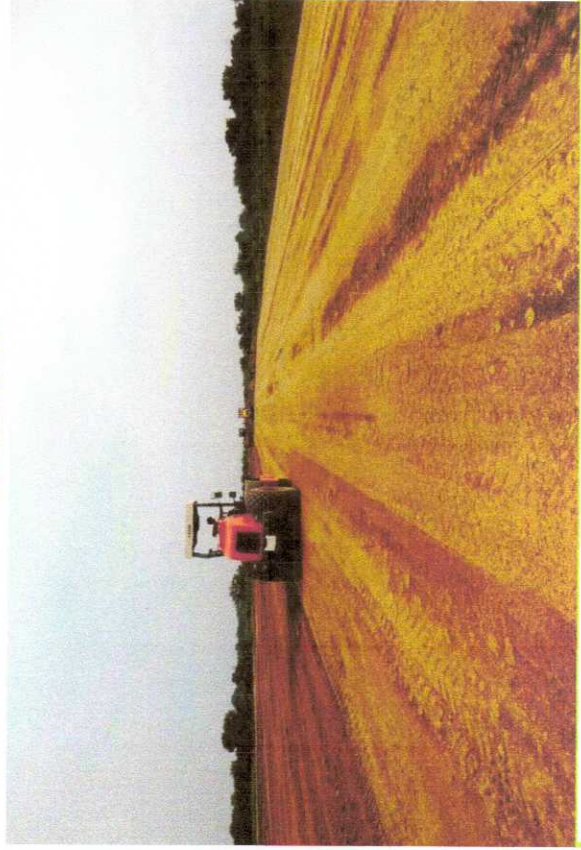
330+640 PILE CAGE LAPPING WORK IN PROGRESS



331+950 LHS TOE WALL EXCAVATION WORK IN PROGRESS



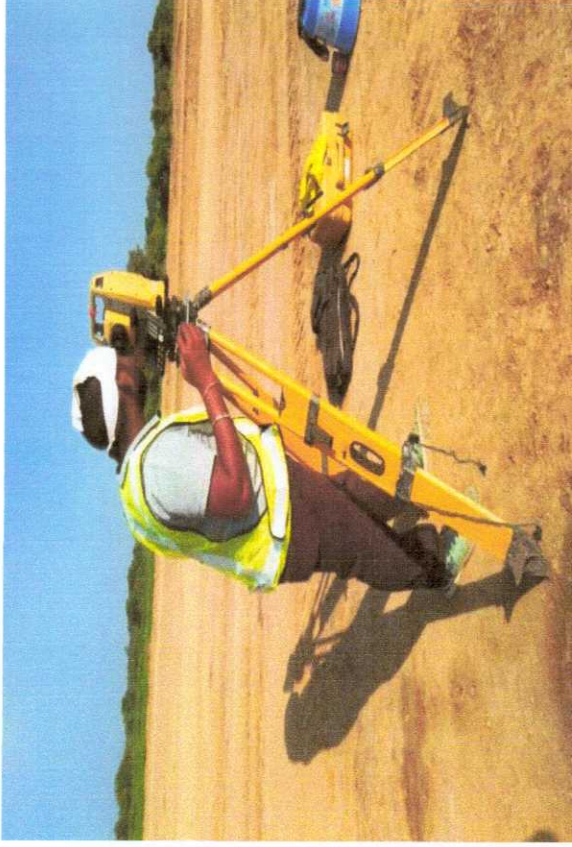
334+000 SOIL DUMPING IN PROGRESS



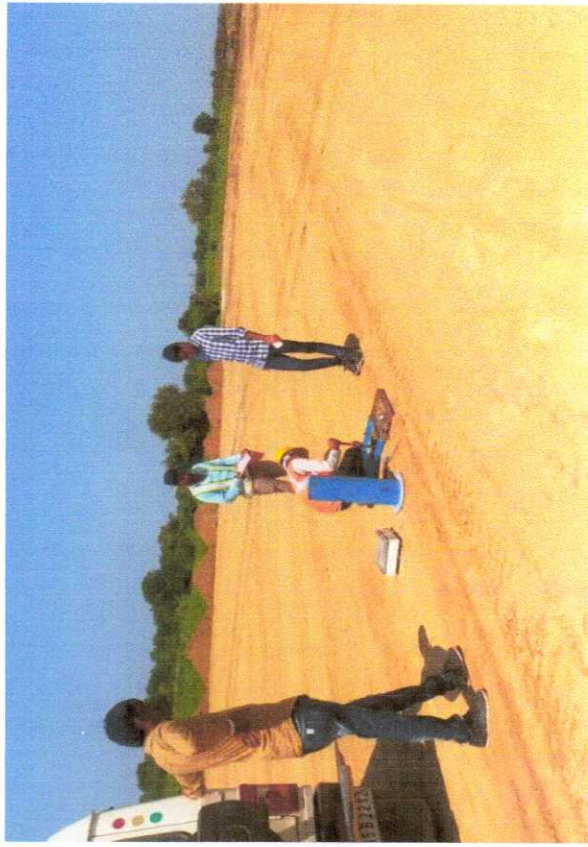
334+000 TO 334+270 EMB. LAYER PREPARATION IN PROGRESS



334+000 DUMPING IN PROGRESS



333+600 To 334+400 CENTER LINE MARKING WORK



334+000 TO 334+260 BHS FDD TESTING EMB LAYER



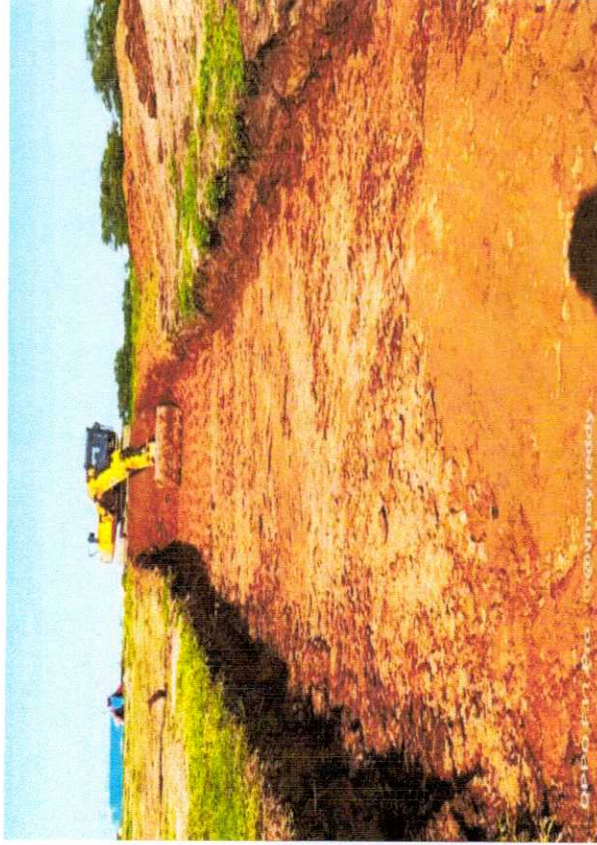
333+800 TO 334+000 EMB. LAYER FDD TESTING IN PROGRESS



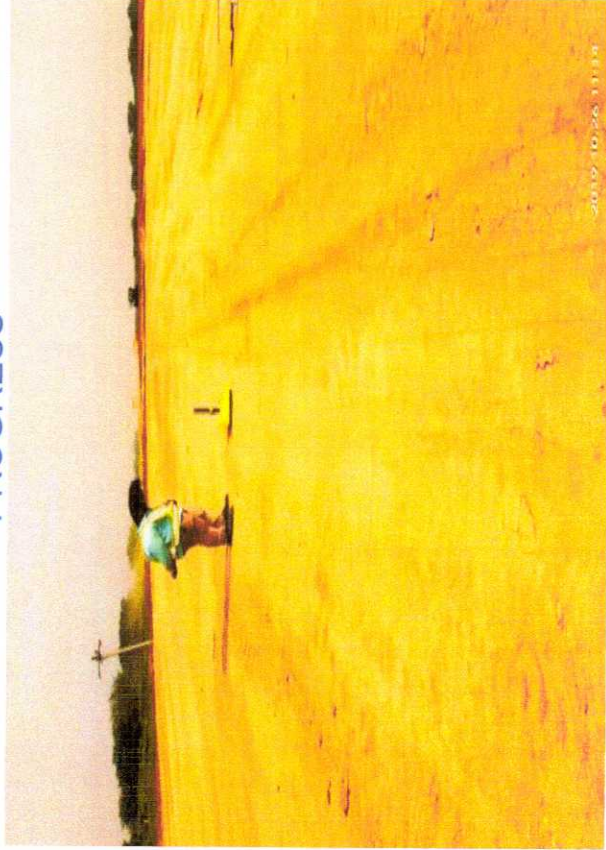
335+074 BC BOTTOM HAUNCH CONCRETING
STARTED (RHS)



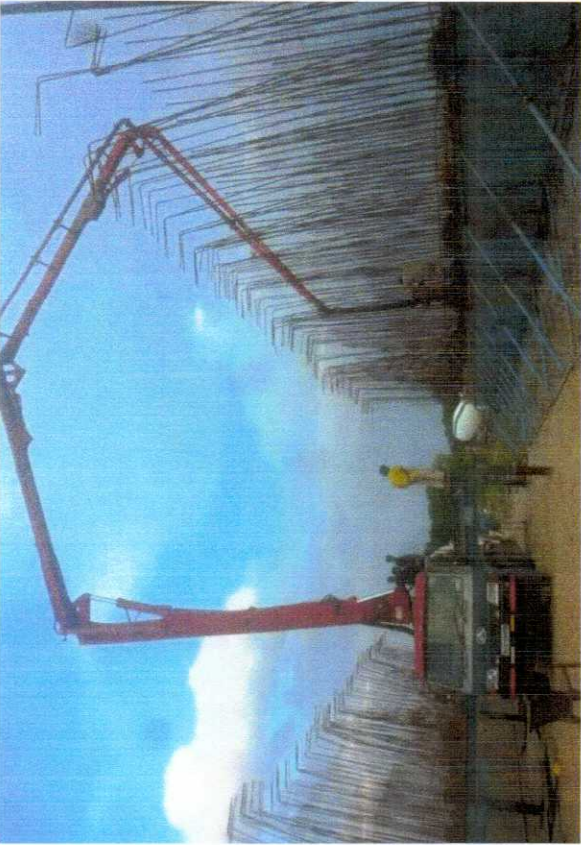
335+074 WALL CASTING COMPLETED



334+320 TOE WALL EXCAVATION IN
PROGRESS



CHECKING OF FDD EMBANKMENT LAYER FROM 333+800 TO
334+000



335+402 VUP WALL CONCRETE POURING IN PROGRESS



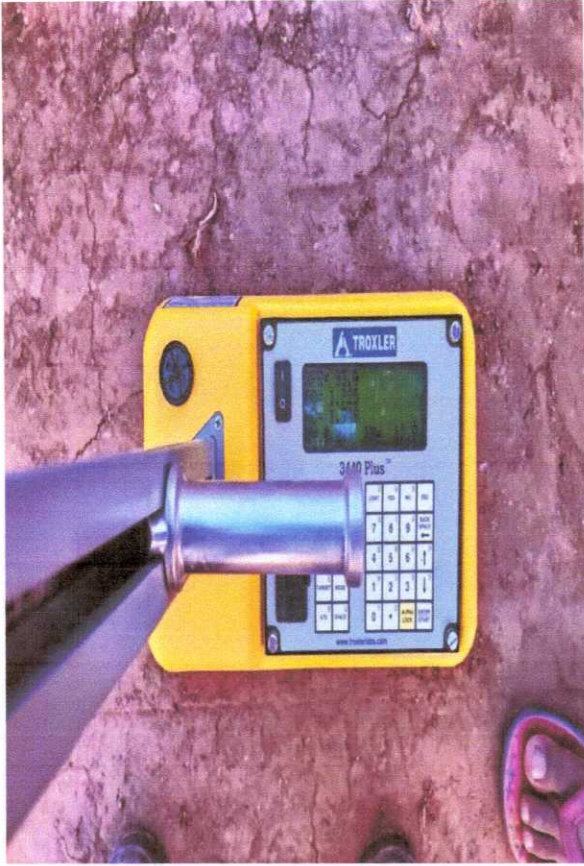
335+402 WALL LIFT RHS CONCRETE POURING IN PROGRESS



336+020 (LHS) BOTTOM HAUNCH CONCRETE IN PROGRESS



336+355 CUP WALL LIFT CONCRETE POURING IN PROGRESS



FDD CHECKING AT 336+440 TO 336+600 EMB LAYER



336+810 MJB CAGE LOWERING IN PROGRESS



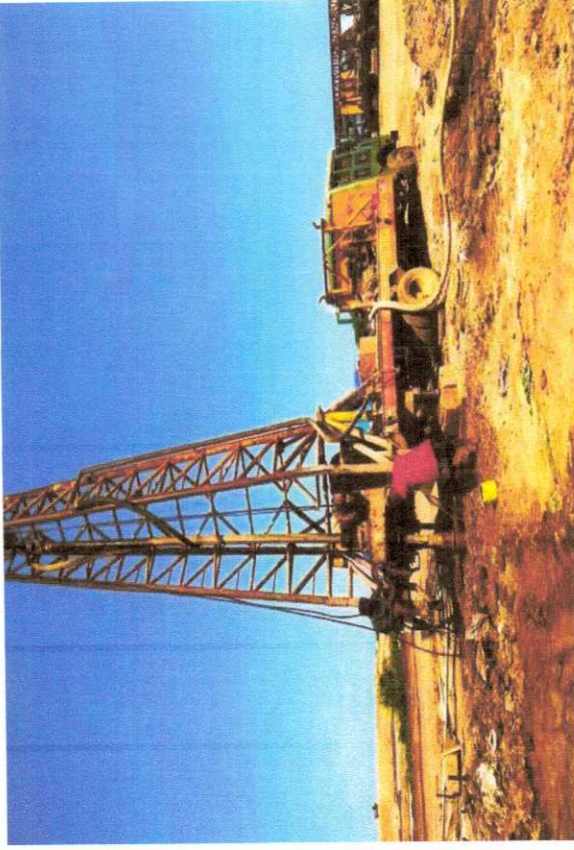
336+810 TOP CAGE LOWERING



336+810 MJB RHS TOP CAGE LOWERING



336+978 (RHS) PILE CONCRETE POURING STARTED



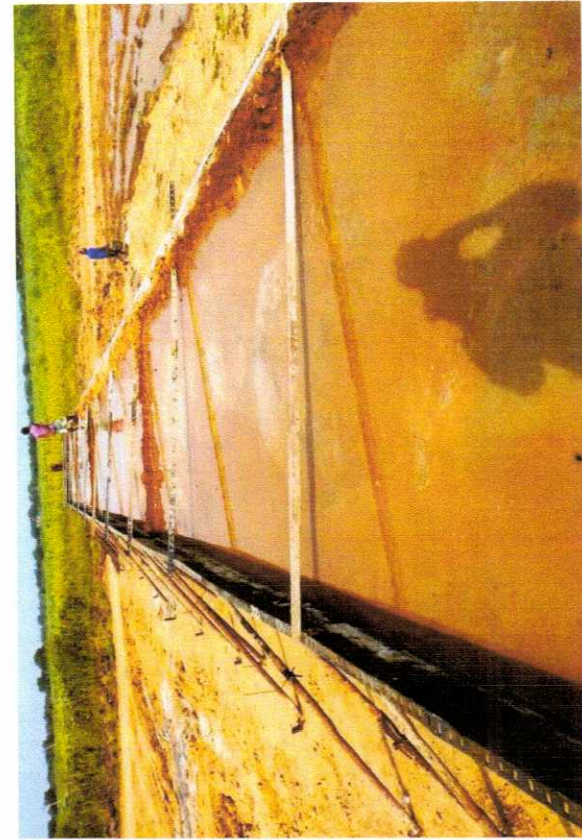
336+810 MJB RA 2 PILE BORING IN PROGRESS



336+810 (RHS) PILE BOTTOM CAGE LOWERING



339+687 CUP LHS LIFT WALL COMPLETED



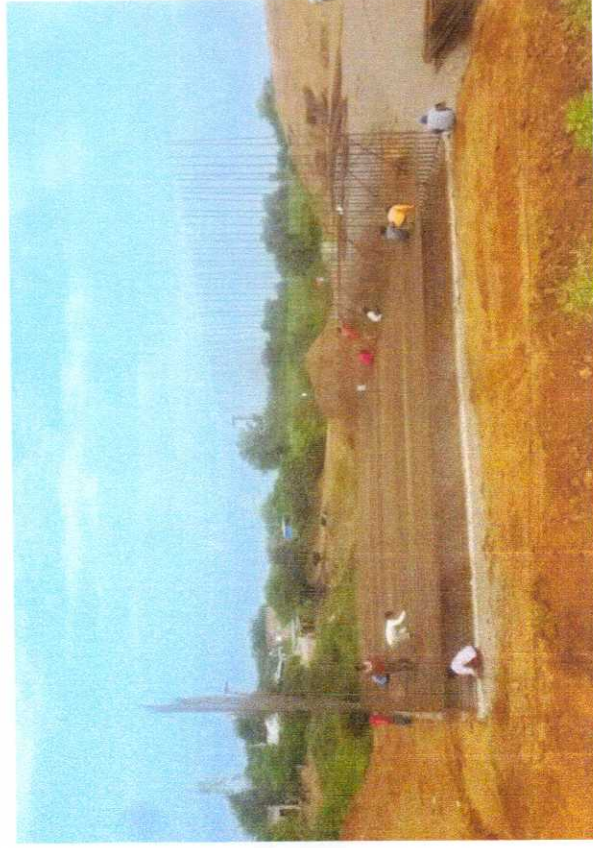
339+352 BOX CULVERT SLAB CURING DONE



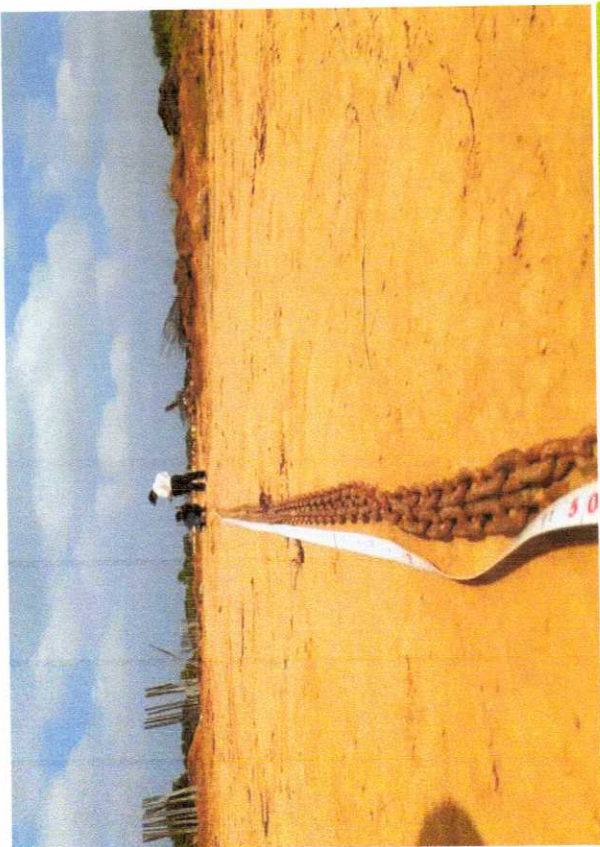
339+352 TOP SLAB RHS CONCRETING IN PROGRESS



341+600 LVUP RHS HAUNCH CONCRETE POURING STARTED



337+022 LVUP RHS STEEL FIXING WORK IN PROGRESS



PILE CHECK BY CLIENT AT CH.- 343.566



343+566 PILE CAGE LOWERING IN PROGRESS



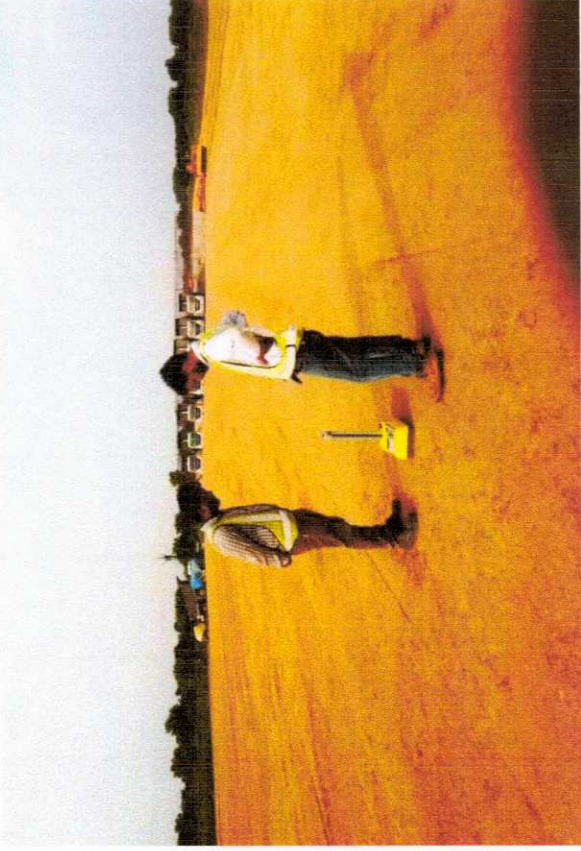
341+824 VUP LHS LIFT WALL POURING STARTED



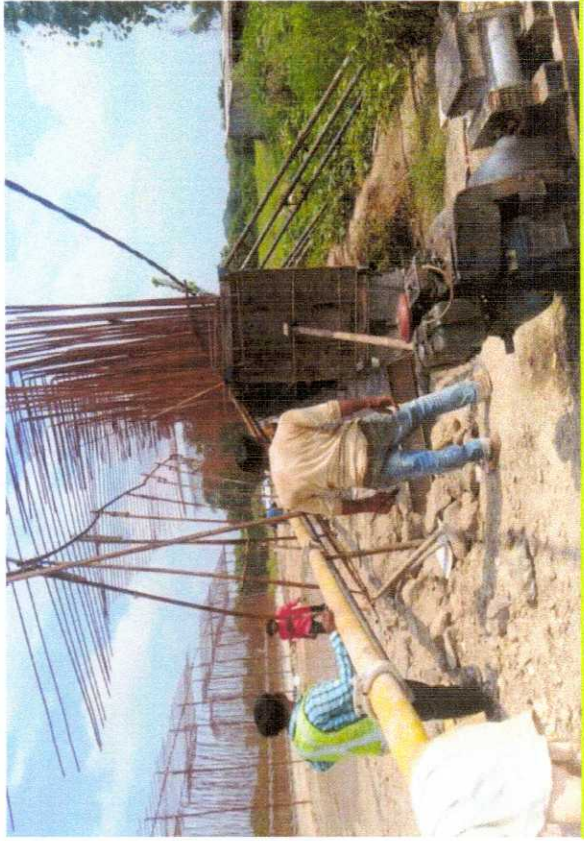
343+566 MNB PILE WORK IN PROGRESS



DIVERSION PERPEATION IN PROGRESS CH 344+400
FOR FLYOVER



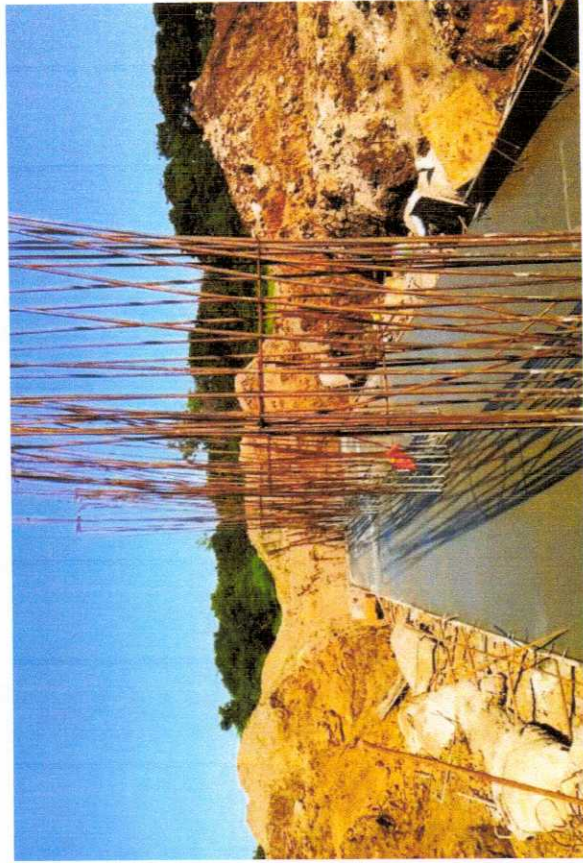
CHECKING OF FDD EMBANKMENT LAYER AT 344+800 TO
345+000



343+856 LHS LIFT WALL CONCRETING IN
PROGRESS



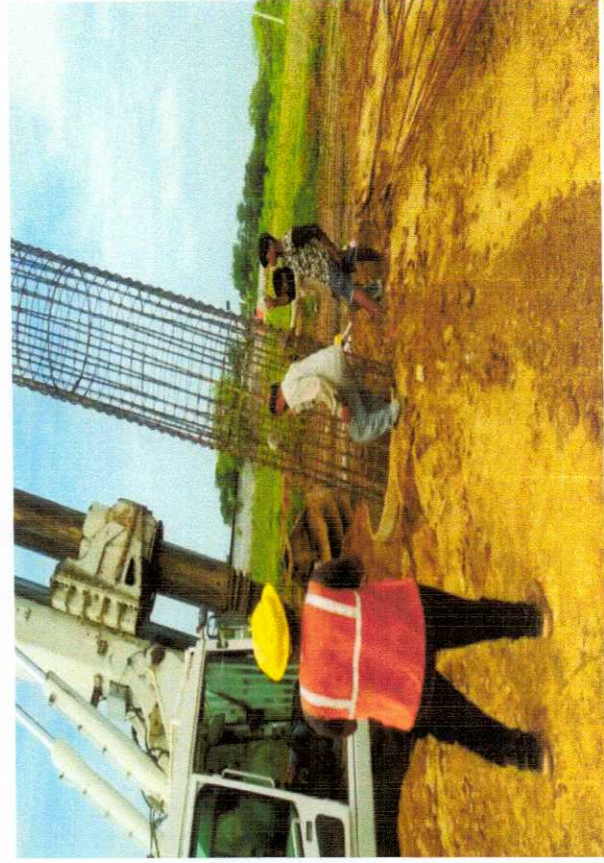
344+383 FLYOVER PILE CHIPPING GOING ON



353+666 PILE CAP COMPLETED



349+441 VOP PIER SHAFT LIFT POURING IN PROGRESS



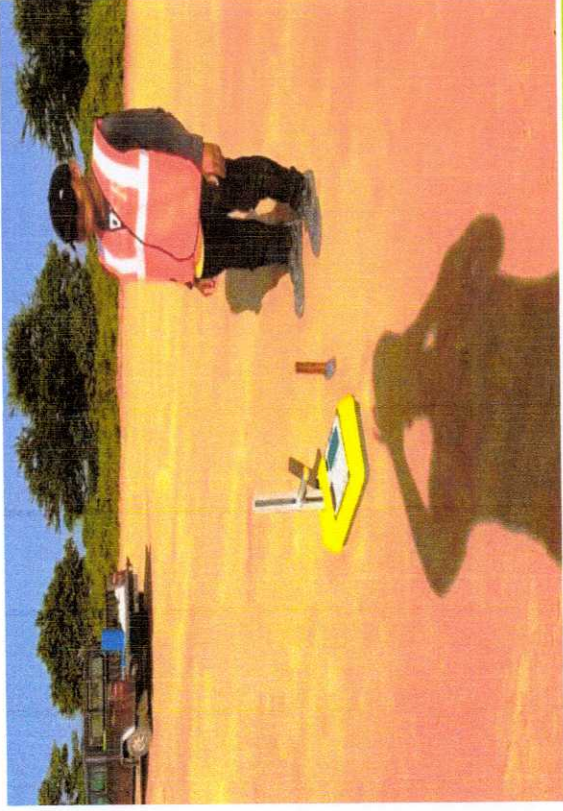
344+383 PILE CAGE LOWERING GOING ON



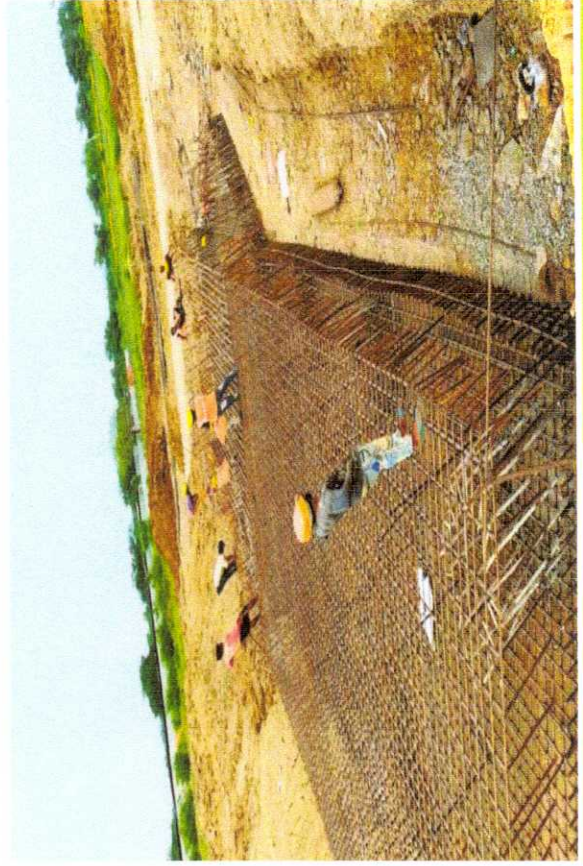
344 +383 FLYOVER PILE CONCRETE



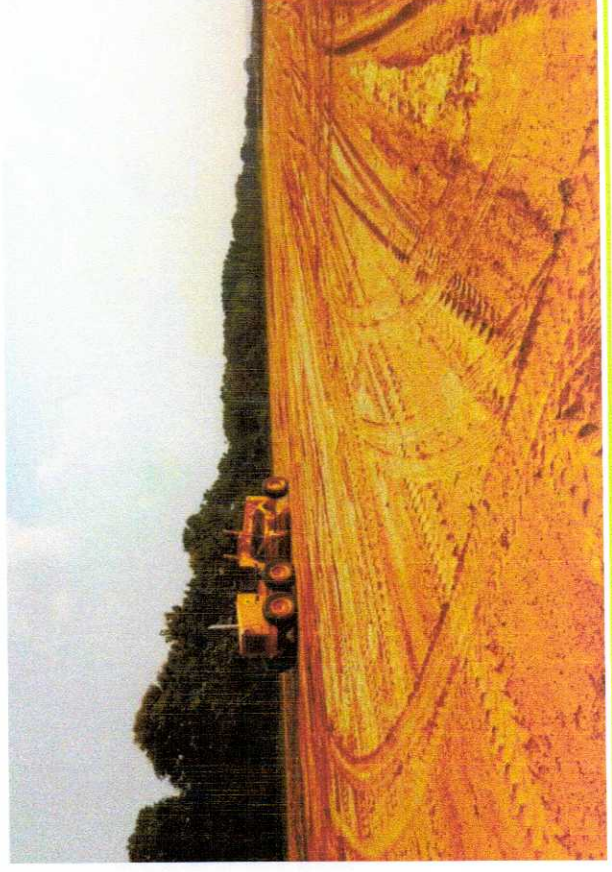
LAYOUT CHECKING FLY OVER PIER POINTS WITH IRCON REPRESENTATIVE AT CH 344+383



348+150 TO 348+400 EMBANKMENT LAYER



344+383 RP1 PILE CAP STEEL BINDING WORK IN PROGRESS



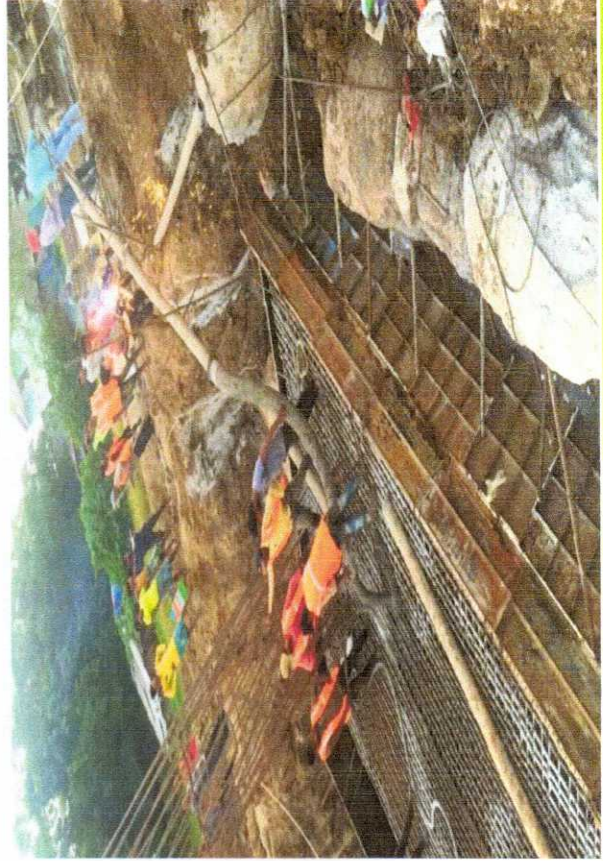
349+000 TO 349+200 EMB LAYER RECTIFICATION WORK STARTED



FDD RECHECKING AT 349+000 TO 349+200
BHS



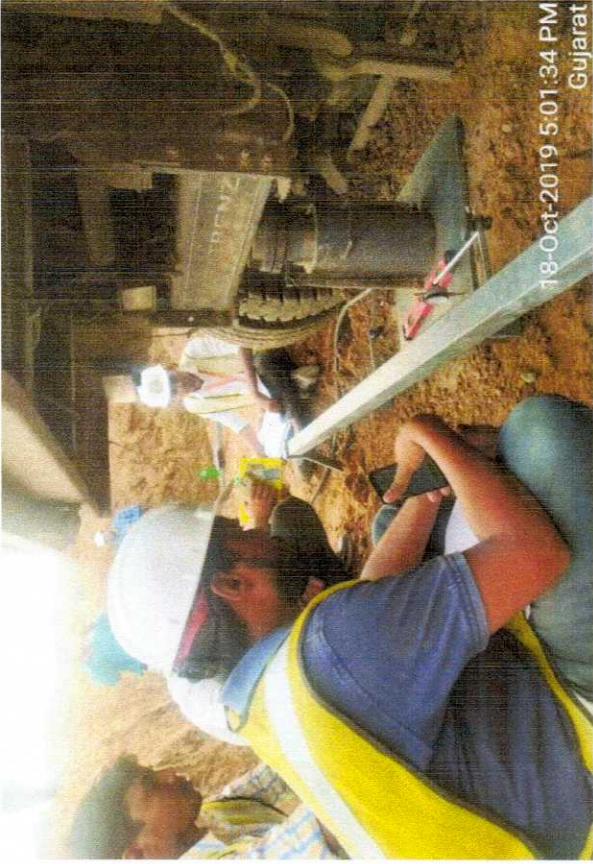
349+220 LHS LIFT WALL CASTING IN PROGRESS



353+666 PILE CAP CONCRETE POURING
STARTED



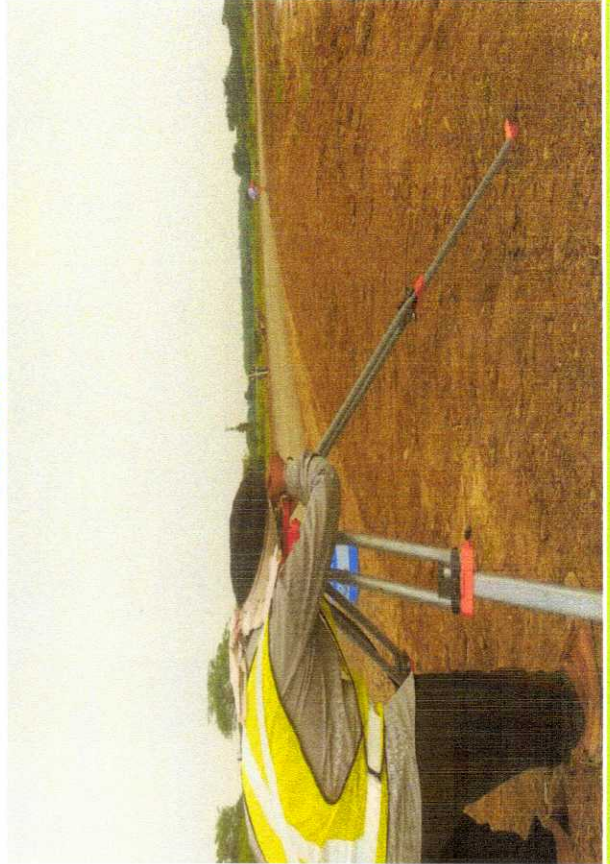
353+666 CONCRETE POURING IN PROGRESS



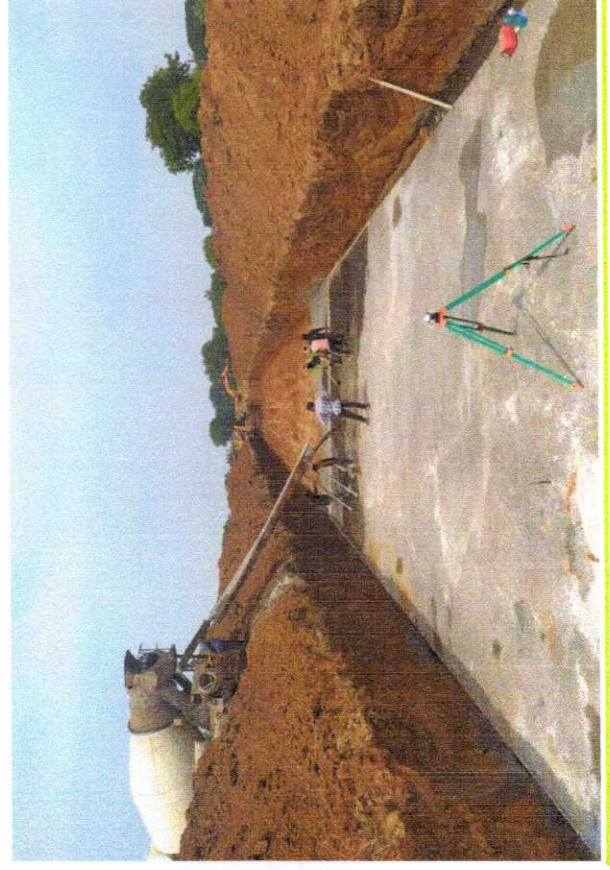
353+105 R/E WALL BEARING CAPACITY TEST
JOINTLY



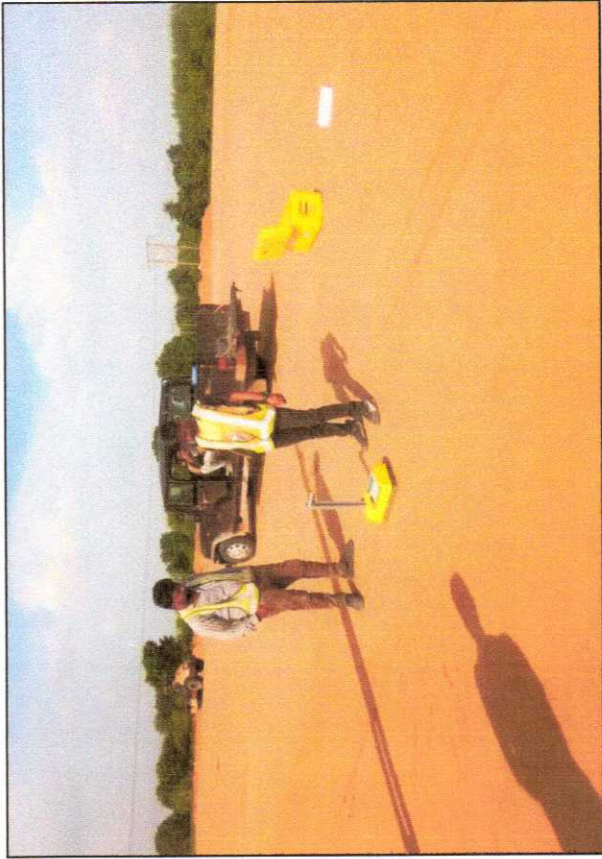
354+860 TOE WALL RAFT POURING IN
PROGRESS



351+800 TBM FLY



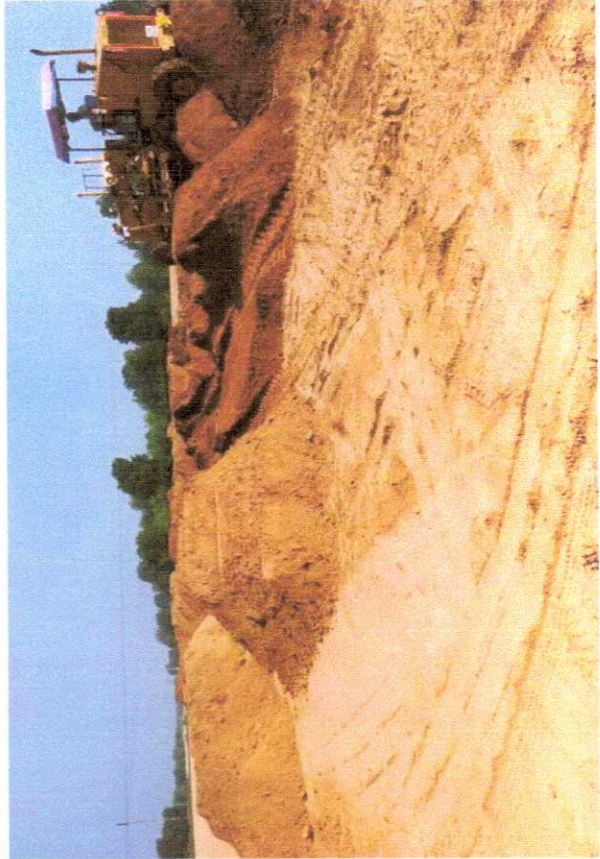
353+110 RHS RETAINING WALL CONCRETE PCC WORK IN
PROGRESS



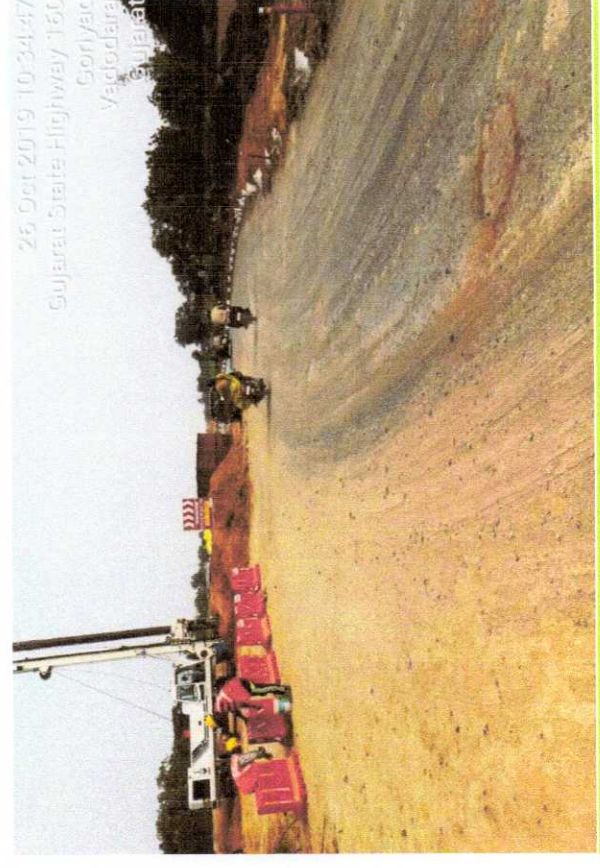
CHECKING OF FDD AT CH 353+850 TO 354+000 LHS EMB. LAYER



354+467 HPC CRADLE CONCRETE POURING
PROGRESS



353+850 SOIL DUMPING IN PROGRESS



PVC BARRIER INSTALLED AT CH. KM 344.400



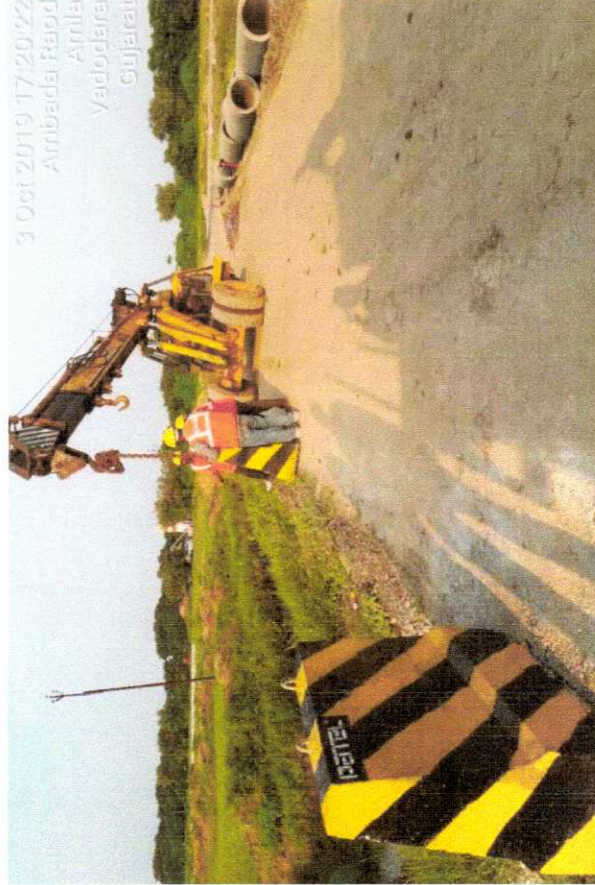
INSTALLATION OF JERSEY BARRIERS AT 354 DIVERSION



SIGN BOARDS INSTALLATION AT NEW DIVERSION 331+850



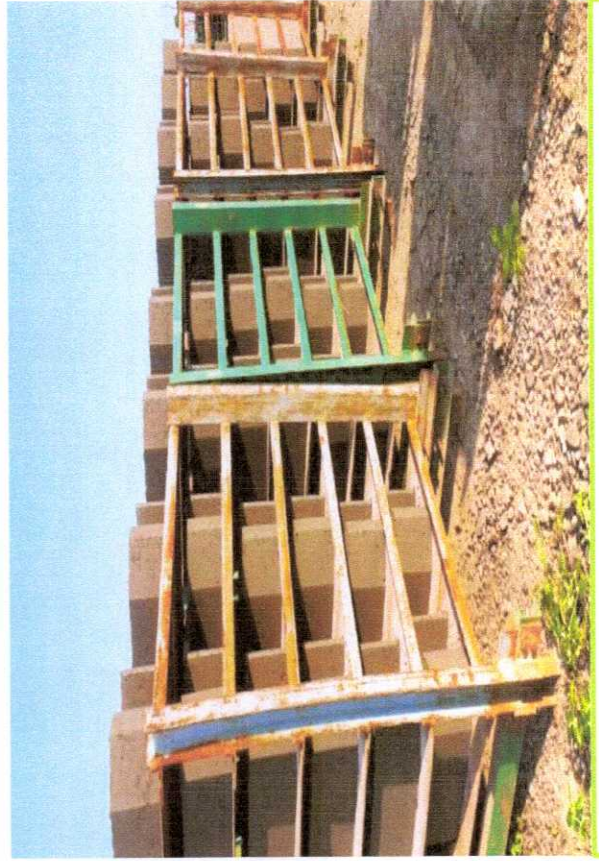
TBT CONDUCTED AT km 339



JERSEY BARRIERS INSTALLATION IN PROGRESS AT KM343 DIVERSION



RE BLOCK CASTING WORK IN PROGRESS AT STRATA PLANT.



RE BLOCK CASTING WORK IN PROGRESS AT STRATA PLANT



CALIBRATION OF M1C PLANT PIL CAMP



SLUMP TESTING AND CUBE CASTING AT KM 336 RAFT