

Environmental and Social Due Diligence Report

Project Number: 47083-004
September 2021

INDIA: Accelerating Infrastructure Investment Facility in India – Tranche 3

Ashoka Ankleshwar Manubar Expressway Private Limited (Part 20 of 24)

Prepared by India Infrastructure Finance Company Limited for the India Infrastructure Finance Company Limited and the Asian Development Bank.

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CCS-A/ABL/K/6786/2021-2022

Date : April 3rd, 2021.

To,
M/s. Ashoka Buildcon Limited.,
Survey No. : 354,358,359,360,364,365,367 & 63,
Village : Boidra, Ta. : Ankleshwar, Dist. : BHARUCH

Kind Attention : Mr. Prashant Muthal, HSE Officer.

Dear Sir;

Sub. : Stack Emission, Ambient Air Monitoring, Drinking water sample water & Noise level Sample analysis reports.

Please find enclosed herewith the Stack Emission analysis, Ambient Air Quality analysis, Drinking water Sample analysis & Noise level monitoring analysis and reports for sampling carried out during our visit to your unit on 27th & 28th of March, 2021.

Also enclosed herewith the our Bill No. ANK- 01, Dt. 02/04/2021 of Rs. 17,700=00 for Your kind approval

Thanking you, We remain,

Yours faithfully,
CCS Enviro Control LLP



Surendra J. Revar.



PAINT THE ENVIRONMENT GREEN

Ref No. : 135/03/2020-2021

Date : 30/03/2021.

Report of Noise Level Measurement

Name of Industry : M/s. Ashoka Buildcon Limited,
Survey No. 354,358,359,360,364,365,367 & 63.
Village : Boidra, Ta. : ANKLESHWAR, Dist. BHARUCH

Date of Sampling. : On 27th of March, 2021.

Sr. No.	LOCATION	NOISE LEVEL (in dB (A)) (Day Time)	NOISE LEVEL (in dB (A)) (Night Time)
01.	Near Lab. (Q.C.)	49.2-51.2	40-42
02.	Nr RMC Plant Area	55-58	51-54
03.	Main Gate Area	47-55	41-42
04.	Near Main Office (Adm.)	44-48	38-40
05.	Nr. Mesh (Canteen)	40-43	36-38
06.	Corner Area a. Nr.West Side b. South Side c. East Side(RMC Plant)	39.8-42 48-50 49.2-52	36-37 41-43 40-42
07.	Near DG Set Area	72-74	67-69

GPCB Limits

Ambient from 6.00 am to 10.00 pm

75 dB (A)

Ambient from 10.00 pm to 6.00 am

70 dB (A)

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Analyst

Ahmedabad Office & Lab.	18, Block – B, Amrapali Complex, Bopal-Ambli Cross Road, Ahmedabad – 380 015. Email: nhj@cometconserve.com
Ankleshwar Office	A-43, Ramvatika, Hasot Road, Ankleshwar – 393 001. Phone (02646) 245263 Email: ccs.ankleshwar@gmail.com

Ref No. : 137/03/2020-2021

Date : 03/04/2021.

Analysis Report of Stack Emission Measurement


Name of Industry : M/s. Ashoka Buildcon Limited,
Survey No. 354,358,359,360,364,365,367 & 63.
Village : Boidra, Ta. : ANKLESHWAR, Dist. BHARUCH

Sr. No.	Parameters	Sample No.1	Sample No.2	GPCB Limit
01.	Date of Sampling.	27/03/2021.	27/03/2021.	
02.	Stack/Duct attached to	D. G. Set No.1	D. G. Set No. 2	
03.	Stack Height, Meter	---	---	
04.	Stack Diameter, mm	---	---	
05.	Type of Fuel used,	Diesal	Diesal	
06.	Stack Temperature, Centigrade	172	312	
07.	Avg. Velocity of Fuel Gases, m/sec.	13.6531	16.2035	
08.	Isokinetic flow rate for P. M. Sampling., L.P.M.,	18	16	
09.	Gaseous Sampling flow rate, L.P.M.	02	02	
10.	Avg. Concentration of P.M.,mg/Nm ³ .	83	74	150
11.	Concentration of SO ₂ , ppm,	28.39	32.95	100
12.	Concentration of NO _x , ppm,	41.87	43.17	50
13.	Concentration of CO, ppm,	312	676	---

Sampling: **PM** : IS : 11255 (Part-I, 1985) ; **SO₂** : IS : 11255 (Part – II, 1985), **NO_x** : IS 5182 (Part – 7, 2005).


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Tel : + 91 281 2225676, 2226399
Email : rjt@cometconserve.com
Web : www.cometconserve.com

Ref No. : 138/03/2020-2021

Date : 03/04/2021

Report of Ambient Air Monitoring :

Name of Industry : M/s. Ashoka Buildcon Limited,
Survey No. 354,358,359,360,364,365,367 & 63.
Village : Boidra, Ta. : ANKLESHWAR, Dist. BHARUCH

Sr. No.	PARTICULAR	SAMPLE NO.1	GPCB LIMIT In ug/m ³
01.	Date & Time of Sampling	27/03/2021. 10 : 25	
02.	Location of Sampling.	Near the Main Office Area. (RMC Plant)	
03.	Duration of Sampling. In Hrs.	24	
04.	Avg. Flow Rate of R. D..S. during Sampling., M ³ /min.	1.20	
05.	Avg. Concentration of P.M., (PM10) ug/m ³ .	92.58	100
06.	Avg. Concentration of P.M., (PM2.5) ug/m ³ .	55.49	60
07.	Concentration of SOx, ug/m ³	12.68	80
08.	Concentration of NOx, ug/m ³	21.37	80
09.	Concentration of CO, ug/m ³	129	5000
10.	Concentration of HCL, ug/m ³	ND	200

RSPM(PM10) : IS : 5182 (Part-IV & 23) 2006, (PM2.5) : as per manufacturing method, Sox : IS : 5182 (Part-II), Nox : IS : 5182 (Part-VI), ..

ND = Not Detecable

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Ref No. : 32/03/2020-2021..

Date : 03/04/2021.

Report of Water Analysis

Name of Industry : M/s. Ashoka Buildcon Limited,
Survey No. 354,358,359,360,364,365,367 & 63.
Village : Boidra, Ta. : ANKLESHWAR, Dist. BHARUCH

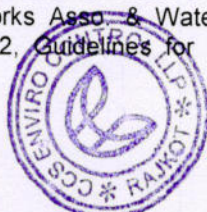
Source of Sample Collection : Drinking Water.(QC. Lab)

Sr. No.	Parameters	Unit	* Requirement (Acceptable Limits)	*Permissible Limit	Result
01.	Date of Sample	----	----	----	27/03/2021
02.	Colour	Hazen Units	5.0	15	Colourless
03.	Odour	-----.	Agreeable	Agreeable	Agreeable
04.	Taste	-----.	Agreeable	Agreeable	Agreeable
05.	pH	pH Unit.	6.5 to 8.5	No Relaxation	7.23
06.	Total Dissolved Solids (TDS)	mg/l.	500	2000	1846
07.	Suspended Solids(SS)	mg/l.	---	---	06
08.	Total Solids (TS)	mg/l.	---	---	1852
09.	Chloride (as Cl)	mg/l.	250	1000	893.34
10.	Sulphates (as SO ₄)	mg/l.	200	400	25
11.	Total Hardness (as CaCO ₃)	mg/l.	200	600	1100
12.	Calcium (as Ca)	mg/l.	75	100	200.4
13.	Magnesium (as Mg)	mg/l.	30	1000	145.8
14.	Total Alkalinity	mg/l.	200	600	500
15.	Turbidity	NTU	1.0	5.0	NIL
16.	Fluoride (as F)	mg/l.	01	1.5	0.34
17.	Free Residual Chlorine	mg/l.	0.2	1.0	NIL
18.	Nitrate (as NO ₃)	mg/l.	45	100	NIL
19.	Iron (as Fe)	mg/l.	0.3	1.0	0.13
20.	Zinc (as Zn)	mg/l.	05	15	0.21

Test Method : Reference Standard Methods for the Examination of Water & Waste Water – Prepared & Published jointly By American Public Health Asso. American Water Works Asso. & Water Env. Federation (23rd Edn.)

* Desirable & Permissible Limits as per IS 10500 : 2012, Guidelines for Drinking Water Specification (Second Revision).

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Ref No. : 33/03/2020-2021..

Date : 03/04/2021.

Report of Water Analysis

Name of Industry : M/s. Ashoka Buildcon Limited,
 Survey No. 354,358,359,360,364,365,367 & 63.
 Village : Boidra, Ta. : ANKLESHWAR, Dist. BHARUCH

Source of Sample Collection : Drinking Water.(RMC Plant)

Sr. No.	Parameters	Unit	* Requirement (Acceptable Limits)	*Permissible Limit	Result
01.	Date of Sample	----	----	----	27/03/2021
02.	Colour	Hazen Units	5.0	15	Colourless
03.	Odour	-----	Agreeable	Agreeable	Agreeable
04.	Taste	-----	Agreeable	Agreeable	Agreeable
05.	pH	pH Unit.	6.5 to 8.5	No Relaxation	6.79
06.	Total Dissolved Solids (TDS)	mg/l.	500	2000	124
07.	Suspended Solids(SS)	mg/l.	---	---	NIL
08.	Total Solids (TS)	mg/l.	---	---	124
09.	Chloride (as Cl)	mg/l.	250	1000	64.52
10.	Sulphates (as SO ₄)	mg/l.	200	400	BDL
11.	Total Hardness (as CaCO ₃)	mg/l.	200	600	30
12.	Calcium (as Ca)	mg/l.	75	100	8.02
13.	Magnesium (as Mg)	mg/l.	30	1000	2.43
14.	Total Alkalinity	mg/l.	200	600	40
15.	Turbidity	NTU	1.0	5.0	NIL
16.	Fluoride (as F)	mg/l.	01	1.5	NIL
17.	Free Residual Chlorine	mg/l.	0.2	1.0	NIL
18.	Nitrate (as NO ₃)	mg/l.	45	100	NIL
19.	Iron (as Fe)	mg/l.	0.3	1.0	NIL
20.	Zinc (as Zn)	mg/l.	05	15	0.11

Test Method : Reference Standard Methods for the Examination of Water & Waste Water – Prepared & Published jointly By American Public Health Asso. American Water Works Asso. & Water Env. Federation (23rd Edn.)

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