



NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport and Highways)

Construction of Eight lane Vadodara Kim Expressway from Km 323.00 to Km 292.00 (Sanpa to Manubar Section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on Hybrid Annuity Mode (Phase IA-Package III)

MONTHLY PROGRESS REPORT 08 FOR THE MONTH OF OCTOBER-2019

PATEL[®]

Every Milestone is Our Value

Client	: NATIONAL HIGHWAYS AUTHORITY OF INDIA.
Concessionaire	: Patel Vadodara - Kim Expressway Private Limited.
Independent Engineer	: Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.
EPC Contractor	: Patel infrastructure Limited.

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1.0 EXECUTIVE SUMMARY

The Patel Vadodara - Kim Expressway Private Limited. has been awarded Construction of Eight Lane Vadodara Kim Expressway from Km 323.00 to Km 292.00 (Sanpa to Manubar)Section of Vadodara Mumbai Expressway) in the State of Gujarat Under NHDP Phase - VI on Hybrid Annuity Mode (Phase IA- Package III).

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 Bharuch Districts. The Function of expressway is to cater for movement of heavy volumes 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 or commercial concentrations, and the central business district. 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 and passengers and pedestrian traffic are not permitted on these highways.

This report covers the activities for the month of October 2019. The Embankment work of the main carriageway is started and 22.4 Km of work is in progress and Embankment top in 1.04 Km has been completed and Sub grade top has been completed in 0.55 Km. The overall Physical progress as on 31st October 2019 is assessed to be approximately 20.38%. The financial progress achieved 31st October 2019 is assessed to be 20.99 %.

The Project involves the Eight Lane new alignment with divided carriageway having total 119 structures which include 1-ROB, 1-Flyover, 1-VOP, 3-MJBs.

The Major National Highways and State Highways intersecting the project corridor are NH-228, SH-161.

1.1 Construction progress in current month

Key reporting metrics	Value/ %/ Amount
Scheduled Physical Progress (%)	20.40%
Cumulative Physical Progress up to current month (%)	20.38%
Physical Progress during current month (%)	1.91%
Financial progress (%)	20.99%
Cumulative Expenditure till date (Rs Cr)	341.49 Cr.
Tests passed as % of total tests witnessed by IE	
Number of pending COS proposals	NIL
Amount for pending COS (Rs Cr)	NIL

1.2 Project Synopsis

National Highways Authority of India plans to undertake the Construction of new alignment 8-lane from Sanpa to Manubar from Km 323.00 to Km 292.00 in the State of Gujarat under NHDP Phase-VI on Hybrid Annuity Mode (Length 31.00 Km.) – Package III.

The project involves new alignment from Km 323.00 to Km 292.00 the 8-lane divided carriageway. It includes the construction of bridges, intersections, Connecting roads, culverts and related infrastructure, and the installation of signaling systems and signboards. The project will be developed under National Highways Development Project (NHDP) Phase-VI on Hybrid Annuity Mode.

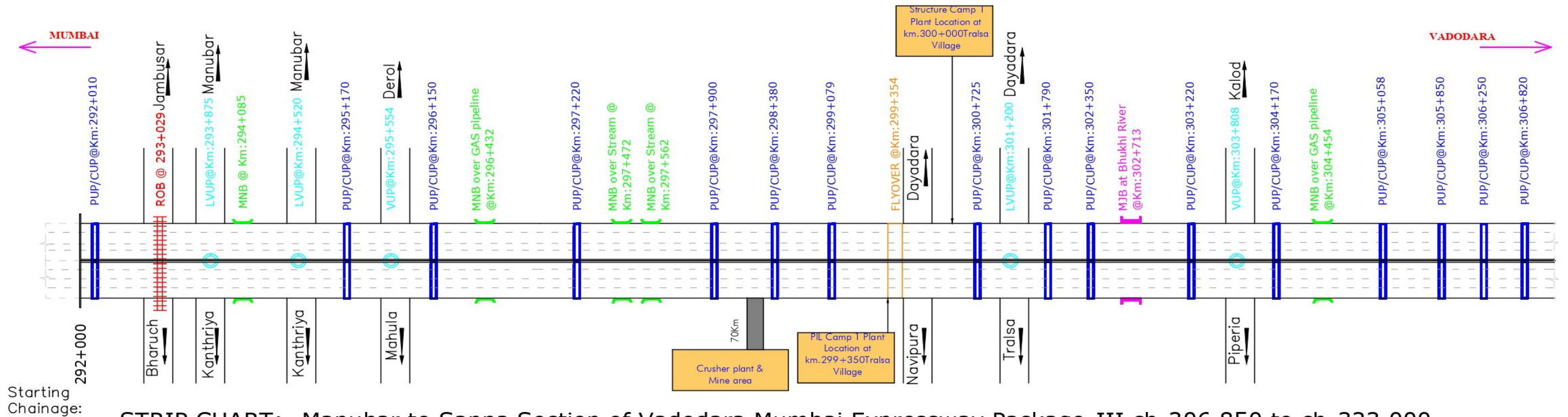
Proposed alignment

Sr.No	Design Chainage		Length	Village	Remark
1	323+000	321+600	1.40	Matar Talpad	
2	321600	318+900	2.70	Suthodara	
3	318+900	317+200	1.70	Danda	
4	317+200	314+300	2.90	Dora	
5	314+300	310+900	3.40	Simartha	
6	310+900	307+750	3.15	Kurchan	
7	307+750	305+550	2.20	Karela	
8	305+550	301+200	4.35	Kelod	
9	301+200	300+500	0.70	Tralsa	
10	300+500	297+550	2.95	Dayadara	
11	297+550	296+050	1.50	Tralsi	
12	296+050	293+850	2.20	Derol	
13	293+850	292+700	1.15	Tham	
14	292+700	292+000	0.70	Manubar	
		Total	31	Km	

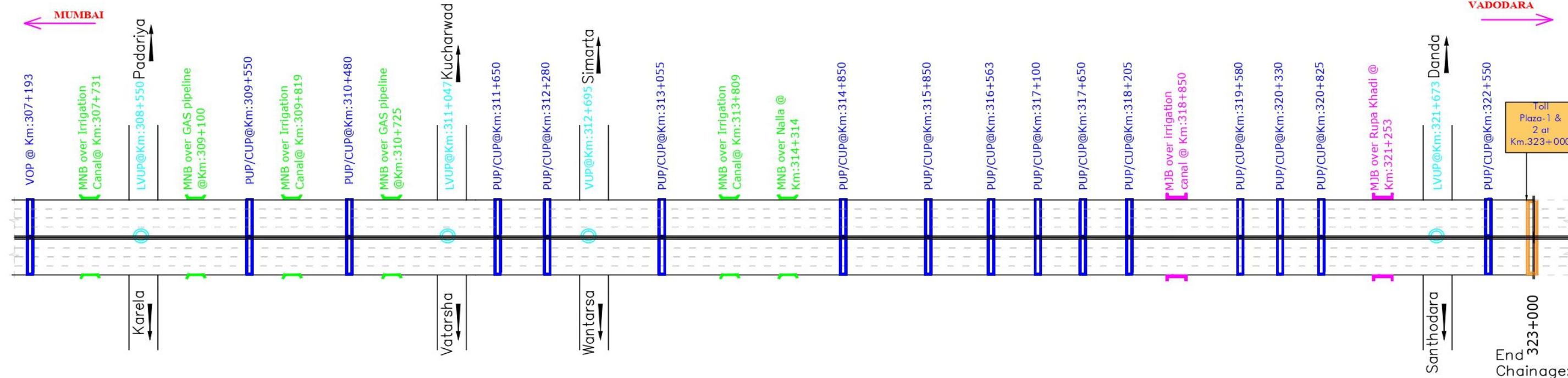
1.3 Strip Plan (Summary)

1. Work front Unavailable & reason for Unavailability			2. Length completed by layer (MCW)			3. Length completed by layer (Service Road)		
	Length (km)	% Total Pending Length		Length (km)	% Total Length		Length (km)	%Total Length
Total Length	31.00	100%	Total Length	31.00	100%	Total Length	-	-
Total Work front Unavailable (A=B+C)	5.515	17.79%	Total Length Completed (Till PQC)	-	-	Total Length Completed (Till DBM)	-	-
Pending Land Acquisition(B)	1.075	3.47%	PQC	-	-	BC	-	-
			DLC	-	-	DBM	-	-
Pending Clearances Encumbrances(Utilities like electrical,water, tree cutting)(C)	4.440	14.32%	GSB	-	-	WMM	-	-
			Sub-Grade	0.55	1.77%	GSB	-	-
			Embankment Top	1.04	3.54%	Embankment Top	-	-
			Embankment (WIP)	22.40	72.25%	Sub-Grade	-	-
			C&G	23.17	74.74%	C&G	-	-

STRIP CHART:- Manubar to Sanpa Section of Vadodara Mumbai Expressway Package-III ch-292.000 to Ch-306.850



STRIP CHART:- Manubar to Sanpa Section of Vadodara Mumbai Expressway Package-III ch-306.850 to ch-323.000



LEGENT:

	Major Bridge(MJB)		Under Pass (PUP/CUP)
	Minor Bridge(MNB)		Flyover
	Grade Separated Structure (VUP/LVUP)		Toll Plaza
	Railway Over Bridge (ROB)		Rigid Pavement

Salient Features of Project:

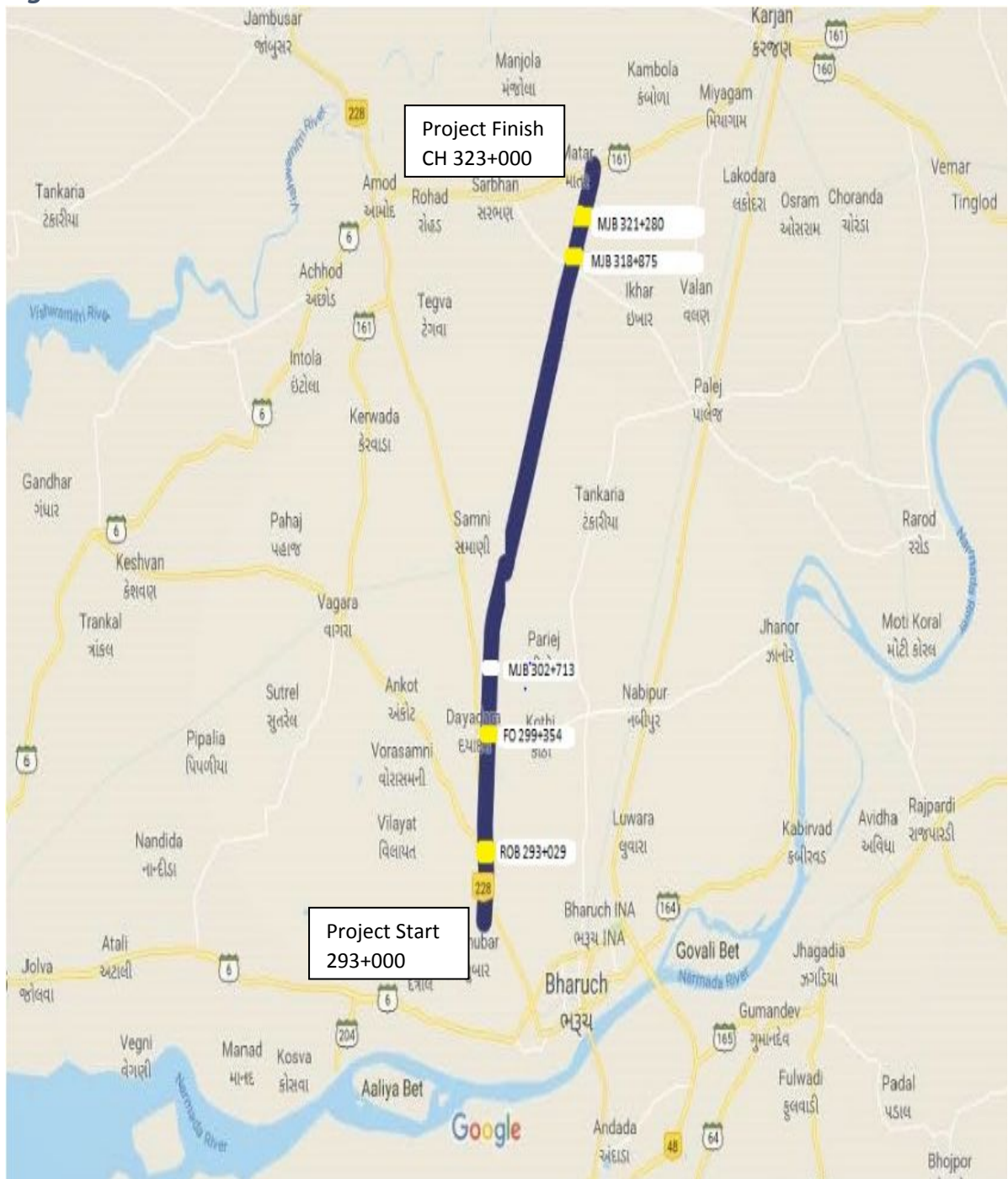
Sl No	Description	Unit	Scope	Sl No	Description	Unit	Scope	Sl No	Description	Unit	Scope
1.	Total Length of Project	Km	31.000	5.	Hume Pipe Culvert	Nos.	35	9.	Flyover	Nos.	01
2.	Length of Connecting Road	Km	1.495	6.	Minor Bridge (over stream)	Nos.	07	10.	Major Intersection	Nos.	01
3.	Length of Cross Road at VOP	Km	0.930	7.	MNB over GAS Pipeline	Nos.	04	11.	Toll Plaza	Nos.	01
4.	Culverts			8.	Major Bridge	Nos.	03				
i.	Box Culvert for Cross drainage	Nos.	21		VOP/PUP/CUP	Nos.	31				
ii.	Box Culvert For Interchange	Nos.	04		ROB	Nos.	01				

Drawing Title

Strip Plan - Manubar to Sanpa Section of Vadodara Mumbai Expressway Package-III CH.-292.000 to CH.-323.000

Date.	Project No.
14-02-2019	

Figure1 Location MAP



2.0 Project Overview

2.1 Salient Features of Project

Sr. No.	Component	Remarks
1	Project	Construction of Eight lane Vadodara Kim Expressway from Km Km 323.00 to 292.00 (Sanpa to Manuba Section of Vadodara Mumbai Expressway) in the State of Gujarat under NHDP Phase - VI on Hybrid Annuity Mode (Phase IA-Package III)”
2	Name of the Employer	National Highways Authority of India
3	Name of Concessionaire	Patel Vadodara Kim Expressway Pvt. Ltd.
4	Name of EPC Contractor	Patel Infrastructure Ltd.
5	Independent Engineer	Aarvee Associates Architects Engineers & Consultants Pvt. Ltd
6	Design Consultant	SPECIALIZED ENGINEERING SERVICES PVT. LTD
7	Project Length (In Km)	31.00 Km
8	Date of Concession Agreement	11th May, 2018
9	Appointed Date	08th March 2019
10	Scheduled Date of Completion	07th March 2021
11	Total Project Bid Cost as per CA	1712.00 Cr.
12	Project Cost (60 % of Bid Cost as per article 42)	1027.20 Cr.
13	Construction Period	2 Years (730 days)
14	Maintenance Period	15 Years
15	Total Concession Period	17 Years

2.2 Project Overview

2.2.1 Structures & Other Works

Sr. No.	Feature	Description
1	Major Bridge	03 Nos.
2	Flyover	01 No.
3	ROB	01 No.
4	Minor bridges	11 Nos.
5	Vehicular underpass	03 Nos.
6	Light Vehicular Underpasses	07 Nos.
7	Pedestrian Underpass	30 Nos.
8	Vehicular Overpasses	01 No.
9	Toe Wall/Retaining Wall	1.89 Km
10	RE Wall	26446 Sqm.
11	Culverts (HP/BC)	62 Nos. (35 Nos. Pipe / 27 Nos. Box)
12	Toll Plaza	2 Nos.
13	Truck Parking Facility	02 Nos.
14	Rest Area/Toilet Facility	03 Nos.
15	Helipad	01 No.
16	Emergency Cross Over	06 nos.
17	Noise Barrier	10.5 km
18	Rain Water Harvesting Structures	62 nos.

2.2.2 Highway

Sr. No.	Feature	Description
1	Embankment	29.371 Km
2	Subgrade	29.371 Km
3	G.S.B	29.371 Km
4	D.L.C	29.371 Km
5	P.Q.C	29.371 Km
6	Service Road/Slip Roads	02.430 Km

2.2.3 PROJECT LOCATION

The Project consists of new alignment of 8 lane of Sanpa to Manubar Section of Vadodara Mumbai Expressway. The project road stretch is a part of Vadodara Mumbai Expressway, which covers main cities like Vadodara, Surat, Thane and Mumbai. Major built up areas along the stretch under development are Ankleshwar, Bharuch, Valsad, and Navsari.

2.2.4 PROJECT DESCRIPTION

The road passes through plain and rolling terrain. Land use is mostly agricultural land. The entire length of the project road falls in the state of Gujarat under Bharuch Districts. The Function of expressway is to cater for movement of heavy volumes 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 or commercial concentrations, and the central business district. They are divided highways with high standards of geometric and fully control of access and provided generally with grade separation at intersections. Parking, loading and unloading of goods and passengers and pedestrian traffic are not permitted on these highways.

2.3 Project Milestones

Sr. No.	Project Milestone	Period to achieve the Milestone	Required % of Physical & Financial Work Completion to Achieve Milestone	Date of Milestone Achievement as per CA	Financial Progress (INR in Cr.)
1	Milestone - 1	150 Th DAY	20%	05/08/2019	342.4
2	Milestone – 2	330 Th DAY	35%	01/02/2020	599.2
3	Milestone – 3	480 Th DAY	75%	30/06/2020	1284.0
4	Milestone – 4	730 Th DAY	100%	07/03/2021	1712.0

2.4 Critical Issues & Action Log

Sr.No	Issue Description	Type	Ongoing/ New Issue/ Resolved	Concerned Authority	Chainage (s) affected due to the issue	Length affected (km)	Action(s) taken till now	Action(s) suggested by the IE	Expected date/ Actual Date for resolving issue
1	Land Acquisition		Ongoing	Details as per 4.1 LA Summary: Page no 36					
2	Utility Shifting		Ongoing	Details as per 4.3 Status of utility shifting: Page no 42					

3.0 Physical Progress

Component	% Weightage	Physical Progress (During Current Month)	Physical Progress (Cumulative Up to Current Month)
Road Work	69.024%	0.53%	11.63%
Major Bridge Works	17.368 %	2.27%	8.47%
Structures	0.84 %	-	-
Others	12.768 %	-0.89% *	0.28%
Total Physical Progress		1.91%	20.38%

* Negative Progress in others works is Due to Revision in Weightage of work as per approved Schedule G.

3.0 A)Progress Details as per Schedule-B- Highway

Main Expressway TCS (Appendix B-I (A))

Sr. No.	From	To	Side	Length	TCS Type	Emb. work in Progress	Emb. Top	Subgrade work
1	292+000	292+600	BHS	600.00	TCS 1	0		
2	292+600	292+790	BHS	190.00	TCS 4	0		
3	292+790	293+310	BHS	520.00	ROB/Structure	450		
4	293+310	293+500	BHS	190.00	TCS 4	140		
5	293+500	294+270	BHS	770.00	TCS 1	760		
6	294+270	294+520	BHS	250.00	TCS 2	350		
7	294+520	299+100	BHS	4580.00	TCS 1	2690	120	
8	299+100	299+350	BHS	250.00	TCS 4/Structure	200		
9	299+350	299+750	BHS	400.00	TCS 6/Structure	325		
10	299+750	299+770	BHS	20.00	TCS 5	0		
11	299+770	306+250	BHS	6480.00	TCS 1	5410	335	345
12	306+250	306+380	BHS	130.00	TCS 2	70		
13	306+380	308+275	BHS	1895.00	TCS 1	1225		
14	308+275	308+550	BHS	275.00	TCS 2	50		
15	308+550	311+550	BHS	3000.00	TCS 1	2650	185	
16	311+550	311+750	BHS	200.00	TCS 2	200		
17	311+750	314+350	BHS	2600.00	TCS 1	2320		
18	314+350	314+510	BHS	160.00	TCS 3	160		
19	314+510	318+900	BHS	4390.00	TCS 1	3190		
20	318+900	318+980	BHS	80.00	TCS 2	80		
21	318+980	322+450	BHS	3470.00	TCS 1	2830	383	200
22	322+450	323+000	BHS	550.00	TCS 5	70	20	
	Total			31000		23170	1043	545
Connecting Road (Appendix B-III (A))								
1	299+350	299+750	LHS	400.00	TCS-6			

Sr. No.	From	To	Side	Length	TCS Type	Emb. work in Progress	Emb. Top	Subgrade work
2	314+350	314+510	LHS	160.00	TCS 3			
3	294+270	294+520	RHS	250.00	TCS 2			
4	306+250	306+380	RHS	130.00	TCS 2			
5	308+275	308+550	RHS	275.00	TCS 2			
6	311+550	311+750	RHS	200.00	TCS 2			
7	318+900	318+980	RHS	80.00	TCS 2			
Cross Road at VOP Locations (Appendix B-I (C))								
1	000+000	000+075		75.00	TCS 8			
2	000+075	000+825		750.00	TCS 9			
3	000+825	000+930		105.00	TCS 8			

3.0 B) STRUCTURE WORKS: -

Sr. No.	Type of Structure	Total No. of Structures	No. of Structures Tackled	No. of Structures Completed	No. of Structures in Balance	
					In Progress	Balance
1	ROB	1	1	0	1	0
2	Major Bridge	3	3	0	3	0
3	Minor Bridges	11	2	0	2	9
4	Flyover	1	1	0	1	0
5	Vehicular Underpass	3	2	0	2	1
6	Light Vehicular Underpass	7	4	0.5	3.5	3
7	Cattle Underpass	30	18	2	16	12
8	Vehicular Overpass	1	0	0	0	1
9	Box Culverts	27	6	3	3	21
10	Pipe Culverts	35	28	20	8	7

All Structure works as per CA- Scope vs Progress

Structure Type	Location	Span Arrangement	Pile Group		Pile Cap/ Raft		Pier. Shaft/ Abutment /Wall		Abt. cap		RCC Girder		PSC Girder		Slab		Crash Barrier	
			Scope	Comp	Scope	Comp	Scope	Comp	Scope	Comp	Scope	Comp	Scope	Comp	Scope	Comp	Scope	Comp
ROB	293+050	2x(25.525+25+25.52)+27.9 + (8 to 28.1)varies+1x38+44+(6.00to26.1)+3x(25.52+25+25.52)	42	28.49	42	14	42	3	42		14		182		34		2097	
MJB	302+732	37.847+38.045+37.847	8	8	8	8	8		8				42		6		455	
MJB	318+875	2x32.2+1x15.85	4	3	4	-	8		8		14		28		6		321	
MJB	321+280	2x37.658	6	6	6	6	6	3	6				28		4		301	0
FLYOVER	299+375	16.859+33.201+16.859	8	6	8	6	16		8		28		14		6		268	
VUP	295+575	1x12	-	-	1	0.5	2		-		-				1		24	
VUP	303+830	1x12	-	-	1	1	2	0.5	-		-				1		24	
VUP	312+720	1x12	-	-	1	-	2		-		-				1		24	
VOP	307+193	1x2	3	0	3	-	3		3		-		8		2		24	
MNB	294+105	1x12.880	-	-	2	-	4		-		-		-		2		26	
MNB	296+450	1x27.846	-	-	4	-	4		4		14		-		2		111	
MNB	297+500	1x17.688	-	-	4	-	4		-		-		-		2		35	
MNB	297+580	1x37.341	4	4	4	-	4		4		-		14		2		149	
MNB	304+450	1x22.687	-	-	4	-	4		4		14		-		2		91	
MNB	307+754	1x36.54	4	4	4	4	4		4				14		2		146	
MNB	309+090	1x45.200	4	-	4	-	4		4		-		44		2		181	
MNB	309+873	1x23.688	-	-	4	-	4		4		14		-		2		95	
MNB	310+752	1x21.35	-	-	4	-	4		4		-		44		2		85	
MNB	313+835	1x24.347	-	-	4	-	4		4		14				2		97	
MNB	314+340	1x19.103	-	-	4	-	4		-				-		2		38	

Status of LVUP & PUP

Sr.No.	Type of Structure	Chainage	Span	Side	Status
1	LVUP	293+895	1x10.5	BHS	LHS raft completed
2	LVUP	294+550	1x10.5	BHS	LHS PCC and Raft completed
3	LVUP	301+240	1x10.5	BHS	Not yet Started
4	LVUP	308+550	1x10.5	BHS	
5	LVUP	311+047	1x10.5	BHS	BHS Raft and Wall Completed, LHS Slab Completed.
6	LVUP	316+563	1x10.5	BHS	BHS PCC Completed
7	LVUP	321+700	1x10.5	BHS	BHS PCC Completed
1	PUP	292+099	1x7.0	BHS	Not yet Started
2	PUP	295+170	1x7.0	BHS	BHS Raft Completed
3	PUP	295+990	1x7.0	BHS	BHS Raft Completed
4	PUP	297+150	1x7.0	BHS	Not yet Started
5	PUP	297+900	1x7.0	BHS	Foundation Completed, Wall work in progress
6	PUP	298+380	1x7.0	BHS	BHS Slab Completed
7	PUP	299+100	1x7.0	BHS	Not yet Started
8	PUP	300+725	1x7.0	BHS	
9	PUP	301+790	1x7.0	BHS	
10	PUP	302+350	1x7.0	BHS	
11	PUP	303+220	1x7.0	BHS	BHS Raft Completed
12	PUP	304+170	1x7.0	BHS	BHS Slab Completed
13	PUP	305+058	1x7.0	BHS	Foundation Completed, Wall work in progress
14	PUP	305+850	1x7.0	BHS	RHS Raft Completed
15	PUP	306+250	1x7.0	BHS	BHS Excavation Completed, RHS PCC completed
16	PUP	306+900	1x7.0	BHS	Not yet Started
17	PUP	309+550	1x7.0	BHS	BHS Raft Completed
18	PUP	310+480	1x7.0	BHS	RHS Raft Completed
19	PUP	311+650	1x7.0	BHS	BHS Raft Completed, wall work in progress
20	PUP	312+280	1x7.0	BHS	Excavation Done
21	PUP	313+095	1x7.0	BHS	Not yet Started
22	PUP	314+850	1x7.0	BHS	
23	PUP	315+870	1x7.0	BHS	BHS PCC Completed
24	PUP	316+960	1x7.0	BHS	RHS Raft Completed
25	PUP	317+650	1x7.0	BHS	Not yet Started
26	PUP	318+245	1x7.0	BHS	
27	PUP	319+650	1x7.0	BHS	LHS Raft Completed
28	PUP	320+330	1x7.0	BHS	BHS Excavation Completed
29	PUP	320+825	1x7.0	BHS	RHS PCC Completed
30	PUP	322+550	1x7.0	BHS	Not yet Started

Status of Box Culverts

Type of Culvert	Design Chainage As per CA	No of Vent	Span	Height	Status as on 31.10.2019
BC	292+450	1	2.00	2.0	Work yet to start
BC	294+750	2	4.00	4.0	
BC	295+007	1	2.00	2.00	
BC	295+585	1	2.00	2.00	LHS Slab Completed
BC	296+376	1	3.00	3.00	Work yet to start
BC	299+770	1	3.00	3.00	
BC	300+148	1	3.00	3.00	BHS Wall Work in Progress
BC	301+247	1	2.00	2.00	Work yet to start
BC	303+403	1	3.00	3.00	BHS Slab Completed, Retaining wall works in progress
BC	305+437	1	2.00	2.00	BHS Slab Completed, Retaining wall works in progress
BC	307+709	1	2.00	2.00	Work yet to start
BC	307+789	1	2.00	2.00	
BC	309+030	1	3.00	3.00	
BC	309+840	1	3.00	3.00	
BC	309+892	1	3.00	3.00	
BC	314+148	1	3.00	3.00	
BC	315+247	1	5.00	3.00	Work yet to start
BC	316+427	1	2.00	2.00	BHS PCC Done, RHS Raft Done.
BC	316+582	1	2.00	2.00	Work yet to start
BC	318+612	1	3.00	3.00	
BC	322+750	1	2.00	2.00	BHS Excavation Done, Ground improvement in Progress
BC	323+087	1	2.00	2.0	Work yet to start
BC	269+883	1	2.00	2.0	
BC	270+373	1	2.00	2.0	
BC	270+731	1	2.00	2.0	
BC	0.250	1	2.00	2.0	
BC	0.650	1	2.00	2.0	

Status of Hume Pipe Culverts

Type of Culvert	Design Chainage	Status as on 31.10.2019
HPC	293+620	Work yet to start
HPC	294+420	BHS Excavation Done
HPC	295+870	BHS Pipe Laying Done
HPC	296+720	BHS Pipe Laying Done
HPC	298+120	BHS Pipe Laying Done
HPC	298+819	BHS Pipe Laying Done
HPC	300+445	BHS Pipe Laying Done
HPC	300+970	Work yet to start
HPC	301+520	Work yet to start
HPC	302+270	BHS Pipe Laying Done
HPC	302+578	BHS Pipe Laying Done
HPC	303+608	BHS Pipe Laying Done
HPC	304+069	BHS Pipe Laying Done
HPC	304+649	BHS Pipe Laying Done
HPC	307+419	Work yet to start
HPC	307+969	BHS PCC Done
HPC	308+320	BHS PCC Done
HPC	308+794	BHS Pipe Laying Done
HPC	309+368	BHS Pipe Laying Done
HPC	310+119	BHS Pipe Laying Done
HPC	311+329	BHS Pipe Laying Done
HPC	311+969	BHS Pipe Laying Done
HPC	312+679	BHS Pipe Laying Done
HPC	313+369	BHS Pipe Laying Done
HPC	313+812	Work yet to start
HPC	314+669	BHS Pipe Laying Done
HPC	315+719	BHS Excavation Done
HPC	316+069	BHS PCC Done
HPC	316+819	BHS Pipe Laying Done
HPC	317+470	BHS Excavation Done
HPC	319+268	Work yet to start
HPC	319+969	
HPC	320+719	
HPC	322+294	BHS Excavation Done,Ground improvement in Progress
HPC	322+778	BHS Excavation Done,Ground improvement in Progress

3.1 Detailed Scope of Work & Physical Progress by Component

Item	Stage for measurement	Unit	Qty.	Weightage in percentage to Contract Price	Quantity	% of Physical Progress	Remarks
1	2	3	4	5	6	7	8
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads / Connecting road)	A- Widening and strengthening of Existing road			Not in Scope			
	1) Earthwork up to top of the subgrade						
	2) Granular work (Sub-base, shoulder) GSB						
	3) Shoulders						
	4) Bituminous work						
	5) Rigid Pavement						
	a) DLC						
	b) PQC						
	6) Widening and repair of culverts						
	7) Widening and repair of minor bridges						
	B- New realignment/bypass						
	(1) Earthwork up to top of the sub-grade	KM	29.371	19.42%	0.55	8.04%	
	(2) Granular work (sub-base, base, shoulders)						
	(a) GSB	KM	29.371	3.46%			
	(3) Shoulders	KM	29.371	0.97%			
	(4) Bituminous work						
	(5) Rigid Pavement						
	(a) DLC	KM	29.371	4.640%			
	(b) PQC	KM	29.371	22.972%			
	C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:						
	(1) Culverts (Pipe & Box)	No.	62	2.32%	23.5	0.55%	
	(2) Minor bridges						
	(a) Foundation	No.	42	2.38%	0	0.45%	
(b) Sub-Structure	No.	44	1.16%				

Item	Stage for measurement	Unit	Qty.	Weightage in percentage to Contract Price	Quantity	% of Physical Progress	Remarks
1	2	3	4	5	6	7	8
	(c) Super- Structure (including crash barrier etc. complete)	No.	22	1.94%			
	(3) Cattle/Pedestrian underpasses						
	(a) Foundation	No.	30	2.98%	9.5	1.13%	
	(b) Sub-Structure	No.	60	1.30%	8	0.17%	
	(c) Super- Structure (including crash barrier etc. complete)	No.	30	1.38%	2	0.09%	
	(4) Pedestrian overpasses			Not in Scope			
	(a) Foundation	No.	0	-			
	(b) Sub-Structure	No.	0	-			
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
	(5) Grade separated structures						
	(a) Underpasses (VUP & LVUP)						
	(a) Foundation	No.	10	0.77%	3	0.28%	
	(b) Sub-Structure	No.	20	0.46%	2.5	0.06%	
	(c) Super- Structure (including crash barrier etc. complete)	No.	10	0.52%	0.5	0.03%	
	(b) Overpass (VOP)						
	(a) Foundation	No.	3	0.12%			
	(b) Sub-Structure	No.	3	0.02%			
	(c) Super- Structure (including crash barrier etc. complete)	No.	2	0.12%			
	(c) Flyover						
	(a) Foundation	No.	8	1.11%	6	0.83%	
	(b) Sub-Structure	No.	8	0.46%			
	(c) Super- Structure (including crash barrier etc. complete)	No.	6	0.51%			
	(d) Foot Over Bridge			Not in Scope			
Major Bridge works and ROB/RUB	A - Widening and repairs of Major Bridges			Not in Scope			
	(a) Foundation						
	(a) Open Foundation	No.	0	-			
	(b) Pile Foundation/Well	No.	0	-			

Item	Stage for measurement	Unit	Qty.	Weightage in percentage to Contract Price	Quantity	% of Physical Progress	Remarks
1	2	3	4	5	6	7	8
	Foundation						
	(b) Sub-Structure	No.	0	-			
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
	B - Widening and repairs of						
	a) ROB			Not in Scope			
	(a) Foundation						
	(a) Open Foundation	No.	0	-			
	(b) Pile Foundation/Well Foundation	No.	0	-			
	(b) Sub-Structure	No.	0	-			
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
	b) RUB			Not in Scope			
	(a) Foundation	No.	0	-			
	(b) Sub-Structure	No.	0	-			
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
	C- New Major Bridges						
	(a) Foundation	No.			17.00	3.98%	
	(a) Open Foundation	No.	0	-			
	(b) Pile Foundation/ Well Foundation	No.	22	5.16%			
	(b) Sub-Structure	No.	22	0.59%	2	0.05%	
	(c) Super- Structure (including crash barrier etc. complete)	No.	16	1.39%			
	D- New rail-road bridges						
	(a) ROB						
	(a) Foundation	No.	42	6.77%	14	4.39%	
	(b) Sub-Structure	No.	42	1.05%	2	0.05%	
	(c) Super- Structure (including crash barrier etc. complete)	No.	40	2.42%			
	(b) RUB			Not in Scope			
	(a) Foundation	No.	0	-			
	(b) Sub-Structure	No.	0	-			

Item	Stage for measurement	Unit	Qty.	Weightage in percentage to Contract Price	Quantity	% of Physical Progress	Remarks
1	2	3	4	5	6	7	8
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
Structures (elevated sections, reinforced earth, Interchange)	Interchange			Not in Scope			
	(a) Foundation	No.	0	-			
	(b) Sub-Structure	No.	0	-			
	(c) Super- Structure (including crash barrier etc. complete)	No.	0	-			
	(d) Reinforced earth Wall (includes Approaches of ROB, Underpasses, Overpasses, Flyover etc)	Sqm	26446	0.84%			
Other works	(i) Service roads/ Slip Roads / Connecting Road	KM	2.425	0.66%			
	(ii) Toll Plaza	No.	2	0.63%			
	(iii) Road side drains	KM	29.371	1.38%			
	(iv) Road signs, markings, km stones, safety devices,						
Other works	(a) Road signs, markings, km stones, Road Delineators, Reflective Pavement Markers & Solar Studs, Traffic Impact Attenuators, Road Boundary Stone, Kilometer and Hectometer Stones.	KM	31.000	0.81%			
	(b) Concrete Crash Barrier / W- Beam Crash Barrier / Thrie Beam Steel Barriers in road works	KM	29.371	1.16%			
	(v) Project facilities						
	(a) Bus Bays	No.	0	-			
	(b) Truck Lay-byes	No.	2	1.08%			
	(c) Smaller Parking service area	No.	3	0.648%			
	(d) Operation & Maintainance Centre	No.	1	0.27%			
	(e) Lighting	KM	31.000	0.044%			
	(f) ATMS	KM	31.000	0.456%			
	(g) Noise Barrier	KM	10.500	0.397%			
(h) Rain Water Harvesting	No.	62	0.074%				

Item	Stage for measurement	Unit	Qty.	Weightage in percentage to Contract Price	Quantity	% of Physical Progress	Remarks
1	2	3	4	5	6	7	8
	Structure						
	(i) Fencing	KM	29.371	1.094%			
	(j) Utilities (future ducts)	No.	62	0.234%	22.00	0.1%	
Other works	(vi)Repairs to bridges/structures			Not in Scope			
	(vii) Land Scaping and Tree plantation	KM	29.371	0.176%			
	(viii) Protection works						
	(a) Boulder Pitching/Turfing /other protection measures on slopes	KM	29.371	0.29%			
	(b) Toe/Retaining wall	KM	1.890	3.12%	0.11	0.18%	
	(ix) Tunnel			Not in Scope			
	(a) Excavation	Meter	0	-			
	(b) Construction of support system including Rock bolting, lining etc.	Meter	0	-			
	(c) On Complete completion of Tunnel	Meter	0	-			
	(x) Miscellaneous						
	(a) Overhead Signs	KM	31.000	0.001%			
	(b) Traffic Aid Booth	No.	1	0.017%			
	(c) Medical Aid Booth	No.	1	0.017%			
	(d) Emergency Cross Over	No.	6	0.018%			
	(d) Helipad	No.	1	0.017%			
	(e) Wearing Course	KM	31.00	0.173%			
	Total			100.00%		20.38%	

3.1.1 : Details breakup of physical progress

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
1	2	3	7	9		
1	Earth Work upto Top of Subgrade					
1.1	Clearing and grubbing of -MCW	Hec	29.37	0.044%	23.17	0.03%
1.2	Carrying out Jungle Cutting/ removal of debris / dismantling of Concrete Structure / Dismantling of existing road / Removal of any Physical item	M2	29.37	0.000%	0	
1.3	Earth work in excavation necessary	Cu.m.	29.37	0.013%	22.05	0.01%
1.4	Construction of embankment - MCW Height upto 1 Mtr	Cu.m.	29.37	5.183%	21.98	3.88%
1.5	Construction of embankment - MCW Height 1 mtr to 2 Mtr	Cu.m.	29.37	4.319%	15.6	2.29%
1.6	Construction of embankment - MCW Height 2 mtr to 3 Mtr	Cu.m.	29.37	3.456%	12.12	1.43%
1.7	Construction of embankment - MCW Height 3 mtr to Emb top Bottom	Cu.m.	29.37	2.592%	3.4	0.30%
1.8	Construction of embankment - MCW Embankment Top	Cu.m.	29.37	1.728%	1.04	0.06%
1.9	Construction of Sub grade - MCW	Cu.m.	29.37	2.086%	0.55	0.04%
2	Grannular Sub Base Courses and Base Courses					
2.1	Constructing Grannular Sub-	Cu.m.	29.37	3.46%		

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
	base					
3	Shoulders					
3.1	Earthwork in filling of median / island area	Cu.m.	29.37	0.245%		
3.2	Construction of modified Earthen / un paved shoulders	Cu.m.	29.37	0.036%		
3.3	Providing min 200 mm dia NP4 pipes along the road in 2 Rows in shoulder	LM	29.37	0.691%		
4	Rigid Pavement					
4.01	Providing xxx mm thick DLC (M15) for CW	Cum	29.37	4.640%		
4.02	Providing xxx mm thick PQC for CW	Cum	29.37	22.972%		
5	Pipe Culverts					
5.01	Culvert Excavation	Cum	35.00	0.006%	28.50	0.01%
5.02	Culvert PCC M15 grade	Cum	35.00	0.114%	28.50	0.09%
5.03	Providing , laying and jointing NP4 (as per IS:458) Hume pipes for culverts, - Dia 1200 mm (Internal)	LM	35.00	0.232%	20.50	0.14%
5a	Box Culverts					
5.01a	Culvert Excavation	Cum	27.00	0.022%	6.5	0.01%
5.02a	Culvert PCC M15 grade	Cum	27.00	0.209%	5	0.04%
5.03a	Foundation RCC M 30 - Culvert	Cum	27.00	0.405%	4.5	0.08%
5.04a	HYSB bar in Foundation-Culvert	MT	27.00	0.480%	4.5	0.09%
5.05a	Substructure RCC M 30 - Culvert	Cum	27.00	0.304%	3	0.04%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
5.06a	HYSD bar in Substructure-Culvert	MT	27.00	0.267%	3	0.03%
5.07a	Super Structure RCC M 30 - Culvert	Cum	27.00	0.153%	3	0.02%
5.08a	HYSD bar in Super Structure-Culvert	MT	27.00	0.127%	3	0.02%
5.09a	Finishing Work (10% cost of overall work)	Nos.	27.00	0.000%		0.0000%
6A	Bill No: 6A Minor Bridges					
6A,01	Structure excavation Ordinary and soft Soils - MNBR	Cum	42.00	0.056%	8	0.01%
6A,02	MNBR - PCC M15 grade	Cum	42.00	0.124%	4	0.01%
6A,03	MNBR - RCC M35 - Foundation	Cum	34.00	0.887%		0.00%
6A,04	HYSD bar reinforcement - Foundation	Mt	34.00	1.034%	6	0.18%
6A,05	MNBR - RCC M35 Pile Cap	Cum	8.00	0.090%	4	0.04%
6A,06	MNBR - RCC M35 1.2m dia piles	Rm	8.00	0.186%	8	0.19%
6A,07	MNBR - RCC M35-Substructure Abutment	Cum	44.00	0.447%	-	0.0000%
6A,08	HYSD bar reinforcement - substructure Abutment	Mt	44.00	0.445%	-	0.0000%
6A,09	MNBR - RCC M35 - Abutment Cap	Cum	44.00	0.128%	-	0.0000%
6A,10	HYSD bar reinforcement - Abutment cap	Mt	44.00	0.144%	-	0.0000%
6A,11	RCC M35 - RCC Girder	Cum	10.00	0.118%	-	0.0000%
6A,12	PSC M45 - PSC Girder	Cum	8.00	0.239%	-	0.0000%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6A,13	HYSD bar reinforcement - Super structure Girder	Mt	18.00	0.586%	-	0.0000%
6A,14	HT Steel for PSC Girder	Mt	8.00	0.323%	-	0.0000%
6A,15	RCC M35 - SLAB	Cum	22.00	0.278%	-	0.0000%
6A,16	HYSD bar reinforcement - SLAB	Mt	22.00	0.398%	-	0.0000%
6B	Bill No. 6B : PUP					
6B,01	Structure excavation Ordinary and soft Soils - PUP	Cum	30.00	0.025%	17.5	0.01%
6B,02	PUP - PCC M15 grade Levelling course	Cum	30.00	0.184%	14	0.09%
6B,03	PUP - RCC M35 Raft	Cum	30.00	1.216%	9.5	0.45%
6B,04	HYSD bar reinforcement - RAFT	Mt	30.00	1.560%	9.5	0.57%
6B,05	PUP RCC M35 Wall	Cum	60.00	0.677%	8	0.09%
6B,06	HYSD bar reinforcement - Wall	Mt	60.00	0.623%	8	0.08%
6B,07	PUP - RCC M35 - TOP Slab	Cum	30.00	0.674%	2	0.04%
6B,08	HYSD bar reinforcement - TOP Slab	Mt	30.00	0.706%	2	0.05%
6B,09	Finishing Work (10% cost of overall work)	Nos	30.00	0.000%		
6C	Bill No. 6C : VUP					
6C,01	Structure excavation Ordinary and soft Soils - VUP	Cum	3.00	0.003%	2	0.00%
6C,02	VUP - PCC M15 grade - Levelling course	Cum	3.00	0.013%	2	0.01%
6C,03	VUP - RCC M35 - Raft	Cum	3.00	0.096%	1.5	0.05%
6C,04	HYSD bar reinforcement - Raft	Mt	3.00	0.123%	1.5	0.06%
6C,05	VUP - RCC M35 - WALL	Cum	6.00	0.086%	0.5	0.01%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6C,06	HYSD bar reinforcement - WALL	Mt	6.00	0.079%	0.5	0.01%
6C,07	RCC M35 - TOP SLAB	Cum	3.00	0.096%	-	
6C,08	HYSD bar reinforcement - TOP Slab	Mt	3.00	0.082%	-	
6D	Bill No. 6D : LVUP					
6D,01	Structure excavation Ordinary and soft Soils - LVUP	Cum	7.00	0.005%	3.5	0.00%
6D,02	LVUP - PCC M15 grade levelling course	Cum	7.00	0.033%	3.5	0.02%
6D,03	LVUP - RCC M35 Raft	Cum	7.00	0.220%	1.5	0.06%
6D,04	HYSD bar reinforcement - Raft	Mt	7.00	0.282%	1.5	0.08%
6D,05	LVUP - RCC M35 - Wall	Cum	14.00	0.155%	2	0.02%
6D,06	HYSD bar reinforcement - WALL	Mt	14.00	0.143%	2	0.02%
6D,07	LVUP - RCC M35 - Top Slab	Cum	7.00	0.187%	0.5	0.01%
6D,08	HYSD bar reinforcement - TOP Slab	Mt	7.00	0.159%	0.5	0.01%
6E	Bill No. 6E : VOP					
6E,01	Structure Excavation for foundation of VOP	Cum	3.00	0.000%		
6E,02	Foundation PCC M15 grade for levelling course	Cum	3.00	0.001%		
6E,04	HYSD bar reinforcement - Foundation	Mt	3.00	0.054%		
6E,05	RCC M35 Pile Cap	Cum	3.00	0.012%		
6E,06	RCC M35 1.2m dia piles	Rm	3.00	0.049%		
6E,07	RCC M35 - ABUTMENT/Return Wall	Cum	2.00	0.002%		

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6E,08	HYSD bar reinforcement - ABUTMENT/Return Wall	Mt	2.00	0.002%		
6E,09	RCC M35 - ABUTMENT CAP	Cum	2.00	0.002%		
6E,10	HYSD bar reinforcement - ABUTMENT CAP	Mt	2.00	0.004%		
6E,11	RCC M35 - PIER	Cum	1.00	0.001%		
6E,12	HYSD bar reinforcement - PIER	Mt	1.00	0.001%		
6E,13	RCC M35 - PIER CAP	Cum	1.00	0.001%		
6E,14	HYSD bar reinforcement -PIER CAP	Mt	1.00	0.002%		
6E,15	HYSD bar reinforcement - Super structure Girder	Mt	2.00	0.050%		
6E,16	HT Steel for PSC - Girder	Mt	2.00	0.033%		
6E,17	PSC M45 - Box Girder/PSC Girder	Cum	2.00	0.025%		
6E,18	M-35 for SLAB super structure	Cum	2.00	0.015%		
6F	Bill No: 6F Flyover					
6F,01	Structure excavation Ordinary and soft Soils - Flyover	Cum	8.00	0.003%	6	0.00%
6F,02	Flyover - PCC M15 grade - levelling course under fdn.	Cum	8.00	0.005%	6	0.00%
6F,03	HYSD bar reinforcement - Foundation	Mt	8.00	0.575%	6	0.43%
6F,04	RCC M35 Pile Cap	Cum	8.00	0.114%	6	0.09%
6F,05	RCC M35 1.2m dia piles	Rm	8.00	0.414%	6	0.31%
6F,06	RCC M35 - ABUTMENT	Cum	4.00	0.047%	-	0.0000%
6F,07	HYSD bar reinforcement - ABUTMENT	Mt	4.00	0.058%	-	0.0000%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6F,08	RCC M35 - ABUTMENT CAP	Cum	4.00	0.031%	-	0.0000%
6F,09	HYSD bar reinforcement - Abutment cap	Mt	4.00	0.053%	-	0.0000%
6F,10	RCC M35 - Pier Substructure	Cum	4.00	0.037%	-	0.0000%
6F,11	HYSD bar reinforcement - Pier Substructure	Mt	4.00	0.057%	-	0.0000%
6F,12	RCC M35 - Pier CAP	Cum	4.00	0.065%	-	0.0000%
6F,13	HYSD bar reinforcement - Pier CAP	Mt	4.00	0.110%	-	0.0000%
6F,14	RCC M35 - RCC Girder	Cum	4.00	0.032%	-	0.0000%
6F,15	PSC M45 - Girder	Cum	2.00	0.053%	-	0.0000%
6F,16	HYSD bar reinforcement - Girder	Mt	6.00	0.144%	-	0.0000%
6F,17	HT Steel for PSC - Girder	Mt	2.00	0.072%	-	0.0000%
6F,18	RCC M35 - SLAB	Cum	6.00	0.084%	-	0.0000%
6F,19	HYSD bar reinforcement - SLAB	Mt	6.00	0.126%	-	0.0000%
6F,20	Finishing Work (10% cost of overall work)	Nos	6.00	0.000%	-	0.0000%
6G	Bill No: 6G Major Bridges					
6G,01	Structure excavation Ordinary and soft Soils - MJB	Cum	22.00	0.014%	18	0.01%
6G,02	Major Bridge PCC M15 grade - Levelling course	Cum	22.00	0.026%	18	0.02%
6G,03	HYSD bar reinforcement - Foundation	Mt	22.00	2.746%	17	2.12%
6G,04	RCC M35 Pile Cap	Cum	22.00	0.708%	17	0.55%
6G,05	RCC M35 1.2m dia piles	Rm	22.00	1.661%	17	1.28%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6G,06	RCC M35 - Abutment substructure	Cum	12.00	0.100%	2	0.02%
6G,07	HYSD bar reinforcement - Abutment Substructure	Mt	12.00	0.099%	2	0.02%
6G,08	RCC M35 - ABUTMENT CAP	Cum	12.00	0.032%		
6G,09	HYSD bar reinforcement - ABUTMENT CAP	Mt	12.00	0.036%		
6G,10	RCC M35 - Pier Substructure	Cum	10.00	0.037%		
6G,11	HYSD bar reinforcement - Pier Substructure	Mt	10.00	0.056%		
6G,12	RCC M35 - Pier CAP	Cum	10.00	0.089%		
6G,13	HYSD bar reinforcement - Pier CAP	Mt	10.00	0.137%		
6G,14	PSC M45 - Girder	Cum	16.00	0.261%		
6G,15	HYSD bar reinforcement -Girder	Mt	16.00	0.343%		
6G,16	HT Steel for PSC -Girder	Mt	16.00	0.340%		
6G,17	RCC M35 - SLAB	Cum	16.00	0.178%		
6G,18	HYSD bar reinforcement - SLAB	Mt	16.00	0.265%		
6G,19	Finishing Work (10% cost of overall work)	Nos.	16.00	0.000%		
6H	Bill No. 6H : ROB					
6H,01	Structural Excavation in ROB foundation	Cum	42.00	0.017%	28.39	0.01%
6H,02	ROB - Foundation PCC M15 grade Levelling course	Cum	42.00	0.034%	17	0.02%
6H,03	HYSD bar reinforcement - Foundation	Mt	42.00	3.292%	21.20	1.94%
6H,04	RCC M35 Pile Cap	Cum	42.00	0.715%	14	0.28%

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
6H,05	RCC M35 1.2m dia piles	Rm	42.00	2.710%	28.39	2.14%
6H,06	RCC M35 - ABUTMENT/Return Wall	Cum	4.00	0.019%		0.00%
6H,07	HYSD bar reinforcement - ABUTMENT/Return Wall	Mt	4.00	0.023%		0.00%
6H,08	RCC M35 - ABUTMENT CAP	Cum	4.00	0.012%		0.00%
6H,09	HYSD bar reinforcement - ABUTMENT CAP	Mt	4.00	0.020%		0.00%
6H,10	RCC M35 - PIER	Cum	38.00	0.195%	2	0.02%
6H,11	HYSD bar reinforcement - PIER	Mt	38.00	0.299%	2	0.03%
6H,12	RCC M35 - PIER CAP	Cum	38.00	0.179%		
6H,13	HYSD bar reinforcement - Pier CAP	Mt	38.00	0.301%		
6G,14	PSC M45 - Girder	Cum	40.00	0.246%		
6G,15	HYSD bar reinforcement -Girder	Mt	40.00	0.314%		
6G,16	HT Steel for PSC -Girder	Mt	40.00	0.332%		
6H,14	RCC M35 - SLAB	Cum	40.00	0.260%		
6H,15	HYSD bar reinforcement - SLAB	Mt	40.00	0.382%		
6H,16	Providing and Fixing Steel Girder for Superstructure as per Technical Specification	Mt	4.00	0.889%		
6H,17	Finishing Work (10% cost of overall work)	Nos.	40.00	0.000%		
7	Reinforced Earth Wall					
7.01	PCC For RE Wall Foundation	Cum	26,446.00	0.018%		
7.02	Providing RCC Facia Panel / Block	Sqm	26,446.00	0.261%		

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
7.03	Filter media behind RE walls	Cum	26,446.00	0.094%		
7.04	Construction of embankment with Reinforced Earth	Cum	26,446.00	0.225%		
7.05	RCC crash barrier with friction slab M 40	Rmt	3,952.02	0.246%		
8	Service roads/ Slip Roads					
8.01	Construction of Subgrade	Cum	2.43	0.050%		
8.02	Construction of GSB	Cum	2.43	0.136%		
8.03	Constructing Wet Mix Macadam base	Cu.m.	2.43	0.157%		
8.04	Primer coat - Connecting road	Sqm	2.43	0.010%		
8.05	Tack coat -1 - Connecting road	Sqm	2.43	0.004%		
8.07	Dense Bituminous Macadam course- Connecting road	Cu.m.	2.43	0.172%		
8.08	Bituminous Concrete - Connecting Road	Cu.m.	2.43	0.132%		
9	Bill No.9: Toll Plaza					
9.01	Clearing and grubbing - Toll Plaza	Hec	2.00	0.000%		
9.02	Construction of embankment - Toll Plaza	Cum	2.00	0.087%		
9.03	Construction of Subgrade - Toll Plaza	cum	2.00	0.019%		
9.04	Constructing Grannular Sub-base - Toll Plaza	Cu.m.	2.00	0.031%		
9.05	Providing xxx mm thick DLC (M15) for Toll plaza	cum	2.00	0.052%		
9.06	Providing xxx mm thick PQC for	cum	2.00	0.288%		

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
	Toll plaza					
9.07	Providing and fixing of Tool booth	Nos.	2.00	0.009%		
9.08	Roof over Toll plaza	Sq.m	2.00	0.050%		
9.09	Operation & Office building at toll plaza	Sq.m	1.00	0.022%		
9.11	Toll plaza sign boards	LS	2.00	0.032%		
9.12	Toll Plaza Facilities	LS	2.00	0.043%		
10	DRAINAGE					
10.01	Drain Excavation	Cu.m.	29.37	0.066%		
10.02	Drain Lining	cum	29.37	0.479%		
10.03	RCC M 20 Grade Dain	Cum	29.37	0.241%		
10.04	HYSB bar reinforcement	Mt	29.37	0.117%		
10.05	Construction of chute lined drain in shoulder	L.M.	29.37	0.408%		
10.06	Construction of energy dissipation basin and sumps	Nos.	29.37	0.067%		
11	Bill No. 11: Traffic signs, Road markings and other road appurtunences					
11.01a	Providing Kerb M-20 grade	L.M.	29.37	0.116%		
11.01b	Painting on Kerbs	Sq.m	29.37	0.014%		
11.02a	Supplying & Fixing Sign Boards	KM	31.00	0.402%		
11.03a	Pavement marking	Sq.m	31.00	0.278%		
b)	W-Beam Crash Barrier in Road work					
11.06b	Providing and erecting " W "	L.M.	29.37	1.160%		

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
	metal beam crash barrier					
12	Wayside Amenities/Rest Area					
12.01	Truck Parking service area	LS	2.00	1.08%		
12.02	Smaller Parking service area	LS	3.00	0.65%		
12.03	Providing operational and maintenance Center	No.	1.00	0.27%		
12.04	Providing & Placing Noise Barrier	Km.	9.30	0.40%		
12.05	Providing lighting including all	Km.	31.00	0.04%		
12.06	Providing Advanced Traffic Management Systems (ATMS)	Km.	31.00	0.46%		
12.07	Providing min 600 mm dia NP4 pipes across the road for utility work	No.	50.00	0.23%		
12.08	Providing Rain Water Harvesting arrangement as shown in drawing with all materials etc., with all lifts and leads complete as directed by the engineer	No.	62.00	0.07%		
II	Fencing Work					
A	Providing Chain Link Fencing in ROW	Km.	29.37	1.09%		
13	Road Side Plantation					
	Land Scaping and Tree plantation	LS	29.37	0.176%		
14	PROTECTION WORKS					
I	Boulder pitchin on slopes					

Item No,	Description	Unit	Physical Progress Quantity	Weightage in percentage to the Contract Price	Up to Date (31.10.2019)	
					Quantity	Percentage Progress
A	Providing and laying stone pitching on embankment slopes	cum	29.37	0.213%		
B	Providing and laying filter media underneath stone pitching	cum	29.37	0.077%		
II	Toe/Retaining wall					
A	Excavation of Retaining Wall + Toe Wall	Cu.m.	1.89	0.031%	0.15	0.00%
B	M-15 PCC Retaining Wall + Toe Wall	Cu.m.	1.89	0.089%	0.15	0.01%
C	M-25 Retaining Wall + Toe Wall	Cum	1.89	1.626%	0.11	0.09%
D	HYSO - Retaining Wall + Toe Wall	MT	1.89	1.371%	0.11	0.08%
15	MISCELLANEOUS WORKS					
15.01	Overhead Signs	Km.	31.00	0.001%		
15.02	Traffic Aid Booth	No.	1.00	0.017%		
15.03	Medical Aid Booth	No.	1.00	0.017%		
15.04	Wearing courses	Km.	31.00	0.173%		
15.05	ROW Survey, centerline fixing along with fixing of ROW pillar and obtaining puation of ROW... ..	Km.	31.00	0.000%		
15.06	Emergency Cross Over	Nos.	6.00	0.018%		
15.07	Helipad	Nos.	1.00	0.017%		
	Total Amount					20.38%

4.0 Land Acquisition and Clearance

4.1 LA Summary: - A)Length Wise:

Land Acquisition Status									Annexure- G	
Sr.No	CHAINAGE		LENGTH (KM)	VILLAGE	SURVEY NO	Owner Name	CLEAR LENGTH (KM)	UNCLEAR LENGTH (KM)	SIDE	REMARKS
	FROM	TO								
1	292+000	293+410	1.410				1.410			
2	293+410	293+510	0.100	Tham	231	Huriben wd/o Vali bagas and others	0.100		LHS	
3	293+510	296+350	2.840				2.840			
4	296+350	296+450	0.100	Derol	519	Maniben Wd/o Gambhirsinh Dadabhai and others		0.100	BHS	
5	296+450	297+380	0.930				0.930			
6	297+380	297+455	0.075	Dayadra	504	Ismailbhai Ahamdbhai Isabhai and others	0.075		LHS	
7	297+455	297+600	0.145				0.145			
8	297+600	297+630	0.030	Dayadra	481	Musabhai Ahmadbhai Mala	0.030		RHS	
9	297+630	297+660	0.030				0.030			
10	297+660	297+705	0.045	Dayadra	462,463,465,466,467,468	Umarajibhai Ahamad Valibhai and others,Salim Yusuf Ibrahimbhai Mahanmadbhai and others	0.045		BHS	
11	297+705	297+805	0.100				0.100			
12	297+805	297+875	0.070	Dayadra	469	Ikbai Ahmad Isa	0.070		RHS	
13	297+875	298+070	0.195				0.195			
14	298+070	298+135	0.065	Dayadra	435	Ahmadbhai Amajibhai Mithabhai	0.065		RHS	
15	298+135	298+520	0.385				0.385			
16	298+520	298+540	0.020	Dayadra	540	Ismail Aadam Vali and others	0.020		RHS	
17	298+540	298+710	0.170				0.170			
18	298+710	298+750	0.040	Dayadra	356	Gulambhai Ahmadbhai Mahanmadbhai and others	0.040		LHS	
19	298+750	298+875	0.125				0.125			
20	298+875	299+000	0.125	Dayadra	547	Aadambhai Musebhai Aamanjibhai		0.125	BHS	
21	299+000	299+360	0.360				0.360			
22	299+360	299+505	0.145	Dayadra	563,565/A	Usmanbhai Sulemanbhai Adambhai and others,Bibiben Wd/o Valibhai Isapbhai and others	0.145		BHS	
23	299+505	299+650	0.145				0.145			
24	299+650	299+680	0.030	Dayadra	567/B	Valibhai Yusufbhai Isabhai and others	0.030		RHS	

Land Acquisition Status

Sr.No	CHAINAGE		LENGTH (KM)	VILLAGE	SURVEY NO	Owner Name	CLEAR LENGTH (KM)	UNCLEAR LENGTH (KM)	Annexure- G	
	FROM	TO							SIDE	REMARKS
25	299+680	299+710	0.030				0.030			
26	299+710	299+820	0.110	Dayadra	569/A, 569/B	Zubedaben Wd/o Mahmadbhai Valibhai and others	0.110		BHS	
27	299+820	300+915	1.095				1.095			
28	300+915	301+000	0.085	Tralsa		Haji Ibrahim Ismail Kothivala and others	0.085		BHS	
29	301+000	301+110	0.110				0.110			
30	301+110	301+150	0.040	Tralsa		Haji Ibrahim Ismail Kothivala and others	0.040		BHS	
31	301+150	301+640	0.490				0.490			
32	301+640	301+850	0.210	Kelod	253/A	Mahmad Musabhai Vali Kalabhai and others		0.210	BHS	
33	301+850	305+000	3.150				3.150			
34	305+000	305+080	0.080	Pipaliya	213	Rashid Musa Ali and others	0.080		RHS	
35	305+080	305+155	0.075				0.075			
36	305+155	305+210	0.055	Pipaliya	215	Rashid Musa Ali and others	0.055		RHS	
37	305+210	306+050	0.840				0.840			
38	306+050	306+155	0.105	Karela	120	Thakorbhai Lalubhai and others	0.105		LHS	
39	306+155	306+480	0.325				0.325			
40	306+480	306+530	0.050	Karela	61	Rameshbhai Falubhai Patel	0.050		LHS	
41	306+530	309+640	3.110				3.110			
42	309+640	309+690	0.050	Kurchan	574	Vali Mahmud Abhram Vali	0.050		LHS	
43	309+690	309+880	0.190				0.190			
44	309+880	310+030	0.150	Kurchan	529/1,524/ 1,523/1,52 2,527	Yusuf Ibrahim Umarji and others, Ismail Ibrahim Vali, Aadam Vali and others		0.150	BHS	
45	310+030	310+040	0.010				0.010			
46	310+040	310+120	0.080	Kurchan	495	Ismail Mahnmud Aku	0.080		RHS	
47	310+120	312+300	2.180				2.180			
48	312+300	312+570	0.270	Simaltha	42	Administrator of Kamnath Mahadev	0.270		BHS	
49	312+570	313+630	1.060				1.060			
50	313+630	313+735	0.105	Simaltha	303	Maheshbhai Vasava		0.105	RHS	
51	313+735	316+780	3.045				3.045			

Land Acquisition Status

Sr.No	CHAINAGE		LENGTH (KM)	VILLAGE	SURVEY NO	Owner Name	CLEAR LENGTH (KM)	UNCLEAR LENGTH (KM)	Annexure- G	
	FROM	TO							SIDE	REMARKS
52	316+780	316+875	0.095	Dora	733	Old Govt. Land		0.095	BHS	
53	316+875	317+600	0.725				0.725			
54	317+600	317+710	0.110	Dora	620171	Administrator of Brahmanpanch	0.110		BHS	
55	317+710	319+800	2.090				2.090			
56	319+800	319+890	0.090	Danda	605	Jayantibhai Lallubhai		0.090	BHS	
57	319+890	320+230	0.340				0.340			
58	320+230	320+290	0.060	Telod	385	Administrator of Telod Kabripanth, Ambalal Ganeshbhai.	0.060		RHS	
59	320+290	320+340	0.050				0.050			
60	320+340	320+410	0.070	Telod	393	Administrator of Telod Kabripanth, Ambalal Ganeshbhai.	0.070		RHS	
61	320+410	321+220	0.810				0.810			
62	321+220	321+250	0.030	Suthodra	97	Mohansang Chhatrasang Deputy and others		0.030	RHS	
63	321+250	321+330	0.080				0.080			
64	321+330	321+410	0.080	Suthodra	108	Harisinh Jitsinh	0.080		LHS	
65	321+410	321+520	0.110				0.110			
66	321+520	321+700	0.180	Suthodra	106	Rukshanaben Jashubha Bhaibava and others	0.180		BHS	
67	321+700	321+850	0.150				0.150			
68	321+850	321+905	0.055	Suthodra	118	Rajendrasinh Udesinh		0.055	RHS	
69	321+905	322+130	0.225				0.225			
70	322+130	322+245	0.115	Matar Talpad	468,467	Jaydevprasad Ramanlal, Shree Bhikhabhai Laljibhai		0.115	BHS	
71	322+245	323+000	0.755				0.755			
Length % of Project			31.000				29.925	1.075		
			100%				96.53%	3.47%		

B)Area Wise:

Package - 3 (Sampa to Manubar)(Km 323.000 to Km 292.00)							
Sl. No.	Village Name	Taluka & District	Area in Hec.	Award (Rs. In Cr.)	Disbus Area in Hec.	Disburs (Rs. In Cr.)	Disbus Area in %
1	Matar Talpad	Tal.-Amod Dist.-Bharuch	19.7199	10.02	16.7231	8.43	85%
2	Vanta Matar		1.6709	1.64	0.6865	1.37	41%
3	Sunthodara		13.0293	1.77	13.0293	1.62	100%
4	Telod		3.4501	1.24	2.8330	1.15	82%
5	Danda		29.1681	19.81	28.6605	19.46	98%
6	Dora		38.0178	22.58	37.0607	22.17	97%
7	Simlatha		21.2190	42.05	19.6934	38.39	93%
8	Vantarsa		0.2261	0.04	0.2261	0.04	100%
9	Kurchan		18.1489	3.21	17.0847	3.00	94%
10	Padariya	Tal. & Dist.-Bharuch	5.7697	2.78	5.7697	2.78	100%
11	Karela		42.1435	20.70	40.8154	20.09	97%
12	Pipaliya		12.4403	3.78	12.2705	3.71	99%
13	Kelod		25.5545	24.16	24.4512	23.46	96%
14	Taralsa		16.5034	11.56	15.5425	10.88	94%
15	Dayadara		20.9353	8.48	17.1477	7.64	82%
16	Derol		35.3771	35.89	34.6392	35.12	98%
17	Tham		8.1923	4.22	7.9318	4.00	97%
18	Kanthariya		8.6506	11.01	6.6815	9.97	77%
TOTAL AWARD PKG #3			320.2168	224.94	301.25	213.27	94%

4.2 Clearances Summary: -

Environment				
Proposal Description	Status	Length impacted	Current stage	Issues/Comments
As per Schedule-A (Annex-V) – The Environmental clearance have been obtained				
Forest Land/Tree				
Proposal Description	Status	Length impacted	Current stage	Issues/Comments
Tree cutting permission received on dated 25.03.2019 with letter no. NHAI PIU SURAT (Expressway)/FR-02/2019/1717				

4.2 A) STATUS OF PERMISSION AND APPROVALS

Sr No	Approvals as in Schedule -E	
a	Permission of the state Government for extraction of boulder from quarry	The company has given a subcontract to Mauni Minerals for supply of Aggregate and GSB material. They have already procured permission from State Government for extraction of boulders. Valid till 14.07.2025
b	Permission of Village panchayat and Pollution control board for installation of crusher.	Obtained. Valid till 14.07.2025
c	License for use of explosives	Work Agreement with Mauni Minerals (Agency) to Sub-agency (Sukhdev Enterprise) for quarrying of boulder is enclosed with its use, storage & transportation of explosives. Valid till 31.03.2023
d	Permission from State government for drawing water from river/reservoir.	NA (For use of water, as per guideline of Ministry of water resource letter dated 26/10/2012, it is exempted from obtaining NOC if ground water used up to 100 cum/day i.e. 1 Lac liter/day in any Infrastructure Project., as our consumption is under the limit.)
e	License from Inspector of factories or competent authorities for setting up Batching Plant	Obtained. Valid till 17.09.2025.
f	Clearance from Pollution control board for Setting up Batching Plant	Obtained. Valid till 17.09.2025.
g	Permission of Village Panchayat and Pollution control board for Asphalt Plant	N.A.
h	Permission of Village Panchayat and State Government for Borrow earth.	Some Village Panchayats Obtained. Others in progress
i	Permission of State Government for Cutting trees	Obtained Forest trees cutting permission received vid letter no. NHAI/PIU Surat (Expressway)/FR-02/2019/1717 on dated 25.03.2019
j	Consent to establish issued by the Sate Pollution Control Board for the Project;	Obtained

4.3 Status of utility shifting: -

Utility Category	Name/ Department	Status	Length affected	Date & letter of request by Authority for estimate	Date & letter when Estimate was Received from concerned dept.	Date & letter when Estimate was Verified By IE.	Date & letter of Approval by Authority RO/ HQ	Date & letter of Deposit of supervision charge	Progress of Physical Shifting	Date of Certification from Agency for Completion	Estimate Amount	Issue/ Comments
Water	GWSSB	All Estimates submitted	80 M	-	-		-	-	-	-	-	-
	SSNNL	Detailed proposal submission of arrangement of existing canal in proposed structure and GADs is submitted in PIU on Dt.27.09.2019 for three division.(Bharuch,karjan, jambusar)	730 M									
Electricity	DGVCL	PVKPL submit supervision charges vide Letter #80 on 16.05.2019	2640 M	-	-	#72,73 &74 on 13.02.2019	-	Supervision Charges Paid for 1) Palej on 24.05.2019 2) Amod on23.05.2019 3) Bharuch (Rural) Pending-	-	-	-	Issue of Supervision charges of 2.5%(as per NHA) & 15% as demanded by DGVCL is to be resolved
	GETCO	PIU has written Letter no. 271 Dt.03.08.2019 to ACE, GETCO, Vadodara for compliance & extension of validity of five nos. Estimates and rest 1 under preparation with GETCO	710 M			#342 on 01.05.2019						
Gas Pipe Lines	GAIL		300 M					Supervision Charges Paid by NHA) without GST				

4.3 A) Utility shifting/ Tree Cutting Progress Status-Length Wise

Utility Category	Name/ Department	Length affected (M)	Length Cleared (M)	Balance Affected Length (M)
Water	GWSSB	80	-	80
	SSNNL	730	-	730
Electricity	DGVCL	2640	-	2640
	GETCO	710	-	710
Gas Pipe Lines	GAIL	300	-	300
Tree	Tree Cutting	900	900	0

4.3 B) Utility shifting/ Tree Cutting Progress Status-Nos

Sr. No.	Particular	Total	Progress till Last Month	Current Month	Cumulative Progress till Oct- 2019	Balance to Completed	Remarks
1	Electric Pole						
	Bharuch Section						
	Bharuch division						
	i) Bharuch Subdivision	41				41	
	ii) Palej Subdivision	5				5	
	iii) Amod Subdivision	5				5	
	Total	51				51	
2	Structures (Nos.)						
	Bharuch Section	7	7	-	7	0	
	Total	7	7	-	7	0	
3	Religious Str. (Nos.)						
	Bharuch Section	0	0	0	0	0	
	Total	0	0	0	0	0	
4	H.T. Line crossing						
	Bharuch Section	6				6	
	Total	6				6	
5.	Water Utilities						
	Bharuch Section						
	i) Bharuch Subdivision						
	ii) Jambusar Sub- division						
	Total	64				64	

Tree Cutting Progress Status-Nos

Sr. No.	District	Category	Total Nos.	Status of Cutting Permission	No. of Cutting Permission	No. of Cutting up to this Month	Balance	Remark
1	Bharuch	Govt. Trees	164	Tree Cutting Permission is received vide letter No. NHAI/PIU Surat (Expressway)/PR- 02/2019/1717 Date: 25.03.2019	164	164	-	-
		Pvt. Trees	0					

5.0 Change of Scope:-

Sr. No.	Proposal Details	Date of first submission to IE	Current Status	COS Amount	Expected/Actual date of Approval
	NIL	NIL	NIL	NIL	NIL

6.0 Mobilization of Resources.

Sr. No	Equipment	Unit	Tentative Planning	Deployed Machinery Month of Oct-19
1	Excavator	Nos	30	21
2	Motor Grader	Nos	20	12
3	Vibratory Roller	Nos	25	18
4	Wet Mix/ DLC Paver	Nos	1	-
5	Wet Mix Plant	Nos	1	1
6	PQC Paver	Nos	1	1
7	Pneumatic Tyre Roller	Nos	0	-
8	Dumpers/Tippers	Nos	100	51
9	FE Loaders/JCB	Nos	10	7
10	Water Tanker	Nos	30	20
11	Batching Plant CP60	Nos	2	2
12	Batching Plant CP 120	Nos	2	1
13	Batching Plant 300 TPH (DLC)	Nos	1	1
14	Transit Mixers	Nos	20	18
15	Boom Placer	Nos	1	1
16	Concrete Pump	Nos	1	1
17	Kerb Machine	Nos	1	0

7.0 Financial Progress Details

7.1 Pen Picture - Escrow

Total Bid Project Cost (Cr.)	Total Project Cost (Cr.)	Cumulative inflow to Escrow till previous month (Cr)	Cumulative outflow from Escrow till previous month (Cr)	Inflow to Escrow During the month (Cr)	Outflow from Escrow during the month (Cr)
1712.00	1027.2 Cr.	284.78	271.79	0.05	10.22

7.2 Escrow detail

Total Bid Project Cost (Cr.)	Total Project Cost (Cr.)	Escrow Plan till date-Debt (HAM)(Cr)	Escrow Plan till date-Equity (HAM)(Cr)	Escrow Plan till date- VGF (HAM)(Cr)	Escrow Actual till date-Debt (HAM)(Cr)	Escrow Actual till date- Equity (HAM)(Cr)	Escrow Actual till date- YGF (HAM)(Cr)
1712.00	1027.2 Cr.	229.07	102.72	265.36	0.00	116.69	0.00

8.0 QA/QC Report.

8.1 Test conducted on site.

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirements	Number of Tests Conducted									Remarks
					Up To Previous Month			This Month			Total Upto Date			
					Passed	Failed	Total No. of Test	Passed	Failed	Total No. of Test	Passed	Failed	Cum. No. of Test	
OGL & Cutting soil														
1	Free Swell Index	IS 2720 Part 40	2 test per 3000 m ³	50 % Max	148	0	148	0	0	0	148	0	148	
2	Grain Size Analysis	IS 2720 Part 4	2 test per 3000 m ³	-	148	0	148	0	0	0	148	0	148	
3	Plasticity Index	IS 2720 Part 5	2 test per 3000 m ³	L.L. = Not > 50 %, PI = Not > 25 %	148	0	148	0	0	0	148	0	148	
4	Max. Dry Density	IS 2720 Part 8	2 test per 3000 m ³	Up to 3m 1.52 gm./cc	148	0	148	0	0	0	148	0	148	
5	CBR	IS 2720 Part 16	1 test as required	Min. 8 % or as per design	0	0	0	0	0	0	0	0	0	
6	Density of Comp.Layer	IS 2720 Part 28	1 set of 10 tests/ 3000 m ²	90-95 % of lab MDD	5364	72	5436	0	0	0	5364	72	5436	
Borrow Area (Embankment & Subgrade)														
1	Free Swell Index	IS 2720 Part 40	2 test per 3000 m ³	50 % Max	1825	0	1825	10	0	10	1835	0	1835	
2	Grain Size Analysis	IS 2720 Part 4	2 test per 3000 m ³	-	1825	0	1825	10	0	10	1835	0	1835	
3	Plasticity Index	IS 2720 Part 5	2 test per 3000 m ³	L.L. = Not > 50 %, PI = Not > 25 %	1825	0	1825	10	0	10	1835	0	1835	
4	Max. Dry Density	IS 2720 Part 8	2 test per 3000 m ³	Up to 3m 1.52 gm./cc More than 3m 1.60 gm./cc	1825	0	1825	10	0	10	1835	0	1835	
5	CBR	IS 2720	1 test per 3000 m ³	Min. 8 % as	54	0	54	0	0	0	54	0	54	

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirements	Number of Tests Conducted									Remarks
					Up To Previous Month			This Month			Total Upto Date			
					Passed	Failed	Total No. of Test	Passed	Failed	Total No. of Test	Passed	Failed	Cum. No. of Test	
		Part 16		per design										
Earthwork Field test														
1	Density of Comp.Layer (Emb.)	IS 2720 Part 28	1 set of 10 tests per 3000 m ²	95% of Lab MDD	35733	558	36291	137	3	140	35870	561	36431	
2	Density of Comp.Layer (Sub grade & Earthen shoulder)	IS 2720 Part 28	1 set of 10 tests per 2000 m ²	97% of Lab MDD	0	0	0	104	0	104	104	0	104	
GSB														
1	Sieve Analysis		1 Test /400M ³	As per MORT&H Table 400-1	14	0	14	9	0	9	23	0	23	
2	Plasticity Index	IS 2720 Part 5	1 Test /400M ³	LL= Not > 25% PI= Not > 6%	14	0	14	9	0	9	23	0	23	
3	Max. Dry Density	IS 2720 Part 8	1 TEST PER SOURCE		1	0	1	0	0	0	1	0	1	
4	CBR	IS 2720 Part 16	As Required	30% Min.	1	0	1	0	0	0	1	0	1	
5	Water Absorption	IS 2386 Part 3	As Required	2% Max.	1	0	1	0	0	0	1	0	1	
6	AIV	IS 2386 (P-4) & IS 5640	As Required	40% Max	1	0	1	0	0	0	1	0	1	
7	Density of Comp.Layer	IS 2720 Part 28	1 Test /1000M ²	98% of Lab MDD	48	0	48	9	3	12	57	3	60	
PHYSICAL PROPERTIES OF AGGREGATE FOR CONCRETE														
1	Sieve Analysis of CA	IS 2386 Part 1	1 Test/Concreting Day	As per IS 383	312	0	312	48	0	48	360	0	360	
2	Sieve Analysis of FA	IS 2386 Part 1	1 Test/Concreting Day	As per IS 383	312	0	312	48	0	48	360	0	360	

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirements	Number of Tests Conducted									Remarks		
					Up To Previous Month			This Month			Total Upto Date					
					Passed	Failed	Total No. of Test	Passed	Failed	Total No. of Test	Passed	Failed	Cum. No. of Test			
3	Aggregate Impact Value	IS 2386 Part 4	1 Test/Concreting Day	As per IS 383	312	0	312	48	0	48	360	0	360			
4	Flakiness Index	IS 2386 Part 1	1 Test/Concreting Day	As per IS 383	312	0	312	48	0	48	360	0	360			
5	Silt Content	IS 383	As Required		142	0	142	48	0	48	190	0	190			
6	Specific Gravity & W A	IS 2386 PART 3	1 Test/Month		6	0	6	0	0	0	6	0	6			
Concrete Mix Design (cube sets)																
1	M15 7 Days	IS-516	18 Cubes	As per MoRT&H	3	0	3	0	0	0	3	0	3			
	28 Days				9	0	9	0	0	0	9	0	9			
2	M20 Kerb 7 Days				0	0	0	0	0	0	0	0	0	0	0	
	28 Days				0	0	0	0	0	0	0	0	0	0	0	
3	M20 7 Days				3	0	3	0	0	0	3	0	3			
	28 Days				9	0	9	0	0	0	9	0	9			
4	M25 PCC 7 Days				28	0	28	8	0	8	36	0	36			
	28 Days				65	0	65	6	0	6	71	0	71			
5	M30 7 Days				54	0	54	13	0	13	67	0	67			
	28 Days				64	0	64	24	0	24	88	0	88			
6	M35 7 Days				103	0	103	23	0	23	126	0	126			
	28 Days				189	0	189	57	0	57	246	0	246			
7	M35 Pile 7 Days				66	0	66	10	0	10	76	0	76			
	28 Days				115	0	115	33	0	33	148	0	148			
8	M35 RE block 7 Days				0	0	0	0	0	0	0	0	0			
	28 Days				0	0	0	0	0	0	0	0	0			
9	M40 7 Days				33	0	33	10	0	10	43	0	43			
	28 Days				36	0	36	42	0	42	78	0	78			

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirements	Number of Tests Conducted									Remarks			
					Up To Previous Month			This Month			Total Upto Date						
					Passed	Failed	Total No. of Test	Passed	Failed	Total No. of Test	Passed	Failed	Cum. No. of Test				
10	M45 7 Days				1	0	1	2	0	2	3	0	3				
	28 Days				6	0	6	0	0	0	6	0	6				
11	M50 7 Days				0	0	0	7	0	7	7	0	7				
	28 Days				0	0	0	0	0	0	0	0	0				
12	M40 PQC 7 Days				IS-516	36 cubes & 30 beams	As per MoRT&H	0	0	0	0	0	0	0	0	0	
	28 Days							0	0	0	0	0	0	0	0	0	
13	M40 PQC Fl. Strength 7 Days	0	0	0				0	0	0	0	0	0				
	28 Days	0	0	0				0	0	0	0	0	0				
14	DLC 7 Days	IS-516	10 cubes	As per MoRT&H				79	29	108	18	0	18	97	29	126	
Field Concrete (cube sets)																	
1	M15 7 Days	IS-516	4 test - 31- 50 m3 +1 test for every 50m3 concrete	As per MoRT&H	0	0	0	0	0	0	0	0	0				
	28 Days				0	0	0	0	0	0	0	0	0				
2	M20 Kerb 7 Days				0	0	0	0	0	0	0	0					
	28 Days				0	0	0	0	0	0	0	0					
3	M25 PCC 7 Days				240	0	240	39	0	39	279	0	279				
	28 Days				444	0	444	44	0	44	488	0	488				
4	M30 7 Days				66	0	66	8	0	8	74	0	74				
	28 Days				172	0	172	4	0	4	176	0	176				
5	M35				126	0	126	107	0	107	233	0	233				

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirements	Number of Tests Conducted									Remarks
					Up To Previous Month			This Month			Total Upto Date			
					Passed	Failed	Total No. of Test	Passed	Failed	Total No. of Test	Passed	Failed	Cum. No. of Test	
	FDD	Part 28		Density										
Cement														
1	Fineness	IS 4031	1 Test/Week		50	0	50	8	0	8	58	0	58	
2	Consistency	IS 4031	1 Test/Week		50	0	50	8	0	8	58	0	58	
3	Setting Time	IS 4031	1 Test/Week		50	0	50	8	0	8	58	0	58	
4	Soundness	IS 4031	1 Test/Week		50	0	50	8	0	8	58	0	58	
5	Compressive Strength	IS 4031	1 Test/Week											
	a) 3 Days		01 set = 3 Cube		50	0	50	8	0	8	58	0	58	
	b) 7 Days		01 set = 3 Cube		50	0	50	6	0	6	56	0	56	
	c) 28 Days		01 set = 3 Cube		47	0	47	4	0	4	51	0	51	

8.2 Weather report

Sl. No.	Date	Temperature OC.		Humidity %		Rainfall (mm)	Cum.Rainfall (mm)	Remarks
		Min. Temp.	Max. Temp.	Min.	Max.			
1	1-Oct-19	25.4	32.8	78.0	88.0	8.0	8.0	
2	2-Oct-19	25.8	33.1	75.0	86.0	0.0	8.0	
3	3-Oct-19	25.6	33.1	74.0	85.0	0.0	8.0	
4	4-Oct-19	25.9	32.9	77.0	88.0	0.0	8.0	
5	5-Oct-19	24.2	32.7	76.0	87.0	0.0	8.0	
6	6-Oct-19	23.1	34.0	75.0	88.0	3.0	11.0	
7	7-Oct-19	24.2	33.9	76.0	87.0	0.0	11.0	
8	8-Oct-19	24.7	34.1	74.0	86.0	0.0	11.0	
9	9-Oct-19	25.8	35.0	78.0	88.0	0.0	11.0	
10	10-Oct-19	26.7	37.1	77.0	85.0	0.0	11.0	
11	11-Oct-19	25.4	38.7	75.0	87.0	0.0	11.0	
12	12-Oct-19	25.6	36.2	78.0	85.0	0.0	11.0	
13	13-Oct-19	24.9	33.5	73.0	88.0	0.0	11.0	
14	14-Oct-19	24.8	35.9	75.0	86.0	0.0	11.0	
15	15-Oct-19	25.7	33.9	74.0	87.0	0.0	11.0	
16	16-Oct-19	25.3	35.8	76.0	86.0	0.0	11.0	
17	17-Oct-19	23.9	34.6	78.0	85.0	0.0	11.0	
18	18-Oct-19	24.6	36.1	74.0	87.0	0.0	11.0	
19	19-Oct-19	25.4	35.6	76.0	85.0	0.0	11.0	
20	20-Oct-19	24.6	36.8	74.0	88.0	0.0	11.0	
21	21-Oct-19	25.8	38.9	76.0	85.0	0.0	11.0	
22	22-Oct-19	26.8	34.4	78.0	84.0	0.0	11.0	
23	23-Oct-19	24.9	33.1	79.0	88.0	0.0	11.0	

24	24-Oct-19	25.5	34.5	73.0	81.0	0.0	11.0	
25	25-Oct-19	25.1	34.8	75.0	82.0	0.0	11.0	
26	26-Oct-19	25.2	35.2	78.0	83.0	0.0	11.0	
27	27-Oct-19	28.1	33.0	77.0	81.0	0.0	11.0	
28	28-Oct-19	27.2	33.4	76.0	82.0	0.0	11.0	
29	29-Oct-19	27.4	32.4	78.0	88.0	16.0	27.0	
30	30-Oct-19	26.9	33.0	77.0	87.0	5.0	32.0	
31	31-Oct-19	27.0	33.2	73.0	88.0	0.0	32.0	
	Average	25.5	34.6	75.9	85.8			

9.0 Safety Features

9.1 Pen picture of safety features

Location of Black spot	Suggested Remedial Measures with in provisions of Concession Agreement	Additional Remedial Measures (if any)	Financial implications of additional Remedial Measures for Authority
NIL			

9.2 Accident report : NIL

10.0 Review status of drawings/design reports

10.1 Structure drawing status

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
1	Pipe Culvert	35	35	35	-	Submitted via direct mail from Designer to IE dated 15.05.2019 at 2:36 PM	Found in order as per MoM dt. 17.05.2019	Approved
2	Box Culvert	27	21	12	-	21 Nos Submitted via letter no. 050 dated 17.04.2019, also BC at Ch. 315+225 submitted via direct mail from Designer on 26.05.2019, also 12 submitted via letter no. 089 dt. 27.05.2019, 316+420 submitted via letter no. 128 dt 27.06.2019	12 Nos are found in order (less than 20°) in MOM 316+420 approval received via letter no. 632 dt. 16.07.2019	12 Nos Approved
3	Flyover	1	1	-	299+375	Submitted via letter no. 071 dated 09.05.2019	Comments received via letter No. 584 dated 01.07.2019	Revised drawing has been received from SES and subitted to Site for onward submission.

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
4	Major Bridge	3	3	1	302+732	Submitted via letter no. 029 dated 28.03.2019	-Comments received via letter No. 383 dated 11.05.2019 -Comments received on Hyd. Report via letter No. 905 dated 27.09.2019	Pending with concessionaire
					318+875	Submitted via letter no. 239 dated 04.10.2019	-	Under review with IE
					321+280	Submitted via letter no. 179 dated 28.03.2019	-	Approved in MOM dt. 30.08.2019
5	Minor Bridge	11	11	5	294+085	Submitted via letter no. 116 dated 21.06.2019	Comments received via letter No. 912 dated 30.09.2019	Pending with concessionaire
					296+432	Submitted via letter no. 184 dated 06.08.2019	-	Approved in MOM dt. 30.08.2019
					297+472	Compliance submitted via letter no. PVKEPL/VKP3/IE/178/2019 dt. 23.07.2019	-Comments received on Hyd. Report via letter No. 688 dated 01.08.2019	Under review with IE

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
					297+562	Submitted via letter no. 185 dated 06.08.2019	-Comments received on Hyd. Report via letter No. 905 dated 27.09.2019	Approved in MOM dt. 30.08.2019
					304+450	Submitted via letter no. 145 dated 17.08.2019	-	Approved in MOM dt. 30.08.2019
					307+731	GFC drawing has been submitted to site for onward submission.	-	Approved in MOM dt. 30.08.2019
					309+100	Submitted via letter no. 254 dated 17.10.2019	Comments received via letter No. 355 dated 06.05.2019	Under review with IE
					309+840	Submitted via letter no. 125 dated 24.06.2019, also Directly submitted by Designer to Aarvee via mail dt. 23.05.2019	Comments received via letter No. 812 dated 11.09.2019	Revised drawing has been received from SES.
					310+752	Submitted via letter no. 132 dt. 12.07.2019	Comments received via letter No. 913 dated 30.09.2019	Pending with concessionaire
					313+835	Submitted via letter no. 145 dated 17.08.2019	-	Approved in MOM dt.

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
								30.08.2019
					314+314	Directly by Designer to Aarvee via mail dt. 25.05.2019 at 6:19 pm and via letter no. PVKEPL/VKE3/IE/177/2019 dt. 23.07.2019	-Comments received on Hyd. Report via letter No. 688 dated 01.08.2019 Comments received via letter No. 913 dated 30.09.2019	Pending with concessionaire
6	PUP	30	30	21	-	-29 Nos via letter No. 21 dated 22.10.2018 - 1 No via letter No. 37 dated 12.12.2018 -Further 18 Nos revised Submitted Via ltr no. 18 on 28.02.2019, also Directly submitted by Designer to Aarvee via mail dt. 23.05.2019 at 6:41 pm R3- PVKEPL/HO/VKP3/IE/093/2019 dt. 28.05.2019 - Further revised 12 Nos submitted via 049 on 17.04.2019 -Directly by Designer to Aarvee via mail dt. 30.05.2019	Comments received via letter no. AA/VKE/PVKEPL/092/19-20/DESIGN REVIEW/357 dated 06.05.2019 and AA/VKE/PVKEPL/092/19-20/DESIGN REVIEW/442 dated 28.05.2019 on Geotech reports 3 Approved vide AA/VKE/PVKEPL/0114/19-20/DESIGN REVIEW/472 Dt. 03.06.2019 18 Approved vide AA/VKE/PVKEPL/0115/19-20/DESIGN REVIEW/473 Dt. 03.06.2019	Revised drawings have been received from Designer

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
7	VUP	3	3	1	295+575	Directly by Designer to Aarvee via mail dt. 24.05.2019 at 6:22 pm	AA/VKE/PVKEPL/0116/19-20/DESIGN REVIEW/474 Dt. 03.06.2019	Approved by IE via ltr. 474 dt. 03.06.2019
					303+830	Submitted via direct mail from Designer to IE dated 30.05.2019 at 8:00 PM	-	Under review with IE
					312+720	Submitted via letter no. 024 dated 22.10.2018	Comments received via letter No. 053 dated 02.02.2019	Pending with concessionaire (needs to change skew angle 17°)
8	VOP	1	1	-	307+193	Submitted via PVKEPL/HO/VKP3/IE/129/2019 dt. 09.07.2019	Comments received via letter No. 826 dated 16.09.2019	Pending with concessionaire

Sr. No	Type of Structure	Total scope (Nos)	Submitted to IE	Approved by IE	Chainage	Submission to IE	Comments from IE	Remarks
9	LVUP	7	7	7		Submitted via letter no. 021 dated 22.10.2019, also 4 submitted Directly by Designer to Aarvee via mail dt. 26.05.2019 at 4:55 pm, 311+047 submitted via direct mail from Designer on 28.05.2019 at 8:20 pm -Directly by Designer to Aarvee via mail dt. 30.05.2019 6 submitted via letter no. 127 dt. 25.06.2019	311+047 approved by AA/VKE/PVKEPL/0119/19-20/DESIGN REVIEW/485 Dt. 06.06.2019. comments on 6 LVUP received via letter no. 590 Dt. 04.07.2019	1 approved 6 Nos Found in order vide IE letter no. 590
10	ROB	1	1	-	293+014	Submitted via letter no. 046 dated 26.04.2019	Comments received via IE letter no. 526 dt. 17.06.2019	Received from SES

10.2 Highway drawing status

Plan and Profile					
Sr No.	Description	Concessionaire Submission Letter No. and Date		IE's comment Letter No. and Date	Remark
1	MCW	# 35 on 08.04.2019		# 476 Dt. 04.06.2019	
2	Connecting road	# 35 on 08.04.2019		# 476 Dt. 04.06.2019	
3	VOP Approaches	# 35 on 08.04.2019		# 476 Dt. 04.06.2019	

Abstract of Pavement Design

Connecting Road / Main Carriageway & Type of Pavement			Pavement Composition	Status	Remark
connecting Roads/ Overpass Cross Roads	Flexible Pavement	New Construction (10 MSA)	40 mm BC + 50 mm DBM +250 mm WMM + 200 mm GSB + 500 mm Subgrade with 8% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
			30 mm BC + 50 mm DBM +250 mm WMM + 200 mm GSB + 500 mm Subgrade with 10% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
			30 mm BC + 50 mm DBM +100 mm WMM + 150 mm CTSB + 500 mm Subgrade with 8% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
			30 mm BC + 50 mm DBM +100 mm WMM + 150 mm CTSB + 500 mm Subgrade with 10% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
			40 mm BC + 100 mm Aggregate Layer (WMM) + 200 mm Cemented Base + 250 mm GSB + 500 mm Subgrade with 8% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
			40 mm BC + 100 mm Aggregate Layer (WMM) + 200 mm Cemented Base + 250 mm GSB + 500 mm Subgrade with 10 % effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019
Main Carriage Way	Rigid Pavement	New Construction	300 mm PQC + 150 mm DLC + 150 mm GSB+ 500 mm Subgrade with 8% effective CBR	APPROVED	Letter no. AA/VKE/PVKEPL/051/18-19/Design Review/176 dated 13.03.2019

PLANT & APPROVAL STATUS

CRUSHER:-

300 TPH @ Rajpardi for Aggregates – Functional

Batching Plant:-

1. Batching Plant (60 CUM) @ Tralsa Camp (KM 299+350 R/S) - Functional
2. Batching Plant (112 CUM) @ Tralsa Camp (KM 299+350 R/S) - Functional
3. Batching Plant (60 CUM) @ Dayadra (KM 300+000 L/S) - Functional

10.3 Review status of source approvals

Course Aggregates:-

1. Rajpardi Quarry Approved vide letter no. 85 dated 15th FEB 2019

Fine Aggregates:-

- Bodeli Source Approved vide letter no. 86 dated 16th FEB 2019
Nareshwar Source Approved vide letter no. 86 dated 16th FEB 2019

Cement:-

- M/s Birla Corporation Ltd., Chanderiya, Rajasthan vide 048 dated 02th Feb 2019
M/s Ultra Tech Cement Ltd., Mumbai vide 048 dated 02th Feb 2019
M/s Udaipur Cement works lid. Vide 048 dated 02th Feb 2019
M/s Sanghi Industries Ltd., Kutch District, Gujarat. Vide 048 dated 02th Feb 2019
M/s JK Lakshmi Cement Ltd., Sirohi, Rajasthan vide 048 dated 02th Feb 2019
M/s Gujarat Sidhee cement vide 281 dated 11th March 2019
M/s Hathi Cement vide 289 dated 13th March 2019
M/s Nuvoko Cement vide 546 dated 24th July 2019

Chemical Admixture:-

- M/S BASF India Limited Approved vide letter no. 062 dated 12th Feb 2019
M/S Kunal Conchem Pvt Ltd Approved vide letter no. 062 dated 12th Feb 2019
M/S STP Approved vide letter no. 592 dated 5th Jul 2019
M/S Salimar Seal and Tar Product vide letter no. 676 dated 29th July 2019
M/S Yahska polymers Private limited Approved vide letter no. 784 dated 31st August 2019
M/S CAC Approved vide letter no. 677 dated 29th July 2019
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Reinforcement Steel:-

M/s Essar Steel Limited, Mumbai
M/s Electro steel Steel Limited, Kolkatta
Steel Authority of India Limited (SAIL)
Tata Iron and Steel company Limited (TISCO)
Rashtriya Ispat Nigam Limited (RINL)
Jindal Steel & Power Limited (JSPL)

NP4 Hume Pipe:-

M/s Giriraj Hume Pipes Industries,
Bodeli Approved vide letter no. 066 dated 12th Feb 2019
Approved Quantity of 1200 Dia NP4 Pipes – 700 Nos.
M/s T&G Approved vide letter no. 547 dated 24th June 2019

Concrete Mix Design:-

1) M-15 PCC, M-20 PCC, M-25 RCC, M-30 RCC, M-35 RCC, M-35 Pile, M-40 RCC
With Ultratech OPC 53 Grade cement, Rajpardi quarry Quarry Aggregates, Bodeli and
Nareshwar Sand and Kunal Con Plast Admixture. Approved vide letter no. 131 dated
25th Feb 2019.

2) M-15 PCC, M-20 PCC, M-25 RCC, M-30 RCC, M-35 RCC, M-35 Pile, M-40 RCC
With Ultratech OPC 53 Grade cement, Rajpardi quarry Quarry Aggregates, Bodeli and
Nareshwar Sand and BASF Admixture. Approved vide letter no. 132 dated 25th
Feb 2019.

Borrow Area:-

Status	Number of Borrow areas	Qty(Cum)
Approved	74	2668942
Submitted	17	809832
Total	91	3478774

Independent Laboratory :-

Mukesh A Patel, Ahmedabad Approved vide letter no. 065 dated 12th Feb 2019

Geo Design & Research Pvt Ltd Approved vide letter no. 283 dated 11th April 2019

NCR:-

NCR.01:- Embankment construction is carried out on review stretches without ground improvement. By Letter no. 209 on 22.03.2019 and complied Vide letter 56 on dated 19.04.2019.IE reviewed and commented vide letter mo 451 on dated 30.05.2019. Compliance submitted by concessionaire vide Letter no 148 Dt.20.08.2019.

NCR.02:- Embankment construction is carried out on review stretches without ground improvement. By Letter no. 253 on 08.04.2019 and complied Vide letter 56 on dated 19.04.2019.IE reviewed and commented vide letter mo 466 on dated 31.05.2019.Compliance submitted by concessionaire vide Letter no 148 Dt.20.08.2019

NCR.03:- Construction of Raft is carried out 500mm below the OGL at interface of PUP at Ch. 304+170 on LHS.Rectification Done.

NCR.04:- PCC Construction is carried out at Foundation level over un-compacted earth fill of 900mm thick for the construction of PUP at Km. 305+058 and Km. 309+550. Rectification work in progress.

NCR.05:- Construction of back fill is carried out in a single layer with embankment of 1.5m depth around the HPC at ch.303+408. Rectification Done .NCR Closed
