

MONTHLY PROGRESS REPORT

DECEMBER - 2020



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

Concessionaire: IVKEL



IRCON INTERNATIONAL LIMITED
(A Government of India Undertaking)

EPC Contractor:

PATEL INFRASTRUCTURE LIMITED

PATEL HOUSE, CHANNI, VADODARA

PATEL
Every Milestone is Our Value

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

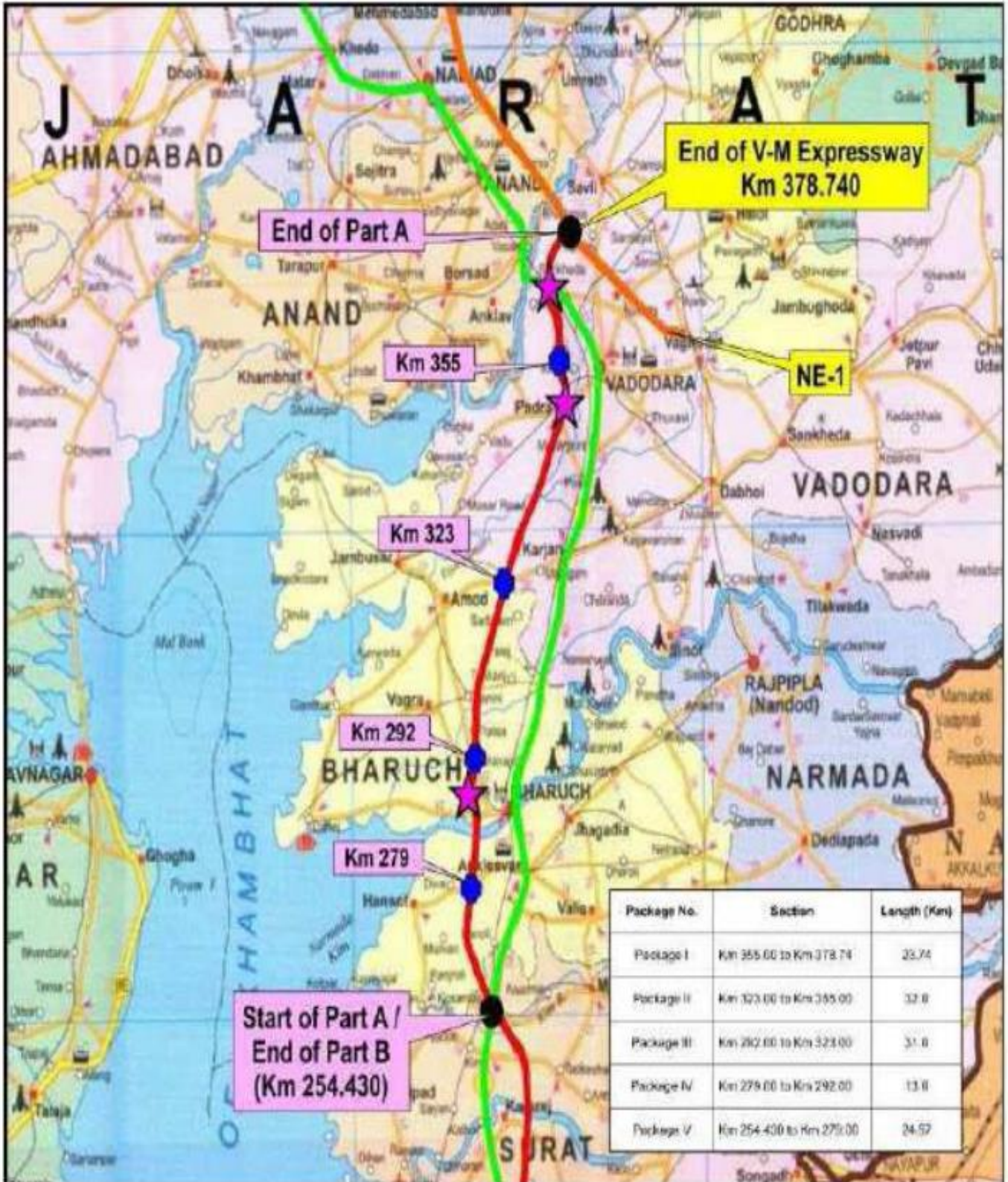
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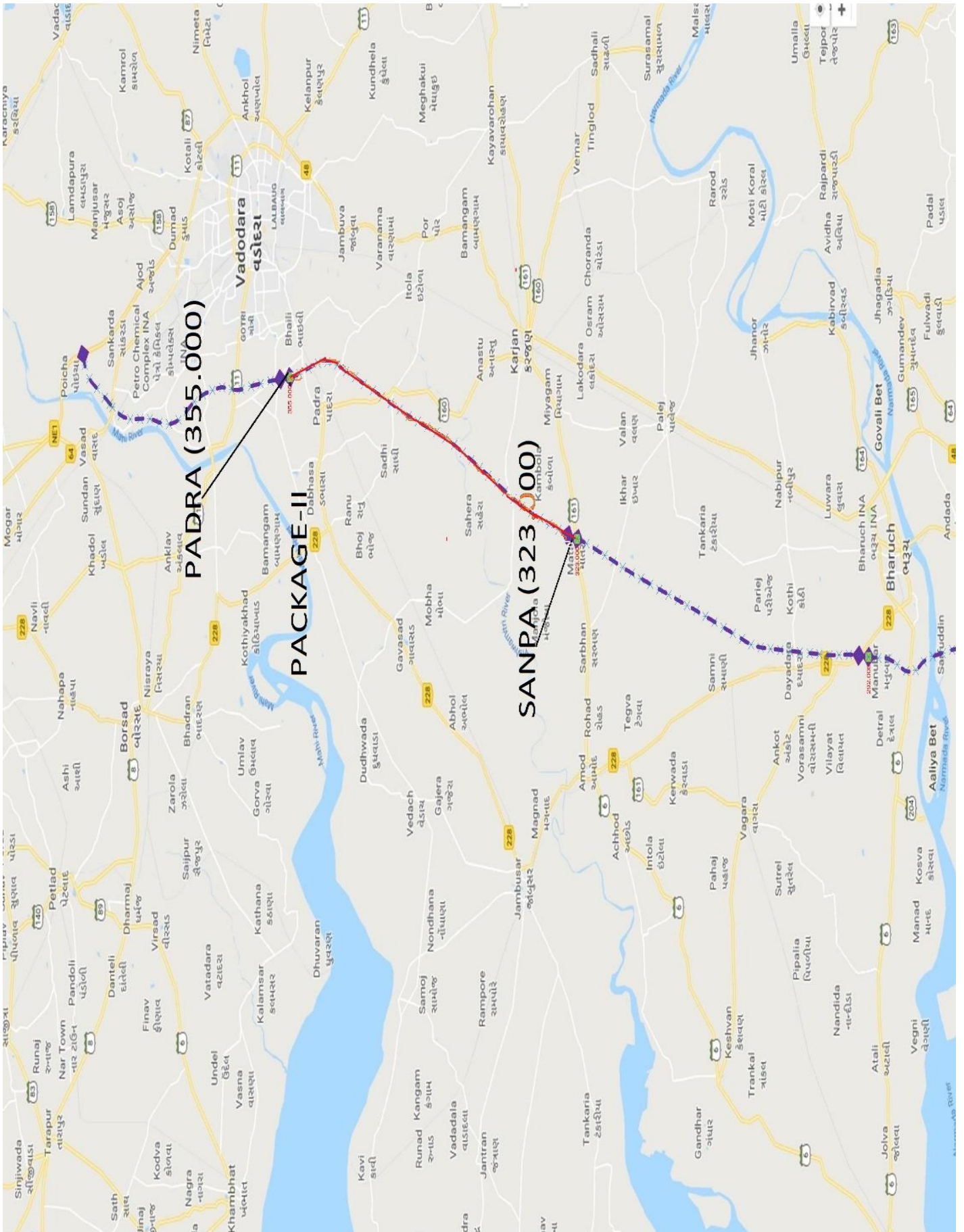
Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
 National Highway Authority of India (NHDP Phase VI)
 IRCON International Limited

I. LOCATION PLAN & KEY PLAN

A. Key plan of Expressway

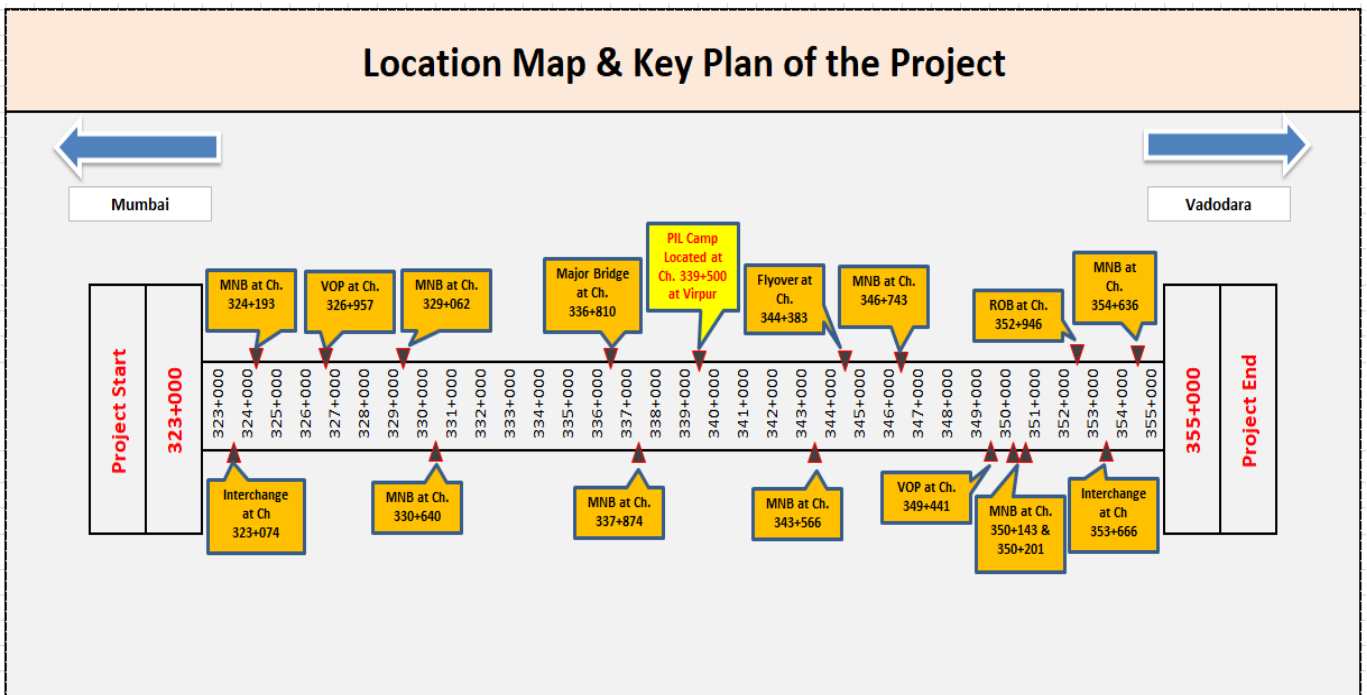


Construction of Eight lane Vadodra Kim Expressway from Km 323.00 to Km 355.00
National Highway Authority of India (NHDP Phase VI)
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Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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B. KEY PLAN OF PROJECT



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

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 expressway 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 Bodka, 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 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.

Present status of approval of ROB drawing at chainage 352+946: The drawing was approved by Sr. DEN (Co) – BRC, Western Railway on 24.12.2018 and proof checked by IIT, BHU on 08.07.2019. GAD, reinforcement details, initial pile load test and design report have been submitted to Sr. DEN vide NHAI letter no. NHAI/PIU-Bharuch/P-2/222 dated 19.07.2019. Detail design and drawing of super structures of proposed ROB have been submitted to Western railway vide NHAI letter no. NHAI/PIU-Bharuch/P-2-5/340 on 19.08.2019. Further, The design & drawing was approved on 20.03.2020 by the railway department and letter of approval was issued on dt 28.07.2020. Quality assurance plan has been submitted for steel composite girder on dt. 05.09.2020 and approved as on dt. 05.11.2020.

This report covers the progress for the month of December 2020. The Embankment work of the main carriageway has been continued and 30.10 Km out of 30.52 Km is in progress. The Executive summary of the reporting month is as shown below.

Executive Summary of the Project		
Sl. No	Key Reporting Metrics	Value%/Amount
1	Cumulative Scheduled Physical Progress (%)	70.74%
2	Cumulative Achieved Physical Progress up to Current month (%)	61.81%
3	Physical progress target during current month (%)	6.79%
4	Physical progress achieved during current month (%)	6.01%
5	Cumulative stage achieved up to Current month (%)	42.41% (621.31 Crore)

**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**

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 Private Limited
Project Length	32.00 Km
Total Bid Project Cost	1465.00 Cr.
Defect liability Period	42 month
Construction Period (as per CA)	670 Days from the Appointed Date.
Date of LOA	26.10.2018
Date of Contract Agreement	19.11.2018
Appointed Date	31.01.2019
Schedule Date of Completion	30.11.2020
Proposed Date of Completion	14.08.2021

A. Milestones as per CA:

Sr. No.	Project Milestone	Required % of Physical & Financial Work Completion to Achieve Milestone	Milestone completion schedule as per CA (Days)	Milestone completion Revised schedule (Days)	Original Completion date as per CA	Achieved /Proposed Date of Milestone	Remarks
1	Milestone – 1	20%	150	150	30/06/2019	27/09/2019 (Achieved)	
2	Milestone – 2	35%	330	330	27/12/2019	25/01/2020 (Achieved)	IRCON Letter No 1540, dt 14.04.2020
3	Milestone – 3	75%	450	480	25/04/2020	12.02.2021 (Proposed)	with 90 days Grace Period
4	Milestone – 4	100%	670	670	01/12/2020	14.08.2021 (Proposed)	

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

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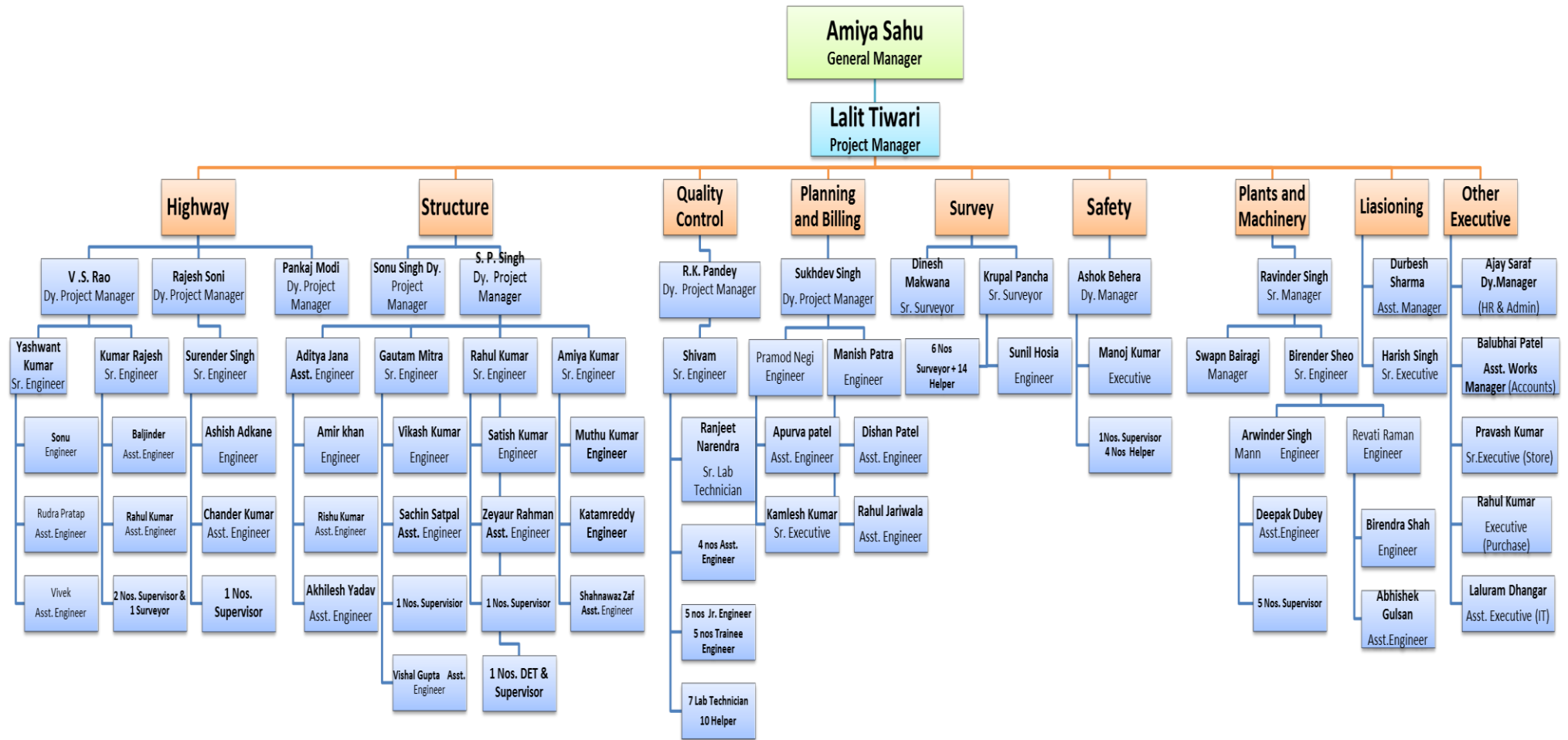
C. Details of MCW:

Sr. No.	Description	Length (in Km)
1	Embankment	30.52 Km
2	Sub grade	30.52 Km
3	GSB	30.52 Km
4	DLC	30.52 Km
5	PQC	30.52 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), [1x48.2+2(25.0+25.0+25.788)mtr]
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. – (2x48.221 mtr, 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 Deployed	Working Status	Remarks
1	Back Hoe Loader	Nos	11	22	22 Working	
2	Excavator	Nos	19	37	35 Working, 2 under Maintenance	
3	Motor Grader	Nos	19	28	24 Working, 4 under Maintenance	
4	Vibratory Roller/Soil Compactor	Nos	19	39	32 Working, 7 under Maintenance	
5	Wet Mix Paver	Nos	0	0		
6	Wet Mix Plant	Nos	0	1	Working	
7	DLC Paver	Nos	0	1	Working	
8	PQC Paver	Nos	0	2	Working	
9	Hot Mix Plant	Nos	0	0		
10	Bitumen Paver	Nos	0	0		
11	Bitumen Sprayer	Nos	0	0		
12	Broomer	Nos	0	0	Working	
13	Tandem Roller	Nos	3	3	Working	
14	Pneumatic Tyre Roller	Nos	0	0		
15	Dumpers/Tipppers	Nos	86	148	146 Working, 2 under Maintenance	
16	FE Loaders/Dozer	Nos	5	10	Working	
17	Water Tanker	Nos	19	48	Working	
18	Compressor	Nos	0	0	Working	
19	Concrete Batching Plant	Nos	1	10	CP-45 (2),CP-18, CP-65, CP-115, H6N240,CP-250,CP-30(3)	
20	Transit Mixers	Nos	9	40	36 Working, 4 under Maintenance	
21	Concrete Pump + Boom placer	Nos	2	3	Working	
22	Kerb Machine	Nos	1	1	Working	
23	Crusher - 250 MT	Nos	1	1	Working	
24	Weigh Bridge	Nos	4	2	Working	
25	Tractor	Nos	3	10	Working	
26	Diesel Tanker	Nos	2	5	Working	
27	Tempo	Nos	3	3	Working	
28	Tower Light	Nos	4	8	Working	
29	Hydra Crane	Nos	2	6	Working	
30	Vibratory Rammer	Nos	2	2	Working	
31	Dewatering Pump (Portable)	Nos	5	7	Working	
32	Baby Roller	Nos	2	2	Working	
33	Trailor / Platform Truck	Nos	1	6	Working	
34	Vibrator (Needle Type)	Nos	4	12	Working	
35	Kerb Cutter	Nos	2	2	Working	
36	Pile Boring machines	Nos.	6	4	Working	

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G. Details of Applicable Permits:

Status of Applicable Permits (As per Schedule F) As on 31.12.2020

Sr. 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	02.06.2020	
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	Received	14.01.2020	
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	

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IV. Project Progress

A. Physical Progress:

The percentage of Physical progress calculation is based on the assigned weight-ages revised on 04/11/2019 to the overall scope of the work.

The physical progress achieved is 61.81 % as on 31.12.2020.

Given below is the summary of status of the works executed as on 31.12.2020

B. Highway Progress:

Sr. No.	Item	Unit	Scope of work	Completed	Work in Progress	Balance work
1	C & G	Km	30.52	30.10	0	0.42
2	Embankment	Km	30.52	25.20	3.70	1.62
3	Sub grade	Km	30.52	18.10	3.20	9.22
4	GSB	Km	30.52	16.70	0.80	13.02
5	DLC	Km	30.52	15.40	0.60	14.52
6	PQC	Km	30.52	10.07	0.60	19.85

Refer **Annexure 1:** Calculation of Physical Progress and **Annexure -3:** Strip Plan showing progress of Expressway for details.

A. Structure Progress:

SR.No	Type Of Structure	Total No. of Structure as per CA	Completed Structure	No of Work in progress of structure	Structure To be Taken.	Remarks
1	HPC	42+4	42+4	0	0	1.) Pipe laid in 80 (m) length, Pipe extension is in progress, Both side chambers yet to start.
2	BOX Culvert	52	32	12	8	2.) Balance for connecting roads, ramps & loops.
3	Flyover	1	0	1	0	1.) Foundation-8 Nos. completed 2.) Substructure 7 Nos. completed 3.) Girder-31 No. completed
4	ROB	1	0	1	0	1.) Pile-80 Nos. Completed 2.) Pile Cap- 5 Nos. Complete. 3.) Substructure 3 Nos. Abt. Cap in Progress.
5	MJB	1	0	1	0	1.) Pile-224 Nos. completed 2.) Foundation-12 Nos. completed 3.) Substructure- 10 Nos. Pier/abt. Shaft Completed, 03 Pier/abt. Cap completed. 4.) Girder-30 Nos. Done

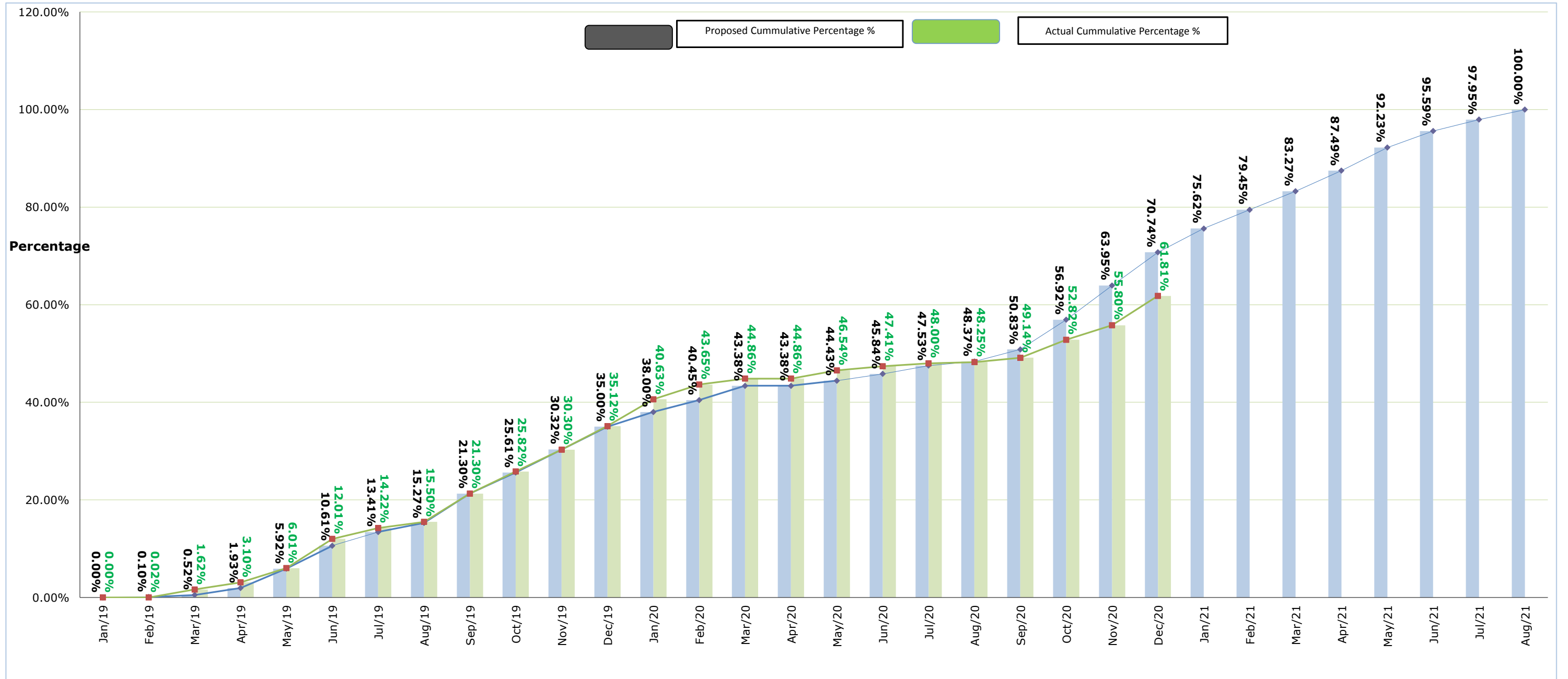
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6	MNB	9	3	6	0	Box Type 1.) Foundation-4 Nos. completed 2.) Substructure-4 Nos. completed 3.) Superstructure-3 Nos. completed 4.) Girder-All completed Retaining wall started Pile Type 1.) Foundation-All completed 2.) Substructure - In progress 3.) Girder-178 Nos. completed
7	Interchange	2	0	2	0	At Location 323+074 1.) Foundation-8 Nos. completed 2.) Substructure-8 Nos. completed 3.) Girder-45 Nos. completed At Location 353+666 1.) Foundation-16 Nos. completed 2.) Substructure-16 Nos. completed 3.) Girder-97 Nos. completed
8	VOP	2	0	2	0	At Location 349+441 1.) Foundation- completed 2.) Substructure- completed Girder- 4 Nos. completed At Location 326+957 3.) Foundation-3 Nos. completed 4.) Substructure- 1 completed
9	LVUP	8	8	0	0	1.) Foundation-8 Nos. completed 2.) Substructure-8 Nos. completed 3.) SuperStructure-8 Nos. complete RE wall and crash barrier work in progress
10	VUP	5	4.5	0.5	0	1.) Foundation-5Nos. completed 2.) Substructure-5Nos. completed 3.) Super structure-4.5 Nos. completed. RE wall and crash barrier work in progress
11	PUP/CUP	34	34	0	0	1.) Foundation-34 Nos. completed 2.) Substructure-34 Nos. completed 3.) Super structure-34 Nos. Completed RE wall and crash barrier work in progress of 16 structures.
Total		161	132	25	4	
1	Utility Duct	61	61	0	0	1) Utility duct in 75m Length Completed, Extension is in progress

Refer **Annexure 1**: Calculation of Physical Progress and **Annexure -3**: Strip Plan showing progress of Expressway for details

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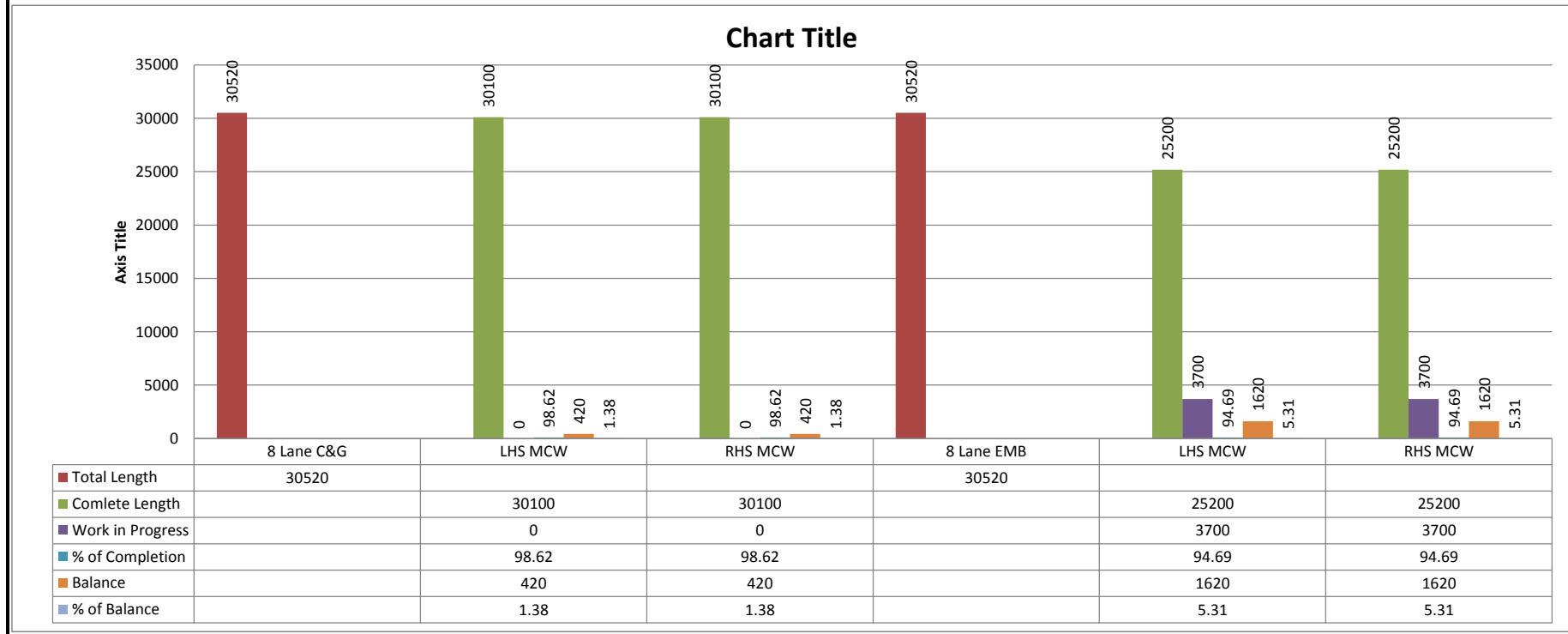
S- Curve (Physical Progress for Project Milestone)



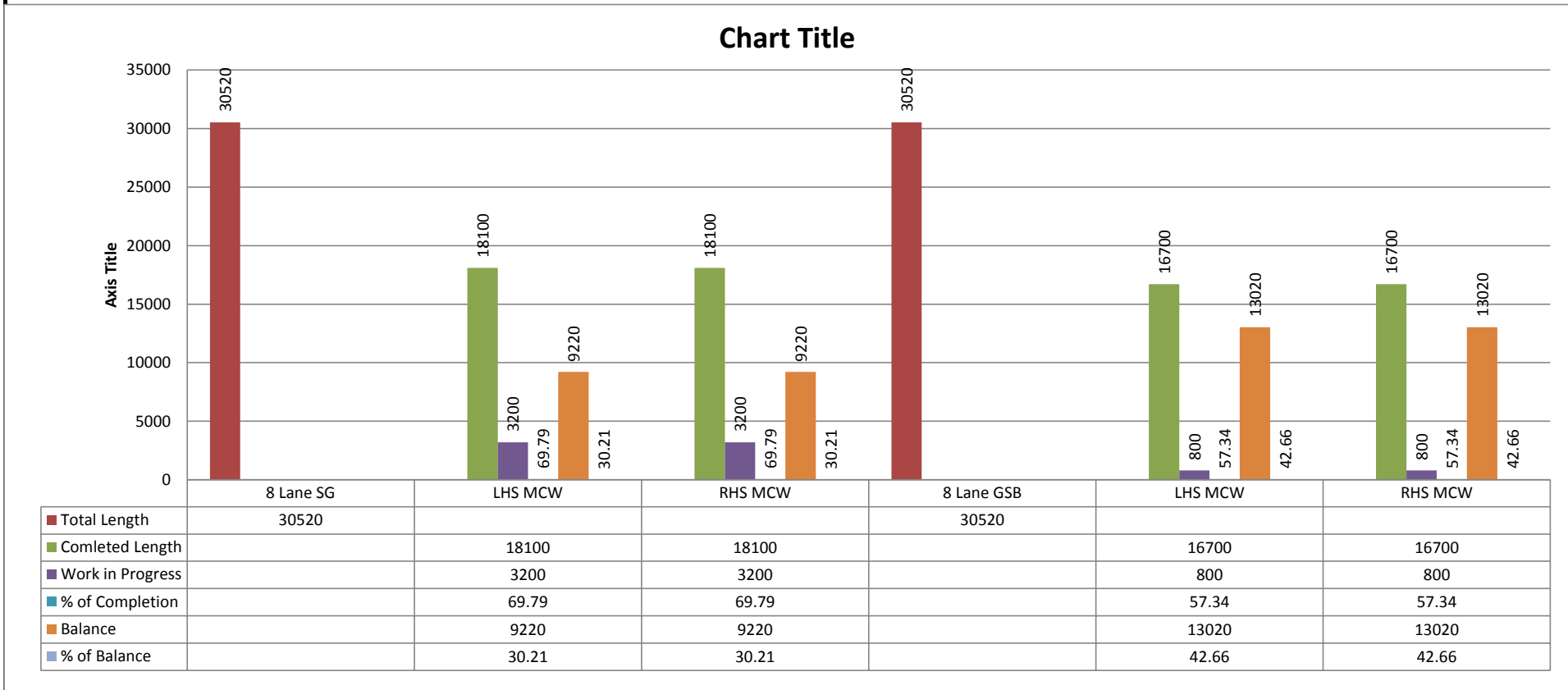
	MS-I												MS-II								MS-III								MS-IV			
Month	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
Proposed Cum. Percentage (%)	0.00%	0.10%	0.52%	1.93%	5.92%	10.61%	13.41%	15.27%	21.30%	25.61%	30.32%	35.00%	38.00%	40.45%	43.38%	43.38%	44.43%	45.84%	47.53%	48.37%	50.83%	56.92%	63.95%	70.74%	75.62%	79.45%	83.27%	87.49%	92.23%	95.59%	97.95%	100.00%
Actual Cum. Percentage (%)	0.00%	0.02%	1.62%	3.10%	6.01%	12.01%	14.22%	15.50%	21.30%	25.82%	30.30%	35.12%	40.63%	43.65%	44.86%	44.86%	46.54%	47.41%	48.00%	48.25%	49.14%	52.82%	55.80%	61.81%								

Highway Bar Chart							31.12.2020
S.No.	Type of Work	Total Length	Complete Length	Work in Progress	% of Completion	Balance	% of Balance
1	8 Lane C&G	30520					
2	LHS MCW		30100	0	98.62	420	1.38
3	RHS MCW		30100	0	98.62	420	1.38
4	8 Lane EMB	30520					
5	LHS MCW		25200	3700	94.69	1620	5.31
6	RHS MCW		25200	3700	94.69	1620	5.31

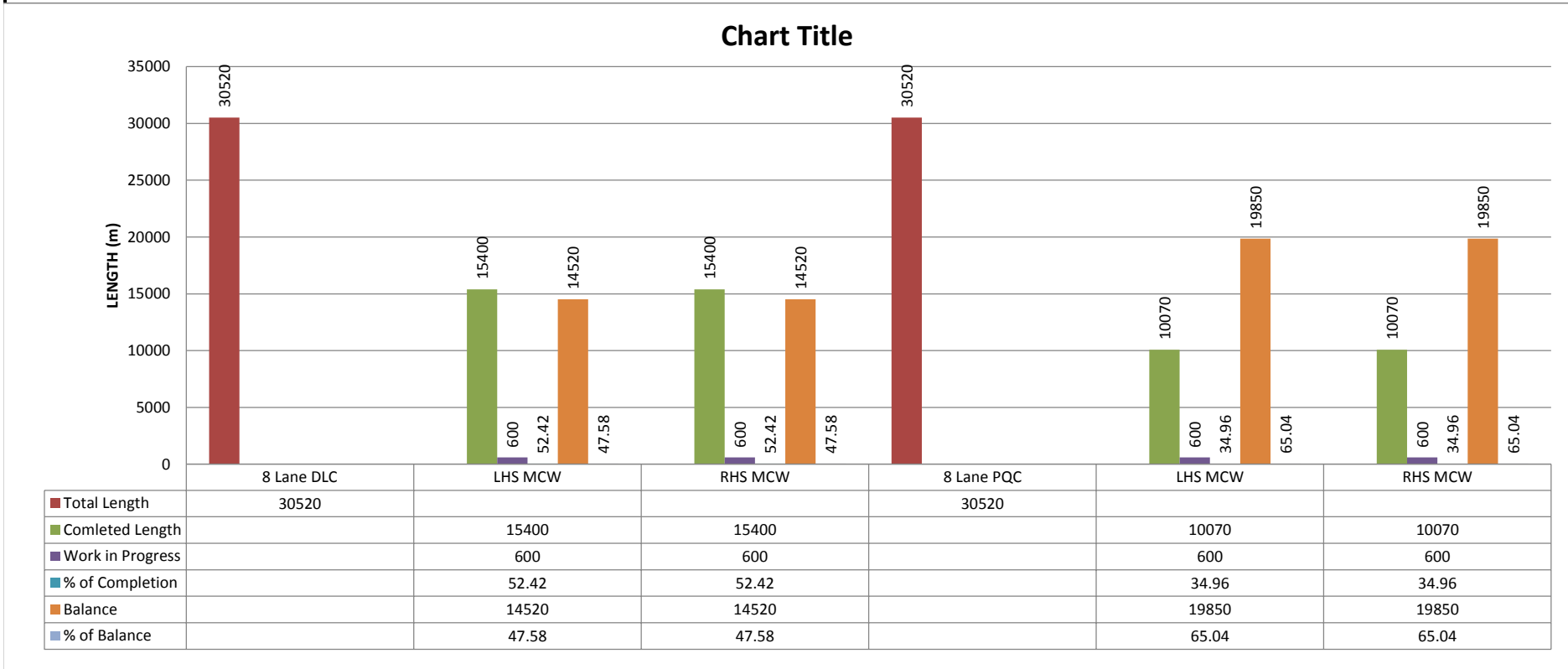
3900



Highway Bar Chart							31.12.2020
S.No.	Type of Work	Total Length	Completed Length	Work in Progress	% of Completion	Balance	% of Balance
1	8 Lane SG	30520					
2	LHS MCW		18100	3200	69.79	9220	30.21
3	RHS MCW		18100	3200	69.79	9220	30.21
4	8 Lane GSB	30520					
5	LHS MCW		16700	800	57.34	13020	42.66
6	RHS MCW		16700	800	57.34	13020	42.66



Highway Bar Chart							31.12.2020
S.No.	Type of Work	Total Length	Completed Length	Work in Progress	% of Completion	Balance	% of Balance
1	8 Lane DLC	30520					
2	LHS MCW		15400	600	52.42	14520	47.58
3	RHS MCW		15400	600	52.42	14520	47.58
4	8 Lane PQC	30520					
5	LHS MCW		10070	600	34.96	19850	65.04
6	RHS MCW		10070	600	34.96	19850	65.04



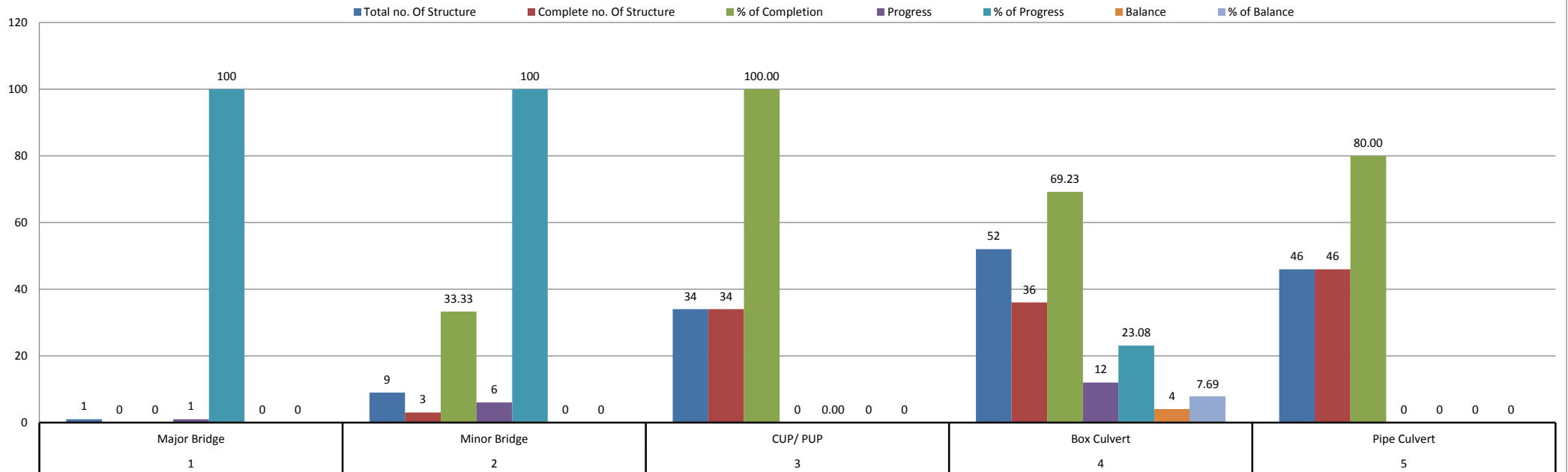
STRUCTURE BAR CHART

Structure Work :- Flyover, PUP, VUP, & ROB

Status as on 31.12.2020

S.no.	Types Of work	Total no. Of Structure	Complete no. Of Structure	% of Completion	Progress	% of Progress	Balance	% of Balance
1	Major Bridge	1	0	0	1	100	0	0
2	Minor Bridge	9	3	33.33	6	100	0	0
3	CUP/ PUP	34	34	100.00	0	0.00	0	0
4	Box Culvert	52	36	69.23	12	23.08	4	7.69
5	Pipe Culvert	46	46	80.00	0	0	0	0

Chart Title

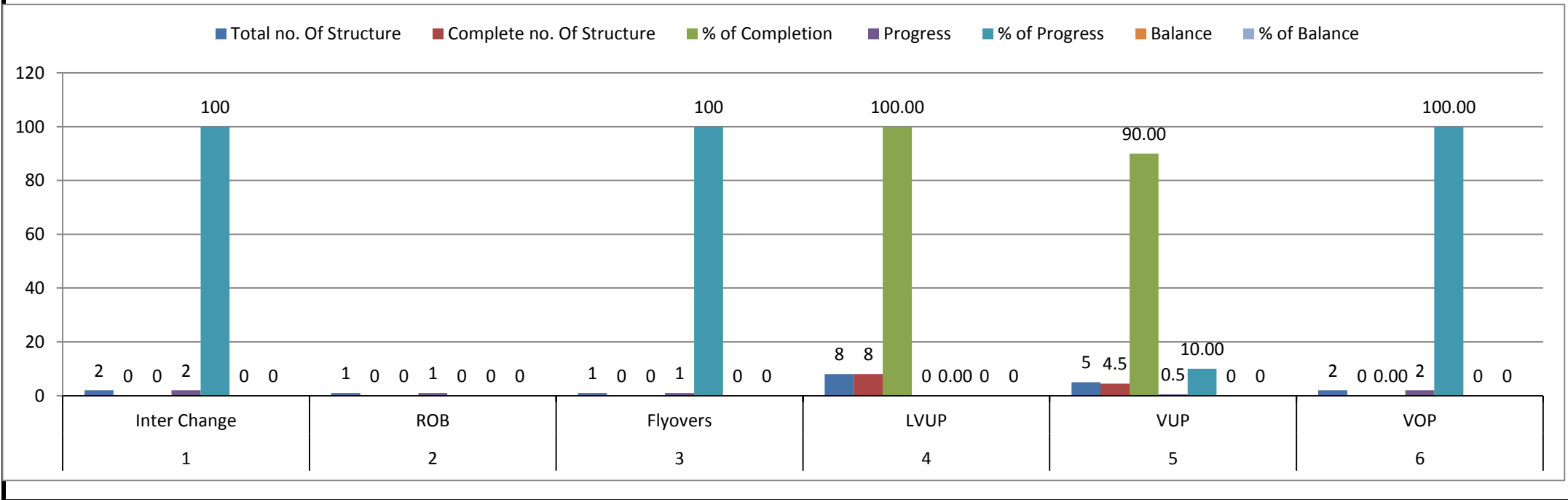


STRUCTURE BAR CHART

Structure Work :- Flyover, PUP, VUP, & ROB

Status as on 31.12.2020

S.no.	Types Of work	Total no. Of Structure	Complete no. Of Structure	% of Completion	Progress	% of Progress	Balance	% of Balance
1	Inter Change	2	0	0	2	100	0	0
2	ROB	1	0	0	1	0	0	0
3	Flyovers	1	0	0	1	100	0	0
4	LVUP	8	8	100.00	0	0.00	0	0
5	VUP	5	4.5	90.00	0.5	10.00	0	0
6	VOP	2	0	0.00	2	100.00	0	0



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V. Status of Land Acquisition

- Total land for which compensation was paid by NHAI/CALA as on 31.12.2020 is **97 %** i.e. **31.025 Km.** out of total 32km.
- As on date, Hindered Length Due to various utilities / Land / Other hindrances falling in the Total length of 32 km is **2.510 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	600	Annexure 4A
Total Hindered length due to water pipeline etc.	60	Annexure 4B
Total Hindered Area due to Disputed Land	1630	Annexure 4C
Permanent Structures	220	Annexure 4D
Grand Total	2510	

- Net unencumbered/Unhindered length of road as on 31.12.2020 is = $32.000 - 2.510 = 29.49$ km. i.e. 92.15%.
- Action taken by M/s. PIL: We are consistently 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

								Date:31.12.2020	
S r.	Description	MGVCL	GETCO	PGCIL	TORRENT	GWSSB	ONGC	GAIL	GSPL
1	Estimate Submitted to PIU-Dated	31.07.2019 & 08.12.2020	30.01.2020	30.08.2019	24.08.2019	04.04.2019	23.07.2020		
2	Approval by RO-Dated	22.11.2019, 17.12.2019 & 2 Estimate approval awaited	28.02.2020						
3	Supervision Charge paid-Dated	Padra 1- 19.03.2020 Padra 2- 27.03.2020 Karjan- 18.03.2020	13.03.2020 13.03.2020			08.01.2020			
4	Work Started on	05.10.2020	20.10.2020						
5	Work Completed on	Padra 1 80% Padra 2 Complete Karjan 90%	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
6	Total length effected(m)	1965	145	50	150	40	100	60	-
7	Total length cleared(m)	1710	-	-	-	-	-	-	-
8	Balance length to be clear(m)	255	145	50	150	40	100	60	-

VII. STATUS OF DESIGN & DRAWING

Design Status of Sanpa- Padra Project (As on 31.12.2020)

Sr. No	Type of Structure	Total scope (Nos)	Nos. of structures Submitted to IE	Nos. of structures Approved by IE	Nos. of structures Balance to be reviewed by IE	Chainage	Submitted to IE/IRCON	Comments from IE/IRCON on	Present Status
1	Interchange	2	2	2	0	323+075	PIL/HO/VKE2/IRCON/015/2020 Dt. 06.01.2020	IRCON/3019/VKE/PATEL/1242 dt. 06.01.2020	Approved vide letter no. 1242
						323+075	PIL/HO/VKP2/IRCON/428/2020, dt 07.08.2020	IRCON/3019/VKE/PATEL/2011 dt. 07.09.2020	Found in Order vide letter No 2011 IRCON/IE have reviewed the compliance given by M/s PIL and the layout & profile of the Interchnage at Km 323+075 & it is found in order Ms/ PIL is hereby requested to proceed for the GFC Drawings along with details of coordinates of the splitters , drainage and profile of the circulatory carriageway in roundabouts
						323+075	PIL/HO/VKP2/IRCON/068/2020, dt 31.01.2020	IRCON/ 3019/ VKE/ PATEL / 1916, dt. 17.08.2020	Approved vide letter no. 1916 the compliance regarding PSC girder, RCC girder, GAD & Design
						353+666	PIL/HO/VKP2/IRCON/377/2020 dt.08.07.2020	IRCON/3019/VKE/PATEL/1775 dt. 01.07.2020	Approved
2	Major Bridge	1	1	1	0	336+830	(1) PIL/HO/VKP2/IRCON/201/2020 dt.04.04.2020 (2) PIL/HO/VKP2/IRCON/756/2020 , dt 28.12.2020	(1) IRCON/3019/VKE/PATEL/1565 dt. 24.04.2020 (2) Approval not received FOR PIL Letter no 756	(1) Approved vide letter no. 1565

**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	VOP	1	1	1	0	326+957	PIL/HO/VKP2/IRCON/031/ 2020 Dt. 17.01.2020 PIL/HO/VKP2/IRCON/604/ 2019 Dt. 28.08.2019	IRCON/3019/VKE/PATEL/2076 dt. 19.09.2020	Found in order vide letter No 2076
	VOP	1	1	1	0	349+441	PIL/HO/VKP2/IRCON/342/ 2020 dt. 23.06.2020	IRCON/3019/VKE/PATEL/1863 dt. 30.07.2020	Approved vide letter no. 1616
4	Minor Bridge	9	9	6	3	324+193	PIL/HO/VKP2/IRCON/ 765/2019 Dt. 17.12.2019	IRCON/3019/VKE/PATEL/1400 dt. 29.02.2020	Approved by IRCON letter no. 1400 Found in Order Vide IRCON Office Letter No 2120, dt 28.09.2020
						329+062	PIL/HO/VKP2/IRCON/204/ 2019 dt. 09.04.2020	-	Approved by IE (A2 size Hard Copy submitted vide PIL/ VK2/ IRCON/ 667 / 2020, dt 29.09.2020)
						330+640	PIL/HO/VKE2/IRCON/249/ 2020 Dt. 12.05.2020 PIL/HO/VKE2/IRCON/316/ 2020 Dt. 12.06.2020	-	Under review With IE
						337+874	PIL/HO/VKP2/IRCON/205/ 2019 dt. 09.04.2020	-	Approved by IE (A2 size Hard Copy submitted)
						343+500	PIL/HO/VKE2/IRCON/ 302/2020 Dt. 02.06.2020	IRCON/3019/VKE/PATEL/992 dt. 26.11.2019,IRCON/3019/VKE/ PATEL/1125 dt. 30.12.2019	Under review With IE
						346+743	R1 -PIL/HO /VKE2/IRCON/ 563/ 2019 Dt. 07.08.2019	IRCON/3019/VKE/PATEL/1039 dt. 09.12.2019 (For GT)	Approved by IE (IRCON ltr. 882dt. 09.10.2019) (A2 size Hard Copy submitted)
						350+143	(1) PIL/HO/VKE2/IRCON/326/ 2020 Dt. 19.06.2020 (2) Complied of IRCON Letter No 1817 vide PIL /HO /VKP2/ IRCON/ 556/ 2020 , dt 13.10.2020	(1) IRCON/3019/VKE/PATEL/1817 dt. 16.07.2020	(1) Approved by IRCON letter no. 1817 dt. 16.07.2020, L type return wall with gap between the abutment & return wall is not advisable.
						350+201	PIL/HO/VKE2/IRCON/180/ 2020 Dt. 20.03.2020	-	Under review With IE
						354+636	PIL/HO/VKP2/IE/787/2019 Dt. 24.12.2019 (GFC)	IRCON/3019/VKE/PATEL/1751 dt. 30.06.2020	Approved via ltr. No. 1751 (With bearing comments)

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5	Flyover	1	1	1	0	344+383	(1) PIL/HO/VKP2/IRCON/222/2020 Dt. 24.04.2020 (2) complied for IRCON letter no. 2036 vide PIL/HO /VKP2/ IRCON/491/2020 Dt. 14.09.2020 (3) A2 Size GSC drawing submitted vide PIL Letter No. PIL/VK2/IRCON/ 688 /2020, DT. 14.10.2020	(1) IRCON/3019/VKE/PATEL /2036 dt. 14.09.2020 (2) IRCON/3019/VKE/PATEL /2068 dt. 18.09.2020 (Comments against PIL Letter No 491) (3) IRCON/3019/VKE/ PATEL/1003/ 2261 dt. 29.10.2020 (comments against PIL Letter No 491) (4) Observation also received vide Ircon letter No IRCON/ 3019/ VKE/ PATEL /1003/ 2316, dt 10.11.2020 against submission of A2 size GFC drawing vide PIL Letter No 688, dt. 14.10.2020	(1) Observation Received vide IRCON Letter No 2036, dt. 14.09.2020 (2) Found in Order vide letter No 2068, dt 18.09.2020 (3) Minor observations received over A2 size drawings Vide IRCON Letter No. 2316, dt. 10.11.2020 Comment is "Sectional Elevation of Abutment shall be modified"
6	ROB	1	1	0	1	352+945	PIL/HO/VKP2/IRCON/520/2019 Dt. 15.07.2019 & PIL/HO/VKP2/IRCON/579/2019 Dt. 17.08.2019	-	Under review With IE, Approved from IIT (BHU) and WR
						ROB Abutment (A1) at Ch. 352+946.198	PIL/HO/VKP2/IRCON/426/2020, dt 06.08.2020	-	Submission of Detailed design & drawing of ROB Abutment RA 1 duly approved by Railway Department
7	VUP	5	5	5	0	330+402	PIL/HO/VKE2/IRCON/533/2019 Dt. 20.07.2019	IRCON/3019/VKE/PATEL/853 dt. 27.09.2019 for bar No. 16	Approved by IRCON letter no. 853 dt. 27.09.2019
						331+822	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	Approved by IE (IRCON ltr. 831 dt. 18.09.2019)
						335+402	Submitted to IE-Ho By SES by mail of dt. 28.05.2019	-	Approved by IE (IRCON ltr. 657 dt. 19.07.2019)
						341+826	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	Approved by IE (IRCON ltr. 831 dt. 18.09.2019)
						351+284	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	Approved by IE (IRCON ltr. 831 dt. 18.09.2019)

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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8	LVUP	8	8	7	1	(02 Ch. 354+832, 343+856)(0 5 Ch. 325+769, 337+022, 341+600, 348+468, 351+810)	2 nos. submitted vide ltr no. 727 dt. 30.11.2019 5 nos. submitted vide ltr no. 725 dt. 29.11.2019	2 nos. Approved by IRCON Letter no. 758 dt. 23.08.2019 (343+877 & 354+855),IRCON ltr. No. 1744 dt. 29.06.2020 (325+769, 337+022, 341+600, 348+468, 351+810)IRCON ltr. No. 1750 dt. 30.06.2020 (354+832, 343+856)	2 nos. Approved by IRCON Letter no. 758 and 1744 dt. 23.08.2019 and 30.06.2020 (LVUP - A2 size Hard Copy submitted for stamping), 5 nos approved vide ltr. No. 1744 dt. 29.06.2020,
9	PUP/CUP	34	34	30	4	-	26 nos. submitted by letter no. 381 dated 28.05.2019, 4 nos. submitted by Mail on date 29.05.2019, 3 nos. by mail dt 26.05.2019, 1 nos. by mail dt. 28.05.2019	26 Nos. (IE letter no. 471 dt. 01.06.2019, IRCON letter no. 492 dt. 11.06.2019), 4 Nos. (IE letter no. 470 dt. 01.06.2019, IRCON letter no. 491 dt. 11.06.2019)	30 nos. Approved By IE (A2 size drawing stamped), 4 nos. pending
10	Box Culvert	52	50	36	14	-	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	20 nos. approved in M.O.M - 14.05.2019 to 17.05.2019, other 30 are pending with IE
	Box Culvert					0+535 at VOP-349+441)	PIL/ VK2/ IRCON/ 652 / 2020, dt 22.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2195, dt. 14.10.2020	Foundation for retaining wall shall be placed at 2.0 m below the maximum scour level or from protected bed level as per CL : 705.2.1 of IRC : 78-2014

**Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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	Box Culvert					0+909 at at VOP 326+957	(1) PIL / HO /VKP2 /IRCON / 525/ 2020 , dt 25.09.2020 (2) Complied of IRCON Letter No. 2172, vide PIL / HO / VKP2 /IRCON /549/ 2020 , dt 13.10.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2172, dt 10.10.2020 (2) IRCON/ 3019/ VKE/ PATEL /1003/ 2220 , dt 21.10.2020	Approved Vide Letter NO 2220
	Box Culvert					0+015 at Ramp-2 of IC 323+075	CH. Vide PIL/ VK2/ IRCON/ 665 / 2020, dt 28.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2232 , dt 26.10.2020	Approved Vide Letter NO 2232
	Box Culvert					0+015 at Ramp-2 of IC 323+075	(1) PIL/HO/ VKP2/ IRCON/ 655/ 2020, dt 12.11.2020 (2) Complied of IRCON Letter No. 2371, Vide PIL Letter No : PIL/HO/VKP2/IRCON/713/ 2020, dt 07.12.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2371 , dt 24.11.2020 (2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020 IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Box Culvert					0+020 at Ramp-3 of IC 323+075	PIL/ VK2/ IRCON/ 665 / 2020, dt 28.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2232 , dt 26.10.2020	Approved Vide Letter NO 2232
	Box Culvert					0+020 at Ramp-3 of IC 323+075	(1) PIL/HO/ VKP2/ IRCON/ 656/ 2020, dt 12.11.2020(2) Complied of IRCON Letter No 2372, Vide PIL/ HO/ VKP2/ IRCON/ 713/2020, dt 07.12.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2372 , dt 24.11.2020(2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Box Culvert					0+305 at Ramp-3 of IC 323+075	PIL/ VK2/ IRCON/ 665 / 2020, dt 28.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2232 , dt 26.10.2020	Approved Vide Letter NO 2232 Retainer or parapet reinforcement shall be referred to separate design & drawings as height is more than 3.0 m

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

	Box Culvert					0+305 at Ramp 3 of IC 323+075	(1)PIL /HO/ VKP2/ IRCON/ 644/ 2020 , dt 07.11.2020 (2) Complied of IRCON Letter No, 2370 vide PIL/ HO/ VKP2/ IRCON/ 713/ 2020, dt 07.12.2020	(1)IRCON/ 3019/ VKE/ PATEL /1003/ 2370 , dt 24.11.2020 (2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020 IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Box Culvert					CH. 0+346 at Ramp-2 of IC 323+075	PIL/ VK2/ IRCON/ 665 / 2020, dt 28.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2232 , dt 26.10.2020	Approved Vide Letter NO 2232
	Box Culvert					CH. 0+346 at Ramp-2 of IC 323+075	(1)PIL /HO/ VKP2/ IRCON/ 737/ 2020, dt. 19.12.2020		
	Box Culvert					CH. 0+454 at Loop-2 of IC 353+666	PIL/ VK2/ IRCON/ 665 / 2020, dt 28.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2232 , dt 26.10.2020	Approved Vide Letter NO 2232
	Box Culvert					0+966 at Ramp-1 of IC 353+666	PIL/VK2/IRCON/ 669/ 2020 , dt 30.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2244 , dt 27.10.2020	Approved vide letter no 2473
							(1) PIL/ Ho/ VKP2/ IRCON/ 629/ 2020 , dt 04.11.2020 (2) Complied of IRCON Letter No. 2407, vide PIL/ HO/ VKP2/ IRCON/ 713/ 2020, dt 07.12.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2407, dt. 02.12.2020 (2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020 IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Box Culvert					0+684 at Ramp-2 of IC 353+666.	PIL/VK2/IRCON/ 669/ 2020 , dt 30.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2244 , dt 27.10.2020	Approved Vide Letter No 2244
	Box Culvert					0+384 at Loop-3 of IC 353+666	PIL/VK2/IRCON/ 669/ 2020 , dt 30.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2244 , dt 27.10.2020	Approved Vide Letter No 2244
	Box Culvert					0+407 at Loop-2 of IC 353+666	PIL/VK2/IRCON/ 669/ 2020 , dt 30.09.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2244 , dt 27.10.2020	Approved Vide Letter No 2244

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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	Box Culvert					0+560 & 0+640 at Interchange 353+666 (Loop 3 & Ramp 3)	(1) PIL/HO/VKP2/IRCON/648/2020, dt 10.11.2020 (2) Complied of IRCON Letter No 2385, Vide PIL/ HO/ VKP2/ IRCON/ 713/ 2020, dt 07.12.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2385 , dt 26.11.2020 (2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020 IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Box Culvert					0+186 at Interchange (Ramp 2) 353+666	(1) PIL/ HO/ VKP2/ IRCON/ 649/ 2020, dt 10.11.2020(2) Complied of IRCON Letter No. 2384 vide PIL/ HO/ VKP2/ IRCON/ 713/ 2020, dt 07.12.2020	(1) IRCON/ 3019/ VKE/ PATEL /1003/ 2384 , dt 26.11.2020(2) IRCON/ 3019/ VKE/ PATEL /1003/ 2473, dt.22.12.2020	Approved vide IRCON Letter 2473, dt 22.12.2020 IRCON / IE Have reviewed the submission of M/s PIL of design & drawings of precast box culverts were structurally found in order
	Precast Box Culvert					0+582 at Interchange (Ramp 1) 353+666	(1) PIL/ HO/ VKP2/ IRCON/ 770/ 2020, dt 31.12.2020		
	Precast Box Culvert					344+342 Utility Location	PIL/HO/VKP2/IRCON/747/ 2020, dt. 22.12.2020		
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/PATEL/47 6 dt. 06.06.2019	Approved in MOM (A2 size drawing submitted to IE for stamping)
		157	155	133	22				

VIII. Weather report for the month of December 2020

MONTHLY WEATHER REPORT FOR THE MONTH OF December 2020

S. No.	DATE	TEMPRATURE (°C)		HUMIDITY (%)		RAINFALL (mm)	CUMM. RAINFALL (mm)	WEATHER
		Min.	Max.	Min.	Max.			
1	01-Dec-20	21.2	31.6	40.00	75.00	-	1,284.40	Sunny
2	02-Dec-20	20.8	30.2	28.00	68.00	-	1,284.40	Sunny
3	03-Dec-20	21.4	31.2	34.00	75.00	-	1,284.40	Sunny
4	04-Dec-20	20.9	30.8	28.00	73.00	-	1,284.40	Sunny
5	05-Dec-20	20.8	30.8	28.00	75.00	-	1,284.40	Sunny
6	06-Dec-20	20.6	30.9	32.00	78.00	-	1,284.40	Sunny
7	07-Dec-20	20.1	31.6	28.00	77.00	-	1,284.40	Sunny
8	08-Dec-20	20.6	31.2	29.00	74.00	-	1,284.40	Sunny
9	09-Dec-20	20.1	31.6	28.00	76.00	-	1,284.40	Sunny
10	10-Dec-20	20.0	30.6	75.00	84.00	2.00	1,286.40	Cloudy
11	11-Dec-20	19.8	29.6	76.00	89.00	9.00	1,295.40	Rainy+Cloudy
12	12-Dec-20	20.1	30.2	68.00	82.00	-	1,295.40	Cloudy
13	13-Dec-20	20.4	30.8	62.00	83.00	-	1,295.40	Cloudy
14	14-Dec-20	20.8	30.6	59.00	85.00	-	1,295.40	Cloudy
15	15-Dec-20	20.4	30.7	58.00	83.00	-	1,295.40	Cloudy
16	16-Dec-20	19.6	30.6	53.00	82.00	-	1,295.40	Cloudy
17	17-Dec-20	18.0	29.6	54.00	85.00	-	1,295.40	Cloudy
18	18-Dec-20	18.4	29.4	48.00	83.00	-	1,295.40	Cloudy
19	19-Dec-20	18.1	29.5	52.00	82.00	-	1,295.40	Cloudy
20	20-Dec-20	18.2	29.6	40.00	81.00	-	1,295.40	Sunny

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 355.00
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21	21-Dec-20	17.2	29.8	32.00	71.00	-	1,295.40	Sunny
22	22-Dec-20	17.2	28.4	30.00	75.00	-	1,295.40	Sunny
23	23-Dec-20	17.1	28.0	32.00	70.00	-	1,295.40	Sunny
24	24-Dec-20	17.9	28.4	37.00	72.00	-	1,295.40	Sunny
25	25-Dec-20	18.3	28.3	34.00	68.00	-	1,295.40	Sunny
26	26-Dec-20	18.2	28.5	37.00	72.00	-	1,295.40	Sunny
27	27-Dec-20	18.0	28.6	36.00	72.00	-	1,295.40	Sunny
28	28-Dec-20	16.8	28.2	23.00	70.00	-	1,295.40	Sunny
29	29-Dec-20	15.8	28.5	23.00	72.00	-	1,295.40	Sunny
30	30-Dec-20	15.2	25.8	36.00	61.00	-	1,295.40	Sunny
31	31-Dec-20	15.4	25.9	39.00	65.00	-	1,295.40	Sunny

Cumulative Rainfall Till Date	1,295.40	mm	
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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

IX. Status of RFI

MONTH :- December - 2020.

Sr.No.	Total RFI	Approved RFI	RFI Re-submitted after corrections suggested	Remarks
<u>Highway</u>				
1	1691	1582	109	
<u>Structure</u>				
2	792	706	86	
<u>Laboratory (QA/QC)</u>				
3	45	44	1	
<u>Survey</u>				
4	0	0	0	

IRCON VADODRA KIM EXPRESSWAY LIMITED

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.

Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
1	Earth Work upto Top of Subgrade													
1.1	Clearing and grubbing of -MCW	Hec	224.46	2.3 (ii) A	22,950.00	51,51,409.92	30.52	1,68,789	0.045%	30.10	221.38	5080558.41	0.04%	18.85%
1.2	Carrying out Jungle Cutting/ removal of debris / dismantling of Concrete Structure / Dismantling of existing road / Removal of any Physical item	M2	-	Lunsum										
1.3	Earth work in excavation necessary	Cu.m.	95,697.59	3.6	30.00	28,70,927.64	30.52	94,068	0.025%	30.10	94,381.38	2831441.45	0.03%	
1.4	Construction of embankment - MCW Height upto 1 Mtr	Cu.m.	28,00,477.02	RA	223.10	62,47,86,422.61	30.52	2,04,71,536	5.517%	30.10	27,61,959.79	616193229.30	5.44%	
1.5	Construction of embankment - MCW Height 1 mtr to 2 Mtr	Cu.m.	23,33,656.39	RA	223.10	52,06,38,741.70	30.52	1,70,59,069	4.597%	29.90	22,86,266.97	510066161.94	4.50%	
1.6	Construction of embankment - MCW Height 2 mtr to 3 Mtr	Cu.m.	18,66,835.77	RA	223.10	41,64,91,060.79	30.52	1,36,46,602	3.678%	29.80	18,22,809.24	406668741.55	3.59%	
1.7	Construction of embankment - MCW Height 3 mtr to Emb top Bottom	Cu.m.	14,00,461.87	RA	223.10	31,24,43,042.73	30.52	1,02,37,401	2.759%	29.10	13,35,313.13	297908360.02	2.63%	
1.8	Construction of embankment - MCW Embankment Top	Cu.m.	9,33,641.25	RA	223.10	20,82,95,361.82	30.52	68,24,934	1.839%	25.20	7,70,902.43	171988331.56	1.52%	
1.9	Construction of Sub grade - MCW	Cu.m.	8,51,218.89	RA	245.10	20,86,33,750.64	30.52	68,36,021	1.842%	18.10	5,04,822.46	123731985.94	1.09%	
1	Total EarthWork upto Top of Subgrade					2,29,93,10,717.85								
2	Grannular Sub Base Courses and Base Courses													
2.1	Constructing Grannular Sub-base	Cu.m.	2,76,822.05	4.1-A-(i)	1,332.00	36,87,26,967.47	30.52	1,20,81,580	3.256%	16.70	1,51,473.27	201762391.04	1.78%	1.78%
2	Grannular Sub Base Courses and Base Courses					36,87,26,967.47								
3	Shoulders													
3.1	Earthwork in filling of median / island area	Cu.m.	94,271.87	3.16	143.00	1,34,80,877.62	30.52	4,41,710	0.119%	1.00	3,088.88	441709.77	0.00%	0.10%
3.2	Construction of modified Earthen / un paved shoulders	Cu.m.	44,517.27	3.16	143.00	63,65,969.99	30.52	2,08,585	0.056%	1.00	1,458.64	208585.17	0.00%	
3.3	Providing min 200 mm dia NP4 pipes along the road in 2 Rows in shoulder	LM	60,788.77		1,000.00	6,07,88,772.23	30.52	19,91,784	0.537%	5.60	11,153.99	11153989.78	0.10%	
3	Total Shoulders					8,06,35,619.84								
4	Rigid Pavement													
4.01	Providing xxx mm thick DLC (M15) for CW	Cum	2,11,885.21	6.1	2,347.00	49,72,94,596.62	30.52	1,62,94,183	4.391%	15.40	1,06,915.39	250930414.76	2.22%	2.22%
4.02	Providing xxx mm thick PQC for CW	Cum	3,79,880.04	6.2	6,413.00	2,43,61,70,669.22	30.52	7,98,22,726	21.512%	10.07	1,25,341.47	803814847.42	7.10%	7.10%
4	Total Rigid Pavement					2,93,34,65,265.84								
5	Pipe Culverts													
5.01	Culvert Excavation	Cum	9,197.48	12.1 -(I) A	97.00	8,92,155.55	42.00	21,242	0.008%	42.00	9,197.48	892155.55	0.01%	0.35%
5.02	Culvert PCC M15 grade	Cum	305.94	12.8 D (ii)	4,539.00	13,88,655.22	42.00	33,063	0.012%	42.00	305.94	1388655.22	0.01%	
5.03	Providing , laying and jointing NP4 (as per IS:458) Hume pipes for culverts, - Dia 1200 mm (Internal)	LM	6,861.30	9.2 B	6,149.00	4,21,90,154.03	42.00	10,04,527	0.373%	42.00	6,861.30	42190154.03	0.37%	
5.04	Finishing Work (10% cost of overall work)					1,05,883.25	42.00			-42.00		-4447096.48	-0.04%	
5a	Total Pipe Culverts					4,44,70,964.80								
5a	Box Culverts													
5.01a	Culvert Excavation	Cum	51,243.10	12.1 -(I) A	97.00	49,70,580.90	52.00	95,588	0.044%	33.00	32,519.66	3154407.11	0.03%	2.25%
5.02a	Culvert PCC M15 grade	Cum	9,756.04	12.8 D (ii)	4,539.00	4,42,82,671.94	52.00	8,51,590	0.391%	33.00	6,191.33	28102464.89	0.25%	
5.03a	Foundation RCC M 30 - Culvert	Cum	14,149.18	12.8.G. case II	4,508.00	6,37,84,522.81	52.00	12,26,625	0.563%	33.00	8,979.29	40478639.47	0.36%	
5.04a	HYSB bar in Foundation-Culvert	MT	1,311.40	12.40	53,493.00	7,01,50,492.80	52.00	13,49,048	0.619%	33.00	832.23	44518581.97	0.39%	
5.05a	Substructure RCC M 30 - Culvert	Cum	14,966.54	13.5.G(q). case II	4,904.00	7,33,95,889.26	52.00	14,11,459	0.648%	32.50	9,354.08	45872430.79	0.41%	
5.06a	HYSB bar in Substructure-Culvert	MT	1,437.63	13.6	53,658.00	7,71,40,577.49	52.00	14,83,473	0.681%	32.50	898.52	48212860.93	0.43%	
5.07a	Super Structure RCC M 30 - Culvert	Cum	7,425.09	14.1.C. case II (r)	5,514.00	4,09,41,924.62	52.00	7,87,345	0.362%	31.50	4,497.89	24801358.18	0.22%	
5.08a	HYSB bar in Super Structure-Culvert	MT	756.39	14.2	54,788.00	4,14,41,216.38	52.00	7,96,946	0.366%	31.50	458.20	25103813.77	0.22%	
5.09a	Finishing Work (10% cost of overall work)	Nos.				1,58,429.12	52.00			-31.50		-4990517.20	-0.04%	
5b	Total Box Culverts					41,61,07,876.20								
6A	Bill No: 6A Minor Bridges													

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
6A,01	Structure excavation Ordinary and soft Soils - MNBR	Cum	1,10,369.76	12.1 -(I) A	97.00	1,07,05,866.55	30.00	3,56,862	0.095%	30.00	1,10,369.76	10705866.55	0.09%	3.52%
6A,02	MNBR - PCC M15 grade	Cum	3,637.27	12.8 D (ii)	4,539.00	1,65,09,567.59	30.00	5,50,319	0.146%	30.00	3,637.27	16509567.59	0.15%	
6A,03	MNBR - RCC M35 - Foundation	Cum	22,118.80	12.8.H Case II	4,588.00	10,14,81,050.97	30.00	33,82,702	0.896%	30.00	22,118.80	101481050.97	0.90%	
6A,04	HYSD bar reinforcement - Foundation	Mt	3,509.50	12.40	53,493.00	18,77,33,703.14	343.00	5,47,329	1.658%	343.00	3,509.50	187733703.14	1.66%	
6A,05	MNBR - RCC M35 Pile Cap	Cum	4,171.46	12.38.D.(ii)	4,668.00	1,94,72,378.78	20.00	9,73,619	0.172%	20.00	4,171.46	19472378.78	0.17%	
6A,06	MNBR - RCC M35 1.2m dia piles	Rm	6,238.90	12.25	10,003.60	6,24,11,470.46	313.00	1,99,398	0.551%	313.00	6,238.90	62411470.46	0.55%	
6A,07	MNBR - RCC M35- Substructure Abutment	Cum	11,845.22	13.5.H.(p). case II	5,153.00	6,10,38,418.11	36.00	16,95,512	0.539%	31.00	10,200.05	52560860.04	0.46%	1.24%
6A,08	HYSD bar reinforcement - substructure Abutment	Mt	1,293.41	13.6	53,658.00	6,94,01,555.15	36.00	19,27,821	0.613%	33.00	1,185.62	63618092.22	0.56%	
6A,09	MNBR - RCC M35 - Abutment Cap	Cum	2,858.36	13.5.H.(p). case II	5,153.00	1,47,29,107.03	24.00	6,13,713	0.130%	16.00	1,905.57	9819404.69	0.09%	
6A,10	HYSD bar reinforcement - Abutment cap	Mt	358.25	13.6	53,658.00	1,92,22,732.90	24.00	8,00,947	0.170%	18.00	268.68	14417049.68	0.13%	
6A,11	RCC M35 - RCC Girder	Cum	76.46	14.01 D Case-1(ii)r	6,530.00	4,99,291.76	64.00	7,801	0.004%	64.00	76.46	499291.76	0.00%	0.44%
6A,12	PSC M45 - PSC Girder	Cum	1,729.60	14.01 F Case-1(ii)r	6,423.00	1,11,09,241.74	162.00	68,576	0.098%	110.00	1,174.42	7543312.29	0.07%	
6A,13	PSC M50 - PSC Girder	Cum	1,351.70	14.01 G Case-1(i)r	7,757.00	1,04,85,127.04	28.00	3,74,469	0.093%	4.00	193.10	1497875.29	0.01%	
6A,14	HYSD bar reinforcement - Super structure Girder	Mt	549.07	14.2	54,788.00	3,00,82,328.76	254.00	1,18,434	0.266%	178.00	384.78	21081317.01	0.19%	
6A,15	HT Steel for PSC Girder	Mt	184.77	14.3	1,44,570.00	2,67,12,109.36	190.00	1,40,590	0.236%	33.00	32.09	4639471.63	0.04%	
6A,16	RCC M35 - SLAB	Cum	3,402.52	14.01 D Case-1(ii)r	6,530.00	2,22,18,483.48	18.00	12,34,360	0.196%	6.00	1,134.17	7406161.16	0.07%	
6A,17	HYSD bar reinforcement - SLAB	Mt	505.78	14.2	54,788.00	2,77,10,692.88	18.00	15,39,483	0.245%	6.00	168.59	9236897.63	0.08%	
6A,18	Finishing Work (10% cost of overall work)	Nos.	-	10 % progress shall be deducted f		2,77,384.31	18.00			-6.00		-1664305.88	-0.01%	
6A	Total Bill No: 6A Minor Bridges					69,15,23,125.70								
6B	Bill No. 6B : PUP													
6B,01	Structure excavation Ordinary and soft Soils - PUP	Cum	1,07,741.91	12.1 -(I) A	97.00	1,04,50,964.97	34.00	3,07,381	0.092%	34.00	1,07,741.91	10450964.97	0.09%	3.11%
6B,02	PUP - PCC M15 grade Levelling course	Cum	6,322.73	12.8 D (ii)	4,539.00	2,86,98,874.50	34.00	8,44,085	0.253%	34.00	6,322.73	28698874.50	0.25%	
6B,03	PUP - RCC M35 Raft	Cum	31,477.80	12.8.H Case II	4,588.00	14,44,20,142.64	34.00	42,47,651	1.275%	34.00	31,477.80	144420142.64	1.28%	
6B,04	HYSD bar reinforcement - RAFT	Mt	3,147.44	13.6	53,658.00	16,88,85,439.06	34.00	49,67,219	1.491%	34.00	3,147.44	168885439.06	1.49%	
6B,05	PUP RCC M35 Wall	Cum	13,104.83	13.5.H.(p). case II	5,153.00	6,75,29,211.04	68.00	9,93,077	0.596%	68.00	13,104.83	67529211.04	0.60%	1.23%
6B,06	HYSD bar reinforcement - Wall	Mt	1,309.69	13.6	53,658.00	7,02,75,315.74	68.00	10,33,461	0.621%	68.00	1,309.69	70275315.74	0.62%	
6B,07	PUP - RCC M35 - TOP Slab	Cum	11,717.68	14.01 D Case-1(ii)r	6,530.00	7,65,16,462.78	34.00	22,50,484	0.676%	34.00	11,717.68	76516462.78	0.68%	1.13%
6B,08	HYSD bar reinforcement - TOP Slab	Mt	1,171.04	14.2	54,788.00	6,41,58,991.63	34.00	18,87,029	0.567%	34.00	1,171.04	64158991.63	0.57%	
6B,09	Finishing Work (10% cost of overall work)	Nos	-	10 % progress shall be deducted f		4,13,751.34	34.00			-31.50		-13033167.10	-0.12%	
6B	TOTAL Bill No. 6B : PUP					63,09,35,402.36								
6C	Bill No. 6C : VUP													
6C,01	Structure excavation Ordinary and soft Soils - VUP	Cum	19,708.89	12.1 -(I) A	97.00	19,11,761.88	5.00	3,82,352	0.017%	5.00	19,708.89	1911761.88	0.02%	0.55%
6C,02	VUP - PCC M15 grade - Levelling course	Cum	1,053.79	12.8 D (ii)	4,539.00	47,83,145.75	5.00	9,56,629	0.042%	5.00	1,053.79	4783145.75	0.04%	
6C,03	VUP - RCC M35 - Raft	Cum	5,577.31	12.8.H Case II	4,588.00	2,55,88,702.89	5.00	51,17,741	0.226%	5.00	5,577.31	25588702.89	0.23%	
6C,04	HYSD bar reinforcement - Raft	Mt	558.30	13.6	53,658.00	2,99,57,505.82	5.00	59,91,501	0.265%	5.00	558.30	29957505.82	0.26%	
6C,05	VUP - RCC M35 - WALL	Cum	4,117.97	13.5.H.(p). case II	5,153.00	2,12,19,899.96	10.00	21,21,990	0.187%	10.00	4,117.97	21219899.96	0.19%	0.3825%
6C,06	HYSD bar reinforcement - WALL	Mt	411.75	13.6	53,658.00	2,20,93,660.54	10.00	22,09,366	0.195%	10.00	411.75	22093660.54	0.20%	
6C,07	RCC M35 - TOP SLAB	Cum	1,490.99	14.01 D Case-1(ii)r	6,530.00	97,36,189.39	5.00	19,47,238	0.086%	4.50	1,341.89	8762570.45	0.08%	0.13%
6C,08	HYSD bar reinforcement - TOP Slab	Mt	148.09	14.2	54,788.00	81,13,491.16	5.00	16,22,698	0.072%	4.50	133.28	7302142.04	0.06%	
6C,09	Finishing Work (10% cost of overall work)	Nos.	-	10 % progress shall be deducted f		3,56,993.61	5.00			-4.50		-1606471.25	-0.01%	
6C	TOTAL TOTAL Bill No. 6C : VUP					12,34,04,357.39								
6D	Bill No. 6D : LVUP													

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
6D,01	Structure excavation Ordinary and soft Soils - LVUP	Cum	23,650.66	12.1 -(I) A	97.00	22,94,114.26	8.00	2,86,764	0.020%	8.00	23,650.66	2294114.26	0.02%	0.69%
6D,02	LVUP - PCC M15 grade levelling course	Cum	1,359.73	12.8 D (ii)	4,539.00	61,71,800.97	8.00	7,71,475	0.054%	8.00	1,359.73	6171800.97	0.05%	
6D,03	LVUP - RCC M35 Raft	Cum	6,937.63	12.8.H Case II	4,588.00	3,18,29,849.93	8.00	39,78,731	0.281%	8.00	6,937.63	31829849.93	0.28%	
6D,04	HYSD bar reinforcement - Raft	Mt	695.55	13.6	53,658.00	3,73,22,059.33	8.00	46,65,257	0.330%	8.00	695.55	37322059.33	0.33%	
6D,05	LVUP - RCC M35 - Wall	Cum	4,021.08	13.5.H.(p). case II	5,153.00	2,07,20,608.19	16.00	12,95,038	0.183%	16.00	4,021.08	20720608.19	0.18%	0.37%
6D,06	HYSD bar reinforcement - WALL	Mt	402.44	13.6	53,658.00	2,15,94,368.78	16.00	13,49,648	0.191%	16.00	402.44	21594368.78	0.19%	
6D,07	LVUP - RCC M35 - Top Slab	Cum	1,815.95	14.01 D Case-1(ii)r	6,530.00	1,18,58,179.39	8.00	14,82,272	0.105%	8.00	1,815.95	11858179.39	0.10%	0.17%
6D,08	HYSD bar reinforcement - TOP Slab	Mt	179.98	14.2	54,788.00	98,61,012.33	8.00	12,32,627	0.087%	8.00	179.98	9861012.33	0.09%	
6D,09	Finishing Work (10% cost of overall work)	Nos	-	10 % progress shall be deducted f		2,71,489.90	8.00			-8.00		-2171919.17	-0.02%	
6D	TOTAL Bill No. 6D : LVUP					14,16,51,993.18								
6E	Bill No. 6E : VOP													
6E,01	Structure Excavation for foundation of VOP	Cum	2,627.85	12.1 -(I) A	97.00	2,54,901.58	6.00	42,484	0.002%	6.00	2,627.85	254901.58	0.00%	0.28%
6E,02	Foundation PCC M15 grade for levelling course	Cum	101.98	12.8 D (ii)	4,539.00	4,62,885.07	6.00	77,148	0.004%	6.00	101.98	462885.07	0.00%	
6E,03	RCC M35 - Foundation	Cum	544.13	12.8.H Case II	4,588.00	24,96,458.82	6.00	4,16,076	0.022%	6.00	544.13	2496458.82	0.02%	
6E,04	HYSD bar reinforcement - Foundation	Mt	267.52	13.6	53,658.00	1,43,54,638.21	41.00	3,50,113	0.127%	41.00	267.52	14354638.21	0.13%	
6E,05	RCC M35 Pile Cap	Cum	641.76	12.38.D.(ii)	4,668.00	29,95,750.58	6.00	4,99,292	0.026%	6.00	641.76	2995750.58	0.03%	
6E,06	RCC M35 1.2m dia piles	Rm	1,135.48	12.25	10,003.60	1,13,58,887.62	35.00	3,24,540	0.100%	35.00	1,135.48	11358887.62	0.10%	
6E,07	RCC M35 - ABUTMENT/Return Wall	Cum	145.34	13.5.H.(p). case II	5,153.00	7,48,937.65	4.00	1,87,234	0.007%	4.00	145.34	748937.65	0.01%	0.04%
6E,08	HYSD bar reinforcement - ABUTMENT/Return Wall	Mt	18.61	13.6	53,658.00	9,98,583.53	4.00	2,49,646	0.009%	4.00	18.61	998583.53	0.01%	
6E,09	RCC M35 - ABUTMENT CAP	Cum	121.12	13.5.H.(p). case II	5,153.00	6,24,114.70	4.00	1,56,029	0.006%	3.00	90.84	468086.03	0.00%	
6E,10	HYSD bar reinforcement - ABUTMENT CAP	Mt	18.61	13.6	53,658.00	9,98,583.53	4.00	2,49,646	0.009%	3.00	13.96	748937.65	0.01%	
6E,11	RCC M35 - PIER	Cum	72.67	13.5.H.(p). case II	5,153.00	3,74,468.82	2.00	1,87,234	0.003%	2.00	72.67	374468.82	0.00%	
6E,12	HYSD bar reinforcement - PIER	Mt	9.31	13.6	53,658.00	4,99,291.76	2.00	2,49,646	0.004%	2.00	9.31	499291.76	0.00%	
6E,13	RCC M35 - PIER CAP	Cum	121.12	13.5.H.(p). case II	5,153.00	6,24,114.70	2.00	3,12,057	0.006%	1.00	60.56	312057.35	0.00%	
6E,14	HYSD bar reinforcement - PIER CAP	Mt	18.61	13.6	53,658.00	9,98,583.53	2.00	4,99,292	0.009%	1.00	9.31	499291.76	0.00%	
6E,15	HYSD bar reinforcement - Super structure Girder	Mt	159.48	14.2	54,788.00	87,37,605.86	20.00	4,36,880	0.077%	5.00	39.87	2184401.47	0.02%	0.04%
6E,16	HT Steel for PSC - Girder	Mt	56.12	14.3	1,44,570.00	81,13,491.16	20.00	4,05,675	0.072%	2.00	5.61	811349.12	0.01%	
6E,17	PSC M50 / Steel Girder & Slab	Cum	933.32	14.01 G Case-1(i)r	7,757.00	72,39,730.57	20.00	3,61,987	0.064%	5.00	233.33	1809932.64	0.02%	
6E,18	Finishing Work (10% cost of overall work)	Nos	-	10 % progress shall be deducted f		3,83,830.54	4.00			0.00		0.00	0.00%	
6E	Total Bill No. 6E : VOP					6,18,81,027.69								
6F	Bill No: 6F Flyover													
6F,01	Structure excavation Ordinary and soft Soils - Flyover	Cum	2,627.85	12.1 -(I) A	97.00	2,54,901.58	8.00	31,863	0.002%	8.00	2,627.85	254901.58	0.00%	0.63%
6F,02	Flyover - PCC M15 grade - levelling course under fdn.	Cum	101.98	12.8 D (ii)	4,539.00	4,62,885.07	8.00	57,861	0.004%	8.00	101.98	462885.07	0.00%	
6F,03	HYSD bar reinforcement - Foundation	Mt	602.50	13.6	53,658.00	3,23,29,141.70	100.00	3,23,291	0.285%	100.00	602.50	32329141.70	0.29%	
6F,04	RCC M35 Pile Cap	Cum	1,925.29	12.38.D.(ii)	4,668.00	89,87,251.75	8.00	11,23,406	0.079%	8.00	1,925.29	8987251.75	0.08%	
6F,05	RCC M35 1.2m dia piles	Rm	2,907.33	12.25	10,003.60	2,90,83,745.23	92.00	3,16,128	0.257%	92.00	2,907.33	29083745.23	0.26%	

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
6F,06	RCC M35 - ABUTMENT	Cum	436.02	13.5.H.(p). case II	5,153.00	22,46,812.94	4.00	5,61,703	0.020%	4.00	436.02	2246812.94	0.02%	0.19%
6F,07	HYSB bar reinforcement - ABUTMENT	Mt	51.18	13.6	53,658.00	27,46,104.70	4.00	6,86,526	0.024%	4.00	51.18	2746104.70	0.02%	
6F,08	RCC M35 - ABUTMENT CAP	Cum	363.35	13.5.H.(p). case II	5,153.00	18,72,344.11	4.00	4,68,086	0.017%	3.00	272.51	1404258.09	0.01%	
6F,09	HYSB bar reinforcement - Abutment cap	Mt	60.48	13.6	53,658.00	32,45,396.46	4.00	8,11,349	0.029%	4.00	60.48	3245396.46	0.03%	
6F,10	RCC M35 - Pier Substructure	Cum	387.57	13.5.H.(p). case II	5,153.00	19,97,167.05	4.00	4,99,292	0.018%	4.00	387.57	1997167.05	0.02%	
6F,11	HYSB bar reinforcement - Pier Substructure	Mt	58.16	13.6	53,658.00	31,20,573.52	4.00	7,80,143	0.028%	4.00	58.16	3120573.52	0.03%	
6F,12	RCC M35 - Pier CAP	Cum	460.24	13.5.H.(p). case II	5,153.00	23,71,635.88	4.00	5,92,909	0.021%	4.00	460.24	2371635.88	0.02%	
6F,13	HYSB bar reinforcement - Pier CAP	Mt	76.77	13.6	53,658.00	41,19,157.05	4.00	10,29,789	0.036%	4.00	76.77	4119157.05	0.04%	
6F,14	RCC M35 - RCC Girder	Cum	420.54	14.01 D Case-1(ii)r	6,530.00	27,46,104.70	28.00	98,075	0.024%	21.00	315.40	2059578.53	0.02%	0.13%
6F,15	PSC M45/M50 - Girder	Cum	514.93	14.01 G Case-1(i)r	7,757.00	39,94,334.11	14.00	2,85,310	0.035%	10.00	367.81	2853095.79	0.03%	
6F,16	HYSB bar reinforcement - Girder	Mt	182.26	14.2	54,788.00	99,85,835.27	42.00	2,37,758	0.088%	31.00	134.53	7370497.46	0.07%	
6F,17	HT Steel for PSC - Girder	Mt	31.08	14.3	1,44,570.00	44,93,625.87	14.00	3,20,973	0.040%	7.00	15.54	2246812.94	0.02%	
6F,18	RCC M35 - SLAB	Cum	821.96	14.01 D Case-1(ii)r	6,530.00	53,67,386.46	6.00	8,94,564	0.047%	0.00	-	0.00	0.00%	
6F,19	HYSB bar reinforcement - SLAB	Mt	129.86	14.2	54,788.00	71,14,907.63	6.00	11,85,818	0.063%	0.00	-	0.00	0.00%	
6F,20	Finishing Work (10% cost of overall work)	Nos		10 % progress shall be deducted f		2,08,038.23	6.00			0.00		0.00	0.00%	
6F	Total Bill No: 6F Flyover					12,65,39,311.08								
6G	Bill No: 6G Major Bridges													
6G,01	Structure excavation Ordinary and soft Soils - MJB	Cum	7,883.55	12.1 -(I) A	97.00	7,64,704.75	14.00	54,622	0.007%	14.00	7,883.55	764704.75	0.01%	1.66%
6G,02	Major Bridge PCC M15 grade - Levelling course	Cum	305.94	12.8 D (ii)	4,539.00	13,88,655.22	14.00	99,190	0.012%	14.00	305.94	1388655.22	0.01%	
6G,03	HYSB bar reinforcement - Foundation	Mt	1,770.29	13.6	53,658.00	9,49,90,258.04	242.00	3,92,522	0.839%	240.00	1,755.66	94205214.58	0.83%	
6G,04	RCC M35 Pile Cap	Cum	3,716.88	12.38.D.(ii)	4,668.00	1,73,50,388.79	14.00	12,39,313	0.153%	12.00	3,185.90	14871761.82	0.13%	
6G,05	RCC M35 1.2m dia piles	Rm	7,736.24	12.25	10,003.60	7,73,90,223.37	228.00	3,39,431	0.683%	228.00	7,736.24	77390223.37	0.68%	
6G,06	RCC M35 - Abutment substructure	Cum	1,114.27	13.5.H.(p). case II	5,153.00	57,41,855.28	4.00	14,35,464	0.051%	3.00	835.71	4306391.46	0.04%	0.25%
6G,07	HYSB bar reinforcement - Abutment Substructure	Mt	141.90	13.6	53,658.00	76,14,199.40	4.00	19,03,550	0.067%	4.00	141.90	7614199.40	0.07%	
6G,08	RCC M35 - ABUTMENT CAP	Cum	193.79	13.5.H.(p). case II	5,153.00	9,98,583.53	4.00	2,49,646	0.009%	1.00	48.45	249645.88	0.00%	
6G,09	HYSB bar reinforcement - ABUTMENT CAP	Mt	27.92	13.6	53,658.00	14,97,875.29	4.00	3,74,469	0.013%	1.00	6.98	374468.82	0.00%	
6G,10	RCC M35 - Pier Substructure	Cum	2,204.33	13.5.H.(p). case II	5,153.00	1,13,58,887.62	10.00	11,35,889	0.100%	4.00	881.73	4543555.05	0.04%	
6G,11	HYSB bar reinforcement - Pier Substructure	Mt	330.33	13.6	53,658.00	1,77,24,857.61	10.00	17,72,486	0.157%	4.00	132.13	7089943.04	0.06%	
6G,12	RCC M35 - Pier CAP	Cum	1,453.40	13.5.H.(p). case II	5,153.00	74,89,376.46	10.00	7,48,938	0.066%	2.00	290.68	1497875.29	0.01%	
6G,13	HYSB bar reinforcement - Pier CAP	Mt	218.67	13.6	53,658.00	1,17,33,356.45	10.00	11,73,336	0.104%	2.00	43.73	2346671.29	0.02%	
6G,14	PSC M45/M50 - Girder	Cum	3,121.78	14.01 G Case-1(i)r	7,757.00	2,42,15,650.54	84.00	2,88,282	0.214%	30.00	1,114.92	8648446.62	0.08%	0.20%
6G,15	HYSB bar reinforcement -Girder	Mt	469.33	14.2	54,788.00	2,57,13,525.83	84.00	3,06,113	0.227%	30.00	167.62	9183402.08	0.08%	
6G,16	HT Steel for PSC -Girder	Mt	187.36	14.3	1,44,570.00	2,70,86,578.18	84.00	3,22,459	0.239%	15.00	33.46	4836888.96	0.04%	
6G,17	RCC M35 - SLAB	Cum	2,580.57	14.01 D Case-1(ii)r	6,530.00	1,68,51,097.02	12.00	14,04,258	0.149%	0.00	-	0.00	0.00%	
6G,18	HYSB bar reinforcement - SLAB	Mt	398.70	14.2	54,788.00	2,18,44,014.66	12.00	18,20,335	0.193%	0.00	-	0.00	0.00%	
6G,19	Finishing Work (10% cost of overall work)	Nos.	-	10 % progress shall be deducted f		3,22,459.26	12.00			0.00		0.00	0.00%	

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
6G	Total Bill No: 6G Major Bridges					37,17,54,088.04								
6H	Bill No. 6H : ROB													
6H,01	Structural Excavation in ROB foundation	Cum	5,255.70	12.1 -(I) A	97.00	5,09,803.17	6.00	84,967	0.005%	6.00	5,255.70	509803.17	0.00%	0.83%
6H,02	ROB - Foundation PCC M15 grade Levelling course	Cum	237.95	12.8 D (ii)	4,539.00	10,80,065.17	6.00	1,80,011	0.010%	6.00	237.95	1080065.17	0.01%	
6H,03	HYSD bar reinforcement - Foundation	Mt	814.19	13.6	53,658.00	4,36,88,029.32	86.00	5,08,000	0.386%	85.00	804.73	43180028.98	0.38%	
6H,04	RCC M35 Pile Cap	Cum	2,700.75	12.38.D.(ii)	4,668.00	1,26,07,117.03	6.00	21,01,186	0.111%	5.00	2,250.63	10505930.86	0.09%	
6H,05	RCC M35 1.2m dia piles	Rm	3,855.64	12.25	10,003.60	3,85,70,288.74	80.00	4,82,129	0.341%	80.00	3,855.64	38570288.74	0.34%	
6H,06	RCC M35 - ABUTMENT/Return Wall	Cum	2,058.99	13.5.H.(p). case II	5,153.00	1,06,09,949.98	4.00	26,52,487	0.094%	3.00	1,544.24	7957462.48	0.07%	0.19%
6H,07	HYSD bar reinforcement -ABUTMENT/Return Wall	Mt	304.74	13.6	53,658.00	1,63,51,805.26	4.00	40,87,951	0.144%	3.00	228.56	12263853.95	0.11%	
6H,08	RCC M35 - ABUTMENT CAP	Cum	387.57	13.5.H.(p). case II	5,153.00	19,97,167.05	4.00	4,99,292	0.018%	0.00	-	0.00	0.00%	
6H,09	HYSD bar reinforcement - ABUTMENT CAP	Mt	65.14	13.6	53,658.00	34,95,042.35	4.00	8,73,761	0.031%	0.00	-	0.00	0.00%	
6H,10	RCC M35 - PIER	Cum	218.01	13.5.H.(p). case II	5,153.00	11,23,406.47	2.00	5,61,703	0.010%	1.00	109.01	561703.23	0.00%	
6H,11	HYSD bar reinforcement - PIER	Mt	32.57	13.6	53,658.00	17,47,521.17	2.00	8,73,761	0.015%	1.00	16.28	873760.59	0.01%	0.00%
6H,12	RCC M35 - PIER CAP	Cum	266.46	13.5.H.(p). case II	5,153.00	13,73,052.35	2.00	6,86,526	0.012%	0.00	-	0.00	0.00%	
6H,13	HYSD bar reinforcement - Pier CAP	Mt	46.53	13.6	53,658.00	24,96,458.82	2.00	12,48,229	0.022%	0.00	-	0.00	0.00%	
6H,14	RCC M35 - SLAB	Cum	740.22	14.01 G Case-1(i)r	7,757.00	57,41,855.28	4.00	14,35,464	0.051%	0.00	-	0.00	0.00%	
6H,15	HYSD bar reinforcement - SLAB	Mt	111.64	14.2	54,788.00	61,16,324.10	4.00	15,29,081	0.054%	0.00	-	0.00	0.00%	
6H,16	Providing and Fixing Steel Girder for Superstructure as per Technical Specification	Mt	1,543.86	Quotation	86,250.00	13,31,58,157.04	40.00	33,28,954	1.176%	0.00	-	0.00	0.00%	0.00%
6H,17	Finishing Work (10% cost of overall work)	Nos.	-	10 % progress shall be deducted f		12,08,469.47	4.00			0.00		0.00	0.00%	
6H	Total Bill No. 6H : ROB					28,06,66,043.30								
6I	Bill No. 6I : Interchange													
6I,01	Structure Excavation for foundation of Interchange	Cum	31,534.22	12.1 -(I) A	97.00	30,58,819.02	24.00	1,27,451	0.027%	24.00	31,534.22	3058819.02	0.03%	5.24%
6I,02	Foundation PCC M15 grade for levelling course	Cum	1,291.74	12.8 D (ii)	4,539.00	58,63,210.92	24.00	2,44,300	0.052%	24.00	1,291.74	5863210.92	0.05%	
6I,03	HYSD bar reinforcement - Foundation	Mt	4,994.50	13.6	53,658.00	26,79,94,854.15	304.00	8,81,562	2.366%	304.00	4,994.50	267994854.15	2.37%	
6I,04	RCC M35 Pile Cap	Cum	15,268.62	12.38.D.(ii)	4,668.00	7,12,73,899.26	24.00	29,69,746	0.629%	24.00	15,268.62	71273899.26	0.63%	
6I,05	RCC M35 1.2m dia piles	Rm	24,518.88	12.25	10,003.60	24,52,77,078.90	280.00	8,75,990	2.166%	280.00	24,518.88	245277078.90	2.17%	
6I,06	RCC M35 - ABUTMENT/Return Wall	Cum	4,214.86	13.5.H.(p). case II	5,153.00	2,17,19,191.72	26.00	8,35,354	0.192%	26.00	4,214.86	21719191.72	0.19%	1.24%
6I,07	HYSD bar reinforcement - ABUTMENT/Return Wall	Mt	502.47	13.6	53,658.00	2,69,61,755.24	26.00	10,36,991	0.238%	26.00	502.47	26961755.24	0.24%	
6I,08	RCC M35 - ABUTMENT CAP	Cum	702.48	13.5.H.(p). case II	5,153.00	36,19,865.29	8.00	4,52,483	0.032%	8.00	702.48	3619865.29	0.03%	
6I,09	HYSD bar reinforcement - ABUTMENT CAP	Mt	113.99	13.6	53,658.00	61,16,324.10	8.00	7,64,541	0.054%	8.00	113.99	6116324.10	0.05%	
6I,10	RCC M35 - PIER	Cum	3,851.51	13.5.H.(p). case II	5,153.00	1,98,46,847.61	54.00	3,67,534	0.175%	54.00	3,851.51	19846847.61	0.18%	
6I,11	HYSD bar reinforcement - PIER	Mt	535.04	13.6	53,658.00	2,87,09,276.41	54.00	5,31,653	0.254%	54.00	535.04	28709276.41	0.25%	0.67%
6I,12	RCC M35 - PIER CAP	Cum	2,349.67	13.5.H.(p). case II	5,153.00	1,21,07,825.27	16.00	7,56,739	0.107%	16.00	2,349.67	12107825.27	0.11%	
6I,13	HYSD bar reinforcement - Pier CAP	Mt	388.49	13.6	53,658.00	2,08,45,431.13	16.00	13,02,839	0.184%	16.00	388.49	20845431.13	0.18%	
6I,14	RCC M35 - RCC Girder	Cum	273.56	14.01 G Case-1(i)r	7,757.00	21,21,990.00	130.00	16,323	0.019%	128.00	269.35	2089344.00	0.02%	
6I,15	PSC M45/M50 - PSC Girder	Cum	2,526.39	14.01 G Case-1(i)r	7,757.00	1,95,97,201.72	16.00	12,24,825	0.173%	14.00	2,210.59	17147551.51	0.15%	
6I,16	HYSD bar reinforcement Girder	Mt	795.12	14.2	54,788.00	4,35,63,206.38	146.00	2,98,378	0.385%	142.00	773.34	42369693.88	0.37%	0.67%
6I,17	HT Steel for PSC Girder	Mt	260.75	14.3	1,44,570.00	3,76,96,528.16	16.00	23,56,033	0.333%	6.00	97.78	14136198.06	0.12%	
6I,18	RCC M35 - SLAB	Cum	2,637.91	4.01 D Case-1(ii)	6,530.00	1,72,25,565.85	20.00	8,61,278	0.152%	0.00	-	0.00	0.00%	
6I,19	PSC M45/M50 - SLAB	Cum	1,818.36	4.01 G Case-1(i)	7,757.00	1,41,04,992.32	20.00	7,05,250	0.125%	0.00	-	0.00	0.00%	
6I,20	HYSD bar reinforcement - SLAB	Mt	414.65	14.2	54,788.00	2,27,17,775.25	20.00	11,35,889	0.201%	0.00	-	0.00	0.00%	
6I,21	Finishing Work (10% cost of overall work)	Nos	-	10 % progress shall be deducted f		2,70,241.67	20.00			0.00		0.00	0.00%	

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
6I	Total Bill No. 6I : Interchange					89,04,21,638.70								
7	Reinforced Earth Wall													
7.01	PCC For RE Wall Foundation	Cum	547.47	12.8 D (ii)	4,539.00	24,84,961.97	565.20	4,397	0.022%	225.60	218.52	991874.42	0.01%	0.13%
7.02	Providing RCC Facia Panel / Block	Sqm	25,463.88	7.5 (i)	915.00	2,32,99,450.15	23,550.00	989	0.206%	4,648.00	5,025.74	4598549.65	0.04%	
7.03	Filter media behind RE walls	Cum	15,276.24	13.1	586.00	89,51,875.20	14,130.00	634	0.079%	2,789	3,015.03	1766807.47	0.02%	
7.04	Construction of embankment with Reinforced Earth	Cum	1,51,009.10	RA	245.10	3,70,12,330.39	6,77,290	55	0.327%	1,25,304	27,937.88	6847573.49	0.06%	
7.05	RCC crash barrier with friction slab M 40	Rmt	3,412.73	14.1 Case-ii (ii-p)	5,714.00	1,95,00,349.01	9,420.00	2,070	0.172%	-	-	0.00	0.00%	
7	Total Amount Reinforced Earth Wall					9,12,48,966.72							0.00%	
8	Service roads/ Slip Roads													
8.01	Construction of Subgrade	Cum	35,854.12	RA	245.10	87,87,843.81	4.385	20,04,069	0.078%	0.00	-	0.00	0.00%	0.00%
8.02	Construction of GSB	Cum	14,337.77	4.1-A-(i)	1,332.00	1,90,97,909.96	4.385	43,55,282	0.169%	0.00	-	0.00	0.00%	
8.03	Constructing Wet Mix Macadam base	Cu.m.	17,857.62	4.12	1,384.00	2,47,14,942.30	4.385	56,36,247	0.218%	0.00	-	0.00	0.00%	
8.04	Primer coat - Connecting road	Sqm	65,696.28	5.1	19.00	12,48,229.41	4.385	2,84,659	0.011%	0.00	-	0.00	0.00%	
8.05	Tack coat -1 - Connecting road	Sqm	71,327.39	5.2	7.00	4,99,291.76	4.385	1,13,864	0.004%	0.00	-	0.00	0.00%	
8.06	Tack coat -2 - Connecting road	Sqm	71,327.39	5.2	7.00	4,99,291.76	4.385	1,13,864	0.004%	0.00	-	0.00	0.00%	
8.07	Dense Bituminous Macadam course- Connecting road	Cu.m.	3,928.72	5.6(b)	6,033.00	2,37,01,953.48	4.385	54,05,235	0.209%	0.00	-	0.00	0.00%	
8.08	Bituminous Concrete - Connecting Road	Cu.m.	2,624.02	5.8(ii)	7,117.00	1,86,75,155.33	4.385	42,58,872	0.165%	0.00	-	0.00	0.00%	
8	Total Service roads/ Slip Roads					9,72,24,617.81								
9	Bill No.9: Toll Plaza													
9.01	Clearing and grubbing - Toll Plaza	Hec	5.47	2.3 (ii) A	22,950.00	1,25,644.14	9.00	13,960	0.001%	0.00	-	0.00	0.00%	0.00%
9.02	Construction of embankment - Toll Plaza	Cum	1,09,110.96	RA	223.10	2,43,42,655.70	9.00	27,04,740	0.215%	0.00	-	0.00	0.00%	
9.03	Construction of Subgrade - Toll Plaza	cum	36,661.28	RA	245.10	89,85,680.55	9.00	9,98,409	0.079%	0.00	-	0.00	0.00%	
9.04	Constructing Grannular Sub-base - Toll Plaza	Cu.m.	14,525.19	4.1-A-(i)	1,332.00	1,93,47,555.84	9.00	21,49,728	0.171%	0.00	-	0.00	0.00%	
9.05	Providing xxx mm thick DLC (M15) for Toll plaza	cum	10,424.07	6.1	2,347.00	2,44,65,296.42	9.00	27,18,366	0.216%	0.00	-	0.00	0.00%	
9.06	Providing xxx mm thick PQC for Toll plaza	cum	20,893.29	6.2	6,413.00	13,39,88,698.27	9.00	1,48,87,633	1.183%	0.00	-	0.00	0.00%	
9.07	Providing and fixing of Tool booth	Nos.	44.94	Lamsum	1,00,000.00	44,93,625.87	9.00	4,99,292	0.040%	0.00	-	0.00	0.00%	
9.08	Roof over Toll plaza	Sq.m	3,571.86	Lamsum	6,500.00	2,32,17,067.01	9.00	25,79,674	0.205%	0.00	-	0.00	0.00%	
9.09	Operation & Office building at toll plaza	Sq.m	2.01	Lamsum	20,00,000.00	40,23,419.07	2.00	20,11,710	0.036%	0.00	-	0.00	0.00%	
9.10	Toll plaza sign boards	LS	9.00	Lamsum	15,00,000.00	1,35,04,647.88	9.00	15,00,516	0.119%	0.00	-	0.00	0.00%	
9.11	Toll Plaza Facilities	LS	9.00	Lamsum	20,00,000.00	1,80,08,985.07	9.00	20,00,998	0.159%	0.00	-	0.00	0.00%	
9	Total Toll Plaza					27,45,03,275.82								
10	DRAINAGE													
10.01	Drain Excavation	Cu.m.	80,149.47	12.1 -(I) A	97.00	77,74,498.33	30.52	2,54,737	0.069%	5.50	14,443.82	1401050.88	0.01%	0.123%
10.02	Drain Lining	cum	11,999.59	12.8 D (ii)	4,539.00	5,44,66,143.54	30.52	17,84,619	0.481%	4.60	1,808.60	8209246.59	0.07%	
10.03	RCC M 20 Grade Dain	Cum	4,802.48	12.8 E (case-ii)	4,503.00	2,16,25,574.51	30.52	7,08,576	0.191%	3.00	472.07	2125728.29	0.02%	
10.04	HYS D bar reinforcement	Mt	200.06	13.6	53,658.00	1,07,34,772.92	30.52	3,51,732	0.095%	3.00	19.67	1055195.57	0.01%	
10.05	Construction of chute lined drain in shoulder	L.M.	23,466.71	Lamsum	1,500.00	3,52,00,069.34	30.52	11,53,353	0.311%	1.00	768.90	1153353.30	0.01%	
10.06	Construction of energy dissipation basin and sumps	Nos.	1,043.97	Lamsum	5,500.00	57,41,855.28	30.52	1,88,136	0.051%	0.00	-	0.00	0.00%	
10	Total : DRAINAGE					13,55,42,913.92								
11	Bill No. 11: Traffic signs, Road markings and other road appurtunences													
11.01a	Providing Kerb M-20 grade	L.M.	63,846.22	8.1 (B)	175.00	1,11,73,087.96	30.52	3,66,094	0.099%	6.00	12,551.78	2196561.22	0.02%	0.02%
11.04a	Painting on Kerbs	Sq.m	34,042.62	14.16	44.00	14,97,875.29	30.52	49,079	0.013%	0.00	-	0.00	0.00%	
11.02a	Supplying & Fixing Sign Boards	KM	31.97	Lamsum	12,00,000.00	3,83,62,250.51	32.00	11,98,820	0.339%	0.00	-	0.00	0.00%	
11.03a	Pavement marking	Sq.m	67,404.39	8.13	383.00	2,58,15,880.64	32.00	8,06,746	0.228%	0.00	-	0.00	0.00%	
11	Traffic signs, Road markings and other road appurtunences					7,68,49,094.40								
11.04	Providing and erecting " Thrie " metal beam crash barrier	L.M.	38,905.85	8.23 B	3,465.00	13,48,08,776.19	30.52	44,17,098	1.190%	0.00	-	0.00	0.00%	0.00%
12	Project facilities											0.00	0.00%	

Construction of Eight Lane Vadodara Kim Expressway from Km. 323+000 to Km. 355+000 (Sanpa to Padra section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on EPC Mode Project.														
Item No,	Description	Unit	Quantity	SOR Item No. (year 2015-2016)	SOR Rate(Rs) including Lead (year 2015-2016)	Amount(Rs)	Physical Progress Quantity Km/No	Rate in Rs.	Weightage in percentage to the Contract Price	Qty in Nos/km/m	Qty in cum/sqm/m	Amount (Rs.)	Physical Progress%	Physical Progress (Progressive) %
1	2	3	4	5	8 = 6+7	9 = 4x8	10	11 = 9/10	12	14a (Actual Qty. to be input here)	14 (=14a*4/10)	15	16	17
12.01	Wayside Amenities/Service Area	LS	2.00	Lamsum	5,00,00,000.00	9,99,83,175.68	2.00	4,99,91,588	0.883%	0.15	0.15	7498738.18	0.07%	0.07%
12.02	Providing operational and maintenance Center	No.	2.00	Lamsum	2,50,00,000.00	5,00,53,999.31	2.00	2,50,27,000	0.442%	0.00	-	0.00	0.00%	0.00%
12.03	Providing lighting including all	Nos	2,348.59	8.27 (ii)	3,697.00	86,82,743.30	30.52	2,84,496	0.077%	0.00	-	0.00	0.00%	0.00%
12.04	Providing Advanced Traffic Management Systems (ATMS)	Km.	32.02	Lamsum	20,00,000.00	6,40,34,168.69	30.52	20,98,121	0.565%	0.00	-	0.00	0.00%	0.00%
12.05	Providing & Placing Noise Barrier	Km	9.31	Lamsum	35,26,344.09	3,28,28,433.46	9.30	35,29,939	0.290%	0.00	-	0.00	0.00%	0.00%
12.06	Providing Rain Water Harvesting	Nos	63.55	Lamsum	1,10,000.00	69,90,084.69	64.00	1,09,220	0.062%	0.00	-	0.00	0.00%	0.00%
12.07	Providing Chain Link Fencing in ROW	L.M.	53,923.51	Lamsum	2,500.00	13,48,08,776.19	30.52	44,17,098	1.190%	1.00	1,766.84	4417097.74	0.04%	0.04%
12.08	Providing min 600 mm dia NP4 pipes across the road for utility work	Nos.	6,383.80	Lamsum	3,500.00	2,23,43,306.42	64.00	3,49,114	0.197%	48.60	4,847.70	16966948.32	0.15%	0.15%
12	Project facilities					41,97,24,687.74								
13	Land Scaping and Tree plantation													
	Land Scaping and Tree plantation	LS	20,546.32	11.9	804.00	1,65,19,241.28	30.52	5,41,264	0.146%	0.00	-	0.00	0.00%	0.000%
13	Environmental Plan					1,65,19,241.28								
14	PROTECTION WORKS													
I	Boulder pitchin on slopes													
A	Providing and laying stone pitching on embankment slopes	cum	20,190.56	15.4	1,015.00	2,04,93,417.23	20,190.6	1,015	0.181%	0.00	-	0.00	0.00%	0.00%
B	Providing and laying filter media underneath stone pitching	cum	10,011.40	15.50	729.00	72,98,307.89	10,011.4	729	0.064%	0.00	-	0.00	0.00%	0.00%
II	Toe/Retaining wall													
A	Excavation of Retaining Wall + Toe Wall	Cu.m.	52,557.03	12.1 -(I) A	97.00	50,98,031.69	3.305	15,42,521	0.045%	3.05	48,501.95	4704688.85	0.04%	0.00%
B	M-15 PCC Retaining Wall + Toe Wall	Cu.m.	2,923.41	12.8 D (ii)	4,539.00	1,32,69,372.08	3.305	40,14,939	0.117%	3.05	2,697.85	12245562.74	0.11%	0.00%
C	M-25 Retaining Wall + Toe Wall	Cum	57,142.97	13.5 (q) Case-ii	5,156.00	29,46,29,151.80	3.305	8,91,46,491	2.602%	2.78	48,065.80	247827244.18	2.19%	4.10%
D	HYSO - Retaining Wall + Toe Wall	MT	4,412.93	13.6	53,658.00	23,67,89,118.92	3.305	7,16,45,724	2.091%	2.78	3,711.94	199175113.65	1.76%	0.00%
14	Total : PROTECTION WORKS					57,75,77,399.61				1250.00				
15	MISCELLANEOUS WORKS													
15.01	Overhead Signs	Nos	1.00	Lamsum	1,79,01,663.90	1,78,49,680.55	32.00	5,57,803	0.158%	0.00	-	0.00	0.00%	0.00%
15.02	Traffic Aid Booth	Sqm	77.27	Lamsum	21,000.00	16,22,698.23	2.00	8,11,349	0.014%	0.00	-	0.00	0.00%	0.000%
15.03	Medical Aid Booth	Sqm	77.27	Lamsum	21,000.00	16,22,698.23	2.00	8,11,349	0.014%	0.00	-	0.00	0.00%	0.000%
15.04	(d) Emergency Cross Over	No.	6.00	Lamsum	3,32,790.86	19,96,956.10	6.00		0.018%	0.00	-	0.00	0.00%	0.000%
15.05	Wearing Coarse	Sqm	8,559.29	Lamsum	350.00	29,95,750.58	32.00	93,617	0.026%	0.00	-	0.00	0.00%	0.000%
15.06	Kerb	Km	4.33	Lamsum	30,00,000.00	1,29,81,585.86	32.00	4,05,675	0.115%	0.00	-	0.00	0.00%	0.00%
15	Total Bill No.15 : MISCELLANEOUS WORKS					3,90,69,369.55								
	Total Amount					11,32,45,62,742			100.00%				61.81%	61.81%

STRUCTURE PROGRESS CHART AS ON 30.11.2020

Construction of Eight Lane of Vadodara Kim Expressway from Km 323.000 to Km 355.000 (Sanpa to Padra section of Vadodara Mumbai Expressway) Package II

SR.NO	PROGRESS CHART FOR PIPE CULVERTS												Abstract					
	LHS					Pipe Culvert Design Chainage	Pipe Culvert CA Chainage	Dimension	RHS					SR.No	Type Of Structure	Total No. of Structure as per CA	No of Work in progress of structure	
	Finishing		Pipe Laying	Finishing					Foundation		Pipe Laying	Finishing						
	Chamber	Cradle		PCC	Excavation	Excavation	PCC	Cradle	Chamber									
1		Done	Done	Done	Done	324+069	324+069	1X1.2	Done	Done	Done	Done		1	HPC	42	0	
2		Done	Done	Done	Done	324+715	324+719	1X1.2	Done	Done	Done	Done		2	BOX Culvert	52	12	
3		Done	Done	Done	Done	333+850	325+219	1X1.2	Done	Done	Done	Done		3	flyover Bridge	1	1	
4		Done	Done	Done	Done	325+619	325+619	1X1.2	Done	Done	Done	Done		4	ROB	1	1	
5		Done	Done	Done	Done	326+119	326+119	1X1.2	Done	Done	Done	Done		5	MJB	1	1	
6		Done	Done	Done	Done	327+119	327+119	1X1.2	Done	Done	Done	Done		6	MNB	9	6	
7		Done	Done	Done	Done	327+994	327+994	1X1.2	Done	Done	Done	Done		8	Interchange	2	2	
8		Done	Done	Done	Done	328+419	328+419	1X1.2	Done	Done	Done	Done		9	VOP	2	2	
9		Done	Done	Done	Done	329+509	329+509	1X1.2	Done	Done	Done	Done		10	LVUP	8	0	
10		Done	Done	Done	Done	330+068	330+068	1X1.2	Done	Done	Done	Done		11	VUP	5	0.5	
11		Done	Done	Done	Done	331+118	331+118	1X1.2	Done	Done	Done	Done		12	P/CUP	34	0	
12		Done	Done	Done	Done	331+719	331+719	1X1.2	Done	Done	Done	Done		Total		157	25.5	
13		Done	Done	Done	Done	332+050	332+050	2X1.2	Done	Done	Done	Done		1	Utility Duct	61		
14		Done	Done	Done	Done	332+158	332+294	1X1.2	Done	Done	Done	Done		2	RE- Block	Aprox 9 lakh NOS		454389 Nos.
15		Done	Done	Done	Done	333+119	333+119	1X1.2	Done	Done	Done	Done						
16		Done	Done	Done	Done	333+360	333+360	1X1.2	Done	Done	Done	Done			COS HPC			
17		Done	Done	Done	Done	333+810	333+810	1X1.2	Done	Done	Done	Done			COS HPC			
18		Done	Done	Done	Done	334+310	334+310	1X1.2	Done	Done	Done	Done			COS HPC			
19		Done	Done	Done	Done	334+168	334+168	1X1.2	Done	Done	Done	Done						
20		Done	Done	Done	Done	334+719	334+719	1X1.2	Done	Done	Done	Done						
21		Done	Done	Done	Done	337+308	337+308	1X1.2	Done	Done	Done	Done						
22		Done	Done	Done	Done	337+593	337+593	1X1.2	Done	Done	Done	Done						
23		Done	Done	Done	Done	338+243	338+243	1X1.2	Done	Done	Done	Done						
24		Done	Done	Done	Done	338+669	338+669	1X1.2	Done	Done	Done	Done						
25		Done	Done	Done	Done	339+179	339+179	1X1.2	Done	Done	Done	Done						
26		Done	Done	Done	Done	340+080	340+080	1X1.2	Done	Done	Done	Done						
27		Done	Done	Done	Done	340+718	340+718	1x1.2	Done	Done	Done	Done						
28		Done	Done	Done	Done	341+468	341+468	1x1.2	Done	Done	Done	Done						
29		Done	Done	Done	Done	341+925	341+925	1x1.2	Done	Done	Done	Done						
30		Done	Done	Done	Done	342+869	342+869	1x1.2	Done	Done	Done	Done						
31		Done	Done	Done	Done	343+280	343+280	1x1.2	Done	Done	Done	Done						
32		Done	Done	Done	Done	343+990	343+994	1x1.2	Done	Done	Done	Done						
33		Done	Done	Done	Done	344+768	344+768	1x1.2	Done	Done	Done	Done						
34		Done	Done	Done	Done	346+549	346+549	1x1.2	Done	Done	Done	Done						
35		Done	Done	Done	Done	347+169	347+169	1x1.2	Done	Done	Done	Done						
36		Done	Done	Done	Done	348+143	348+143	1x1.2	Done	Done	Done	Done						
37		Done	Done	Done	Done	348+869	348+869	1x1.2	Done	Done	Done	Done						
38		Done	Done	Done	Done	349+668	349+668	1x1.2	Done	Done	Done	Done						
39		Done	Done	Done	Done	350+068	350+068	1x1.2	Done	Done	Done	Done						
40		Done	Done	Done	Done	350+443	350+443	1x1.2	Done	Done	Done	Done						
41		Done	Done	Done	Done	351+119	351+119	1x1.2	Done	Done	Done	Done						
42		Done	Done	Done	Done	351+619	351+619	1x1.2	Done	Done	Done	Done						
43		Done	Done	Done	Done	352+494	352+494	1x1.2	Done	Done	Done	Done						
44		Done	Done	Done	Done	352+868	352+868	1x1.2	Done	Done	Done	Done						
45		Done	Done	Done	Done	354+467	354+467	1x1.2	Done	Done	Done	Done						
46		Done	Done	Done	Done	354+754	354+754	1x1.2	Done	Done	Done	Done						
		46	46	46	46	46	46	46	46	46	46	46						

SR.NO	PROGRESS CHART FOR BOX CULVERTS																	
	LHS									Box Culvert Design Chainage	Box Culvert CA Chainage	Dimension	RHS					
	Finishing			Super-Structure	Sub-Structure	Foundation			Foundation				Sub-Structure	Super-Structure	Finishing			
	Apron	Curtain Wall	Retaining Wall			Raft	PCC	Excavation	Excavation						PCC	Raft	Retaining Wall	Curtain Wall
1									323+038	323+057	1X2X2							
2									323+087	323+087	1X2X2							
3									323+087	323+087	1X2X2							
4									323+087	323+087	1X2X2							
5									323+087	323+087	1X2X2							
6			Done	Done	Done	Done	Done	Done	332+659	323+367	1X3X3	Done	Done	Done	Done	Done	Done	
7				Done	Done	Done	Done	Done	324+164	324+160	1X2X2	Done	Done	Done	Done	Done		
8				Done	Done	Done	Done	Done	324+236	324+259	1X3X3	Done	Done	Done	Done	Done		
9									324+254	324+273	1X3X3	Done	Done	Done	Done			
10				Done	Done	Done	Done	Done	324+987	325+005	1X3X3	Done	Done	Done	Done	Done		
11			Done	Done	Done	Done	Done	Done	326+292	326+310	1X4X3	Done	Done	Done	Done	Done	Done	
12				Done	Done	Done	Done	Done	326+848	326+867	1X3X3	Done	Done	Done	Done	Done		
13				Done	Done	Done	Done	Done	326+957	326+982	1X2X2	Done	Done	Done	Done	Done		
14									326+957	326+982	1X2X2							
15			Done	Done	Done	Done	Done	Done	330+242	330+260	1X2X2	Done	Done	Done	Done	Done	Done	
16				Done	Done	Done	Done	Done	330+853	330+872	2X4X3	Done	Done	Done	Done	Done		
17			Done	Done	Done	Done	Done	Done	331+840	331+859	1X2X2	Done	Done	Done	Done	Done	Done	
18			Done	Done	Done	Done	Done	Done	333+661	333+670	1X5X3	Done	Done	Done	Done	Done	Done	
19			Done	Done	Done	Done	Done	Done	335+074	335+093	1X2X2	Done	Done	Done	Done	Done	Done	
20		Done	Done	Done	Done	Done	Done	Done	335+664	335+684	1X2X2	Done	Done	Done	Done	Done	Done	
21		Done	Done	Done	Done	Done	Done	Done	339+352	339+345	1X2X2	Done	Done	Done	Done	Done	Done	
22			Done	Done	Done	Done	Done	Done	339+700	339+700	1X2X2	Done	Done	Done	Done	Done	Done	
23			Done	Done	Done	Done	Done	Done	339+848	339+852	1X2X2	Done	Done	Done	Done	Done	Done	
24			Done	Done	Done	Done	Done	Done	339+941	339+934	1X2X2	Done	Done	Done	Done	Done	Done	
25					Done	Done	Done	Done	341+171	341+193	1x6x3	Done	Done	Done	Done	Done		
26				Done	Done	Done	Done	Done	342+620	342+620	1X4X3	Done	Done	Done	Done	Done		
27									344+440	344+347	1x2x2							
28				Done	Done	Done	Done	Done	345+474	345+494	1x4x3	Done	Done	Done	Done	Done		
29				Done	Done	Done	Done	Done	345+966	346+000	1x3x3	Done	Done	Done	Done	Done		
30									346+776	346+800	2x3x3							
31				Done	Done	Done	Done	Done	346+800	346+800	2x3x3	Done	Done	Done	Done	Done		
32				Done	Done	Done	Done	Done	347+468	347+468	1x2x2	Done	Done	Done	Done	Done		
33					Done	Done	Done	Done	347+537	347+556	2x3x2	Done	Done	Done	Done			
34				Done	Done	Done	Done	Done	347+900	347+940	1x2x2	Done	Done	Done	Done	Done		
35				Done	Done	Done	Done	Done	349+220	349+220	1x5x3	Done	Done	Done	Done	Done		
36				Done	Done	Done	Done	Done	349+445	349+463	1x5x3	Done	Done	Done	Done	Done		
37				Done	Done	Done	Done	Done	349+460(0+535)	349+463	1x2x2	Done	Done	Done	Done	Done		
38				Done	Done	Done	Done	Done	349+460(0+831)	349+463	1x2x2	Done	Done	Done	Done	Done		
39				Done	Done	Done	Done	Done	349+809	349+832	1x2x2	Done	Done	Done	Done	Done		
40					Done	Done	Done	Done	351+009	351+009	1x3x3	Done	Done	Done	Done	Done		
41						Done	Done	Done	351+265	351+718	1x3x3	Done	Done					
42				Done	Done	Done	Done	Done	353+690 (0+407)L-1	353+690 (0+407)L-1	1x2x2	Done	Done	Done	Done	Done		
43				Done	Done	Done	Done	Done	353+690(0+454)	353+690	1x2x2	Done	Done	Done	Done	Done		
44									353+690	353+690	1x2x2							
45				Done	Done	Done	Done	Done	353+690(0+684)	353+690	1x2x2	Done	Done	Done	Done	Done		
46									353+690	353+690	1x2x2							
47									353+690	353+690	1x2x2							
48									353+690	353+690	1x2x2							
49									353+690	353+690	1x2x2							
50									353+690	353+690	1x2x2							
51									353+690	353+690	1x2x2							
52									353+690	353+690	1x2x2							
			11	31	34	36	36	36	52	52		36	36	35	35	33	11	

SR.NO	PROGRESS CHART FOR CUP/PUP																		
	LHS								Design Chainage	CA Chainage	RHS								
	Finishing			Super Structure	Sub Structure	Foundation					Dimension	Foundation			Sub Structure	Super Structure	Finishing		
	WC inside Str.	Approach Slab	Crash Barrier			Raft	PCC	Excavation				Excavation	PCC	Raft			Crash Barrier	Approach Slab	WC inside Str.
1				Done	Done	Done	Done	Done	323+683	323+700	1X12	Done	Done	Done	Done	Done			
2				Done	Done	Done	Done	Done	324+410	324+410	1X12	Done	Done	Done	Done	Done			
3				Done	Done	Done	Done	Done	324+900	324+900	1X12	Done	Done	Done	Done	Done			
4				Done	Done	Done	Done	Done	326+381	326+400	1X12	Done	Done	Done	Done	Done			
5				Done	Done	Done	Done	Done	327+575	327+550	1X12	Done	Done	Done	Done	Done			
6				Done	Done	Done	Done	Done	328+175	328+150	1X12	Done	Done	Done	Done	Done			
7				Done	Done	Done	Done	Done	328+856	328+800	1X12	Done	Done	Done	Done	Done			
8				Done	Done	Done	Done	Done	329+725	329+750	1X12	Done	Done	Done	Done	Done			
9				Done	Done	Done	Done	Done	331+425	331+450	1X12	Done	Done	Done	Done	Done			
10				Done	Done	Done	Done	Done	332+640	332+675	1X12	Done	Done	Done	Done	Done			
11				Done	Done	Done	Done	Done	333+351	333+370	1X12	Done	Done	Done	Done	Done			
12				Done	Done	Done	Done	Done	333+786	333+795	1X12	Done	Done	Done	Done	Done			
13				Done	Done	Done	Done	Done	334+280	334+390	1X12	Done	Done	Done	Done	Done			
14				Done	Done	Done	Done	Done	334+868	334+880	1X12	Done	Done	Done	Done	Done			
15				Done	Done	Done	Done	Done	336+020	335+850	1X12	Done	Done	Done	Done	Done			
16				Done	Done	Done	Done	Done	336+355	336+375	1X12	Done	Done	Done	Done	Done			
17				Done	Done	Done	Done	Done	338+455	338+477	1X12	Done	Done	Done	Done	Done			
18				Done	Done	Done	Done	Done	338+950	338+970	1X12	Done	Done	Done	Done	Done			
19				Done	Done	Done	Done	Done	339+687	339+680	1X12	Done	Done	Done	Done	Done			
20				Done	Done	Done	Done	Done	340+419	340+427	1X12	Done	Done	Done	Done	Done			
21				Done	Done	Done	Done	Done	340+820	340+855	1X12	Done	Done	Done	Done	Done			
22				Done	Done	Done	Done	Done	342+035	342+050	1X12	Done	Done	Done	Done	Done			
23				Done	Done	Done	Done	Done	342+543	342+562	1X12	Done	Done	Done	Done	Done			
24				Done	Done	Done	Done	Done	343+169	343+150	1X12	Done	Done	Done	Done	Done			
25				Done	Done	Done	Done	Done	345+025	345+050	1X12	Done	Done	Done	Done	Done			
26				Done	Done	Done	Done	Done	345+653	345+670	1X12	Done	Done	Done	Done	Done			
27				Done	Done	Done	Done	Done	346+383	346+400	1X12	Done	Done	Done	Done	Done			
28				Done	Done	Done	Done	Done	347+108	347+100	1X12	Done	Done	Done	Done	Done			
29				Done	Done	Done	Done	Done	347+922	347+900	1X12	Done	Done	Done	Done	Done			
30				Done	Done	Done	Done	Done	348+978	349+100	1X12	Done	Done	Done	Done	Done			
31				Done	Done	Done	Done	Done	349+972	349+950	1X12	Done	Done	Done	Done	Done			
32				Done	Done	Done	Done	Done	350+831	350+850	1X12	Done	Done	Done	Done	Done			
33				Done	Done	Done	Done	Done	352+355	352+320	1X12	Done	Done	Done	Done	Done			
34				Done	Done	Done	Done	Done	352+700	352+696	1X12	Done	Done	Done	Done	Done			
				34	34	34	34	34	34	34	34	34	34	34	34	34			

SR.NO	PROGRESS CHART FOR VUP																		
	LHS								Design Chainage	CA Chainage	RHS								
	Finishing			Super Structure	Sub Structure	Foundation					Dimension	Foundation			Sub Structure	Super Structure	Finishing		
	WC inside Str.	Approach Slab	Crash Barrier			Raft	PCC	Excavation				Excavation	PCC	Raft			Crash Barrier	Approach Slab	WC inside Str.
1				Done	Done	Done	Done	Done	330+402	330+402	1X12	Done	Done	Done	Done	Done			
2				Done	Done	Done	Done	Done	331+822	331+843	1X12	Done	Done	Done	Done	Done			
3				Done	Done	Done	Done	Done	335+402	335+422	1X12	Done	Done	Done	Done	Done		Done	
4				Done	Done	Done	Done	Done	341+826	341+843	1x12	Done	Done	Done	Done	Done			
5				Done	Done	Done	Done	Done	351+284	351+303	1x12	Done	Done	Done	Done	Done			

SR.NO	PROGRESS CHART FOR LVUP																		
	LHS								Design Chainage	CA Chainage	RHS								
	Finishing			Super Structure	Sub Structure	Foundation					Dimension	Foundation			Sub Structure	Super Structure	Finishing		
	WC inside Str.	Approach Slab	Crash Barrier			Raft	PCC	Excavation	Excavation	PCC		Raft	Crash Barrier	Approach Slab			WC inside Str.		
1				Done	Done	Done	Done	Done	325+769	325+788	1x12	Done	Done	Done	Done	Done			
2				Done	Done	Done	Done	Done	329+380	329+400	1x12	Done	Done	Done	Done	Done			
3				Done	Done	Done	Done	Done	337+022	337+050	1x12	Done	Done	Done	Done	Done			
4				Done	Done	Done	Done	Done	341+600	341+590	1x12	Done	Done	Done	Done	Done			
5				Done	Done	Done	Done	Done	343+856	343+877	1x12	Done	Done	Done	Done	Done			
6				Done	Done	Done	Done	Done	348+468	348+490	1x12	Done	Done	Done	Done	Done			
7				Done	Done	Done	Done	Done	351+803	351+803	1x12	Done	Done	Done	Done	Done			
8				Done	Done	Done	Done	Done	354+843	354+855	1x12	Done	Done	Done	Done	Done			

PROGRESS CHART FOR MNB

SR.NO	BOX TYPE																		
	LHS								MNB Design Chainage	MNB CA Chainage	RHS								
	Finishing			Super Structure	Sub Structure	Foundation					Dimension	Foundation			Sub Structure	Super Structure	Finishing		
	WC inside Str.	Approach Slab	Crash Barrier			Raft	PCC	Excavation	Excavation	PCC		Raft	Crash Barrier	Approach Slab			WC inside Str.		
1				Done	Done	Done	Done	Done	329+062	329+080	1X10.42	Done	Done	Done	Done	Done			
2				Done	Done	Done	Done	Done	337+874	337+895	1X10.42	Done	Done	Done	Done	Done			
3				Done	Done	Done	Done	Done	346+743	346+766	1x10.496	Done	Done	Done	Done	Done			
4			7		Done	Done	Done	Done	350+201	350+220	1x18.85	Done	Done	Done	Done		7		

PILE TYPE

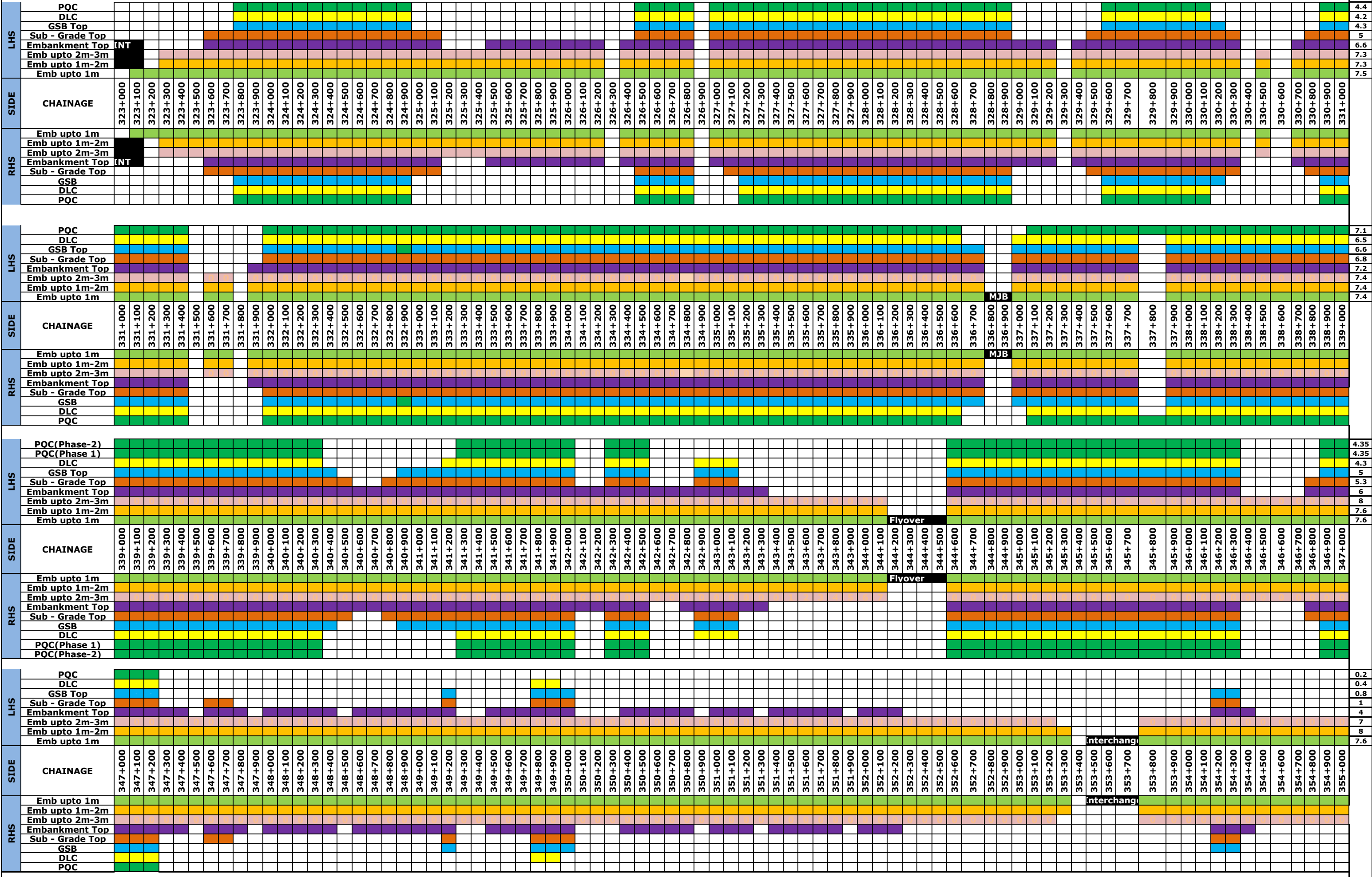
SR.NO	PILE TYPE																	
	LHS								Design Chainage	CA Chainage	RHS							
	Superstructure		Sub Structure		Foundation		Pile Scope	Dimension			Foundation		Substructure		Superstructure			
	Deck Slab	Erection/Casting of Girders	Pier Cap	Pier	Pile Cap	Pile			Pile	Pile	Pile Cap	Pier	Pier Cap	Erection/Casting of Girders	Deck Slab	Approach Slab		
1			2 out of 2	2 out of 2	2 out of 2	16	32	324+193	324+210	1X29.214	16	2 out of 2	2 out of 2	2 out of 2				
2		50	4 out of 4	32 out of 35	2 out of 2	35	70	330+630	330+640	1X32.2	35	2 out of 2	33 out of 35	4 out of 4				
3		66	3 out of 4	59 out of 62	2 out of 2	62	124	343+566	343+566	1x27.20	62	2 out of 2	58 out of 62	2 out of 4				
4			2 out of 2	12 out of 14	2 out of 2	14	28	350+143	350+162	1x33.112	14	2 out of 2	13 out of 14	1 out of 2				
5		48	4 out of 4	24 out of 28	2 out of 2	28	56	354+636	354+660	1x48.603	28	2 out of 2	26out of 28	2 out of 4				

PROGRESS CHART FOR FLYOVER

SR.NO	PROGRESS CHART FOR FLYOVER																	
	LHS								Design Chainage	CA Chainage	RHS							
	Superstructure		Sub Structure		Foundation		Total Pile Scope	Dimension			Foundation		Substructure		Superstructure			
	Deck Slab	Erection/Casting of Girders	Pier Cap	Pier	Pile Cap	Pile			Pile	Pile	Pile Cap	Pier	Pier Cap	Erection/Casting of Girders	Deck Slab	Approach Slab		
1		13	3 out of 4	16 out 16	4 out of 4	46	92	344+383	344+360	1x22.627+1x42.065+1x22.627	46	4 out of 4	16 out of 16	4 out of 4	18			

SR.N O	PROGRESS CHART FOR INTERCHANGE																	
	LHS							Design Chainage	CA Chainage	RHS								
	Superstructure		Sub Structure		Foundation		Total Pile Scope			Dimension	Foundation		Substructure		Superstructure			
	Deck Slab	Erection/ Casting of Girders	Pier Cap	Pier	Pile Cap	Piles					Piles	Pile Cap	Pier	Pier Cap	Erection/ Casting of Girders	Deck Slab	Approach Slab	
1		21	4 out of 4	12 out of 12	4 out of 4	40	80	323+074	323+087	1 x 16.9+1x47.2+1x16.9	40	4 out of 4	12 out of 12	4 out of 4	21			
2		47	8 out of 8	28 out of 28	8 out of 8	100	200	353+666	353+690	1 X 48.2 + 2 X (25+25 +25.788)	100	8 out of 8	26 out of 28	8 out of 8	49			
SR.N O	PROGRESS CHART FOR ROB																	
	LHS							Design Chainage	CA Chainage	RHS								
	Superstructure		Sub Structure		Foundation		Total Pile Scope			Dimension	Foundation		Substructure		Superstructure			
	Deck Slab	Erection/ Casting of Girders	Pier Cap	Pier	Pile Cap	Piles					Piles	Pile Cap	Pier	Pier Cap	Erection/ Casting of Girders	Deck Slab	Approach Slab	
1			3	3	3	42 out of 42	80	352+965	352+988	2x37.20	38 out of 38	2	2	1				
SR.N O	PROGRESS CHART FOR MJB																	
	LHS							Design Chainage	CA Chainage	RHS								
	Superstructure		Sub Structure		Foundation		Total Pile Scope			Dimension	Foundation		Substructure		Superstructure			
	Deck Slab	Erection/ Casting of Girders	Pier Cap	Pier	Pile Cap	Pile					Pile	Pile Cap	Pier	Pier Cap	Erection/ Casting of Girders	Deck Slab	Approach Slab	
1		30	1 out of 7	3 out of 7	6 out of 7	114	228	336+810	336+830	6X42.20	114	6 out of 7	4 out of 7	2 out of 7				
SR.N O	PROGRESS CHART FOR VOP																	
	LHS							Design Chainage	CA Chainage	RHS								
	Superstructure		Sub Structure		Foundation		Total Pile Scope			Dimension	Foundation		Substructure		Superstructure			
	Deck Slab	Erection/ Casting of Girders	Pier Cap	Pier	Pile Cap	Piles					Piles	Pile Cap	Pier	Pier Cap	Erection/ Casting of Girders	Deck Slab	Approach Slab	
1			1 out of 3	3 out of 3	3 out of 3	14	14	326+957	326+982	2x48.221	Not Applicable							
2		4	3 out of 3	3 out of 3	3 out of 3	21	21	349+441	349+463	2x41.35	Not Applicable							

HIGHWAY PROGRESS CHART



Emb upto 1m		Embankment Top		DLC		Emb. Upto 1m	30.1	Total Embankment Top	24.2	Total GSB	16.7
Emb upto 1m-2m		Sub - Grade Top		PQC		Emb. From 1m-2m	29.9	Total Subgrade Top	18.1	Total DLC	15.4
Emb upto 2m-3m		GSB				Emb. From 2m-3m	29.8			Total PQC	10.2

ANNEXURE - A

Details of Electrical Utilities

Sr. No.	CHAINAGE		Division	SIDE	TYPE	Effected LENGTH (m)	Cleared Length (Mtr.)	No. of Locations already shifted	No. of Locations where shifting in progress	Description	Remarks
	From	To									
1	323+030	323+040	Amod		11 KV	10			Going on Progress	Electric Line Crossing (Amod)	
2	323+090	323+095	Amod		11 KV	5			Going on Progress	Electric Line Crossing (Amod)	
3	323+130	323+140	Amod		11 KV	10			Going on Progress	Electric Line Crossing (Amod)	
4	323+160	323+170	Amod		12 KV	10			Going on Progress	Electric Line Crossing (Amod)	
5	323+200	323+210	Amod		11 KV	10			Going on Progress	Electric Line Crossing (Amod)	
6	323+380	323+440	Amod		11 KV	60			Going on Progress	Electric Line Crossing (Amod)	
7	324+600	324+610	Karjan		2/11KV	10	10	1	Shifted	Electric Line Crossing	
8	324+700	324+705	Karjan	LHS		5	5	1	Shifted	Transformer	
9	324+800	324+830	Karjan		2/11KV	30	30	1	Shifted	Electric Line Crossing	
10	324+690	324+710	Karjan		3/11KV	20	20	1	Shifted	Electric Line Crossing	
11	325+180	325+190	Karjan		11 KV	10				Electric Line Crossing	
12	325+180	325+190	Karjan	LHS		10	10	1	shifted	Transformer	
13	325+550	325+570	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
14	325+600	325+630	Karjan		11 KV	30	30	1	shifted	Electric Line Crossing	
15	326+900	326+910	Karjan		11 KV	10	10	1	shifted	Electric Line Crossing	
16	327+280	327+290	Karjan		11 KV	10				Electric Line Crossing	
17	327+280		Karjan	RHS		5	5	1	shifted	Transformer	
18	327+700	327+710	Karjan		11 KV	10	10	1	shifted	Electric Line Crossing	
19	327+730	327+740	Karjan		11KV	10	10	1	shifted	Electric Line Crossing	
20	327+750	327+760	Karjan		11KV	10	10	1	shifted	Electric Line Crossing	
21	329+290	329+310	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
22	329+310	329+330	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
23	330+270	330+275	Karjan	RHS	11 KV	5	5	1	shifted	Transformer	
24	330+275	330+570	Karjan	8 Line	12 KV	65	65	1	4 Line shifted	Electric Line Crossing	
25	331+230	331+240	Karjan		11 KV	10	10	1	shifted	Electric Line Crossing	
26	331+430	331+440	Karjan		11 KV	10	10	1	shifted	Electric Line Crossing	
27	331+800	331+820	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
28	331+900	331+920	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
29	332+050	332+060	Karjan		11 KV	10	20	1	shifted	Electric Line Crossing	
30	332+130	332+150	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	

ANNEXURE - A

Details of Electrical Utilities

Sr. No.	CHAINAGE		Division	SIDE	TYPE	Effected LENGTH (m)	Cleared Length (Mtr.)	No. of Locations already shifted	No. of Locations where shifting in progress	Description	Remarks
	From	To									
31	332+410	332+450	Karjan		11 KV	40	40	1	shifted	Electric Line Crossing	
32	332+490	332+500	Karjan	RHS		5	5	1	shifted	Transformer	
33	333+100	333+130	Karjan		11 KV	30	30	1	shifted	Electric Line Crossing	
34	333+340	333+350	Karjan	LHS		5	5	1	shifted	Transformer	
35	333+520	333+540	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
36	333+620	333+720	Karjan		11 KV	100	100	1	shifted	Electric Line Crossing	
37	333+950	334+000	Karjan		11 KV	50	50	1	shifted	Electric Line Crossing	
38	334+220	334+240	Karjan		11 KV	20	20	1	shifted	Electric Line Crossing	
39	334+575	334+590	Karjan		11 KV	15	15	1	shifted	Electric Line Crossing	
40	334+585	334+610	Karjan		11 KV	35	35	1	shifted	Electric Line Crossing	
41	334+610	334+640	Karjan		11 KV	25	25	1	shifted	Electric Line Crossing	
42	334+690	334+720	Karjan		11 KV	30	30	1	shifted	Electric Line Crossing	
43	334+730	334+770	Karjan	2 Line	11 KV	40	40	1	shifted	Electric Line Crossing	
44	334+800	334+830	Karjan		11 KV	30	30	1	shifted	Electric Line Crossing	
45	335+370	335+400	Karjan		11 KV	30	30	1	shifted	Electric Line Crossing	
46	335+370	335+400	Karjan	LHS	11 KV	30	30	1	shifted	Electric Line Crossing	
47	337+470	337+510	Padra-2		11 KV	40	40	1	shifted	Electric Line Crossing	
48	337+580	337+620	Padra-2		11 KV	40	40	1	shifted	Electric Line Crossing	
49	338+480	338+550	Padra-2		11 KV	70	70	1	shifted	Electric Line Crossing	
50	339+670	339+720	Padra-2		11 KV	50	50	1	shifted	Electric Line Crossing	
51	339+750	339+780	Padra-2		11 KV	30				Electric Line Crossing	
52	341+610	341+650	Padra-2		11 KV	40				Electric Line Crossing	
53	341+790	341+820	Padra-2		11 KV	30	30	1	shifted	Electric Line Crossing	
54	341+780	341+790	Padra-2	C/L	11 KV	10	10	1	shifted	Transformer	
55	343+850	343+870	Padra-2		11 KV	20	20	1	shifted	Electric Line Crossing	
56	343+950	344+000	Padra-2		11 KV	50	50	1	shifted	Electric Line Crossing	
57	344+000	344+060	Padra-2		11 KV	60	60	1	shifted	Electric Line Crossing	
58	344+200	344+280	Padra-2		11 KV	80	80	1	shifted	Electric Line Crossing	
59	345+100	345+120	Padra-2	LHS		20	20	1	shifted	Transformer	
60	348+470	348+480	Padra-2		11 KV	10	10	1	shifted	Electric Line Crossing	

ANNEXURE - A

Details of Electrical Utilities

Sr. No.	CHAINAGE		Division	SIDE	TYPE	Effected LENGTH (m)	Cleared Length (Mtr.)	No. of Locations already shifted	No. of Locations where shifting in progress	Description	Remarks
	From	To									
61	348+780	348+850	Padra-2		11 KV	70	70	1	shifted	Electric Line Crossing	
62	349+150	349+160	Padra-1		12 KV	10	10	1	shifted	Electric Line Crossing	
63	349+440	349+470	Padra-1		11 KV	30			Going on Progress	Electric Line Crossing	
64	350+340	350+400	Padra-1		11 KV	60	60	1	shifted	Electric Line Crossing	
65	350+320	350+330	Padra-1	RHS		10	10	1	shifted	Transformer	
66	351+400	351+420	Padra-1		11 KV	20	20	1	shifted	Electric Line Crossing	
67	351+420	351+430	Padra-1	LHS		10	10	1	shifted	Transformer	
68	351+530	351+540	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
69	351+680	351+800	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
70	351+820	351+825	Padra-1		11 KV	5	5	1	shifted	Electric Line Crossing	
71	351+830	351+835	Padra-1		11 KV	5	5	1	shifted	Electric Line Crossing	
72	351+870	351+875	Padra-1		11 KV	5	5	1	shifted	Electric Line Crossing	
73	351+875	351+885	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
74	351+885	351+915	Padra-1		11 KV	30	30	1	shifted	Electric Line Crossing	
75	352+300	352+310	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
76	352+445	352+460	Padra-1		11 KV	15	10	1	shifted	Electric Line Crossing	
77	353+415	353+425	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
78	353+445	353+470	Padra-1		11 KV	25	25	1	shifted	Electric Line Crossing	
79	353+510	353+520	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
80	353+525	353+550	Padra-1		11 KV	25			Going on Progress	Electric Line Crossing	
81	353+670	353+920	Padra-1		11 KV	10			Going on Progress	Electric Line Crossing	
82	354+240	354+250	Padra-1		11 KV	10	10	1	Shifted	Electric Line Crossing	
83	354+830	354+835	Padra-1		11 KV	5	5	1	Shifted	Electric Line Crossing	
84	354+950	354+960	Padra-1		11 KV	10	10	1	shifted	Electric Line Crossing	
Total shifted (Length & Locations), Out of above 84 Locations						1965	1710	71	13		255

ANNEXURE - A

Details of Electrical Utilities

Sr. No.	CHAINAGE		Division	SIDE	TYPE	Effected LENGTH (m)	Cleared Length (Mtr.)	No. of Locations already shifted	No. of Locations where shifting in progress	Description	Remarks
	From	To									
EHT Line											
1	323+180	323+200	GETCO		66 KV	20				Electric Line Crossing (Amod)	
2	324+090	324+110	GETCO		1 Tower/220KV	20				High Tension Line Crossing	
3	325+100	325+115	GETCO		1 Tower/220KV	15				High Tension Line Crossing	
4	326+400	326+420	GETCO		1 Tower/220KV	20				High Tension Line Crossing	
5	327+175	327+205	GETCO		220KV	30				High Tension Line Crossing	
6	331+930	331+950	GETCO		66 KV	20				High Tension Line Crossing	
7	353+950	353+960	GETCO		66 KV	10				High Tension Line Crossing	
8	354+000	354+010	GETCO		66 KV	10				High Tension Line Crossing	
9	336+080	336+130	PGCIL		400KV	50				High Tension Line Crossing	
10	340+800	340+950	Torrent		400KV	150				High Tension Line Crossing	
EHT Line Hindred Length						345					345
TOTAL LENGTH						2310	1710				600

GETCO/PGCIL/Torrent EHT Line Shifting Matrials Details

Sr. No.	Agency	Utility agency	Chainage	Line Discription	Vendor approval Status	Check survey/ Profile Status	Land Status	Material Vendor approval Status	Material Inspection status
1	SIDDHARTH INFRA POWER PVT. LTD.	GETCO	323+200	66 KV - Amod Sarbhan Line	vendor approval obtain through letter no.CE (Project) /II/T-2/66kv /NHAI/ IVKEL/ Patel /Sidharth infra 1/4161 Dt.10.11.2020	Check survey done, Profile Submitted to PIU Bharuch for review and approval	Profile approval awaited	Material vendor approval awaited from GETCO	awaited
2	SIDDHARTH INFRA POWER PVT. LTD.	GETCO	324+122	220 KV Kosamba - Mobha Lilo(Suva)	vendor approval obtain through letter no.CE (Project) /II/ T-2/ 66 kv/NHAI/ IVKEL/Patel / Sidharth infra- 7/4159 Dt.10.11.2020	Check survey done, Profile Submitted to PIU Bharuch for review and approval	Profile approval awaited	Material vendor approval awaited from GETCO	awaited
3	VIMA ALLAINCE INFRA PVT LTD	GETCO	325+132	220 KV Kosamba - Mobha	vendor approval obtain through letter no.CE (Project) /II/ T-2 / 66 kv/NHAI/ IVKEL /Patel /Vima Alliance-8/4162 Dt.10.11.2020	Check survey done, Profile Submitted to PIU Bharuch for review and approval	Profile approval awaited	Material vendor approval awaited from GETCO	awaited
4	VIMA ALLAINCE INFRA PVT LTD	GETCO	326+420	220 KV Gavasad - SSLP Line 1 & 2	vendor approval obtain through letter no. CE (Project)/II / T-2/ 66 kv/NHAI/ IVKEL/ Patel/Vima Alliance-6/4160 Dt.10.11.2020	Check survey done, Profile Submitted to PIU Bharuch for review and approval	Profile approval awaited	Material vendor approval awaited from GETCO	awaited
5	STANZA POWER	GETCO	327+220	220 KV Gavasad - SSLP Line 3 & 4	vendor approval obtain through letter no.CE(Project) /II/T-2 / 66 kv/NHAI /IVKEL/ Patel/ Stanza-5 /4206 Dt.10.11.2020	Check survey done, Profile prepration is under process	Profile prepration is under process	Material vendor approval awaited from GETCO	awaited
6	STANZA POWER	GETCO	331+927	66 KV - Karjan- TGBL Line	vendor approval obtain through letter no.CE(Project) /II/T-2/66 kv / NHAI/ IVKEL /Patel /Stanza-4 / 4205 Dt.10.11.2020	Check survey done, Profile prepration is under process	Profile prepration is under process	Material vendor approval awaited from GETCO	awaited
7	STANZA POWER	GETCO	353+962	66 KV - Samiyala - Padra DP Line	vendor approval obtain through letter no.CE(Project)/ II/ T-2/ 66kv/ NHAI/ IVKEL/ Patel / Stanza / 2624 Dt.24.09.2020	Check survey done, Profile Submitted to GETCO for review and approval	Profile prepration is under process	Material vendor approval awaited from GETCO	awaited
8	STANZA POWER	GETCO	354+020	66 KV - Gotri- Jambuva- Padra Line	vendor approval obtain through letter no.CE (Project) /II/ T-2/ 66kv/NHAI/ IVKEL /Patel /Stanza/ 2623 Dt.24.09.2020	Check survey done, Profile Submitted to GETCO for review and approval	Profile prepration is under process	Material vendor approval awaited from GETCO	awaited
9	Om power	PGCIL	336+000	400 KV	Approval awaited	Check survey done, Profile prepration is under process	Profile prepration is under process		
10	Om power	Torrent	340+950	400 KV	Approved	Check survey done, Profile prepration is under process	Profile prepration is under process		

Details of Water Pipe Lines/Borewell/Canal Crossing

SR. NO.	CHAINAGE		SIDE	TYPE	EFFECTED LENGTH	REMARKS
	From	To				
1	323+040	323+050	LHS	CANAL CROSSING		
2	323+165	323+175	C/L	TUBEWELL		
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		
8	324+960	324+980	BHS	CANAL CROSSING		
9	325+200	325+210	LHS	TUBEWELL		
10	326+830	326+850	BHS	CANAL CROSSING		
11	327+280	327+290	RHS	TUBEWELL		
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		
17	330+820	330+840	BHS	CANAL CROSSING		
18	331+400	331+410	RHS	TUBE WELL		
19	331+800	331+835	RHS	IRRIGATION CHANNEL		
20	332+640	332+660		Nala		
21	333+270	333+300	BHS	IRRIGATION CHANNEL		
22	333+350	333+360	LHS	TUBE WELL		
23	333+670	333+730	BHS	IRRIGATION CHANNEL		
24	334+815	334+825	C/L	TUBE WELL		
25	335+075	335+100	BHS	CANAL CROSSING		
26	336+750	336+900		Vishvamitri river		
27	338+595	338+605	RHS	TUBEWELL		
28	338+950	338+960	RHS	TUBE WELL		
29	339+550	339+675	BHS	CANAL CROSSING		
30	341+600	341+610	RHS	TUBE WELL		
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		
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		
38	350+300	350+315	BHS	TUBE WELL		
39	351+240	351+260	RHS	CANAL CROSSING		
40	351+245	351+255	C/L	TUBE WELL		
41	351+415	351+435	BHS	WATER LINE CROSSING	20	
42	351+530	351+540	RHS	WELL		
43	352+880	353+000	RHS	CANAL CROSSING		
44	354+330	354+340	RHS	BOREWELL		
TOTAL LENGTH					60	

Details of Permanent structure like Building etc.

Sr. No	Chainage		Side	Structure type	Effected Length (m)	Effected Width (m)	Effected Zone
	From	To					
1	327+280	327+320	RHS	COW SHELTER			
2	329+350	329+355	LHS	COW SHELTER			
3	329+365	329+375	BHS	HOUSE	10		
4	330+320	330+330	BHS	HOUSE	10		
5	341+750	341+851	LHS	ONGC GAS OFFICE	100		
TOTAL LENGTH					120		

Details of Gas Pipe Lines

Sr. NO	Chainage		SIDE	TYPE	Effected Length (m)	REMARKS
	From	To				
1	343+560	343+620	BHS	GAIL COMPOUND WALL	60	Boundary Wall
TOTAL LENGTH					60	

Details of Religious Structures like Temple, Mosque etc.

Sr. No.	Temple Chainage	Side	EFFECTED LENGTH	Remarks
1	349+441	Cross Road (RE Wall)	20	Temple
2	353+670	LHS	20	Mazar/Mosque
TOTAL LENGTH			40	

Details of Land related Hindrances as on 31.12.2020

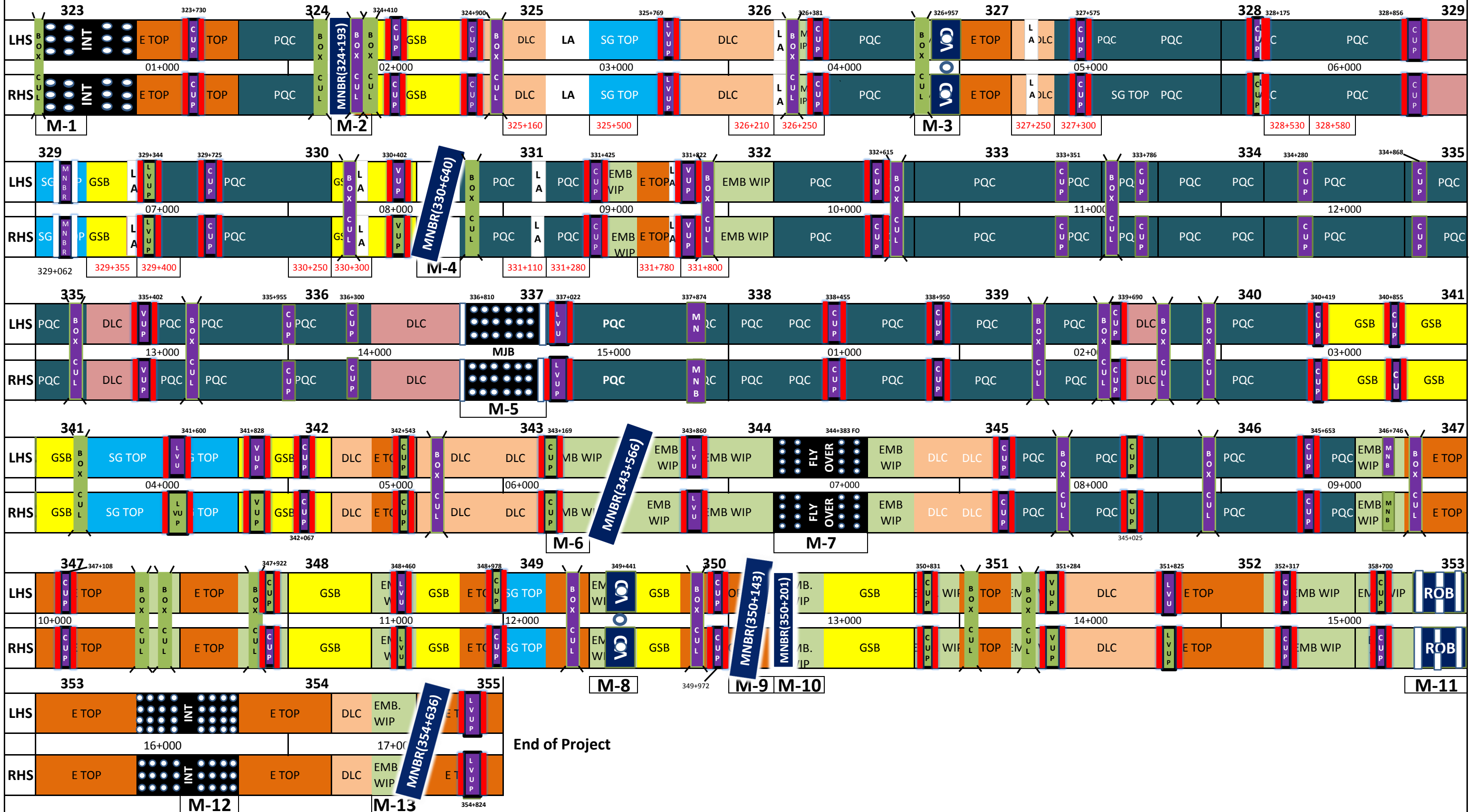
Sr. No.	Chainage from		Affacted length	Village Name	Survey No.	Structure/ Highway Affected	Owner Name	Hindrance Description	Current Status
Payment/ Add.3A Issues									
1	325+160	325+320	160	Sanpa	337	HPC	Govardhanbhai Ranchoddas	additional acquisition payment awaited at NHAI End	3G Award approval awaited from NHAI & Fruther action
2	325+320	325+500	180	Sanpa	527	Highway	Mohadbhai aslam esab	additional acquisition payment awaited at NHAI End	3G Award approval awaited from NHAI & Fruther action
3	326+210	326+250	40	Sanpa	169	Highway	Patel Babubhai ambalal	additional acquisition payment awaited at NHAI End	3G Award approval awaited from NHAI & Fruther action
4	331+780	331+800	20	Handod	8	Highway	Prafulbhai Bhatt	additional acquisition payment awaited at NHAI End	3G Award approval awaited from NHAI & Fruther action
5	329+355	329+400	45	Kanbha	413	Highway	Malik Yusuphbhai	Award of Rs. 2 lakh against tube well submitted to CALA for payment.	CALA issued notice for payment against tube well Award. Land owner not receive payment notice due to lesser compensation
6	330+250	330+300	50	Kanbha	296	Highway	Idrishbhai ahamadbhai	Award of Rs. 2 lakh against tube well submitted to CALA for payment.	CALA issued notice for payment against tube well Award. Land owner not receive payment notice due to lesser compensation
7	328+555	328+580	25	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. Add.3A Pursual awaited from Secon/NHAI end.	Seacon needs to resolve it.
Total Length			520						
Other Issue									
1	341+750	341+850	100	Amla		LVUP	ONGC GAS OFFICE	ONGC Well	
2	343+560	343+620	60	Sarswani	944	Minor Bridge	Rasikbhai Vitthalbhai Patel & GAIL	GAIL Compound wall	
3	351+300	351+350	50	Sokhda khurd	77	Highway	Jagdishbhai shivabhai solanki	Payment done but Ghanot didn't give possession	Force possession is being persuaded
Total Length			210						

Interchange/ Amenities issues									
1	323+000	323+400	400	Matar	Unknown	Interchange Ramp	Unknown	Interchange Ramp and Toll plaza	Pending at NHAI end
2	353+666		200	Samiyala	375	Down ramp -1	Indira colony	46 houses effected of Indira colony at down ramp-1, need to relocate	Relocation proposal submitted to DC Vadodara
3	353+100	353+160	160	Samiyala	308	Proposed Petrol Pump area	RAMANBHAI SOMABHAI GOHIL	Land measurement issue at Petrol pump area	Pending at NHAI / Secon end
4					301		KAYAMALI NURUDDIN SAIYAD	Land measurement issue at Petrol pump area	Pending at NHAI / Secon end
5					303		CHIMANLAL MANGALBHAI PARMAR	Land measurement issue at Petrol pump area	Pending at NHAI / Secon end
6	353+666		80	Samiyala	409	Down ramp -3	Makwana Dahyabhai Jethabhai	Payment not disbursed	
7	353+667		50	Samiyala	390	Down ramp -2	MANJULABEN CHAMPAKLAL THAKKAR	BPCL Petrol pump	
8	353+800	353+810	10	Samiyala	470	Interchange circle	Sitaben	NHAI acquired 0.1947 Hact. Land in survey no.470 but farmer survey no.470 Land area is 0.2125 Hact.. and total survey no. is coming in NHAI Acquisition for interchange loop section. Farmer claimed rest land area (0.0178 Hact.) compensation. Farmer also persuade to CALA office for rectifying this discrepancy on his survey no. Add.3A Pursual awaited from Secon/NHAI end.	Seacon needs to resolve it
Total Length			900						
Total effected length			1630						

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

	EMB Top	SG Top	GSB TOP	DLC	PQC	EMB WIP
Scope Length(km)	30.52	30.52	30.52	30.52	30.52	30.52
Length Completed(km)	25.20	18.10	16.70	15.40	10.07	30.30

Structure Scope (No.)	Work Completed	Work in Progress	LA Hindrance (Km)	Utility Hindrance(km)	M-	STR
157	123	25.5	1.47	0.60	Major Structure	RE Wall Gap



Contractor:
PATEL
 Every Milestone is Our Value

Concessionaire:

IRCON INTERNATIONAL LIMITED
 (A Government of India Undertaking)

Independent Engineer :

aarvee associates
 architects engineers & consultants pvt. ltd.
 An ISO 9001:2015 Certified Company

Client:

National Highways Authority Of India
 (Ministry Of Shipping Road Transport & Highways Government Of India)

Details of Letter Correspondence From PIL TO IRCON.

Sr.	Date	Letter Number	Subject
1	01.12.2020	PIL/ VK2/ IRCON/ 746 / 2020	Submission for approval of Stage Payment Statement (IPC) Nos. 16 - A & 16 - B for stages completed for the Period of 01st to 30th November 2020 as per Schedule - H in pursuant to clause 10.1.4 and 19.3 of Contract Agreement.
2	01.12.2020	PIL/ VK2/ IRCON/ 747 / 2020	Submission for approval of Stage Payment Statement (IPC) Nos. 16 - A & 16 - B for stages completed for the Period of 01st to 30th November 2020 as per Schedule - H in pursuant to clause 10.1.4 and 19.3 of Contract Agreement. _ Request to Release Part Payment against the Stage Payment Statement (IPC) No.- 16 under Contract Clause 19.5.1.
3	01.12.2020	PIL/ VK2/ IRCON/ 748 / 2020	Submission of Methodology for Transportation, launching and erection of RCC /PSC / Steel Girders.
4	03.12.2020	PIL/ VK2/ IRCON/ 751 / 2020	Submission of "Monthly Progress Report" for the Month of November - 2020.
5	04.12.2020	PIL/ VK2/ IRCON/ 754 / 2020	Compliance for Submission of Company profile and Credentials of NABL accredited laboratory M/s Manglam Consultancy Service, vadodara.
6	04.12.2020	PIL/ VK2/ IRCON/ 755 / 2020	Submission of 01st Bill for shifting / Erection of 11KV lines and LT line under sub division Padra - 2 , Div. Jambuva, From km. 337+000 to 347+670. (Potaliya Enterprise)
7	04.12.2020	PIL/HO/VKP2/IRCON/710/2020	Submission of Design and Drawing of Metallic Guide Bearing and PIN Bearing for Interchange at Ch. 323+075, Minor Bridge at Ch. 324+193 and Flyover at Ch. 344+383.
8	04.12.2020	PIL/HO/VKP2/IRCON/711/2020	Request to release Bank Guarantees against the recovery of 1st Mobilization advance payment
9	05.12.2020	PIL/ VK2/ IRCON/ 756 / 2020	Submission of Profile Drawing for Approval for the shifting of (1) 66KV Handod - Sarbhan Line at Ch. 323+200 & (2) 220 KV Kosamba - Mobha Line at Ch. 324+122. (Siddharth Infra)
10	05.12.2020	PIL/ VK2/ IRCON/ 757 / 2020	Submission of Shop Drawings of Elastomeric Bearings for MNB at Ch. 350+201 & VOP Ch. 326+957 (Polymer Product)
11	05.12.2020	PIL/ VK2/ IRCON/ 758 / 2020	Submission of Shop Drawings of Elastomeric Bearings for MNB at Ch. 324+193, 330+640 & 343+566 (Hevea)
12	05.12.2020	PIL/ VK2/ IRCON/ 759 / 2020	Compliance for Submission of Company profile & credentials for source approval of M/s Polymer Product for procurement of Elastomeric Bearings to be used in project highway
13	07.12.2020	PIL/ VK2/ IRCON/ 761 / 2020	Submission of Credentials for source approval of NABL accredited laboratory of M/s SHREE BALAJI TEST HOUSE PVT. LTD. Consultancy Service.
14	07.12.2020	PIL/ VK2/ IRCON/ 762 / 2020	Submission of Chainage wise stretches showing the Type of Slope Protection Works to be Used for Execution at Site.
15	07.12.2020	PIL/ VK2/ IRCON/ 763 / 2020	Submission of PQC Mix design.
16	07.12.2020	PIL/HO/VKP2/IRCON/713 / 2020	Submission of Compliance for Design of Precast Box Culvert at Ch. 0+305 at interchange 323+075 (Ramp 3), Ch. 0+015 at Inter Change Ch. 323+075 (Ramp 2), Ch. 0+020 at Inter Change Ch. 323+075 (Ramp 3), Ch. 0+186 at Inter Change Ch. 353+666 (Ramp 2), Ch. 0+560 & 0+640 at Inter Change Ch. 353+666 (Loop 3 & Ramp 3) & at Ch. 0+966 at Interchange 353+666 (Ramp 1).
17	08.12.2020	PIL/HO/VKP2/IRCON/714 / 2020	Submission of Factory Inspection Report for Precast Shoulder Drain (M/s Fuji Silvertch) and construction of Precast Box Drain
18	09.12.2020	PIL/ VK2/ IRCON/ 765 / 2020	Testing of POT-PTFE bearings manufactured by M/s Steel Auto Industries through Video conferencing for Flyover Chainage 344+383.

Details of Letter Correspondence From PIL TO IRCON.

Sr.	Date	Letter Number	Subject
19	09.12.2020	PIL/ VK2/ IRCON/ 766 / 2020	Testing of Elastomeric bearings Manufacturer by M/s Hevea Rubber Technologies through Video conferencing for MNB Ch. 324+193, 330+640 & 343+566.
20	09.12.2020	PIL/HO/VKP2/IRCON/723 / 2020	Regarding important issue to be considered for smooth implementation of Project Highway- Modification/Amendment in Schedule- H "Contract Price Weightages".
21	10.12.2020	PIL/HO/VKP2/IRCON/724 / 2020	Delay in the progress of works and likely delay in the achievement of Project Milestone- III and Issuance of Advance Notice for recovery of damages in the event of failure to achieve milestones within time period as per Sub clause 12.3.2 of Concession Agreement- Reg.
22	12.12.2020	PIL/HO/VKP2/IRCON/727 / 2020	Regarding submission of Six Monthly Environment Monitoring Report - 4
23	12.12.2020	PIL/HO/VKP2/IRCON/730 / 2020	Regarding Submission of Proposal of construction of chute drain with geocell & geotextile for slope protection work in Project Highway.
24	12.12.2020	PIL/ VK2/ IRCON/ 767 / 2020	Submission of Revisions / Modifications Required to Retaining Wall & Toe Wall as per Site conditions.
25	14.12.2020	PIL/ VK2/ IRCON/ 768 / 2020	Compliance Submission of RA Bill - 01 for shifting / Erection of 11KV lines and LT line under sub division Padra – 2, Div. Jambuva, From km. 337+400 to 347+670 (Potaliya)
26	14.12.2020	PIL/HO/VK2/IRCON/732 / 2020	Compliance for Source approval of M/s Accurate Infranet for procurement of mesh to be used Chain link fencing in Project Highway- reg.
27	15.12.2020	PIL/ VK2/ IRCON/ 769 / 2020	Submission of Borrow area soil test reports - Reg.
28	15.12.2020	PIL/ VK2/ IRCON/ 770 / 2020	Submission of PQC Mix design.
29	17.12.2020	PIL/ VK2/ IRCON/ 771 / 2020	Revised schedule date for Testing of Elastomeric bearings Manufactured by M/s Hevea Rubber Technologies through Video conferencing for MNB Ch. 324+193 & 343+566.
30	17.12.2020	PIL/ VK2/ IRCON/ 772 / 2020	Submission of 02 nos of Estimates under sub Division Padra - 2.
31	18.12.2020	PIL/ VK2/ IRCON/ 773 / 2020	Submission of Requisite documents for the machinery, i.e. crane to be deployed for Transportation, launching and erection of RCC /PSC / Steel Girders.
32	18.12.2020	PIL/ VK2/ IRCON/ 774 / 2020	Submission for approval of Stage Payment Statement (IPC) Nos. 17 - A & 17 - B for stages completed up to 30.11.2020 as per amendments/modified Schedule – H.
33	19.12.2020	PIL/HO/VKP2/IRCON/737/2020	Submission of Design and Drawing of Precast Box Culvert at Ch. 0+346 at Interchange (Ramp-2) location 323+075.
34	19.12.2020	PIL/ VK2/ IRCON/ 775 / 2020	Submission of Company profile & credentials of "M/S GURU CORPORATION" for source of Micro silica/ fume -approval- Reg.
35	19.12.2020	PIL/ VK2/ IRCON/ 776 / 2020	Submission of Revised Design and Drawing Document for Preliminary basis approval for Reinforced Soil approach ramps for PUP/CUP at Ch. 339+687.
36	19.12.2020	PIL/ VK2/ IRCON/ 777 / 2020	Submission of Design and Drawing Document for Preliminary basis approval for Reinforced Soil approach ramps for LVUP at Ch. 325+769.
37	21.12.2020	PIL/ VK2/ IRCON/ 780 / 2020	Revised schedule date for Testing of Elastomeric bearings Manufactured by M/s Hevea Rubber Technologies through Video conferencing for MNB Ch. 324+193 , 330+640 & 343+566

Details of Letter Correspondence From PIL TO IRCON.

Sr.	Date	Letter Number	Subject
38	21.12.2020	PIL/ VK2/ IRCON/ 781 / 2020	Compliance of 28 Days Compressive Strength of Precast Girder for Ch. 343+566 Seg. 2F, Girder No. 04
39	22.12.2020	PIL/HO/VK2/IRCON/743/2020	Regarding the recommendation of Interim Extension of Time for Project Completion schedule (Schedule - J)
40	22.12.2020	PIL/HO/VKP2/IRCON/747/2020	Submission of Design and Drawing of Precast Box Culvert at Ch. 344+342 at Utility Location.
41	22.12.2020	PIL/ VK2/ IRCON/ 782 / 2020	Submission of Core test results of PQC.
42	22.12.2020	PIL/ VK2/ IRCON/ 783 / 2020	Submission of Core test results of PQC trial patch at ch 335+480 to 335+580 LHS.
43	22.12.2020	PIL/ VK2/ IRCON/ 784 / 2020	Submission of Revised HIT Rebar Design of M/s HILTI India Pvt. Ltd. for Rebar work in pedestal for Metallic Guided bearing for LP4 pier cap & Pin Bearing for LP3 Pier cap at Interchange Ch. 353+666.
44	23.12.2020	PIL/ VK2/ IRCON/ 785 / 2020	Submission of Borrow area soil test reports - Reg.
45	23.12.2020	PIL/ VK2/ IRCON/ 786 / 2020	Submission of Shop Drawings of Strip Seal Type Expansion Joint for MNB Ch. 354+636, MJB Ch 336+810, Interchange Ch. 353+670, VOP Ch. 326+957, ROB Ch. 352+946 & MNB Ch. 350+201 & Ch. 350+143.
46	23.12.2020	PIL/HO/VKP2/IRCON/750/2020	Regarding Submission of revised Drawing of Friction Slab with Crash Barrier.
47	24.12.2020	PIL/ VK2/ IRCON/ 787 / 2020	Submission of Realistic Construction Time Schedule.
48	24.12.2020	PIL/ VK2/ IRCON/ 788 / 2020	Submission of Company profile & credentials of "M/S. GEO SOURCE" for source approval of Coir mate. - Reg.
49	26.12.2020	PIL/ VK2/ IRCON/ 789 / 2020	Submission of Revised Design & Drawings of METALIC GUIDE BEARING - 40 mtr span for MJB at chainage km. 336+810.
50	28.12.2020	PIL/ VK2/ IRCON/ 790 / 2020	Submission of core cutting test results of FUJI Precast Drain.
51	28.12.2020	PIL/ VK2/ IRCON/ 791 / 2020	Submission of soil test results of RE Wall.
52	28.12.2020	PIL/ VK2/ IRCON/ 792 / 2020	Re - Submission of Consolidated Change of Scope (COS).
53	28.12.2020	PIL/HO/VKP2/IRCON/756/2020	Regarding submission of Design & Drawing of Major Bridge Ch.336+810.
54	28.12.2020	PIL/HO/VKP2/IRCON/757/2020	Request to release Bank Guarantees against the recovery of 1st Mobilization advance payment.
55	28.12.2020	PIL/HO/VKP2/IRCON/758/2020	Regarding Submission of revised Plan and Profile from km. 323+000 to 355+000 for Vadodara - Kim Expressway Pkg - II Project.
56	29.12.2020	PIL/ VK2/ IRCON/ 793 / 2020	Submission of Design and Drawing Document for Preliminary basis approval for Reinforced Soil approach ramps for PUP/CUP at Ch. 346+383.
57	29.12.2020	PIL/HO/VKP2/IRCON/762/2020	Compliance Submission of Drawings of Utility duct to be Constructed over shoulder along the line of PQC.
58	30.12.2020	PIL/HO/VKP2/IRCON/768/2020	No Claim Certificate for Extension in Grace Period of MS-III & Schedule Completion Date & rescheduling of MS-III from 450 to 480 dyas.
59	31.12.2020	PIL/HO/VKP2/IRCON/770/2020	Submission of Design and Drawing of Precast Box Culvert at Ch. 0+582 at Interchange (Ramp 1) location 353+666.
60	31.12.2020	PIL/HO/VKP2/IRCON/774/2020	Regarding Submission of revised Plan and Profile from km. 323+000 to 355+000.
61	31.12.2020	PIL/ VK2/ IRCON/ 794 / 2020	Compensation for the damaged crop due to construction work of Expressway at survey no. 343, 340 (old survey no.322) village: Goriyad, Tal.:Padra Dist.:Vadodara-Reg
62	31.12.2020	PIL/ VK2/ IRCON/ 795 / 2020	Submission for approval of Price adjustment for the work done (Stage Payments) for IPC Nos. 18 for stages completed up to 30th November 2020.
63	31.12.2020	PIL/ VK2/ IRCON/ 796 / 2020	Compliance Submission for Company profile & credentials of "M/S GURU CORPORATION" for source of Micro silica/ fume -approval- Reg.

Details of Letter Correspondence From IRCON TO PIL

Sr.	Date	Letter Number	Subject
1	01.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2401	Procedure to be followed in checking of works of VME by the Independent Engineer and Check List to be submitted along with submission of invoices of the Concessionaire for Payment Milestone Achievement and Monthly Payment Certificates for COVID-19 relief measures
2	01.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2402	Delay in the progress of works and likely delay in the achievement of Project Milestone -III and Issuance of Advance Notice for recovery of damages in the event of failure to achieve milestones within time period as per Sub Clause 12.3.2 of Concession Agreement
3	02.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2404	Inspection of Structures, Retaining walls and RE Walls in National Highways
4	02.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2405	Submission of test Reports
5	02.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2406	Submission of Drawings of Utility Duct to be constructed over shoulder along the line of PQC
6	02.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2407	Submission of Design and Drawing of precast Box Culvert at Chainage 0+966 at Interchange (Ramp-1) Location 353+666
7	02.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2408	Land Acquisition issues of Samiyala Village Vadodara
8	05.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2412	Submission of launching methodology drawing for PADRA - BHAILI station (Km. Post 8/4-5) JAMBUSAR - PRATAP NAGAR section of Western Railway at Km. 352+968
9	05.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2413	Compliance for Source approval of M/s Accurate Infranet for procurement of Mesh to be used Chain link fencing in Project Highway
10	05.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2415	Prevention of difficulties faced by farmer while moving to & fro to their farm
11	05.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2416	Profile Approval for the shifting for (1) Shifting of 220 KV Kosamba-Mobha Line no. 1 & 2 between Location no. 238 to 242 at project Ch. 325+132 & 2) Shifting of 220 KV Gavsad - SLPP line no. 1 & 2 between location no. 58 to 62 at Project ch. 326+420
12	05.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2417	GETCO revenue loss to be deposited at concerned DISCOM
13	07.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2420	Regarding important issues to be considered for smooth implementation of Project Highways - Modification / Amendment in Schedule - H "Contract Price Weightages"
14	11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2436	Submission of RA Bill - 01 for shifting / Erection of 11KV lines and LT line under sub division Padra - 2 , Div. Jambuva, From km. 337+400 to 347+670. (Potaliya Enterprise)
15	11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2437	Regarding discrepancies in sequence of work and quality of work for construction of Friction Slab with crash barrier, Subgrade Beam, Anchor Beam, Approach Slab & Terminal Slab in the Project Expressway
16	11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2438	Submission of Revised Highway Plan and Profile From km 323+000 to km 355+000

Details of Letter Correspondence From IRCON TO PIL

Sr.	Date	Letter Number	Subject
17	11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2439	Testing of POT - PTFE bearings manufactured by M/s Steel Auto Ltd. through VC for Flyover at ch. 344+383
18	11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2440	Non Conformance Report (NCR) No. 15 (Reg. Huge Rain Cut from ch 329+450 to 329+650)
19	12.12.2020	MOM dt 12.12.2020	Minutes of Meeting held on 12.12.2020 with M/s Patel Infrastructure Ltd. on planning and execution of Vadodara Kim Expressway Project.
20	12.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2442	Consolidated COS
21	14.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2445	Land Acquisition issues of Samiyala Village , Tal. & Dist. : Vadodara (VME PKG 2)
22	15.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2447	Crops are damaged because of the clay - flying from the vehicles used for the of Expressway
23	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2459	Submission of Compliance on Company profile & credentials for source approval of M/s Polymer Product for procurement of Elastomeric Bearings to be used in project highway
24	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2460	Review of Monthly Progress Report of the Concessionaire for the month of November 2020
25	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2461	Submission of Company profile and Credentials of NABL accredited laboratory M/s Balaji Test House Pvt. Ltd. Ballabgarh.
26	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2462	Submission of Compliance on Company profile & credentials for Source approval of M/s Strata Geo Systems India Pvt. Ltd. for Slope protection works in Project expressway
27	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2463	Submission of Compliance on company profile and Credentials of NABL accredited laboratory M/s Manglam Consultancy Services, Vadoadara
28	19.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2464	Programme of Inspection on the Project Highway for the month of December 2020.
29	21.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2467	Testing of Elastomeric bearings manufactured by M/s Hevea Rubber Technologies Pvt. Ltd. through VC for MNB at Ch. 324+193, 330+640 & 343+566.
30	21.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2468	Submission of PQC Mix design with J K Super / Nuvoco 43 grade Cement.
31	22.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2472	Submission of design & Drawing of METALIC GUIDE BEARING & PIN BEARING for VOP at Ch. Km. 326+957
32	22.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2473	Submission of compliance for submission of Design of Precast Box Culvert at Ch. 0+305 at interchange 323+075 (Ramp 3) ch. 0+015 at intechange ch. 323+075 (Ramp 2) Ch. 0+020 at Interchange ch. 323+075 (Ramp -3 ch. 0+186 at interchange ch. 353+666 (Ramp 2) ch. 0+560 & 0+640 at interchange ch. 353+666 (Loop 3 & Ramp 3) & at ch. 0+966 at interchange 353+666 (Ramp 1)
33	23.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2475	Submission of Design and Drawing of Metallic Guide Bearing and Pin Bearing for Interchange at ch. 323+075, Minor Bridge at Ch. 324+193 and Flyover at Ch. 344+383

Details of Letter Correspondence From IRCON TO PIL

Sr.	Date	Letter Number	Subject
34	23.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2478	Revised Testing schedule of Elastomeric bearings manufactured by M,s Hevea Rubber Technologies Pvt. Ltd. through VC for MNB at ch. 324+193, 330+640 & 343+566
35	23.12.2020	IRCON/ 3019/ VKE/ PATEL / 2479	Submission of Test Results of Borrow Area No. BA-97, 97A, 99 and 99A
36	23.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2481	Request for approval of application for interim Extension of Time for Project Completion Schedule (Schedule -J) in pursuant to Clause 10.5 of the Contract Agreement
37	24.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2491	Regarding important issues to be considered for smooth implementation of Project Highway - Extension in Grace Period & Rescheduling of Project Milestone -III
38	28.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2497	Compensation of the damaged crop due to construction work of Expressway at Survey No. 343, 340 (old Survey No. 322) Village : Goriyad, Tal.: Padra, Dist.: Vadodara
39	28.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2500	Inspection Report of the Independent Engineer for the month of December 2020
40	29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2503	Non Conformance Report (NCR) No. 17 (Reg. Vertical reinforcement for abutment wall are not placed as per drawing in the pile cap A1 RHS at MJB ch 336+810
41	29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2504	Non Conformance Report (NCR) No. 16 (Reg.Staging arrangement for box culvert of IC Flyover at ch 353+670 is not as per submitted design and drawing)
42	29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2505	Submission of Toll Plaza Administrative Building Plan at Interchange Chainage Km. 353+666 for each Loops and Ramps.
43	29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2506	Submission of Layout Toll Plaza Building plan at Interchange Chainage Km. 323+075.
44	30.12.2020	IRCON/ 3019/ VKE/ PATEL / 2509	Submission of Company profile & Credentials of M/s Guru Corporation for source approval of Micro Silica
45	30.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2510	Submission of PQC Mix design with Ultratech / Wonder Cement
46	30.12.2020	IRCON/ 3019/ VKE/ PATEL / 2511	Submission of Test Results of Borrow Area No. BA-94A, 94B, 96A, 96B, 102 and 103
47	31.12.2020	IRCON/ 3019/ VKE/ PATEL / 2518	Submission of methodology for transportation launching and erection of RCC/PSC/ Steel girders and documents for machinery i.e. crane to be deployed for the erection.

Status of Non Conformance Report (NCR)

Date	Ircon Letter	Subject		Date	PIL Letter	Subject		Date	Ircon Letter	Subject	Status
10.04.2019	IRCON/3019/ VKE/PATEL/ 278	Non Conformance Report (NCR 01)	1	17.04.2019	PIL/ HO/ VKP2/ IRCON/ 264 /2019	Compliance to observation's made on Embankment Construction - Reg.					
			2	11.05.2019	PIL/ HO/ VKP2/ IRCON/ 329 /2019	Compliance to observation's made on Embankment construction - Reg.		07.10.2019	IRCON/ 3019/ VKE/ PATEL / 877	Compliance to Observations made on Embankment construction.	
								07.10.2019	IRCON/ 3019/ VKE/ PATEL / 879	Closure of Non Conformance Report (NCR 01)	Closed
			3	18.05.2019	PIL/HO/ VKP2/ IRCON / 346/2019	Compliance to Observation's Made on Embankment Construction- Reg.		24.06.2019	IRCON/3019/ VKE/PATEL/ 537	Compliance to Observations Made on Embankment construction	
								07.10.2019	IRCON/ 3019/ VKE/ PATEL / 877	Compliance to Observations made on Embankment construction.	
								07.10.2019	IRCON/ 3019/ VKE/ PATEL / 879	Closure of Non Conformance Report (NCR 01)	Closed
			4	20.08.2019	PIL/ HO/ VKP2/ IRCON/ 592 /2019	Compliance to observations made on Embankment construction		07.10.2019	IRCON/ 3019/ VKE/ PATEL / 877	Compliance to Observations made on Embankment construction.	
								07.10.2019	IRCON/ 3019/ VKE/ PATEL / 879	Closure of Non Conformance Report (NCR 01)	Closed
20.05.2019	IRCON/3019/ VKE/ PIL / 1003/ 426	Non Conformance Report (NCR 02) - Reg.	1	11.06.2019	PIL/VK2/ IRCON/ 153 /2019	Submission of Non - Conformance Report (NCR 02)		13.07.2019	IRCON/ 3019/ VKE/ PATEL / 634	Closure of Non Conformance Report (NCR 02)	Closed
14.02.2020	IRCON/ 3019/ VKE/ PATEL / 1315	Non Conformance Report (NCR 03)	1	27.02.2020	PIL/ VK2/ IRCON/ 459 / 2020	Non Conformance Report (NCR for Ch . 335+120 to 335+220 LHS) (NCR03)		07.04.2020	IRCON/ 3019/ VKE/ PATEL / 1534	Closure of Non Conformance Reports (NCR 03)	Closed
18.02.2020	IRCON/ 3019/ VKE/ PATEL / 1341	Non Conformance Report (NCR 04)									Pending
16.07.2020	IRCON/ 3019/ VKE/ PATEL / 1818	Non Conformance Report (NCR) No. 5	1	10.08.2020	PIL/ VK2/ IRCON/ 589 / 2020	Request for Closer of NCR Issued Regarding exposed & rusting steel bars – Non Conformance Report (NCR) No. 5 Reg.					
			2	26.08.2020	PIL/ VK2/ IRCON/ 609 / 2020	Request for Closer of NCR 05 Issued Regarding exposed & rusting steel bars & Submission of physical & chemical test results of Steel. – Non Conformance Report (NCR) No. 5 Reg.		31.08.2020	IRCON/ 3019/ VKE/ PATEL / 1980	Closure of Non Conformance Report (NCR No : 05)	Closed
06.08.2020	IRCON/ 3019/ VKE/ PATEL / 1875	Non Conformance Report (NCR) No. 006 & 007 (Reg. Pile cage rusting at ROB 352+946 & Damaged DLC)	1	08.08.2020	PIL/ VK2/ IRCON/ 585 / 2020	Non Conformance Report (NCR) No. 006 & 007 (Reg. Pile cage rusting at ROB 352+946 & Damaged DLC)		14.08.2020	IRCON/ 3019/ VKE/ PATEL / 1910	Closure of Non Conformance Report (NCR No :06 & 07)	Closed
07.08.2020	IRCON/ 3019/ VKE/ PATEL / 1881	Non closure of NCR issued for improper stacking of steel bars - NCR no 5 , Non Conformance Report (NCR)	1	10.08.2020	PIL/ VK2/ IRCON/ 589 / 2020	Request for Closer of NCR Issued Regarding exposed & rusting steel bars – Non Conformance Report (NCR) No. 5 Reg.					
			2	26.08.2020	PIL/ VK2/ IRCON/ 609 / 2020	Request for Closer of NCR 05 Issued Regarding exposed & rusting steel bars & Submission of physical & chemical test results of Steel. – Non Conformance Report (NCR) No. 5 Reg.		31.08.2020	IRCON/ 3019/ VKE/ PATEL / 1980	Closure of Non Conformance Report (NCR No : 05)	Closed
10.10.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2170	Non Conformance Report (NCR) No. 008 (Reg. Rain cuts at Ch 349+750 to 349+950 BHS)	1	07.11.2020	PIL/ VK2/ IRCON/ 725 / 2020	Request for Closer of NCR 008 Issued Regarding rain cuts at Ch. 349+750 to 349+950 BHS, NCR 009 Issued Regarding rain cuts at Ch. 353+150 to 353+400 BHS & NCR 014 Issued Regarding rain cuts at Ch. 352+000 to 352+100 BHS. Non Conformance Report (NCR) No. 008, 009 & 014.		16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)	Closed
10.10.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2171	Non Conformance Report (NCR) No. 009 (Reg. Rain cuts at Ch 353+150 to 353+400 BHS & Wate concrete material dumped on slope of Embankment)	1	07.11.2020	PIL/ VK2/ IRCON/ 725 / 2020	Request for Closer of NCR 008 Issued Regarding rain cuts at Ch. 349+750 to 349+950 BHS, NCR 009 Issued Regarding rain cuts at Ch. 353+150 to 353+400 BHS & NCR 014 Issued Regarding rain cuts at Ch. 352+000 to 352+100 BHS. Non Conformance Report (NCR) No. 008, 009 & 014.		16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)	Closed
14.10.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2192	Non Conformance Report (NCR) No. 010, 011, 012. (Huge Rain cuts from Ch. 325+550 to 325+580 LHS, Ch. 327+580 to 327+650 BHS, Ch. 328+300 to 328+400 BHS)	1	23.10.2020	PIL/ VK2/ IRCON/ 700 / 2020	Request for Closer of NCR 010 Issued Regarding huge rain cuts at Ch. 325+550 to 325+580 LHS, NCR 011 Issued Regarding huge rain cuts at Ch. 327+580 to 327+650 BHS, NCR 012 Issued Regarding huge rain cuts at Ch. 328+300 to 328+400 BHS & NCR 013 Issued Regarding huge rain cuts observed both side at Ch. 336+350 to 336+600. Non Conformance Report (NCR) No. 010, 011, 012 & 013.		05.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2297	Non Conformance Report (NCR 10 , 11 , 12 , 13)	
								16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)	Closed
			2	09.11.2020	PIL/ VK2/ IRCON/ 726 / 2020	Request for Closer of NCR 010 Issued Regarding huge rain cuts at Ch. 325+550 to 325+580 LHS, NCR 011 Issued Regarding huge rain cuts at Ch. 327+580 to 327+650 BHS, NCR 012 Issued Regarding huge rain cuts at Ch. 328+300 to 328+400 BHS & NCR 013 Issued Regarding huge rain cuts observed both side at Ch. 336+350 to 336+600. Non Conformance Report (NCR) No. 010, 011, 012 & 013.					

Status of Non Conformance Report (NCR)

Date	Ircon Letter	Subject		Date	PIL Letter	Subject		Date	Ircon Letter	Subject	Status
17.10.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2205	Non Conformance Report (NCR) No. 013. (Huge Rain cuts from Ch. 336+350 to 336+600 BHS)	1	23.10.2020	PIL/ VK2/ IRCON/ 700 / 2020	Request for Closer of NCR 010 Issued Regarding huge rain cuts at Ch. 325+550 to 325+580 LHS, NCR 011 Issued Regarding huge rain cuts at Ch. 327+580 to 327+650 BHS, NCR 012 Issued Regarding huge rain cuts at Ch. 328+300 to 328+400 BHS & NCR 013 Issued Regarding huge rain cuts observed both side at Ch. 336+350 to 336+600. Non Conformance Report (NCR) No. 010, 011, 012 & 013.		05.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2297	Non Conformance Report (NCR 10 , 11 , 12 , 13)	
								16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)	Closed
			2	09.11.2020	PIL/ VK2/ IRCON/ 726 / 2020	Request for Closer of NCR 010 Issued Regarding huge rain cuts at Ch. 325+550 to 325+580 LHS, NCR 011 Issued Regarding huge rain cuts at Ch. 327+580 to 327+650 BHS, NCR 012 Issued Regarding huge rain cuts at Ch. 328+300 to 328+400 BHS & NCR 013 Issued Regarding huge rain cuts observed both side at Ch. 336+350 to 336+600. Non Conformance Report (NCR) No. 010, 011, 012 & 013.					
27.10.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2246	Non Conformance Report (NCR) No. 014 (Huge Rain cuts observed from ch. 352+000 to 352+100 BHS)	1	07.11.2020	PIL/ VK2/ IRCON/ 725 / 2020	Request for Closer of NCR 008 Issued Regarding rain cuts at Ch. 349+750 to 349+950 BHS, NCR 009 Issued Regarding rain cuts at Ch. 353+150 to 353+400 BHS & NCR 014 Issued Regarding rain cuts at Ch. 352+000 to 352+100 BHS. Non Conformance Report (NCR) No. 008, 009 & 014.		16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)	Closed
05.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2297	Non Conformance Report (NCR Returned) (NCR 10 , 11 , 12 , 13)	1	09.11.2020	PIL/ VK2/ IRCON/ 726 / 2020	Request for Closer of NCR 010 Issued Regarding huge rain cuts at Ch. 325+550 to 325+580 LHS, NCR 011 Issued Regarding huge rain cuts at Ch. 327+580 to 327+650 BHS, NCR 012 Issued Regarding huge rain cuts at Ch. 328+300 to 328+400 BHS & NCR 013 Issued Regarding huge rain cuts observed both side at Ch. 336+350 to 336+600. Non Conformance Report (NCR) No. 010, 011, 012 & 013.					Closed
16.11.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2351	Closure of Non Conformance Report (NCR No. 008, 009, 010, 011, 012, 013 & 014)									Closed
11.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2440	Non Conformance Report (NCR) No. 15 (Reg. Huge Rain Cut from ch 329+450 to 329+650)									
29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2503	Non Conformance Report (NCR) No. 17 (Reg. Vertical reinforcement for abutment wall are not placed as per drawing in the pile cap A1 RHS at MJB ch 336+810)									
29.12.2020	IRCON/ 3019/ VKE/ PATEL /1003/ 2504	Non Conformance Report (NCR) No. 16 (Reg. Staging arrangement for box culvert of IC Flyover at ch 353+670 is not as per submitted design and drawing)									

MONTHLY WEATHER REPORT

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

For The Month of December -2020

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. *(This main)*

S. No.	DATE	TEMPERATURE (°C)		HUMIDITY (%)		RAINFALL (mm)	CUMM. RAINFALL (mm)	WEATHER	REMARKS
		Min.	Max.	Min.	Max.				
1	01-Dec-20	21.2	31.6	40.00	75.00	-	1,284.40	Sunny	
2	02-Dec-20	20.8	30.2	28.00	68.00	-	1,284.40	Sunny	
3	03-Dec-20	21.4	31.2	34.00	75.00	-	1,284.40	Sunny	
4	04-Dec-20	20.9	30.8	28.00	73.00	-	1,284.40	Sunny	
5	05-Dec-20	20.8	30.8	28.00	75.00	-	1,284.40	Sunny	
6	06-Dec-20	20.6	30.9	32.00	78.00	-	1,284.40	Sunny	
7	07-Dec-20	20.1	31.6	28.00	77.00	-	1,284.40	Sunny	
8	08-Dec-20	20.6	31.2	29.00	74.00	-	1,284.40	Sunny	
9	09-Dec-20	20.1	31.6	28.00	76.00	-	1,284.40	Sunny	
10	10-Dec-20	20.0	30.6	75.00	84.00	2.00	1,286.40	Cloudy	
11	11-Dec-20	19.8	29.6	76.00	89.00	9.00	1,295.40	Rainy+Cloudy	
12	12-Dec-20	20.1	30.2	68.00	82.00	-	1,295.40	Cloudy	
13	13-Dec-20	20.4	30.8	62.00	83.00	-	1,295.40	Cloudy	
14	14-Dec-20	20.8	30.6	59.00	85.00	-	1,295.40	Cloudy	
15	15-Dec-20	20.4	30.7	58.00	83.00	-	1,295.40	Cloudy	
16	16-Dec-20	19.6	30.6	53.00	82.00	-	1,295.40	Cloudy	
17	17-Dec-20	18.0	29.6	54.00	85.00	-	1,295.40	Cloudy	
18	18-Dec-20	18.4	29.4	48.00	83.00	-	1,295.40	Cloudy	
19	19-Dec-20	18.1	29.5	52.00	82.00	-	1,295.40	Cloudy	
20	20-Dec-20	18.2	29.6	40.00	81.00	-	1,295.40	Sunny	
21	21-Dec-20	17.2	29.8	32.00	71.00	-	1,295.40	Sunny	
22	22-Dec-20	17.2	28.4	30.00	75.00	-	1,295.40	Sunny	
23	23-Dec-20	17.1	28.0	32.00	70.00	-	1,295.40	Sunny	
24	24-Dec-20	17.9	28.4	37.00	72.00	-	1,295.40	Sunny	
25	25-Dec-20	18.3	28.3	34.00	68.00	-	1,295.40	Sunny	
26	26-Dec-20	18.2	28.5	37.00	72.00	-	1,295.40	Sunny	
27	27-Dec-20	18.0	28.6	36.00	72.00	-	1,295.40	Sunny	
28	28-Dec-20	16.8	28.2	23.00	70.00	-	1,295.40	Sunny	
29	29-Dec-20	15.8	28.5	23.00	72.00	-	1,295.40	Sunny	
30	30-Dec-20	15.2	25.8	36.00	61.00	-	1,295.40	Sunny	
31	31-Dec-20	15.4	25.9	39.00	65.00	-	1,295.40	Sunny	

Cummulative Rainfall Till Date

1,295.40

mm



EPC Representative



Concessionaire Representative



IE Representative

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 Ircan Vadodara Kim Expressway Ltd.
 Independent Engineer Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
 EPC Contractor Ircan International Ltd.
 Contractor Patel Infrastructure Ltd.

MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31st December-2020
 (ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

S. No.	Description	Frequency of Tests	Reference clause of test frequency	Quantity upto previous month	Quantity during Month	Upto Date quantity	Unit of Quantity	Total No of tests upto previous month			No. of tests during the month			Total No of upto date test			Test Witnessed by IE	Remarks
								Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
1.0 Tests on Borrow areas for Embankment and Subgrade								41450	41391	59	1437	1431	6	42887	42822	65	287	
1.1	FSI	1 test /1500 m ³	Mutually Agreed	9451482.7	338794.13	9790276.8	Cum	4912	4912	0	226	226	0	5138	5138	0	45	
1.2	Grain Size Analysis	1 test /1500 m ³	Mutually agreed				Cum	4912	4912	0	226	226	0	5138	5138	0	45	
1.3	LL / PL / PI	1 test /1500 m ³	Morst&h Clause 903.2.1				Cum	4912	4912	0	226	226	0	5138	5138	0	45	
1.4	MDD / OMC	1 test /1500 m ³	Morst&h Clause 903.2.1				Cum	4912	4912	0	226	226	0	5138	5138	0	45	
1.5	CBR Test	1 test /3000 m ³	Morst&h Clause 903.2.1				Cum	914	855	59	8	8	0	922	863	59	2	
1.6	Field Density (Emb. Layer)	1 test /3000 m ²	Morst&h Clause 903.2.2	35786642.4	1355176.5	37141818.9	Sqm	18422	18422	0	324	320	4	18746	18742	4	65	
1.7	Field Density (Sub. Layer)	1 test /2000 m ²	Morst&h Clause 903.2.3	2019289.8	156188.2	2175478.0	Sqm	2466	2466	0	201	199	2	2667	2665	2	40	
2.0 Tests on OGL Samples(MCW & SR)								4086	4078	8	0	0	0	4086	4078	8	0	
2.1	FSI	1 test /250 m	Mutually agreed				Km	226	226	0	0	0	0	226	226	0	0	
2.2	Grain Size Analysis	1 test /250 m	Mutually agreed				Km	226	226	0	0	0	0	226	226	0	0	
2.3	LL / PL / PI	1 test /250 m	Mutually agreed				Km	226	226	0	0	0	0	226	226	0	0	
2.4	MDD / OMC	1 test /250 m	Mutually agreed				Km	226	226	0	0	0	0	226	226	0	0	
2.5	CBR Test	As required	Mutually Agreed				Km	30	30	0	0	0	0	30	30	0	0	
2.6	Field Density (Emb. Layer)	1 test /1000 m ²	Morst&h Clause 903.2.2				Sqm	3152	3144	8	0	0	0	3152	3144	8	0	
3.0 Backfilling Structure Work								500	495	5	265	265	0	765	760	5	53	
3.1	FSI	1 test /1500 m ³	Mutually Agreed	130000.0	6500.00	136500.0	Cum	91	91	0	0	0	0	91	91	0	0	
3.2	Grain Size Analysis	1 test /1500 m ³	Mutually agreed				Cum	91	91	0	0	0	0	91	91	0	0	
3.3	LL / PL / PI	1 test /1500 m ³	Morst&h Clause 903.2.1				Cum	91	91	0	0	0	0	91	91	0	0	
3.4	MDD / OMC	1 test /1500 m ³	Morst&h Clause 903.2.1				Cum	91	91	0	0	0	0	91	91	0	0	
3.5	Field Density (Emb. Layer)	1 test /1000 m ²	Morst&h Clause 903.2.2				520000.0	26000.00	546000.0	Sqm	136	131	5	265	265	0	401	396

[Signature]

[Signature]
 C. Sankar Kumar
 Dam/CMK

[Signature]
 A. H. E.
 { FDD Test witnessed by }
 Site A.H.E.

MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31st December-2020

(ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

S. No.	Description	Frequency of Tests	Reference clause of test frequency	Quantity upto previous month	Quantity during Month	Upto Date quantity	Unit of Quantity	Total No of tests upto previous month			No. of tests during the month			Total No of upto date test			Test Witnessed by IE	Remarks		
								Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed				
4.0 Tests on Granular Sub - Base Course(GSB)								3398	3390	8	615	615	0	4013	4005	8	123			
4.1	Gradation	1 test /400 m ³	Morth Cl. 903.3.3.1	151473.27	49886.41	201359.68	cum	493	485	8	125	125	0	618	610	8	25			
4.2	LL / PL / PI	1 test /400 m ³	Morth Cl. 903.3.3.1				cum	457	457	0	125	125	0	582	582	0	25			
4.3	MDD/OMC	As required	Mutually Agreed				cum	42	42	0	0	0	0	42	42	0	0			
4.4	CBR test	As required	Morth Cl. 903.3.3.1				cum	8	8	0	0	0	0	8	8	0	0			
4.5	10 Percent fine value	1 per Batch	Mutually Agreed				cum	2	2	0	0	0	0	2	2	0	0			
4.6	Field Density	1 test /1000 m ²	Morth Cl. 903.3.3.1				1009821.8	332576.03	1342397.83	Sqm	2396	2396	0	365	365	0	2761	2761	0	73
5.0 Tests on Aggregate Base Course(WMM)								0	0	0	0	0	0	0	0	0	0			
5.1	Mix aggregate Gradation	1 test /100 m ³	Morth Cl. 903.3.1 (Table 900-3)				Cum	0	0	0	0	0	0	0	0	0	0			
5.2	Plasticity Index	1 test /100 m ³	Morth Cl. 903.3.1 (Table 900-3)				Cum	0	0	0	0	0	0	0	0	0	0	0	0	
5.3	Aggregate Impact Value	1 test /200 m ³	Morth Cl. 903.3.1 (Table 900-3)				Cum	0	0	0	0	0	0	0	0	0	0	0	0	
5.4	Flakiness & Elongation Test	1 test /200 m ³	Morth Cl. 903.3.1 (Table 900-3)				Cum	0	0	0	0	0	0	0	0	0	0	0	0	
5.5	Water Absorption	As required	Mutually Agreed				Cum	0	0	0	0	0	0	0	0	0	0	0	0	
5.6	Proctor Test	As required	Mutually Agreed				Cum	0	0	0	0	0	0	0	0	0	0	0	0	
5.7	Field Density	1 test /500 m ²	Morst&h Table No. 900-3				Sqm	0	0	0	0	0	0	0	0	0	0	0	0	
6.0 Bitumen								0	0	0	0	0	0	0	0	0	0			
6.1	Specific Gravity	1 test per lot/Batch	IS 73-Table 2				MT	0	0	0	0	0	0	0	0	0	0			
6.2	Penetration @ 25 degree	1 test per sample	Table no. 2 of IS 73 and Cl. 7				MT	0	0	0	0	0	0	0	0	0	0	0	0	
6.3	Softening point (R & B)	1 test per sample	Table no. 2 of IS 73 and Cl. 7				MT	0	0	0	0	0	0	0	0	0	0	0	0	
6.4	Absolute viscosity @ 60 degree	1 test per Sample	Table no. 2 of IS 73 and Cl. 7				MT	0	0	0	0	0	0	0	0	0	0	0	0	
6.5	Kinematic Viscosity @ 135 degree	1 test per Sample	Table no. 2 of IS 73 and Cl. 7				MT	0	0	0	0	0	0	0	0	0	0	0	0	

MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31ST December-2020

(ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

Sl. No.	Description of Test	Frequency of Tests	Reference clause of test frequency	Quantity upto previous month	Quantity during Month	Upto Date quantity	Unit of Quantity	Total No of tests upto previous month			No. of tests during the month			Total No of upto date test			Test Witnessed by IE	Remarks
								Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
7.0 Fine Aggregate(Sand for Concrete)								1086	1086	0	62	62	0	1148	1148	0	12	
7.1	Sieve Analysis (Gradation)	1 test per subplot divided	IS 2340 Cl.4				MT	531	531	0	31	31	0	562	562	0	6	
7.2	Material passing 75 micron (Silt Content)	1 test per subplot divided	IS 2340 Cl.4				MT	531	531	0	31	31	0	562	562	0	6	
7.3	Water absorption	1 test per subplot divided	IS 2340 Cl.4				MT	12	12	0	0	0	0	12	12	0	0	
7.4	Specific gravity (SSD)	1 test per subplot divided	IS 2340 Cl.4				MT	12	12	0	0	0	0	12	12	0	0	
8.0 Coarse Aggregate(For Concrete)								1231	1231	0	39	39	0	1270	1270	0	8	
8.1	Sieve Analysis (Gradation)	1 test per subplot divided	IS 2340 Cl.4				MT	532	532	0	31	31	0	563	563	0	6	
8.2	Aggregate Impact Value	1 test per subplot divided	IS 2340 Cl.4				MT	340	340	0	4	4	0	344	344	0	1	
8.3	Flakiness Index	1 test per subplot divided	IS 2340 Cl.4				MT	341	341	0	4	4	0	345	345	0	1	
8.4	Specific gravity (SSD)	1 test per subplot divided	IS 2340 Cl.4				MT	9	9	0	0	0	0	9	9	0	0	
8.5	Water absorption	1 test per subplot divided	IS 2340 Cl.4				MT	9	9	0	0	0	0	9	9	0	0	
8.6	Los Angeles Abrasion Value	1 test per subplot divided	IS 2340 Cl.4				MT	0	0	0	0	0	0	0	0	0	0	
8.7	Material passing 75 micron	1 test per subplot divided	IS 2340 Cl.4				MT	0	0	0	0	0	0	0	0	0	0	
9.0 Cement								1746	1746	0	165	165	0	1911	1911	0	33	
Physical Tests																		
9.1	Standard Consistency Test	1 test per lot	IS 3535 Cl. 5.5.2 & 5.6.1				MT	296	296	0	23	23	0	319	319	0	5	
9.2	Soundness Test	1 test per lot	IS 3535 Cl. 5.5.2 & 5.6.1				MT	0	0	0	0	0	0	0	0	0	0	
9.3	Setting time Test	1 test per lot	IS 3535 Cl. 5.5.2 & 5.6.1				MT										0	
	(a) Initial Setting time						MT	296	296	0	23	23	0	319	319	0	5	
	(b) Final Setting Time						MT	296	296	0	23	23	0	319	319	0	5	
9.4	Compressive Strength Test	1 test per lot	IS 3535 Cl. 5.5.2 & 5.6.1				MT											
	(A) 72+ 1 Hr. strength						MT	312	312	0	32	32	0	344	344	0	6	
	(b) 168 + 2 Hr. strength						MT	286	286	0	30	30	0	316	316	0	6	
	(c) 672 + 4 Hr. strength						MT	260	260	0	34	34	0	294	294	0	7	


Dew C





MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31ST December-2020
(ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

Sl. No.	Description	Frequency Tests	Reference test	Specified strength	Specified quantity	Specified quantity	Total No of tests upto previous month			No. of tests during the month			Total No. of tests upto date test			Test Witnessed by IE	Remarks
							Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
10.0 Site Concrete							23560	23560	0	2173	2173	0	25733	25733	0	435	
10.1	Grouting	Frequency according to table 1700-8	As per Morth 1716.2.4				Cum										
	7 days compressive strength						Cum	0	0	0	6	6	0	6	6	0	4
	28 days compressive strength						Cum	0	0	0	4	4	0	4	4	0	4
10.2	M 15 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4				Cum										
	7 days compressive strength						Cum	0	0	0	0	0	0	0	0	0	0
	28 days compressive strength						Cum	0	0	0	0	0	0	0	0	0	0
10.3	M 20 Kerb	Frequency according to table 1700-8	As per Morth 1716.2.4	160.50			Cum										
	7 days compressive strength						Cum	18	18	0	21	21	0	39	39	0	4
	28 days compressive strength						Cum	12	12	0	57	57	0	69	69	0	11
10.4	M 20 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	1535.36			Cum										
	7 days compressive strength						Cum	1007	1007	0	164	164	0	1171	1171	0	33
	28 days compressive strength						Cum	2126	2126	0	137	137	0	2263	2263	0	27
10.5	M 25 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	0.00			Cum										
	7 days compressive strength						Cum	0	0	0	0	0	0	0	0	0	0
	28 days compressive strength						Cum	0	0	0	0	0	0	0	0	0	0
10.6	M 30 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	2261.94			Cum										
	7 days compressive strength						Cum	848	848	0	111	111	0	959	959	0	22
	28 days compressive strength						Cum	2710	2710	0	266	266	0	2976	2976	0	53
10.7	M 35 Pile	Frequency according to table 1700-8	As per Morth 1716.2.4	305.00			Cum										
	7 days compressive strength						Cum	1021	1021	0	18	18	0	1039	1039	0	4
	28 days compressive strength						Cum	5231	5231	0	99	99	0	5330	5330	0	20


EPC Representative



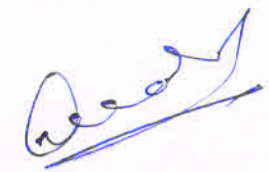

PMC Representative

MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31st December-2020
(ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

S. No.	Description	Frequency	As per Morth	Cubes	Beams	Cylinders	Dec-20			Nov-20			Oct-20			Test Witnessed by IE	Remarks
							Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed		
10.7	M 35 RE	Frequency according to table 1700-8	As per Morth 1716.2.4	0.00			Cum										
	7 days compressive strength						Cum	161	161	0	0	0	0	161	161	0	0
	28 days compressive strength						Cum	604	604	0	0	0	0	604	604	0	0
10.7	M 35 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	4941.38			Cum										
	7 days compressive strength						Cum	1476	1476	0	90	90	0	1566	1566	0	18
	28 days compressive strength						Cum	5500	5500	0	252	252	0	5752	5752	0	50
10.8	M 40 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	567.75			Cum										
	7 days compressive strength						Cum	175	175	0	35	35	0	210	210	0	7
	28 days compressive strength						Cum	423	423	0	119	119	0	542	542	0	24
10.9	M 45 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	1259.70			Cum										
	7 days compressive strength						Cum	72	72	0	48	48	0	120	120	0	10
	28 days compressive strength						Cum	267	267	0	105	105	0	372	372	0	21
10.1	M 50 Grade	Frequency according to table 1700-8	As per Morth 1716.2.4	1261.50			Cum										
	7 days compressive strength						Cum	20	20	0	22	22	0	42	42	0	4
	28 days compressive strength						Cum	41	41	0	60	60	0	101	101	0	12
10.11	DLC Concrete	3 samples per 1000 sqm	As per Morth 903.5.1.1	106915.39	39572.58	146487.97	Cum										
	7 days compressive strength						Cum	364	364	0	19	19	0	383	383	0	4
	Insitu Density	3 density holes per 1000 sqm	As per Morth 903.5.1.2				Cum	838	838	0	208	208	0	1046	1046	0	42
10.12	PQC Grade Concrete	2 cubes and 2 beams per 150 cum or Min 6 cubes or 6 beams per day	As per Morth 1716.2.4	126337.23	73437.41	199774.64	Cum										
	7 days compressive strength						Cum	124	124	0	26	26	0	150	150	0	5
	28 days compressive strength						Cum	199	199	0	140	140	0	339	339	0	28
10.13	7 days flexural strength						Cum	124	124	0	26	26	0	150	150	0	5
	28 days flexural strength						Cum	199	199	0	140	140	0	339	339	0	28


EPC Representative





MONTHLY QUALITY CONTROL AND ASSURANCE STATEMENT UPTO 31ST December-2020
(ROUTINE QUALITY CONTROL TEST IN PACKAGE-II LABORATORY)

Sl. No.	Tests	Frequency	As per	No. of tests upto	No. of tests during the month		No. of tests during the month		No. of tests during the month	No. of tests during the month	No. of tests during the month	No. of tests during the month	No. of tests during the month	
					Passed	Failed	Passed	Failed						
11.0 Slump Test				0	0	0	478	478	0	478	478	0	96	
11.1	M 10 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	0	0	0	0	0	0	0
	Slump test at Plant			Cum	0	0	0	0	0	0	0	0	0	0
11.2	M 15 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	0	0	0	0	0	0	0
	Slump test at Plant			Cum	0	0	0	0	0	0	0	0	0	0
11.3	M 20 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	20	20	0	20	20	0	4
	Slump test at Plant			Cum	0	0	0	20	20	0	20	20	0	4
11.4	M 25 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	0	0	0	0	0	0	0
	Slump test at Plant			Cum	0	0	0	0	0	0	0	0	0	0
11.5	M 30 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	29	29	0	29	29	0	6
	Slump test at Plant			Cum	0	0	0	29	29	0	29	29	0	6
11.6	M 35 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	63	63	0	63	63	0	13
	Slump test at Plant			Cum	0	0	0	63	63	0	63	63	0	13
11.7	M 40 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	52	52	0	52	52	0	10
	Slump test at Plant			Cum	0	0	0	52	52	0	52	52	0	10
11.8	M 45 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	35	35	0	35	35	0	7
	Slump test at Plant			Cum	0	0	0	35	35	0	35	35	0	7
11.9	M 50 Grade	1 test(on composite samples) per each mixture unit	As per IS 1199 cl. 3.2 and 3.3	Cum										
	Slump test at Site			Cum	0	0	0	20	20	0	20	20	0	4
	Slump test at Plant			Cum	0	0	0	20	20	0	20	20	0	4
11.10	PQC Grade Concrete	1 test per per each dumper	As per Morth Cl. 904.5.2.4 (Table-900-6)	Cum										
	Slump test at Site			Cum	0	0	0	0	0	0	0	0	0	0
	Slump test at Plant			Cum	0	0	0	0	0	0	0	0	0	0
11.11	Texture Depth Test	Per day 5 Measurements	As per MORT&H Cl. 602.9.8.4 (Table-600-2)	0	0	0	40	40	0	40	40	0	8	
Total Tests				77057	76977	80	5234	5228	6	82291	82205	86	1047	
Total Laboratory tests				49647	49580	67	3433	3433	0	53080	53013	67	687	
Total Field Tests				27410	27397	13	1801	1795	6	29211	29192	19	360	


EPC Representative


PMC Representative


PMC Representative

XI. ACCIDENT REPORT

Month : December 2020

Accident Report

Status	Minor	Serious	Serious (RU)	Fatal	Fatal (Road user)	Property Damage	Property Damage (Rental)
Upto Previous Accidents	2	1	0	2	0	1 Dumper	0
This Month	0	0	0	0	0	0	0
Total Accidents upto December 2020	2	1	0	2	0	1 Dumper	0



323+074 INTERCHANGE



353+666 INTERCHANGE



336+810 MAJOR BRIDGE



350+143 MNB ABUTMENT CAP CONCRETE POURING WORK

KIM



VADODRA

LVUP
@ Km 335+402

335+402 LVUP

KIM



VADODRA

351+284 VUP SLAB REINFORCEMENT WORK

KIM



VADODRA

CUP
@ Km 336+355

336+355 CUP MEDIAN WALL WORKING PROGRESS



354+636 MNB GIRDER CASTING WORK



KERB LAYING WORK AT CHAINAGE 345+950 LHS



PRECAST "U" DRAIN LAYING AT CH 334+700



CHAIN LINK FENCING WORK AT CH 339+300



TOE DRAIN FINISHING WORK TOE DRAIN AT CH 339+300



SLOPE PROTECTION WITH GEO CELL AT CH 335+500



SLOPE PROTECTION WITH COIR MATE WORK AT CH 339+300



SLOPE ROLLING AT CH 335+600



SOIL FILL IN PROGRESS ON GEO CELL AT CH 335+560 RHS



PQC LAYING AT CH 345 RHS



PQC LAYING CH 328+250 TO 328+770 RHS



TEXTURING & CURING COMPOUND OF PQC 327+358 TO 327+500 LHS



PQC LAYING 337+110 to 337+342 RHS

25-Dec-2020 at 3:34:30 PM



DLC LAYING AT CH 336+300



FDD Testing of SG TOP 349+260 to 349+380



WATERING & ROLLING EMBANKMENT LAYER CH.351.860 TO 351.950



UTILITY DUCT CONCRETE WORK AT CH 334+200