MONTHLY PROGRESS REPORT December-2019



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

Concessionaire:



EPC Contractor:



PATEL INFRASTRUCTURE LIMITED

PATEL HOUSE, CHANNI, VADODARA

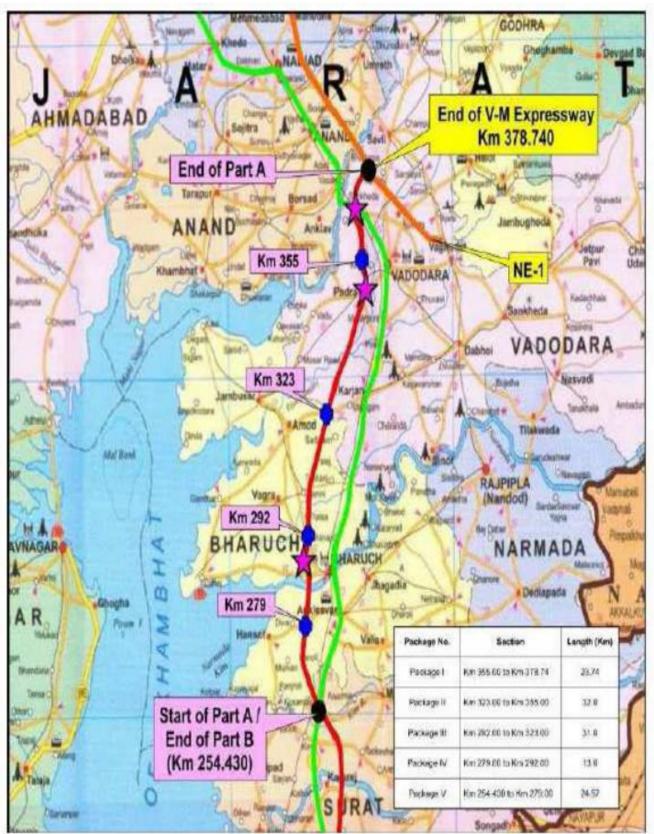
Monthly Progress Report-December 2019

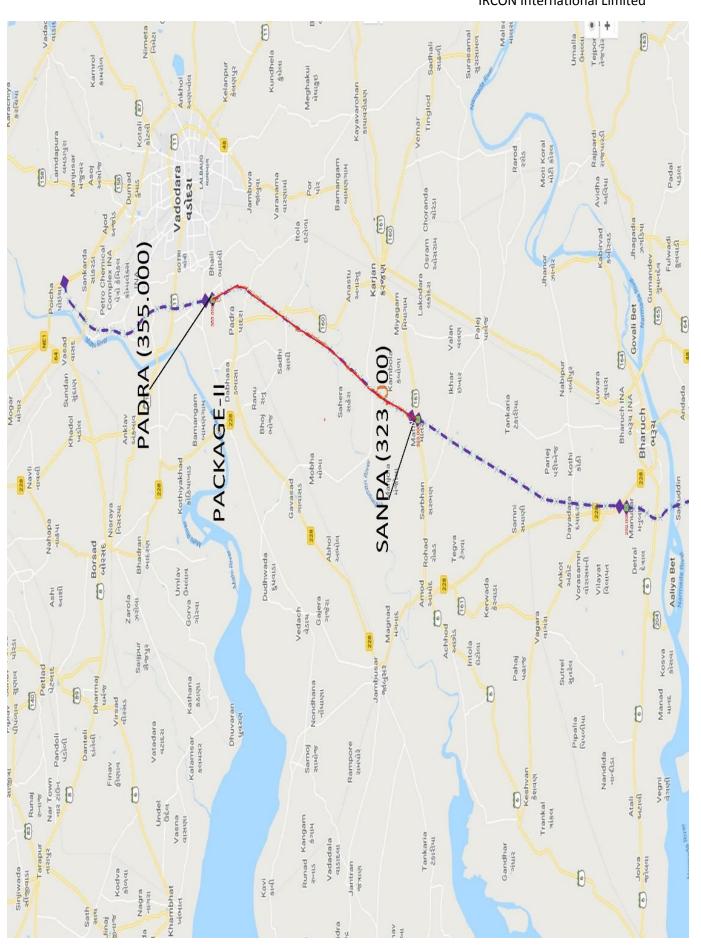
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I. LOCATION PLAN & KEY PLAN

A. Key plan of Expressway



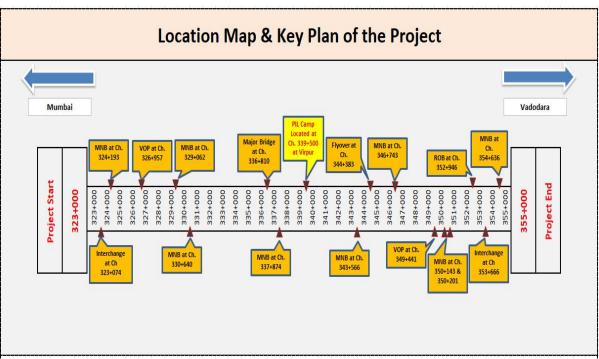


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Patel Infrastruture Limited

B. KEY PLAN OF PROJECT





II. EXECUTIVE SUMMARY

A. Project Synopsis

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

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

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

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

Net unencumbered/Unhindered length of road as on date is (31.00 – 5.390) 25.610 km. i.e. 82.61%.

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 was done 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.

This report covers the progress for the month of December 2019. The Embankment work of the main carriageway has been continued and 27.76 Km out of 30.52 Km is in progress. The Executive summary of the reporting month of December 2019 is shown below.

Executive Summary of the Project					
SI. No	Key Reporting Metrics	Value/%/Amount			
1	Cumulative Scheduled Physical Progress (%)	30.84%			
2	Cumulative Achieved Physical Progress up to Current month (%)	35.12%			
3	Physical progress target during current month (%)	4.01%			
4	Physical progress achieved during current month (%)	4.87%			
5	Cumulative scheduled financial Progress (%)	22.40%			
6	Cumulative Achieved Financial Progress up to Current month (%)	19.56%			
7	Financial progress target during current month (%)	3.00%			
8	Financial progress achieved during current month (%)	2.19%			

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
0Concessionaire	IRCON Vadodara Kim Expressway Limited
EPC Contractor	IRCON International Limited
Contractor	Patel Infrastructure Limited
Independent Engineer	Aarvee Associates Architects Engineers & Consultants
Project Length	32.00 Km
Total Bid Project Cost	1465.00 Cr.
Defect liability Period	42 month
Construction Period	670 Days from the Appointed Date.
Date of LOA	26.10.2018
Date of Concession Agreement	19.11.2018
Appointed Date	31.01.2019
Schedule Date of Competition	30.11.2020

A. Milestones as per CA:

Sr. No.	Project Milestone	Financial Work Completion Miles		Proposed Date of Milestone	Financial Progress
1	Milestone - 1	20%	30/06/2019	30/09/2019	292.998

2	Milestone – 2	35%	27/12/2019	31/01/2020	512.746
3	Milestone – 3	75%	25/04/2020	31/07/2020	1098.743
4	Milestone – 4	100%	01/12/2020	01/12/2020	1464.999

B. Details of Typical Cross section

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

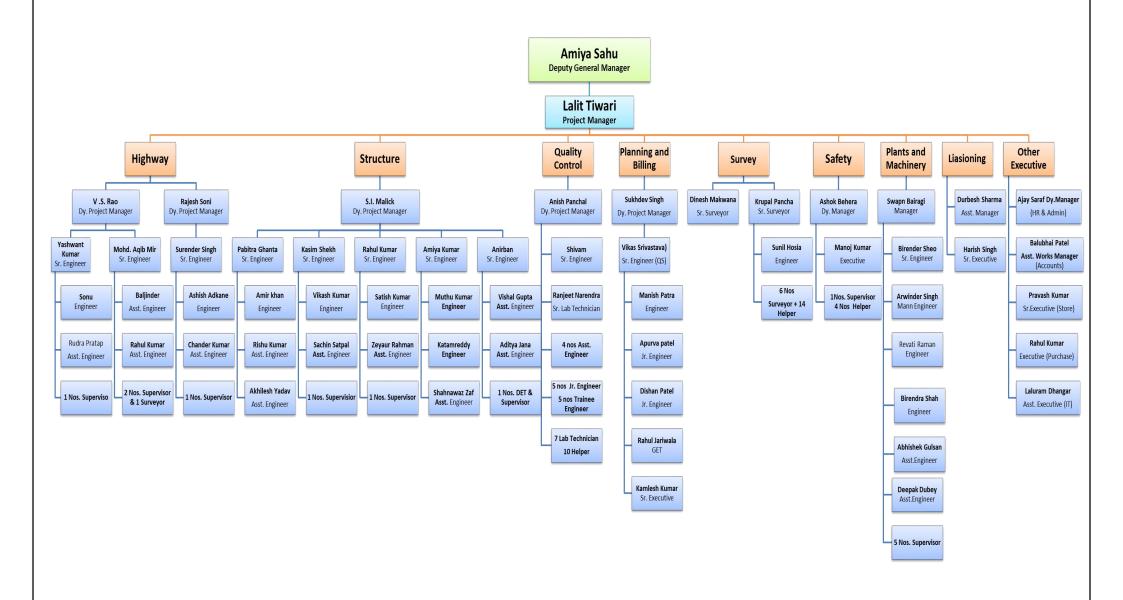
C. <u>Details of MCW:</u>

Sr. No.	Description	Length (in Km)
1	Embankment	30.52 Km
2	Sub grade	30.52 Km
3	G.S.B	30.52 Km
4	D.L.C	30.52 Km
5	P.Q.C	30.52 Km

D. <u>Details of Structures</u>:

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

E. ORGANIZATION CHART



F. Details of Plant and Machinery Deployed:

Plant and Machinery Monthly Deployment Status							
SI. No	Equipment	Unit	Avg. Planned	Actual	Remarks, If any		
1	Back Hoe Loader	Nos	5	20			
2	Excavator	Nos	19	37			
3	Motor Grader	Nos	19	26			
4	Vibratory Roller/Soil Compactor	Nos	19	36			
5	Wet Mix Paver	Nos	0	0			
6	Wet Mix Plant	Nos	0	1			
7	DLC Paver	Nos	0	0			
8	PQC Paver	Nos	0	0			
9	Hot Mix Plant	Nos	0	0			
10	Bitumen Paver	Nos	0	0			
11	Bitumen Sprayer	Nos	0	0			
12	Boomer	Nos	0	0			
13	Tandem Roller	Nos	0	0			
14	Pneumatic Tyre Roller	Nos	0	0			
15	Dumpers/Tippers	Nos	86	148			
16	FE Loaders/Dozer	Nos	5	10			
17	Water Tanker	Nos	19	48			
18	Compressor	Nos	0	0			
19	Concrete Batching Plant	Nos	1	8			
20	Transit Mixers	Nos	9	40			
21	Concrete Pump + Boom placer	Nos	2	3			
22	Kerb Machine	Nos	0	0			
23	Crusher - 250 MT	Nos	1	0			
24	Weigh Bridge	Nos	4	2			
25	Tractor	Nos	3	10			
26	Diesel Tanker	Nos	2	5			
27	Tempo	Nos	3	0			
28	Tower Light	Nos	4	8			
29	Hydra Crane	Nos	2	6			
30	Vibratory Rammer	Nos	2	0			
31	Dewatering Pump (Portable)	Nos	5	7			
32	Baby Roller	Nos	2	2			
33	Trailor / Platform Truck	Nos	1	6			
34	Vibrator (Needle Type)	Nos	4	12			
35	Kerb Cutter	Nos	2	0			
36	Pile Boring machines	Nos.	6	10			

G. <u>Details of Applicable Permits:</u>

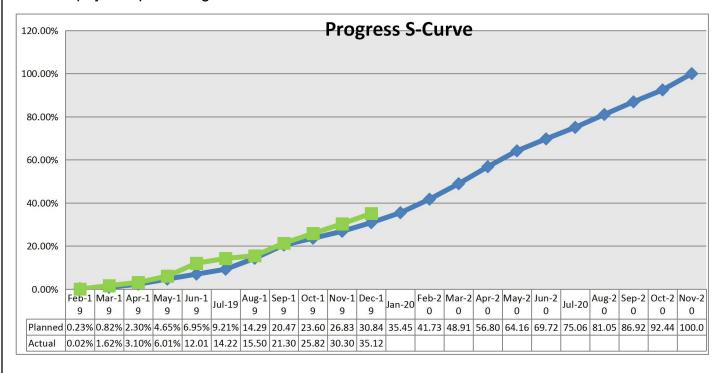
Sta	atus of Applicable Permits (As	per Sched	ule F) as on	December -19
Sl. No	Description	otion Status Receiv		Remarks
1	Permission of the State Government for extraction of boulders from quarry for and in respect of at least 20 (twenty) percent of the total length of the project;	Received	06.12.2018	
2	Permission of Village Panchayats and Pollution Control Board for installation of crushers;	Received	16.10.2018	
3	License for use of explosives;	Received	16.01.2017	Valid up to 31.03.2023
4	Permission of the State Government for drawing water from river/reservoir;	NA	NA	As per CGWA guidelines, for ground water extraction up to 100 cum /day NOC not required.
5	License from inspector of factories or other competent authority for setting up batching plant;	Applied		
6	Clearance of Pollution Control Board for setting up batching plant;	Received	20/04/2019	
7	Clearance of Village Panchayats and Pollution Control Board for setting up asphalt plant;	NA	NA	
8	Permission of Village Panchayats and State Government for borrow earth	Received		Submitted with relevant Borrow Area.
9	Other permits or clearances required under Applicable Laws.	NA	NA	

IV. Project Progress

A. Physical Progress:

The Physical percentage of the work done is calculated is based on the assigned weightages revised on 05.01.2020 to the overall scope of the work.

The physical percentage achieved is 35.12% as on 31st December 2019.



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

B. Highway Progress:

Sr. No.	Item	Unit	Scope of work	Completed	Work in Progress	Balance work
1	C & G	Km	30.52	27.76	1.6	1.16
2	Embankment	Km	30.52	16.39	9.3	9.62
3	Sub grade	Km	30.52	0.5	3	27.02
4	GSB	Km	30.52	0	0.3	30.22
5	DLC	Km	30.52	0	0	30.52
6	PQC	Km	30.52	0	0	30.52

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

Structure Progress: C.

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	42	0	0	1.) Pipe laid in 80 (m) length
2	BOX Culvert	52	13	26	13	1.) 33 nos Raft Completed and 30 Nos Wall 1st lift Completed, and At location 13 Slab Completed
3	Flyover	1	0	1	0	1.) At Location 344+360 All Pile completed. 8 Pile caps completed,1 Abutment cap & 1 Pier cap Completed
4	ROB	1	0	0	1	Not Started
5	МЈВ	1	0	1	0	1.) At Location 336+835, Pile work in progress
6	MNB	9	0	9	0	Pile work completed. Substructure is in progress.
8	Interchange	2	0	2	0	 1.) At location 324+074, Pile and Pile cap completed. Substructure work in progress. 2.) At location 353+666, Pile cap and substructure work in progress.
9	VOP	2	0	2	0	1.) At Location 349+441, Pile & Pile cap completed. 2). At Location 326+957, Pile & Pile cap completed
10	LVUP	8	3.5	4.5	0	1.) Substructure and Superstrucure work is in progress.
11	VUP	5	2	3	0	1.) Substructure and Superstrucure work is in progress.
12	P/CUP	34	7	27	0	1.) Foundation of 34 nos. Completed, 23 Wall completed and 7 Slabs Completed.
	Total	157	67.5	75.5	14	
1	Utility Duct	61	61	0	0	1) Utility duct in 75m Length Completed

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

V. Status of Land Acquisition

- Total land for which compensation was paid by NHAI/CALA as on 31st October 2019 is 96.875% i.e.31 Km. out of total 32km.
- Length of various utilities(hindrances) falling in the clear length of 31 km is 5.390 Km

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

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

- Net unencumbered/Unhindered length of road = 31.00 5.390 = 25.610
 km. i.e. 82.61%.
- Action taken by M/s. PIL: We are continuously corresponding with Concessionaire and related Authorities for shifting of utilities and Land acquisition Issues.

VI. <u>UTILITY SHIFTING</u>

		Status of Utilities in Package II of Vadodara Kim Expressway
Date		31st December 2019
Utilities	Nos.	Status
MGVCL	-	Out of 44 estimates, 39 are now approved by SE/MGVCL and sent to NHAI.NHAI further sent the same to IE on 10.08.2019 for verification & comments, if any.IE vide letter dated 31 Aug.2019 raised some observations which are complied. IE vide letter dated 4 Nov.2019 recommended 39 Estimates to PIU, Bharuch for approval. Our of pending 5 estimates, CE has approved 4 estimates and 1 is still pending. On the approval of balance 1 estimate, all 5 estimates shall be sent to PIU, Bharuch by MGVCL.
GETCO	8	Revised Estimate sent to PIU Bharuch which is then forwarded to IE for review. IE has given observations for some additional documents. In All compliances are done and sent by GETCO to PIU Bharuch on 02.10.2019 which is then forwarded to IE for review. It is under review with IE at present.
PGCIL	1	PGCIL sent the Estimate to PIU, Surat. As informed by PGCIL, a request letter from NHAI needs to be sent to PGCIL for submission of additional documents like duly signed copies of SOR, Joint site inspection report, Check list etc. On insistence of PGCIL, site inspection re-done on 07.09.2019 jointly with PGCIL, IE and Concessionaire and report signed by all. All compliances as per NHAI circular 2017 are done by PGCIL and sent to PIU Bharuch on 18.10.2019 which is then forwarded to IE for review. It is currently with IE for review.
TORRENT	1	IE vide letter dated 16.08.2019, reviewed the estimates submitted by GWSSB & forwarded by NHAI, PIU Bharuch and recommended to PIU Bharuch for approval. PIU Bharuch vide letter dated 04.10.2019 raised some observations on the estimates to GWSSB for further compliance which is being pursued with GWSSB authorities.
GWSSB	4	Final estimate duly verified by IE is lying at PIU, Bharuch for further action. PIU needs to issue letter to GWSSB if any further compliance is to be done by GWSSB.
ONGC	10	After conducting survey of lines by ONGC nominated committee on 07.08.2019, a meeting was held on 09.08.2019 at their Ankleshwar office for some clarification. Discussed the matter of getting " work permission" from ONGC with their GM Sh. Rao on 17.09.2019 and came to know that because of ONGC well which is coming at a distance of 10 mtr from our ROW as against 50 mtr as desired by ONGC, the matter has been referred to Ministry of Petroleum for further guidance.
GAIL	3	As per advise of PIU/NHAI, Concessionaire has sent a request letter along with GADs of affected structures to PIU/NHAI for further intimation to GAIL Authorities regarding the construction of these affected structures. PIU Bharuch also sent duly signed GADs of affected structures to GAIL. As desired by GAIL DGM Sh. Soni, a presentation giving details of pipelines and proposed structures along with their coordinates has been sent to GAIL. Site visit by GAIL representatives done. GAIL has issued two letters to PIU Bharuch for Sarswani and interchange at Padra respectively. Reply from PIOU Bharuch to GAIL is awaited.
GSPL	2	After necessary insurance add-on cover regarding special contingency liability as per the requirement of GSPL, an agreement is signed between GSPL & PIU, Bharuch. Final "no objection" is likely to be obtained in 3-4 days.

VII. STATUS OF DESIGN & DRAWING

Sr.N o	Type of Structure	Tota I scop e (Nos	Nos. of structure s Submitte d to IE	Nos. of structur es Approv ed by IE	Nos. of structur es Balance to be reviewd by IE	Chaina ge	Submitted to IE/IRCON on	Comments from IE/IRCON on	Compliance given on
1	Intercha	2	2	1	1	323+07 5	PIL/HO/VKE2/IRCON/577/2019 Dt. 13.08.2019		
1	nge					353+66 6	PIL/HO/VKP2/IRCON/580/2019 dt. 17.08.2019	M.O.M. dated 23.09.19 to 26.09.19	PIL-HO-VKP2-IRCON- 695-2019 Dt. 16.11.2019
2	Major Bridge	1	1	0	1	336+83 0	Submitted to IE-HO By SES by mail of dt. 19.06.2019	IRCON/3019/VKE/PAT EL/847 dt. 24.09.2019	-
						326+95 7	PIL/HO/VKP2/IRCON/604/2019 Dt. 28.08.2019	-	-
3	VOP	2	2	0	2	349+44 1	PIL/HO/VKP2/IRCON/183/2019 dt. 20.03.2019	IRCON/3019/VKE/PAT EL/370 dt. 03.05.2019	PIL/HO/VKP2/IRCON/ 638/2019 Dt. 04.10.2019
						324+19 3	PIL/HO/VKP2/IRCON/ 765/2019 Dt. 17.12.2019	-	
4	Minor Bridge	9	9	4	5	329+06	PIL/VKP2/IRCON/308/2019 dt. 28.11.2019	IE Letter no. 459 - 31.05.2019 & IRCON letter no. 489 dt. 11.06.2019	PIL/HO/VKE2/IRCON/4 95/2019 Dt. 01.07.2019

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						330+63 0	PIL/HO/VKE2/IRCON/ 676/2019 Dt. 06.11.2019	IRCON letter no. 993 dt. 28.11.2019	
						337+87 4	PIL/VKP2/IRCON/309/2019 dt. 28.11.2019	-	-
						343+50 0	PIL/HO/VKE2/IRCON/ 671/2019 Dt. 05.11.2019	IRCON/3019/VKE/PAT EL/4092 dt. 26.11.2019	-
						346+74 3	R1 -PIL/HO/VKE2/IRCON/563/2019 Dt. 07.08.2019	IRCON/3019/VKE/PAT EL/1039 dt. 09.12.2019 (For GT)	
						350+14 3	PIL/HO/VKP2/IRCON/324/2019 Dt. 09.05.2019	IRCON/3019/VKE/PAT EL/495 dt. 11.06.2019, IE letter no. 482 - 06.06.2019	
						350+20 1	PIL/HO/VKE2/IRCON/ 693/2019 Dt. 14.11.2019	IRCON/3019/VKE/PAT EL/1066 dt. 16.12.2019	
						354+63 6	PIL/HO/VKP2/IE/787/2019 Dt. 24.12.2019 (GFC)	-	-
5	Flyover	1	1	0	1	344+36 0	PIL/HO/VKE2/IRCON/593/2019 Dt. 23.08.2019 & 597 Dt. 26.08.2019	M.O.M. dated 23.09.19 to 26.09.19	-
6	ROB	1	1	0	1	352+94	PIL/HO/VKP2/IRCON/520/2019 Dt. 15.07.2019 &	-	-

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						5	PIL/HO/VKP2/IRCON/579/2019 Dt. 17.08.2019		
						330+40	PIL/HO/VKE2/IRCON/533/2019 Dt. 20.07.2019	IRCON/3019/VKE/PAT EL/853 dt. 27.09.2019 for bar No. 16	-
						331+82	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/5 01/2019 Dt. 02.07.2019
7	VUP	5	5	5	0	335+40 2	Submitted to IE-Ho By SES by mail of dt. 28.05.2019	-	-
						341+82 6	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/5 09/2019 Dt. 10.07.2019
						351+28 4	PIL/HO/VKE2/IRCON/501/2019 Dt. 02.07.2019	IRCON letter no. 497 dt. 11.06.2019	PIL/HO/VKE2/IRCON/5 01/2019 Dt. 02.07.2019
8	LVUP	8	8	2	6	-	4 nos. submitted by mail on dt. 26.05.2019, 2 nos. submitted by letter no. 519 dt. 12.07.2019, 2 nos. (High Skew angle) submitted by letter dated15.03.2019	2 nos. Approved by IRCON Letter no. 758 dt. 23.08.2019 (343+877 & 354+855)	-

9	PUP/CU P	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)	-
10	Box Culvert	52	48	20	28	-	20 nos. bt letter no. 371 dt. 24.05.2019, 4 nos. by mail dt. 01.06.2019, 4 nos. by mai dt. 15.05.2019, 1 nos. by mail dt. 16.05.2019, 9 nos. by mail dt. 28.05.2019, 3 nos. by mail dt. 29.05.2019, 7 nos. by mail dt. 31.05.2019	20 nos.approved in M.O.M - 14.05.2019 to 17.05.2019	-
11	Pipe Culvert	42	42	42	0	-	42 Nos. Submitted by PIL/HO/VKE2/IRCON/362/2019 Dt. 24.05.2019	42 nos. IRCON/3019/VKE/PAT EL/476 dt. 06.06.2019	42 Nos. Submitted by PIL/HO/VKE2/IRCON/4 99/2019 Dt. 02.07.2019
	Total =	244	197	130	49				

	Construction of Eight lane \	/adodara Kim Expressway from Km 323.00 to Kn National Highway Authority of India (NHDP P IRCON International	hase VI)
Monthly Progress Report-December2019		Patel Infrastruture Limited	

VIII. Weather report for the month of December '19

Min. Max. Min. Min.	S. No.	DATE	TEN	MPRATURE (°C)	HUMI	IDITY (%)	RAINFALL (mm)	CUMMULATIVE	WEATHER
2 02-Dec-19 22.60 30.40 57.00 88.00 - - Sur 3 03-Dec-19 22.40 31.00 56.00 88.00 - - Sur 4 04-Dec-19 24.20 30.60 49.00 76.00 - - Sur 5 05-Dec-19 23.80 30.90 53.00 84.00 - - Sur 6 06-Dec-19 24.10 29.00 54.00 72.00 - - Sur 7 07-Dec-19 25.50 28.80 59.00 68.00 - - Sur 9 09-Dec-19 20.70 28.90 37.00 67.00 - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - Sur 11 11-Dec-19 20.80 29.10 42.00 77.00 - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00			Min.	Max.	Min.	Max.	(11111)	COMMODATIVE	
3 03-Dec-19 22.40 31.00 56.00 88.00 - Sur 4 04-Dec-19 24.20 30.60 49.00 76.00 - Sur 5 05-Dec-19 23.80 30.90 53.00 84.00 - Sur 6 06-Dec-19 24.10 29.00 54.00 72.00 - Sur 7 07-Dec-19 25.10 29.50 53.00 80.00 - Sur 8 08-Dec-19 20.70 28.90 37.00 67.00 - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - Sur 11 11-Dec-19 20.80 29.10 42.00 77.00 - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - Sur 17 17-Dec-19 18.20 26.30 44.00 69.00 - Sur 18 18-Dec-19 17.80 26.10 44.00 69.00 - Sur 20 20-Dec-19 17.80 26.10 44.00 69.00 - Sur 21 21-Dec-19 17.80 26.10 44.00 69.00 - Sur 22 22-Dec-19 17.80 29.50 46.00 80.00 - Sur 23 23-Dec-19 17.80 29.50 46.00 80.00 - Sur 24 24-Dec-19 17.80 29.50 46.00 80.00 - Sur 25 25-Dec-19 17.80 29.80 51.00 70.00 - Sur 26 26-Dec-19 18.80 28.80 51.00 70.00 - Sur 27 27-Dec-19 17.80 26.10 35.00 53.00 5.00 - Sur 28 28-Dec-19 17.80 26.50 49.00 68.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 54.00 55.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 54.00 55.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 54.00 55.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 54.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 54.00 55.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 55.00 - Sur 20 20-Dec-19 17.80 29.50 46.00 80.00 - Sur 21 21-Dec-19 17.80 29.50 35.00 51.00 - Sur 22 22-Dec-19 17.80 26.50 35.00 51.00 - Sur 23 23-Dec-19 17.80 26.50 35.00 51.00 - Sur 24 24-Dec-19 17.80 26.50 35.00 51.00 - Sur 25 25-Dec-19 17.80 26.50 35.00 51.00 - Sur 26 26-Dec-19 17.80 26.50 35.00 51.00 - Sur 27 27-Dec-19 17.00 26.50 35.00 51.00 - Sur	1	01-Dec-19	22.60	30.20	57.00	87.00	-	-	Sunny
4 04-Dec-19 24.20 30.60 49.00 76.00 - Sur 5 05-Dec-19 23.80 30.90 53.00 84.00 - Sur 6 06-Dec-19 24.10 29.00 54.00 72.00 - Sur 7 07-Dec-19 25.10 29.50 53.00 80.00 - Sur 8 08-Dec-19 25.50 28.80 59.00 68.00 - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - Sur 11 11-Dec-19 20.50 28.30 38.00 64.00 - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - Sur 17 17-Dec-19 18.20 26.30 44.00 69.00 - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - Sur 19 19-Dec-19 17.80 26.10 46.00 69.00 - Sur 20 20-Dec-19 17.80 26.10 40.00 67.00 - Sur 21 21-Dec-19 18.20 26.30 44.00 67.00 - Sur 22 22-Dec-19 17.80 29.50 46.00 80.00 - Sur 23 23-Dec-19 17.80 29.50 46.00 80.00 - Sur 24 24-Dec-19 17.80 29.50 46.00 80.00 - Sur 25 25-Dec-19 18.80 28.40 54.00 80.00 - Sur 26 26-Dec-19 17.80 26.10 35.00 53.00 - Sur 27 27-Dec-19 17.80 26.10 35.00 53.00 - Sur 28 28-Dec-19 17.80 26.50 35.00 53.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 53.00 - Sur 20 20-Dec-19 17.80 26.50 35.00 53.00 - Sur	2	02-Dec-19	22.60	30.40	57.00	88.00	-	-	Sunny
5 05-Dec-19 23.80 30.90 53.00 84.00 - - Sur 6 06-Dec-19 24.10 29.00 54.00 72.00 - - Sur 7 07-Dec-19 25.10 29.50 53.00 80.00 - - Sur 8 08-Dec-19 25.50 28.80 59.00 68.00 - - Sur 9 09-Dec-19 20.70 28.90 37.00 67.00 - - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - - Sur 11 11-Dec-19 20.80 29.10 42.00 77.00 - - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20	3	03-Dec-19	22.40	31.00	56.00	88.00	-	-	Sunny
6 06-Dec-19 24.10 29.00 54.00 72.00 Sui 7 07-Dec-19 25.10 29.50 53.00 80.00 Sui 8 08-Dec-19 25.50 28.80 59.00 68.00 Sui 9 09-Dec-19 20.70 28.90 37.00 67.00 Sui 10 10-Dec-19 20.50 28.70 35.00 70.00 Sui 11 11-Dec-19 20.80 29.10 42.00 77.00 Sui 12 12-Dec-19 19.20 28.30 38.00 64.00 Sui 13 13-Dec-19 19.50 28.50 48.00 77.00 Sui 14 14-Dec-19 19.40 29.20 41.00 69.00 Sui 15 15-Dec-19 17.80 26.10 46.00 62.00 Sui 16 16-Dec-19 16.40 24.80 42.00 68.00 Sui 17 17-Dec-19 16.90 25.10 44.00 69.00 Sui 18 18-Dec-19 17.30 24.90 43.00 67.00 Sui 19 19-Dec-19 18.20 26.30 44.00 67.00 Sui 20 20-Dec-19 17.80 26.10 42.00 68.00 Sui 21 21-Dec-19 17.80 26.10 42.00 68.00 Sui 22 22-Dec-19 17.80 26.10 42.00 68.00 Sui 23 23-Dec-19 17.80 29.50 46.00 80.00 Sui 24 24-Dec-19 18.80 29.50 46.00 80.00 Sui 25 25-Dec-19 18.80 28.40 51.00 70.00 Sui 26 26-Dec-19 17.80 28.50 44.00 80.00 Sui 27 27-Dec-19 17.80 25.50 35.00 51.00 Sui 28 28-Dec-19 17.80 26.10 35.00 53.00 Sui 29 29-Dec-19 17.80 26.50 35.00 53.00 Sui 29 29-Dec-19 17.80 26.50 35.00 53.00 Sui 30 30-Dec-19 16.00 26.30 35.00 69.00 Sui 31 30-Dec-19 16.00 26.30 35.00 69.00 Sui	4	04-Dec-19	24.20	30.60	49.00	76.00	-	-	Sunny
7 07-Dec-19 25.10 29.50 53.00 80.00 - Sur 8 08-Dec-19 25.50 28.80 59.00 68.00 - Sur 9 09-Dec-19 20.70 28.90 37.00 67.00 - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - Sur 11 11-Dec-19 19.20 28.30 38.00 64.00 - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - Sur 21 21-Dec-19 17.80 26.10 42.00 68.00 - Sur 22 22-Dec-19 17.80 29.50 46.00 80.00 - Sur 23 23-Dec-19 17.80 29.80 46.00 80.00 - Sur 24 24-Dec-19 18.80 28.40 51.00 70.00 - Sur 25 25-Dec-19 17.80 25.60 44.00 80.00 - Sur 26 26-Dec-19 17.80 25.60 44.00 80.00 - Sur 27 27-Dec-19 17.80 25.50 35.00 51.00 - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - Sur 29 29-Dec-19 17.80 25.50 35.00 53.00 - Sur 29 29-Dec-19 17.80 26.10 35.00 53.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 58.00 - Sur 29 29-Dec-19 17.80 26.50 35.00 58.00 - Sur 29 29-Dec-19 17.80 26.30 35.00 69.00 - Sur 29 29-Dec-19 17.80 26.30 35.00 69.00 - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - Sur	5	05-Dec-19	23.80	30.90	53.00	84.00	-	-	Sunny
8 08-Dec-19 25.50 28.80 59.00 68.00 - - Sur 9 09-Dec-19 20.70 28.90 37.00 67.00 - - Sur 10 10-Dec-19 20.50 28.70 35.00 70.00 - - Sur 11 11-Dec-19 20.80 29.10 42.00 77.00 - - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 18.20 26	6	06-Dec-19	24.10	29.00	54.00	72.00	-	-	Sunny
9 09-Dec-19 20.70 28.90 37.00 67.00 - Sui 10 10-Dec-19 20.50 28.70 35.00 70.00 - Sui 11 11-Dec-19 20.80 29.10 42.00 77.00 - Sui 12 12-Dec-19 19.20 28.30 38.00 64.00 - Sui 13 13-Dec-19 19.50 28.50 48.00 77.00 - Sui 14 14-Dec-19 19.40 29.20 41.00 69.00 - Sui 15 15-Dec-19 17.80 26.10 46.00 62.00 - Sui 16 16-Dec-19 16.40 24.80 42.00 68.00 - Sui 17 17-Dec-19 16.90 25.10 44.00 69.00 - Sui 18 18-Dec-19 17.30 24.90 43.00 67.00 - Sui 19 19-Dec-19 18.20 26.30 44.00 67.00 - Sui 20 20-Dec-19 17.80 26.10 42.00 68.00 - Sui 21 21-Dec-19 17.80 26.10 42.00 68.00 - Sui 22 22-Dec-19 17.80 29.50 46.00 80.00 - Sui 23 23-Dec-19 21.20 28.80 51.00 70.00 - Sui 24 24-Dec-19 20.40 26.90 49.00 68.00 - Sui 25 25-Dec-19 18.80 28.40 54.00 80.00 - Sui 26 26-Dec-19 18.40 25.60 44.00 80.00 - Sui 27 27-Dec-19 17.80 26.10 35.00 53.00 - Sui 28 28-Dec-19 17.80 26.50 35.00 53.00 - Sui 29 29-Dec-19 17.80 26.50 35.00 58.00 - Sui 30 30-Dec-19 16.00 26.30 35.00 69.00 - Sui 31 30-Dec-19 16.00 26.30 35.00 69.00 - Sui	7	07-Dec-19	25.10	29.50	53.00	80.00	-	-	Sunny
10 10-Dec-19 20.50 28.70 35.00 70.00 - - Sur 11 11-Dec-19 20.80 29.10 42.00 77.00 - - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 20 20-Dec-19 17.80	8	08-Dec-19	25.50	28.80	59.00	68.00	-	-	Sunny
11 11-Dec-19 20.80 29.10 42.00 77.00 - - Sur 12 12-Dec-19 19.20 28.30 38.00 64.00 - - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80	9	09-Dec-19	20.70	28.90	37.00	67.00	-	-	Sunny
12 12-Dec-19 19.20 28.30 38.00 64.00 - - Sur 13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 20 20-Dec-19 18.20 26.30 44.00 67.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80	10	10-Dec-19	20.50	28.70	35.00	70.00	-	-	Sunny
13 13-Dec-19 19.50 28.50 48.00 77.00 - - Sur 14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 29.50 46.00 80.00 - - Sur 21 21-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20	11	11-Dec-19	20.80	29.10	42.00	77.00	-	-	Sunny
14 14-Dec-19 19.40 29.20 41.00 69.00 - - Sur 15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 20 20-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40	12	12-Dec-19	19.20	28.30	38.00	64.00	-	-	Sunny
15 15-Dec-19 17.80 26.10 46.00 62.00 - - Sur 16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 18.40	13	13-Dec-19	19.50	28.50	48.00	77.00	-	-	Sunny
16 16-Dec-19 16.40 24.80 42.00 68.00 - - Sur 17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80	14	14-Dec-19	19.40	29.20	41.00	69.00	-	-	Sunny
17 17-Dec-19 16.90 25.10 44.00 69.00 - - Sur 18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-	15	15-Dec-19	17.80	26.10	46.00	62.00	-	-	Sunny
18 18-Dec-19 17.30 24.90 43.00 67.00 - - Sur 19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 53.00 - - Sur 28 28-Dec-	16	16-Dec-19	16.40	24.80	42.00	68.00	-	-	Sunny
19 19-Dec-19 18.20 26.30 44.00 67.00 - - Sur 20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-	17	17-Dec-19	16.90	25.10	44.00	69.00	-	-	Sunny
20 20-Dec-19 17.80 26.10 42.00 68.00 - - Sur 21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00	18	18-Dec-19	17.30	24.90	43.00	67.00	-	-	Sunny
21 21-Dec-19 17.80 29.50 46.00 80.00 - - Sur 22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - - 31 30-Dec-19	19	19-Dec-19	18.20	26.30	44.00	67.00	-	-	Sunny
22 22-Dec-19 17.80 29.80 46.00 80.00 - - Sur 23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	20	20-Dec-19	17.80	26.10	42.00	68.00	-	-	Sunny
23 23-Dec-19 21.20 28.80 51.00 70.00 - - Sur 24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - - 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	21	21-Dec-19	17.80	29.50	46.00	80.00	-	-	Sunny
24 24-Dec-19 20.40 26.90 49.00 68.00 - - Sur 25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - - -	22	22-Dec-19	17.80	29.80	46.00	80.00	-	-	Sunny
25 25-Dec-19 18.80 28.40 54.00 81.00 - - Sur 26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	23	23-Dec-19	21.20	28.80	51.00	70.00	-	-	Sunny
26 26-Dec-19 18.40 25.60 44.00 80.00 - - Sur 27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	24	24-Dec-19	20.40	26.90	49.00	68.00	-	-	Sunny
27 27-Dec-19 17.30 25.50 35.00 51.00 - - Sur 28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	25	25-Dec-19	18.80	28.40	54.00	81.00	-	-	Sunny
28 28-Dec-19 17.80 26.10 35.00 53.00 - - Sur 29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	26	26-Dec-19	18.40	25.60	44.00	80.00	-	-	Sunny
29 29-Dec-19 17.20 26.50 35.00 58.00 - - Sur 30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	27	27-Dec-19	17.30	25.50	35.00	51.00	-	-	Sunny
30 30-Dec-19 16.00 26.30 35.00 69.00 - - Sur 31 30-Dec-19 16.00 26.30 35.00 69.00 - - -	28	28-Dec-19	17.80	26.10	35.00	53.00	-	-	Sunny
31 30-Dec-19 16.00 26.30 35.00 69.00	29	29-Dec-19	17.20	26.50	35.00	58.00	-	-	Sunny
	30	30-Dec-19	16.00	26.30	35.00	69.00	-	-	Sunny
Cummulative Rainfall Till Date 2 380 40 mm	31	30-Dec-19	16.00	26.30	35.00	69.00	-	-	
Z,300.70 IIIII			C	ummulative Rainfall T	ill Date			2,380.40	mm

IX. Status of RFI

	MONTH :- December 2019											
S. No.	Total RFI	Approved RFI	RFI Re-submitted after corrections suggested	Remarks								
<u>Highwa</u>	Y											
1	487	434	53									
Structui	<u>~e</u>											
2	697	613	84									
Laborat	ory (QA/QC)											
3	34	32	2									
Survey												
4	7	7	0									

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

OGL

S.No	Description of Test	No. of Tes	st Conductious mont	-	No. of Test	Conducte	d during t	his Month	Cumn	Remarks		
	Description of Test	No.of Test	Results		No.of Test	Results		I.E. No.of Test		Results		Kemarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	226	226	0	0	0	0	0	226	226	0	
2	LL/PI	226	226	0	0	0	0	0	226	226	0	Frequency of
3	Sand Content (GSA)	226	226	0	0	0	0	0	226	226	0	testing is as per
4	Free Swell Index	226	226	0	0	0	0	0	226	226	0	specification
5	C.B.R	30	30	0	0	0	0	0	30	30	0	

Shoulder

S.No		No. of Tes	st Conduct rious mont	•	No. of Test	Conducte	d during t	this Month	Cumn	D 1		
	Description of Test	No.of Test	Results		No.of Test	Results		I.E.	No.of Test	Results		Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of
2	LL/PI	0	0	0	0	0	0	0	0	0 0		testing is as per

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3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	specification
4	Free Swell Index	0	0	0	0	0	0	0	0	0	0	
5	C.B.R	0	0	0	0	0	0	0	0	0	0	

Existing Site Sample (MCW/SR)

S.No	S.No Description of Test	No. of Tes	st Conduct vious mont	-	No. of Test	Conducte	d during	this Month	Cumn	nulative To	otal	Dde-
		No.of Test	Re	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	10	10	0	10	10	0	2	20	20	0	
2	LL/PI	2	2	0	0	0	0	0	2	2	0	Frequency of
3	Sand Content (GSA)	2	2	0	0	0	0	0	2	2	0	testing is as per
4	Free Swell Index	2	2	0	0	0	0	0	2	2	0	specification
5	Free Swell Index C.B.R	18	16	2	10	10	0	2	28	26	2	

Borrow Materials

S.No	Description of Test		et Conducted upto ious month	No. of Test	Conducted during	this Month	Cumn	nulative Total	Remarks
		No.of Test	Results	No.of Test	Results	I.E.	No.of Test	Results	

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		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	2737	2737	0	333	333	0	67	3070	3070	0	
2	LL/PI	2737	2737	0	333	333	0	67	3070	3070	0	
3	Sand Content (GSA)	2737	2737	0	333	333	0	67	3070	3070	0	Frequency of testing is as
4	Free Swell Index	2737	2737	0	333	333	0	67	3070	3070	0	per specification
5	C.B.R	567	539	28	19	10	9	4	586	549	37	specification
6	C.B.R (Soil Blended with Sand)	6	0	6	0	0	0	0	6	0	6	

Soil St	abilization											
S.No	D CT	No. of Tes	t Conduct ious mont		No. of Test	Conducte	d during t	this Month	Cumn	nulative To	otal	D. I
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	
2	LL/PI	0	0	0	0	0	0	0	0	0	0	Frequency of
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	testing is as per
4	Free Swell Index	0	0	0 0	0	0	0	0	0	0	specification	
5	C.B.R	0	0	0	0	0	0	0	0	0	0	

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Granular Sub Base

S.No	Description of Test	No. of Tes	st Conduct vious mont		No. of Test	Conducte	ed during	this Month	Cumn	nulative To	otal	
		No.of Test	Re	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	sults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	8	8	0	0	0	0	0	8	8	0	
2	Gradation	185	180	5	14	14	0	3	199	194	5	
3	LL/PI	180	180	0	14	14	0	3	194	194	0	Frequency of testing is as
4	10% fines Value	2	2	0	0	0	0	0	2	2	0	per specification
5	AIV	10	10	0	1	1	0	0	11	11	0	specification
6	C.B.R	8	8	0	0	0	0	0	8	8	0	

Wet Mix Macadam

S.No		No. of Tes	st Conduct	•	No. of Test	Conducte	d during t	this Month	Cumn	nulative To	otal	D 1
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as
2	Gradation	0	0	0	0	0	0	0	0	0	0	per

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3	}	LL/PI	0	0	0	0	0	0	0	0	0	0	specification
4		A.I.V.	0	0	0	0	0	0	0	0	0	0	
5	,	F.I. & E.I.	0	0	0	0	0	0	0	0	0	0	
6	•	L.A.A.V	0	0	0	0	0	0	0	0	0	0	

Existing Site Sample(GSB/WMM)

S.No		No. of Tes	st Conduct vious mont	-	No. of Test	Conducte	ed during t	this Month	Cumn	nulative To	otal	
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Proctor Test	0	0	0	0	0	0	0	0	0	0	
2	Gradation	0	0	0	1	1	0	0	0	0	0	
3	LL/PI	0	0	0	1	1	0	0	0	0	0	
4	A.I.V.	0	0	0	0	0	0	0	0	0	0	Frequency of
5	F.I. & E.I.	0	0	0	0	0	0	0	0	0	0	testing is as per
6	10% fines Value	0	0	0	0	0	0	0	0	0	0	specification
7	Water Absorption	0	0	0	0	0	0	0	0	0	0	
8	L.A.A.V	0	0	0	0	0	0	0	0	0	0	
9	CBR	0	0	0	0	0	0	0	0	0	0	

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Concrete Works

S.No		No. of Teapres	st Conductions months		No. of Test	t Conducte	ed during	this Month	Cumn	nulative To	otal	
	Description of Test	No.of Test	Re	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	sults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
A.	Compressive Strength of concrete cubes											
1	Concrete (Grouting)											
	7 days	0	0	0	0	0	0	0	0	0	0	
2	M-15 Concrete							0				
	7 Days	0	0	0	0	0	0	0	0	0	0	
	28 days	0	0	0	0	0	0	0	0	0	0	Frequency of
3	M-20 Concrete							0				testing is as per
	7 Days	519	519	0	104	104	0	21	623	623	0	specification
	28 days	1079	1079	0	239	239	0	48	1318	1318	0	
4	M-25 Concrete							0				
	7 Days	0	0	0	0	0	0	0	0	0	0	
	28 days	0	0	0	0	0	0	0	0	0	0	
5	M-30 Concrete							0				

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	7 Days	166	166	0	89	89	0	18	255	255	0
	28 days	459	459	0	161	161	0	32	620	620	0
6	M-35 (Pile)							0			
	7 Days	782	782	0	61	61	0	12	843	843	0
	28 days	4130	4130	0	407	407	0	81	4537	4537	0
	M-35 (RCC)							0			
	7 Days	403	403	0	216	216	0	43	619	619	0
	28 days	1516	1516	0	478	478	0	96	1994	1994	0
	M-35 (RE)				0	0		0			
	7 Days	89	89	0	30	30	0	6	119	119	0
	28 days	256	256	0	149	149	0	30	405	405	0
7	M-40 Concrete							0			
	7 Days	0	0	0	1	1	0	0	1	1	0
	28 days	0	0	0	0	0	0	0	0	0	0
8	M-45 Concrete							0			
	7 Days	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0
9	M-50 Concrete							0			

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	7 Days	0	0	0	0	0	0	0	0	0	0
	28 Days	0	0	0	0	0	0	0	0	0	0
10	End Block(GP2)	0	0	0	0	0	0	0	0	0	0
11	DLC Concrete							0			
	07 days	0	0	0	0	0	0	0	0	0	0
12	PQC (M-40)							0			
	7 Days	0	0	0	0	0	0	0	0	0	0
	28 days	0	0	0	0	0	0	0	0	0	0
	Beam	0	0	0	0	0	0	0	0	0	0
a)	D.L.C. (Combined Gradation)	4	4	0	0	0	0	0	4	4	0
b)	Coarse Aggregate Gradation	244	243	1	31	31	0	6	275	274	1
c)	Fine Aggregate Gradation	243	243	0	31	31	0	6	274	274	0
d)	Flakiness Index	202	202	0	4	4	0	1	206	206	0
e)	Impact Test	201	201	0	4	4	0	1	205	205	0
f)	Specific Gravity	18	18	0	0	0	0	0	18	18	0
g)	Water Absorption	18	18	0	0	0	0	0	18	18	0
B.	Testing of stone							0			
a)	Petrographical Examination	3	3	1	1	0	0	0	4	3	1

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b)	Alkali Agg Reactivity	4	4	1	1	0	0	0	5	4	1
c)	Chloride Content	4	4	1	1	0	0	0	5	4	1
d)	Sulphate Content	4	4	1	1	0	0	0	5	4	1
e)	Del material Content	4	4	1	1	0	0	0	5	4	1
f)	Sp. Gr & Water Absorption	4	4	1	1	0	0	0	5	4	1

Cement Testing

OPC-43 Grade

S.No		No. of Tes	st Conduct vious mont		No. of Test	Conducte	d during	this Month	Cumn	nulative To	otal	
	Description of Test	No.of Test Conducted	Re	sults	No.of Test Conducted	Res	ults	I.E. Witness	No.of Test Conducted	Res	sults	Remarks
			Passed	Failed	2011440004	Passed	Failed	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Passed	Failed	
1	Consistency	5	5	0	8	8	0	2	13	13	0	
2	Initial & Final Setting Time	5	5	0	8	8	0	2	13	13	0	
3	Fineness	5	5	0	8	8	0	2	13	13	0	Frequency of
4	Specific Gravity	0	0	0	4	4	0	1	4	4	0	testing is as per
5	3 days Comp. Strength	5	5	0	8	8	0	2	13	13	0	specification
6	7 days Comp. Strength	5	5	0	8	8	0	2	13	13	0	
7	28 days Comp. Strength	3	3	0	0	0	0	0	3	3	0	

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(ii)	OPC-53 Grade											
S.No	Description of Took	No. of Tes	st Conduct vious mont	•	No. of Test	Conducte	d during	this Month	Cumn	nulative To	otal	Domesto
	Description of Test	No.of Test	Re	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	sults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Consistency	72	72	0	24	24	0	5	96	96	0	
2	Initial & Final Setting Time	72	72	0	24	24	0	5	96	96	0	
3	Fineness	72	72	0	24	24	0	5	96	96	0	Frequency of
4	Specific Gravity	0	0	0	2	2	0	0	2	2	0	testing is as per
5	3 days Comp. Strength	81	81	0	16	17	0	3	97	98	0	specification
6	7 days Comp. Strength	75	75	0	15	15	0	3	90	90	0	
7	28 days Comp. Strength	61	61	0	14	14	0	3	75	75	0	

Bitumen Testing

(i) VG 40

S.No	D 677	No. of Tes	st Conductorious mont	. *	No. of Test	Conducte	d during t	his Month	Cumn	nulative To	otal	D 1
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	

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1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	
2	Penetration	0	0	0	0	0	0	0	0	0	0	Frequency of
3	Softening Point	0	0	0	0	0	0	0	0	0	0	testing is as per
4	Ductility	0	0	0	0	0	0	0	0	0	0	specification
5	Viscosity	0	0	0	0	0	0	0	0	0	0	

(ii) VG 30

S.No	Description of Test	No. of Tes	st Conduct rious mont		No. of Test	Conducte	d during t	his Month	Cumn	nulative To	otal	Remarks
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Sp. Gravity	0	0	0	0	0	0	0	0	0	0	
2	Penetration	0	0	0	0	0	0	0	0	0	0	Frequency of
3	Softening Point	0	0	0	0	0	0	0	0	0	0	testing is as per
4	Ductility	0	0	0	0	0	0	0	0	0	0	specification
5	Viscosity	0	0	0	0	0	0	0	0	0	0	

Emulsion Testing

(i) Emulsion (RS-1)

	Elliaision (105 1)											
S.No		No. of Tes	st Conduct rious mont	•	No. of Test	Conducte	d during t	this Month	Cumn	nulative To	otal	
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Penetration	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	0	
3	Viscosity	0	0	0	0	0	0	0	0	0	0	

(ii) Emulsion (SS-2)

S.No	Description of Test	No. of Tes	t Conduct	-	No. of Test	Conducte	d during t	this Month	Cumn	nulative To	otal	D 1
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Penetration	0	0	0	0	0	0	0	0	0	0	
2	Ductility	0	0	0	0	0	0	0	0	0	0	
3	Viscosity	0	0	0	0	0	0	0	0	0	0	

Rate of Spread of Material

S.No	D CT	No. of Tes	st Conduct rious mont	_	No. of Test	Conducte	d during t	his Month	Cumn	nulative To	otal	D 1
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Prime Coat	0	0	0	0	0	0	0	0	0	0	
2	Tack Coat	0	0	0	0	0	0	0	0	0	0	
3	Cement	0	0	0	0	0	0	0	0	0	0	

DBM (G-II) Testing (Site Sample)

S.No	Description of Test	No. of Tes	st Conduct rious mont		No. of Test	Conducte	d during t	his Month	Cumn	nulative To	otal	Remarks
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Kemarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	0	0	0	0	0	0	0	0	
3	Binder Content of Mix	0	0	0	0	0	0	0	0	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	
4	After Extraction Gradation	0	0	0	0	0	0	0	0	0	0	
5	Marshal Specimen	0	0	0	0	0	0	0	0	0	0	

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	Testing (SET)										
6	Maximum Sp. Gravity (Gmm) Test	0	0	0	0	0	0	0	0	0	0
7	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	0
8	AIV Test	0	0	0	0	0	0	0	0	0	0
9	LAAV Testing	0	0	0	0	0	0	0	0	0	0
10	Core Density Testing	0	0	0	0	0	0	0	0	0	0

BC (G-II) Testing (Site Sample)

S.No		No. of Tes	st Conductious mont		No. of Test	Conducte	d during t	his Month	Cumn	nulative To	otal	
	Description of Test	No.of Test	Res	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	Combined Gradation (Dry Mix)	0	0	0	0	0	0	0	0	0	0	
2	Sand Equivalent Value	0	0	0	0	0	0	0	0	0	0	
3	Binder Content of Mix	0	0	0	0	0	0	0	0	0	0	
4	Individual Gradation	0	0	0	0	0	0	0	0	0	0	
4	After Extraction Gradation	0	0	0	0	0	0	0	0	0	0	
5	Marshal Specimen Testing (SET)	0	0	0	0	0	0	0	0	0	0	

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6	Maximum Sp. Gravity (Gmm) Test	0	0	0	0	0	0	0	0	0	0
7	Combined FI & EI of Aggregate	0	0	0	0	0	0	0	0	0	0
8	AIV Test	0	0	0	0	0	0	0	0	0	0
9	LAAV Testing	0	0	0	0	0	0	0	0	0	0
10	Core Density Testing	0	0	0	0	0	0	0	0	0	0

Design Mix/Nominal Mix

S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test	Conducte	ed during	this Month	Cummulative Total			D 1
	Description of Test	No.of Test	Results		No.of Test	Results		I.E.	No.of Test	Results		Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	M-15	0	0	0	0	0	0	0	0	0	0	
2	M-20	44	44	0	3	3	0	1	47	47	0	
3	M-20 (Kerb)	0	0	0	0	0	0	0	0	0	0	
4	M-25	0	0	0	0	0	0	0	0	0	0	(28 days
5	M-30	44	44	0	3	3	0	1	47	47	0	Strength Achieved)
6	M-35 (R.C.C.)	44	44	0	3	3	0	1	47	47	0	
7	M-35 (Piling)	44	44	0	2	2	0	0	46	46	0	
8	M-35 (RE- Block)	6	6	0	1	1	0	0	7	7	0	

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9	M-40	40	40	0	0	0	0	0	40	40	0	
10	M-45	0	0	0	0	0	0	0	0	0	0	
11	M-50	0	0	0	0	0	0	0	0	0	0	
11	GP2	0	0	0	0	0	0	0	0	0	0	
12	D.L.C.	13	13	0	0	0	0	0	13	13	0	7 days Strength Achieved
13	G.S.B.	2	2	0	0	0	0	0	2	2	0	
14	W.M.M.	0	0	0	0	0	0	0	0	0	0	
15	M-40 P. Q. C.	0	0	0	0	0	0	0	0	0	0	
17	DBM GRADE - II	0	0	0	0	0	0	0	0	0	0	
19	BC GRADE - II	0	0	0	0	0	0	0	0	0	0	

Calibrations

S.No	Description of Test		No. of Test Conducted upto previous month			Conducte	d during	this Month	Cumn	D and a		
	Description of Test	No.of Test		Results		Results		I.E.	No.of Test	Results		Remarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	WMM Plant	0	0	0	0	0	0	0	0	0	0	
2	Concrete Batching Plant	15	15	0	3	3	0	1	18	18	0	
3	Hot Mix Plant	0	0	0	0	0	0	0	0	0	0	

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4	Rapid Moisture Meter	14	14	0	3	3	0	1	17	17	0	
5	Sand Pouring Cylinder	28	28	0	4	4	0	1	32	32	0	
6	C.T.M.	3	3	0	0	0	0	0	3	3	0	
7	F.T.M.	1	1	0	0	0	0	0	1	1	0	
8	Weight & Balance	9	9	0	0	0	0	0	9	9	0	
9	Proving rings							0				
	a) 2.5 KN	1	1	0	0	0	0	0	1	1	0	
	b) 25 KN	1	1	0	0	0	0	0	1	1	0	
	c) 50 KN	1	1	0	0	0	0	0	1	1	0	
	d) 100 KN	0	0	0	0	0	0	0	0	0	0	
10	Hot Mix Linnhoff 320	0	0	0	0	0	0	0	0	0	0	

Field Density Test

S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test	Conducte	d during	this Month	Cumn	Remarks		
	Description of Test	No.of Test	Re	sults	No.of Test	Res	ults	I.E.	No.of Test	Res	ults	Kemarks
		Conducted	Passed	Failed	Conducted	Passed	Failed	Witness	Conducted	Passed	Failed	
1	O.G.L.	3052	3047	5	37	36	1	7	3089	3083	6	Frequency of

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2	Embankment	4131	4118	13	1217	1213	4	243	5348	5331	17	testing is as per
3	Subgrade	249	249	0	112	109	3	22	361	358	3	specification(Set)
				_								
4	G.S.B	480	475	5	16	15	1	3	496	490	6	Ground Improvement
5	W.M.M	0	0	0	0	0	0	0	0	0	0	•
6	D.L.C.	0	0	0	0	0	0	0	0	0	0	
7	C.T.B.	0	0	0	0	0	0	0	0	0	0	
8	BSM	0	0	0	0	0	0	0	0	0	0	
9	Back filling	0	0	0	0	0	0	0	0	0	0	
10	Shoulder/Median	0	0	0	0	0	0	0	0	0	0	
11	Embankment (RE Wall)	0	0	0	0	0	0	0	0	0	0	

Fly Ash

S.No	Description of Test	No. of Test Conducted upto previous month			No. of Test	Conducte	d during t	this Month	Cumm	Remarks		
	Description of Test	No.of Test Conducted	Res	sults Failed	No.of Test Conducted	Res	ults Failed	I.E. Witness	No.of Test Conducted	Res Passed	ults Failed	Remarks

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1	Proctor Test	0	0	0	0	0	0	0	0	0	0	
2	LL/PI	0	0	0	0	0	0	0	0	0	0	Frequency of testing is as
3	Sand Content (GSA)	0	0	0	0	0	0	0	0	0	0	per specification