

Environmental Monitoring Data (April – June 2019)



UGC 01 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16)		April 2019		May 2019		June 2019		Baseline (Dec 16)		April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Cuffe parade	R	69.0	73.5	65.9	74.7	66.9	70.3	65.8	69.3	59.8	62.3	57.7	65.3	55.6	66.2	58.4	61.1
Vidhan bhavan	C	70.6	77.6	61.0	78.2	61.7	77.5	57.2	69.2	60.4	62.0	51.0	68.0	51.8	74.2	51.8	59.6
Churchgate	C	70.5	76.0	67.5	80.2	71.3	78.0	62.1	71.4	60.8	63.7	61.5	75.1	56.8	75.8	51.6	69.1
Hutatma chowk	C	70.4	70.4	73.0	77.8	68.4	80.0	66.4	69.8	61.0	61.3	66.8	76.2	55.1	79.1	52.3	58.5
CY Wadala	I	71.5	74.8	67.2	73.7	67.2	74.5	61.8	71.6	60.6	62.9	60.3	71.6	54.1	69.6	53.8	56.9
RMC MIDC	R			63.6	72.5	65.5	72.8	61.7	68.4			62.9	72.3	58.4	67.9	55.3	60.1

UGC 01 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	April 2019		May 2019		June 2019		Baseline (Dec 16)	April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Cuffe Parade	118	82.02	90.81	84.2	92.42	71.82	86.12	63	39.57	48.21	38.24	51.44	38.86	47.08
Vidhan bhawan	191	48.2	61.48	43.92	112.06	68.14	78.54	81	25.07	39.98	22.04	52.24	33.2	39.64
Churchgate	209	84.21	89.98	80.24	93.48	70.32	82.66	93	41.85	49.8	38.8	52.8	40.52	47.16
Hutatma chowk	218	89.02	98.31	96.2	104.02	84.25	99.02	92	49.99	58.05	38.04	57.02	48.73	65.38
Wadala casting yard	179	81.23	94.2	76.32	82.14	77.2	88.1	72	39.99	46.8	28.04	38.4	36.92	42.88
MIDC plot	217	67.06	80.81	70.16	86.02	68.99	77.02	105	30.11	43.12	34.18	45.12	32.07	45.66

Environmental Monitoring Data (April – June 2019)



UGC 02 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16 – Jan 17)		April 2019		May 2019		June 2019		Baseline (Dec 16 – Jan 17)		April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
CST	C	62.2	65.3	66.1	74.1	66.2	73.0	68.8	70.6	62.4	66.5	60.6	71.9	62.2	72.1	63.5	74.5
Kalbadevi	R	66.2	78.2	69.3	74.1	68.7	72.8	69.3	71.6	60.0	73.2	63.6	69.2	62.0	67.7	63.2	67.0
Grant Road	R	62.7	87.6	67.3	75.0	65.7	71.3	71.7	72.9	66.6	78.5	62.2	68.8	62.7	66.9	63.1	69.2
Girgaon	R	68.5	78.1	67.6	75.0	57.1	77.4	65.9	73.2	62.1	69.2	63.5	75.1	51.6	77.2	62.6	71.3
Casting yard, Wadala	I	59.1	80.3	59.4	67.1	61.6	69.2	59.3	72.0	53.7	74.5	60.1	71.2	70.6	73.4	63.0	72.1

UGC 02 Ambient Air Quality														
Station	PM 10								PM 2.5					
	Baseline (Dec 16)	April 2019		May 2019		June 2019		Baseline (Dec 16)	April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
CST	103	80.3	95.0	85.8	88.8	60.8	73.8	44.5	39.1	39.5	35.2	39.9	26.9	34.7
Kalbadevi	-	82.0	83.5	78.5	93.5	66.0	67.4	-	32.6	33.0	31.3	46.9	35.2	36.9
Grant Road	110	78.6	87.4	81.8	93.1	58.2	66.0	50.8	30.4	33.0	36.5	37.8	20.8	23.0
Girgaon	120.5	88.4	93.3	82.4	95.9	56.4	68.2	56.4	32.6	46.9	33.4	40.4	22.6	27.3
Casting yard, Wadala	81.4	84.5	84.5	84.9	89.6	68.5	72.5	35.2	39.1	39.1	33.4	45.6	36.5	37.8

Environmental Monitoring Data (April – June 2019)



UGC 03 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day															
		Baseline (Dec 16- Feb 17)		April 2019		May 2019		June 2019		Baseline (Dec 16 – Feb 17)		April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Mumbai Central	C	49.4	78.1	74.9	77.2	72.9	83.5	68.8	71.2	49.5	57.5	65.2	71.4	62.9	68.7	66.7	67.9
Mahalaxmi	C			75.2	76.5	71.2	75.2	71.7	72.6			69.6	71.9	63.4	70.0	65.3	69.0
Science museum	C	57.2	86.4	69.3	75.1	67.4	75.3	69.8	73.8	49.3	65.9	60.1	69.6	63.4	68.8	68.1	70.8
Acharya Atre Chowk	C	51.6	84.5	69.4	76.2	70.6	77.3	69.0	71.0	49.6	58.9	67.5	69.5	63.6	68.8	64.3	70.0
Worli	C	69.0	74.0	72.6	76.7	71.4	76.0	68.1	71.4	57.9	69.5	68.2	71.4	64.3	70.5	65.0	71.3
Casting yard	I			71.6	73.5	64.0	73.6	67.8	71.7			46.9	54.0	45.9	62.9	54.1	67.1
RG land		45.4	83.1	70.0	74.8	70.5	74.3	68.4	72.7	46.8	67.6	68.1	70.8	67.5	71.5	68.4	71.4

UGC 03 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	April 2019		May 2019		June 2019		Baseline (Dec 16)	April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Mumbai Central	181.2	86.2	97.5	88.4	97.8	89.7	93.67	81.4	45.7	55.8	40.8	51.8	38.7	53.8
Mahalaxmi Station	174.3	85.6	96.8	86.3	94.8	87.8	91.8	71.8	40.9	50.6	40.9	50.8	42.3	48.3
Science museum	161.3	72.8	90.5	74.45	85.9	74.9	83.1	71.4	37.2	42.7	35.9	45.3	38.3	39.8
Acharya Atre Chowk	152.1	76.5	88.7	78.9	86.3	81.3	91.3	72.2	34.7	44.3	35.6	43.8	39.4	41.5
Worli Station	173.2	77.3	90.5	87.4	95.6	77.8	93.4	81.4	30.6	46.6	38.4	43.8	38.3	44.7
Casting yard Wadala	157.9	70.6	79.8	75.8	83.7	72.62	78.3	59.5	28.5	37.8	28.4	38.6	26.4	34.9
RG Plot		82.3	92.3	83.9	99.8	84.7	94.8		35.6	45.6	36.5	47.4	37.8	41.3

Environmental Monitoring Data (April – June 2019)



UGC 04 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16 – Feb 17)		April 2019		May 2019		June 2019		Baseline (Dec 16 – Feb 17)		April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Sidhivinayak	S	64.3	78.7	69.8	73.5	66.7	73.4	67.1	72.1	54.5	73.2	60.5	69.5	56.8	70.4	55.3	65.8
Dadar	C	75.6	78.3	70.6	73.9	71.5	73.8	60.3	73.4	69.3	72.5	61.0	68.1	60.4	71.6	57.8	62.5
Shitladevi	C	76.1	80.1	71.8	73.8	72.5	74.1	66.7	72.4	70.0	76.9	66.4	68.3	66.8	69.0	56.6	67.1
Nayanagar	S	75.6	79.1	71.9	73.1	70.2	73.9	68.1	71.3	67.9	73.2	64.3	68.9	67.0	69.3	67.4	67.9
Casting yard	I	80.2	83.8	60.7	66.4	60.3	62.4	62.2	70.2	71.6	76.4	57.8	61.6	54.4	57.4	54.2	59.6

UGC 04 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	April 2019		May 2019		June 2019		Baseline (Dec 16)	April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Sidhivinayak	101.8	80.5	82.9	84.1	86.3	83.4	93.63	59	41.2	44.7	38.7	43.9	42.1	53.8
Dadar	181.2	84.6	86.5	89.3	95.1	92.83	94.3	73.5	50.2	53.9	53.6	58.6	56.7	59.4
Shitladevi	165.7	91.2	94.5	91.8	96.5	94.24	94.3	79.2	52.1	55.4	55.3	58.1	56.7	57.5
Nayanagar	173.1	88.3	91.7	89.4	93.9	91.7	96.67	74.8	50.6	54.5	51.6	56.4	56.1	57.5
Casting yard	189.4	94.7	95.3	97.4	98.3	95.93	97.5	80.2	52.8	54.1	52.6	57.1	51.2	56.4

Environmental Monitoring Data (April – June 2019)



Environmental Monitoring Data of Noise Quality UGC 05																			Zone/ standard
Station	Zone/ standa rd	Leq Day								Leq Night									
		Baseline (Dec 16)		April 2019		May 2019		June 2019		Baseline (Dec 16)		April 2019		May 2019		June 2019			
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
Dharavi	R 55	65.4	67.9	69.1	72.0	70.0	71.0	70.4	71.6	62.4	65.8	61.4	67.1	63.7	65.1	62.2	63.0	R 45	
BKC	C 65	65.7	71.5	66.6	71.0	67.0	71.7	68.2	70.9	66.5	70.0	63.4	70.9	64.8	71.3	64.0	73.7	C 55	
Vidyanagari	R 55	73.2	80.0	64.8	65.9	63.0	73.0	63.6	69.7	68.6	73.3	54.8	57.1	53.8	60.3	52.2	58.9	R 45	
Santacruz	C 65	76.9	77.0	63.1	66.9	62.7	68.1	65.4	69.6	69.9	69.9	54.1	55.9	54.3	65.5	54.1	62.2	C 55	
Steel Yard	C 65	63.3	72.6	64.2	70.6	66.7	69.4	65.9	69.4	63.3	68.2	56.9	65.5	59.9	63.7	57.8	63.0	C 55	

Environmental Monitoring Data of Ambient Air Quality UGC 05														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		April 2019		May 2019		June 2019			April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Dharavi	37.91	63.8	76.6	72.6	75.9	57.8	74.7	20.28	21.7	32.6	24.3	29.9	20.0	29.1
BKC	91.55	63.5	75.8	68.4	71.5	51.3	79.8	40.12	23.0	30.8	25.6	29.5	20.4	32.0
Vidyanagari	68.74	77.4	82.7	74.8	83.5	76.4	81.7	32.52	33.6	45.6	40.2	46.5	37.4	44.9
Santacruz	198.12	79.2	83.9	75.6	83.4	74.3	79.7	135.81	35.4	46.3	38.4	48.4	37.3	41.4
Steel Yard	171.2	62.7	73.9	67.7	77.0	55.8	71.4	63.5	22.1	32.6	23.4	32.1	17.8	29.1

Environmental Monitoring Data (April – June 2019)



Environmental Monitoring Data of Noise Quality UGC 06																	
Station	Zone/ stand ard	Leq Day															
		Baseline (Dec 16)		April 2019		May 2019		June 2019		Baseline (Dec 16)		April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Sahar	R 55	75.1	75.3	70.2	73.7	70.2	73.8	63.5	73.1	73.6	68.4	64.9	66.7	64.8	69.8	58.4	65.3
CSIA International	C 65	71.9	80.9	67.9	70.0	68.1	71.7	62.3	65.7	67.6	74.4	57.2	62.0	53.2	64.9	54.4	61.1
CSIA Domestic	R 55	78.3	78.8	67.9	69.7	69.4	70.3	64.5	70.4	74.5	73.6	51.5	63.8	63.8	65.6	55.3	59.4
Mahulgoan	C 65	70.7	73.2	59.4	69.0	60.9	71.7	62.3	65.7	68.0	72.8	50.8	60.5	53.6	64.9	54.4	61.1
JVLR	C 65			62.8	69.0	61.5	67.3	62.8	65.0			55.5	60.9	53.1	55.3	55.2	57.3

Environmental Monitoring Data of Ambient Air Quality UGC 06														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		April 2019		May 2019		June 2019			April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Sahar	256.2	71.6	81.6	73.8	83.4	53.4	76.0	109.98	27.3	35.2	27.8	32.6	17.2	32.1
CSIA International	296.61	71.2	79.0	71.9	80.3	62.6	80.6	73.74	26.9	32.1	26.0	32.6	20.7	33.9
CSIA Domestic	115.09	65.5	81.8	75.3	81.6	59.6	80.8	25.01	22.8	31.3	28.6	33.4	20.7	30.8
Mahulgoan	152	69.4	79.4	70.7	82.9	55.0	75.8	51	25.6	31.3	25.6	34.3	18.1	28.6
JVLR		67.7	79.9	66.4	85.1	56.7	80.3		20.6	31.3	23.4	36.5	17.7	30.4

Environmental Monitoring Data (April – June 2019)



Environmental Monitoring Data of Noise Quality UGC 07																		
Station	Zone/ stand ard	Leq Day								Leq Night								Zone/ stand ard
		Baseline (Dec 16)		April 2019		May 2019		June 2019		Baseline (Dec 16)		April 2019		May 2019		June 2019		
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
MIDC	I 75	71.6	74.1	68.4	70.9	68.3	70.2	67.0	70.4	60.5	63.6	64.3	67.3	63.6	67.4	63.6	64.8	I 65
MAROL NAKA	C 65	71.9	76.9	69.6	73.8	67.6	71.6	70.4	72.9	61.6	62.4	65.4	67.4	64.6	68.3	66.2	68.9	C55
SEEPZ	R 55	71.3	74.2	70.5	72.6	69.4	72.8	68.5	70.4	62.2	63.3	66.4	68.5	65.8	69.6	64.7	68.1	R45
PALI GROUND	C 65	68.2	72.7	63.9	67.0	66.6	68.0	69.0	70.5	58.9	60.6	59.8	63.9	63.2	66.8	67.0	67.3	C55
CASTING YARD	C 65	69.1	71.4	67.8	72.0	69.3	71.1	67.3	69.6	58.3	67.1	64.1	68.6	65.0	66.7	64.0	64.6	C55
Ramp Area	C 65			65.3	68.6	65.8	69.0	66.0	70.7			61.9	64.7	60.6	65.8	64.3	67.2	C55

Environmental Monitoring Data of Ambient Air Quality UGC 07														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		April 2019		May 2019		June 2019			April 2019		May 2019		June 2019	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
MIDC	185.0	89.2	91.2	89.5	94.1	93.2	96.6	86.0	47.5	50.3	47.6	53.5	51.2	52.3
Marol Naka	164.0	93.9	96.8	90.3	95.8	89.4	92.38	70.0	52.3	54.7	52.1	55.6	50.9	53.8
Pali Ground	185.0	75.6	78.6	74.2	77.1	74.02	76.3	71.0	40.9	43.5	38.5	40.6	38.8	39.7
SEEPZ	170.5	85.2	88.3	88.5	91.5	89.4	92.38	89.5	51.8	55.6	49.6	54.6	53.7	57.6
Casting Yard	158	96.3	98.5	93.8	98.6	93.62	97.8	69	52.8	58.4	51.2	58.9	52.5	57.7
Ramp Area	92.6	67.5	71.6	70.9	74.2	69.4	71.63	58.2	29.4	33.2	25.1	27.2	25.4	28.8

[NAAQS Notification dated 18th November, 2009]

S. No.	Pollutants	Time Weighted Average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and other Areas	Ecologically Sensitive Area (notified by Central Government)	
1	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	Annual*	50	20	1. Improved West and Gaeke 2. Ultraviolet Fluorescence
		24 Hours**	80	80	
2	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	Annual*	40	30	1. Modified Jacob & Hochheiser (Na-Arsenite) 2. Chemiluminescence
		24 Hours**	80	80	
3	Particulate Matter (Size $< 10\mu\text{m}$) or PM_{10} , $\mu\text{g}/\text{m}^3$	Annual*	60	60	1. Gravimetric 2. TEOM 3. Beta attenuation
		24 Hours**	100	100	
4	Particulate Matter (Size $< 2.5\mu\text{m}$) or $\text{PM}_{2.5}$, $\mu\text{g}/\text{m}^3$	Annual*	40	40	1. Gravimetric 2. TEOM 3. Beta attenuation
		24 Hours**	60	60	
5	Ozone (O_3), $\mu\text{g}/\text{m}^3$	8 hours**	100	100	1. UV photometric 2. Chemiluminescence 3. Chemical Method
		1 hours**	180	180	
6	Lead (Pb), $\mu\text{g}/\text{m}^3$	Annual*	0.50	0.50	1. AAS/ICP Method after sampling using EPM 2000 or equivalent filter paper 2. ED-XRF using Teflon filter
		24 Hour**	1.0	1.0	
7	Carbon Monoxide (CO), mg/m^3	8 Hours**	02	02	Non dispersive Infra Red (NDIR) Spectroscopy
		1 Hour**	04	04	
8	Ammonia (NH_3), $\mu\text{g}/\text{m}^3$	Annual*	100	100	1. Chemiluminescence 2. Indophenol blue method
		24 Hour**	400	400	
9	Benzene (C_6H_6), $\mu\text{g}/\text{m}^3$	Annual*	05	05	1. Gas chromatography based continuous analyzer 2. Adsorption and Desorption followed by GC analysis
10	Benzo(a)Pyrene (BaP)-particulate phase only, ng/m^3	Annual*	01	01	Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m^3	Annual*	06	06	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m^3	Annual*	20	20	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

UGC 01 wastewater Monitoring (April 2019)								
Sr. No.	Parameters	Unit	MIDC sedimentation tank - inlet 30/4/2019	MIDC sedimentation tank –outlet 30/4/2019	Hutatma Chowk Siddharth college weep hole 30/4/2019	Hutatma Chowk City bank weep hole 30/4/2019	Churchgate Ram Mahal 30/4/2019	
1	pH		11.54	8.98	-	-	-	
2	Suspended Solids	mg/l	406	32	BDL < 1	BDL < 1	BDL < 1	
3	Total dissolved solids	mg/l	1036	1008	1034	536	5778	
4	COD	mg/l	1356	64	-	-	-	
5	BOD (3 days)	mg/l	444	12	-	-	-	
6	Oil & Grease	mg/l	BDL < 0.1	< 0.1	-	-	-	

UGC 01 wastewater Monitoring (April 2019)								
Sr. No.	Parameters	Unit	Cuffe Parade tunnel water treatment plant – inlet 30/4/2019	Cuffe Parade tunnel water treatment plant –outlet 30/4/2019				
1	pH		9.29	8.57				
2	Copper	mg/l	< 0.01	< 0.01				
3	Fluoride	mg/l	0.98	0.204				
4	Total iron	mg/l	5.72	2.9				
5	Manganese	mg/l	0.102	< 0.02				
6	Total Suspended Solids	mg/l	512	20				
7	Hex Chromium	mg/l	BDL (< 0.02)	BDL (< 0.02)				
8	Oil & Grease	mg/l	BDL (< 0.1)	BDL (< 0.1)				
9	Total Phenol	mg/l	BDL(<0.001)	BDL(<0.001)				
10	Selenium	mg/l	BDL(<0.01)	BDL(<0.01)				
11	Zinc	mg/l	0.688	BDL (< 0.05)				
12	Cadmium	mg/l	BDL (< 0.3)	BDL (< 0.3)				
13	Cyanide	mg/l	BDL (< 0.01)	BDL (< 0.01)				

14	Lead	mg/l	BDL (< 0.097)	0.070			
15	Mercury	mg/l	BDL(<0.001)	BDL(<0.001)			
16	Nickel	mg/l	0.135	BDL (< 0.05)			
17	Ammonical Nitrogen	mg/l	BDL (< 0.1)	BDL (< 0.1)			
18	Total Arsenic	mg/l	BDL(<0.001)	BDL(<0.001)			
19	Total Chromium	mg/l	BDL (< 0.02)	BDL (< 0.02)			
20	Vanadium	mg/l	BDL < 1	BDL < 1			
21	BOD	mg/l	654	12			

UGC 02 wastewater Monitoring (April 2019)							
Sr. No.	Parameters	Unit	CST sedimentation tank 1 – inlet	CST sedimentation tank 1 – outlet	CST sedimentation tank 2 – outlet	Wadala sedimentation tank – inlet	Wadala sedimentation tank – outlet
			5/4/2019	5/4/2019	19/4/2019	24/4/2019	24/4/2019
1	Colour	Hazen	< 5	< 5	9.0	7.0	14.0
2	pH		11.1	8.08	7.76	11.4	8.3
3	Total Dissolved Solids	mg/l	1872.0	1196	1980	1762	1669
4	Total Suspended solids	mg/l	9230.0	< 5	92	98	852
5	Total Hardness	mg/l	2318.0	304.0	532.0	589.0	1045.0
6	COD	mg/l	133.0	33	93	210	485
7	BOD	mg/l	39.0	8	28	20	178
8	Oil & Grease	mg/l	< 0.1	< 0.1	BDL	4	3

UGC 02 wastewater Monitoring (May, June 2019)								
Sr. No.	Parameters	Unit	Wadala sedimentation tank – inlet	Wadala sedimentation tank –outlet	CST sedimentation tank 1 st – inlet	CST sedimentation tank 1 st – outlet	CST sedimentation tank – inlet	CST sedimentation tank – outlet
			18/5/2019	18/5/2019	18/5/2019	18/5/2019	19/6/2019	19/6/2019
1	Colour	Hazen	5.3	12.1	15.3	9.2	< 5	< 5
2	pH	-	11.38	8.32	7.96	7.42	9.0	7.9
3	Total Dissolved Solids	mg/l	2864	1624	34296	1740	40820	1980
4	Total Suspended solids	mg/l	2200	97	2408	< 5	1270	7
5	Total Hardness	mg/l	2496.0	134.4	5568.0	499.2	4032.0	576.0
6	COD	mg/l	178	48	440	< 10	288	25
7	BOD	mg/l	83	13	188	< 5	103	< 5
8	Oil & Grease	mg/l	2	< 0.2	6	< 0.2	< 1.0	< 1.0

UGC 02 wastewater Monitoring (May, June 2019)								
Sr. No.	Parameters	Unit	Wadala sedimentation tank – inlet	Wadala sedimentation tank –outlet				
			19/6/2019	19/6/2019				
1	Colour	Hazen	< 5	12.0				
2	pH	-	11.9	8.1				
3	Total Dissolved Solids	mg/l	3840	990				
4	Total Suspended solids	mg/l	8124	92				
5	Total Hardness	mg/l	1382.4	576.0				
6	COD	mg/l	490	228				
7	BOD	mg/l	182	33				

8	Oil & Grease	mg/l	2	1				
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UGC 03 wastewater Monitoring (April 2019)						
Sr. No.	Parameters	Unit	RG Land Sedimentation tank - inlet	RG Land Sedimentation tank - outlet	Science Centre sedimentation tank – inlet	Science Centre sedimentation tank – outlet
			9/4/2019	9/4/2019	9/4/2019	9/4/2019
1	Colour	Hazen	< 2	< 5	< 2	< 2
2	Odour		Agreeable	Agreeable	Pungent	Agreeable
3	pH		12.54	8.56	9.69	8.13
4	Total suspended solids	mg/l	39	34	25	10
5	Total dissolved solid	mg/l	4720	1560	21182	964
6	COD	mg/l	315	241	60	28
7	BOD (3days)	mg/l	82	29	26	11
8	Oil & Grease	mg/l	3	3	3	3
9	Sulphate	mg/l	120	46	70	54
10	Chloride	mg/l	157	122	5623	369
11	Ammonical Nitrogen	mg/l	0.33	0.21	0.31	0.22
12	Chromium hexavalent	mg/l	0.31	0.22	0.23	0.12
13	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
14	Dissolved Phosphates	mg/l	0.21	0.31	0.13	0.10
15	Fluoride	mg/l	0.4	0.3	0.32	0.24
16	Free Ammonia	mg/l	1.2	0.9	2.4	1.2
17	Nitrate	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
18	Phenolic compound	mg/l	< 0.001	< 0.001	< 0.001	< 0.001

19	Residual free chlorine	mg/l	< 0.2	< 0.2	< 0.2	< 0.2
20	Sulphide	mg/l	< 0.1	< 0.1	0.6	0.3
21	Total Chromium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
22	Total Kjeldahal Nitrogen	mg/l	12	10	12	8
23	Zinc	mg/l	0.34	0.10	6.3	3.5
24	Arsenic	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	Cadmium	mg/l	< 0.05	< 0.05	< 0.001	< 0.05
26	Copper	mg/l	0.6	0.2	1.2	0.8
27	Iron	mg/l	0.20	0.14	0.14	0.10
28	Lead	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
29	Manganese	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
30	Mercury	mg/l	< 0.005	< 0.005	< 0.001	< 0.001
31	Nickel	mg/l	< 0.2	< 0.2	1.2	0.9
32	Selenium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01

UGC 03 wastewater Monitoring (April, May 2019)						
Sr. No.	Parameters	Unit	Casting yard Sedimentation tank – inlet	Casting yard Sedimentation tank – outlet	RG Land Sedimentation tank - inlet	RG Land Sedimentation tank – outlet
			23/4/2019	23/4/2019	7/5/2019	7/5/2019
1	Colour	Hazen	1	< 1	2	2
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable
3	pH		12.37	8.00	12.20	8.92
4	Total suspended solids	mg/l	25	3	7	28
5	Total dissolved solid	mg/l	4080	1475	4945	1829
6	COD	mg/l	188	238	477	228
7	BOD (3days)	mg/l	56	30	152	27
8	Oil & Grease	mg/l	5	3	5	5
9	Sulphate	mg/l	218	112	395	268

Environmental Monitoring Data (April – June 2019)



10	Chloride	mg/l	232	160	167	104
11	Ammonical Nitrogen	mg/l	< 0.5	< 0.5	1.1	0.8
12	Chromium hexavalent	mg/l	0.2	< 0.01	0.24	0.12
13	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
14	Dissolved Phosphates	mg/l	0.31	0.12	0.31	0.18
15	Fluoride	mg/l	0.45	0.10	1.6	0.2
16	Free Ammonia	mg/l	0.2	< 0.1	2.3	0.6
17	Nitrate	mg/l	0.2	< 0.1	0.6	< .01
18	Phenolic compound	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
19	Residual free chlorine	mg/l	5	< 0.2	1.0	
20	Sulphide	mg/l	< 0.1	< 0.1	2	0.5
21	Total Chromium	mg/l	1.2	0.2	< 0.05	< 0.05
22	Total Kjeldahal Nitrogen	mg/l	17	10	5.1	10
23	Zinc	mg/l	2.2	< 0.1	4.9	2.5
24	Arsenic	mg/l	< 0.01	< 0.01	< 0.01	<0.01
25	Cadmium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
26	Copper	mg/l	0.58	0.32	3.6	1.2
27	Iron	mg/l	2.2	0.81	2.7	0.9
28	Lead	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
29	Manganese	mg/l	0.6	< 0.1	0.6	0.3
30	Mercury	mg/l	< 0.005	< 0.005	< 0.005	< 0.005
31	Nickel	mg/l	0.8	0.2	0.8	0.2
32	Selenium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01

UGC 03 wastewater Monitoring (June 2019)						
Sr. No.	Parameters	Unit	Science Centre Sedimentation tank – inlet	Science Centre Sedimentation tank – outlet	Worli Sedimentation tank - inlet	Worli Sedimentation tank – outlet
			18/6/2019	18/6/2019	18/6/2019	18/6/2019
1	Colour	Hazen	0.6	0.8	< 1	< 1
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable
3	pH		7.94	7.90	8.51	8.55
4	Total suspended solids	mg/l	108	130	10	36
5	Total dissolved solid	mg/l	4982	1701	1592	1304
6	COD	mg/l	281	250	32	24
7	BOD (3days)	mg/l	133	123	9	7
8	Oil & Grease	mg/l	4	3	5	4
9	Sulphate	mg/l	262	189	186	182
10	Chloride	mg/l	583	551	419	384
11	Ammonical Nitrogen	mg/l	0.32	0.14	0.31	0.20
12	Chromium hexavalent	mg/l	0.23	0.12	0.23	0.1
13	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
14	Dissolved Phosphates	mg/l	0.6	0.6	1.2	0.9
15	Fluoride	mg/l	1.2	1.0	0.12	0.11
16	Free Ammonia	mg/l	0.2	0.2	0.3	0.26
17	Nitrate	mg/l	0.12	0.11	< 0.1	< 0.1
18	Phenolic compound	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
19	Residual free chlorine	mg/l	< 0.2	< 0.2	< 0.2	< 0.2
20	Sulphide	mg/l	2	2	1.4	1.5
21	Total Chromium	mg/l	2.3	1.8	< 0.05	< 0.05
22	Total Kjeldahal Nitrogen	mg/l	5%	4%	2.5%	1.3%
23	Zinc	mg/l	1.8	2.6	0.4	0.5
24	Arsenic	mg/l	< 0.01	< 0.01	< 0.01	< 0.01

Environmental Monitoring Data (April – June 2019)



25	Cadmium	mg/l	2	1.2	1	1.2
26	Copper	mg/l	1.2	1.1	1.2	0.6
27	Iron	mg/l	0.31	0.16	0.21	0.20
28	Lead	mg/l	1	1	< 1	< 1
29	Manganese	mg/l	0.5	0.2	0.6	0.5
30	Mercury	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
31	Nickel	mg/l	0.21	0.24	0.4	0.3
32	Selenium	mg/l	< 0.1	< 0.1	< 0.1	< 0.1

Sr. No.	Parameters	Unit	UGC 04 wastewater Monitoring (March, April, May 2019)				
			Shitladevi Sedimentation tank – Outlet	Dadar Tunnel water outlet	Sidhivinayak Sewage water outlet	Dadar Sedimentation outlet	Nayanagar Tunnel Outlet
			22/3/2019	6/3/2019	20/4/2019	3/5/2019	25/4/2019
1	Colour	Hazen	< 2	< 5	< 2	< 2	4
2	Odour		Agreeable	Agreeable	Agreeable	Unobjectionable	Agreeable
3	pH		7.89	6.80	7.88	7.81	8.46
4	Conductivity	mS/cm	0.755	0.651	1.265	2.10	2.364
5	Turbidity	NTU	< 1	< 1	2	4.1	1
6	Total suspended solids	mg/l	4	19	12	32	4
7	Total dissolved solids	mg/l	510	426	839	1522	1583
8	Chemical Oxygen Demand	mg/l	130	97	245	146	238
9	Biochemical Oxygen Demand	mg/l	22	18	28	22	29
10	Oil & Grease	mg/l	3	5	5	4	3
11	Sulphate	mg/l	10	69	193	181	226
12	Chloride	mg/l	119	210	170	265	250
13	Alkalinity	mg/l	7.9	38.4	75	109	182
14	Calcium	mg/l	27	47	54	98	137
15	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

16	Detergent	mg/l	< 0.1	< 0.1	< 0.1	0.3	< 0.1
17	Dissolved Oxygen	mg/l	5	7.8	5.2	5.1	1.8
18	Fluoride	mg/l	0.1	1.3	0.6	0.4	0.3
19	Hardness (Total)	mg/l	99	249	105	789	125
20	Nitrate	mg/l	< 0.1	< 0.1	0.2	0.3	0.2
21	Phenolic compounds	mg/l	< 0.001	< 0.001	0.018	0.036	< 0.001
22	Phosphate as PO ₄	mg/l	0.2	0.1	0.6	1.8	0.28
23	Salinity	ppt	0.21	0.17	6.25	0.47	2.4
24	Total Chromium	mg/l	< 0.01	< 0.01	0.05	0.12	0.6
25	Zinc	mg/l	< 0.1	< 0.1	1.2	1.79	1.2
26	Metal – Arsenic	mg/l	< .01	< 0.01	< 0.01	< 0.01	< 0.01
27	Metal – Berium	mg/l	< 0.1	< 0.01	< 0.1	< 0.1	< 0.1
28	Metal – Cadmium	mg/l	< 0.001	< 0.001	< 0.05	0.61	0.2
29	Metal – Copper	mg/l	< 0.1	< 0.1	0.81	1.24	0.8
30	Metal – Iron	mg/l	0.2	0.5	1.2	0.52	1.4
31	Metal – Lead	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
32	Metal -Magnesium	mg/l	8	5	12	10.8	15
33	Metal – Manganese	mg/l	< 0.1	0.6	0.7	1.5	0.8
34	Metal – Mercury	mg/l	< 0.001	< 0.001	< 0.005	0.021	< 0.005
35	Metal – Nickel	mg/l	< 0.2	< 0.2	1.6	0.32	0.6
36	Pesticide	mg/l	ND	ND	ND	BDL	BDL
37	PCBs	mg/l	ND	ND	ND	ND	BDL
38	Semi Volatile Carbon	mg/l	ND	ND	ND	6.5	0.2
39	Total Nitrogen	mg/l	ND	ND	10	10	18
40	Total Petroleum Hydrocarbon	mg/l	ND	ND	ND	ND	BDL
41	Volatile organic Carbon	mg/l	ND	18	ND	2.4	4

Sr. No.	Parameters	Unit	UGC 04 wastewater Monitoring (June 2019)				
			Nayanagar Sedimentation tank – Outlet	Sidhivinayak Sedimentation – inlet	Sidhivinayak Sedimentation – outlet	Dadar Sedimentation - inlet	Dadar Sedimentation tank – outlet
			19/6/2019	20/6/2019	20/6/2019	20/6/2019	20/6/2019
1	Colour	Hazen	1	1	1	1	1
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH		8.6	7.99	8.69	7.50	7.52
4	Conductivity	mS/cm	2.495	8.5	2.06	7.8	1.9
5	Turbidity	NTU	2	30	6.8	62	5.1
6	Total suspended solids	mg/l	72	170	34	1028	59
7	Total dissolved solids	mg/l	1783	10312	1642	12371	1937
8	Chemical Oxygen Demand	mg/l	229	768	216	506	209
9	Biochemical Oxygen Demand	mg/l	27	214	28	164	25
10	Oil & Grease	mg/l	4	6	5	5	6
11	Sulphate	mg/l	248	1321	232	1028	176
12	Chloride	mg/l	258	9847	327	10417	289
13	Alkalinity	mg/l	144	214	96	391	115
14	Calcium	mg/l	30	955	123	1076	106
15	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
16	Detergent	mg/l	< 0.1	0.42	0.32	0.36	0.39
17	Dissolved Oxygen	mg/l	3.8	3.1	3.4	2.5	3.7
18	Fluoride	mg/l	0.12	1.8	1.6	1.6	1.2
19	Hardness (Total)	mg/l	198	3077	949	5789	887
20	Nitrate	mg/l	0.9	0.9	0.8	1.2	0.9
21	Phenolic compounds	mg/l	< 0.01	0.051	0.046	0.048	0.037
22	Phosphate as PO4	mg/l	0.32	3.1	2.7	3	2.3
23	Salinity	ppt	2.8	17.72	2.1	43.36	3.8
24	Total Chromium	mg/l	0.9	3.6	0.72	3.1	0.52

25	Zinc	mg/l	1.8	3.2	2.1	3.6	1.9
26	Metal – Arsenic	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
27	Metal – Berium	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
28	Metal – Cadmium	mg/l	0.22	2.8	1.3	3.6	0.8
29	Metal – Copper	mg/l	0.6	30.8	2.5	26.5	1.29
30	Metal – Iron	mg/l	< 0.5	1.8	2.0	1.2	1.8
31	Metal – Lead	mg/l	< 0.01	1.2	< 0.01	0.8	< 0.01
32	Metal -Magnesium	mg/l	21	491	11.4	1397	21.3
33	Metal – Manganese	mg/l	1.8	3.1	1.8	2.6	1.3
34	Metal – Mercury	mg/l	< 0.005	0.037	< 0.01	0.031	0.01
35	Metal – Nickel	mg/l	0.9	1.2	0.8	0.8	3.0
36	Pesticide	mg/l	BDL	BDL	BDL	BDL	BDL
37	PCBs	mg/l	BDL	BDL	BDL	BDL	BDL
38	Semi Volatile Carbon	mg/l	0.3	104	8.4	98	6.5
39	Total Nitrogen	mg/l	24	37	7	27	13
40	Total Petroleum Hydrocarbon	mg/l	BDL	BDL	BDL	BDL	BDL
41	Volatile organic Carbon	mg/l	9	47	4.8	41	3.9

UGC 05 wastewater Monitoring (April 2019)						
Sr. No.	Parameters	Unit	Dharavi station	BKC Station	Vidyanagari Station	Santacruz station
			9/4/2019	9/4/2019	9/4/2019	9/4/2019
1	Colour	Hazen	< 5	< 5	< 5	< 5
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable
3	pH		7.23	7.02	8.75	8.77
4	Total suspended solids	mg/l	235	292	128	171
5	COD	mg/l	312	892	933	183
6	BOD (3days)	mg/l	117	335	366	61
7	Sulphate	mg/l	< 0.2	< 0.2	< 0.2	< 0.2
8	Fluoride	mg/l	1	1	0.8	1.4
9	Total Kjeldahl Nitrogen	mg/l	3.2	0.6	2.3	6.1
	Ammonical Nitrogen	mg/l	1.2	< 0.4	1.4	5.1
10	Phosphate	mg/l	< 3	< 3	< 3	< 3
11	Phenolic compound	mg/l	< 0.5	< 0.5	< 0.5	< 0.5
12	Oil & Grease	mg/l	2	3	3	1
13	Hexavalent Chromium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
14	Chromium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
15	Free Ammonia	mg/l	< 0.1	< 0.1	0.9	4.8
16	Zinc	mg/l	0.07	< 0.05	< 0.05	< 0.05
17	Arsenic	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
18	Cadmium	mg/l	0.02	0.07	0.04	< 0.003
19	Copper	mg/l	< 0.04	< 0.04	< 0.04	< 0.04
20	Iron	mg/l	2.7	1.03	0.31	3.5
21	Lead	mg/l	0.15	0.4	0.3	0.2
22	Manganese	mg/l	0.82	0.96	0.05	0.12

23	Mercury	mg/l	< 0.001	< 0.001	< 0.001	< 0.001
24	Nickel	mg/l	0.13	0.42	0.2	0.1
25	Selenium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
26	Cyanide	mg/l	< 0.005	< 0.005	< 0.005	< 0.005
UGC 05 wastewater Monitoring (June 2019)						
Sr. No.	Parameters	Unit	Dharavi Sedimentation tank			
			15/6/2019			
1	Colour	Hazen	< 5			
2	Odour		Agreeable			
3	pH		7.6			
4	Total suspended solids	mg/l	3.6			
5	COD	mg/l	321			
6	BOD (3days)	mg/l	112			
7	Sulphide	mg/l	< 0.2			
8	Fluoride	mg/l	1.2			
9	Total Kjeldahl Nitrogen	mg/l	4.1			
10	Ammonical Nitrogen	mg/l	1.4			
10	Phosphate	mg/l	< 3			
11	Phenolic compound	mg/l	< 0.5			
12	Oil & Grease	mg/l	< 1			
13	Hexavalent Chromium	mg/l	0.05			
14	Chromium	mg/l	0.05			
15	Iron	mg/l	17.94			
16	Zinc	mg/l	0.21			
17	Copper	mg/l	< 0.04			
18	Cadmium	mg/l	0.04			
19	Lead	mg/l	0.194			
20	Arsenic	mg/l	< 0.01			
21	Manganese	mg/l	2.66			

Environmental Monitoring Data (April – June 2019)



22	Mercury	mg/l	< 0.01		
23	Selenium	mg/l	0.03		
24	Nickel	mg/l	0.23		
25	Cyanide	mg/l	< 0.05		
26	Free Ammonia	mg/l	3.1		

UGC 07 wastewater Monitoring (June 2019)					
Sr. No.	Parameters	Unit	Ramp Area - Sedimentation Tank – outlet	Pali ground – Sedimentation tank – outlet	
			15/6/2019	17/6/2019	
1	pH		11.85	8.7	
2	Conductivity	mS/cm	1.045	8.78	
3	Turbidity	NTU	< 1	15	
4	Total Suspended Solids	mg/l	4	246	
5	Total Dissolved Solids	mg/l	696	1580	
6	Chemical Oxygen Demand	mg/l	77	24	
7	Bio chemical Oxygen Demand	mg/l	19	6	
8	Oil & Grease	mg/l	5	4	
9	Sulphate	mg/l	102	216	
10	Chloride	mg/l	118	140	
11	Detergent	mg/l	< 0.1	< 0.1	
12	Hardness (Total)	mg/l	117	70	
13	Total Kjeldahal Nitrogen	mg/l	1.2%	3%	

Environmental Monitoring Data (April - June 2019)

Muck TCLP Monitoring UGC – 01 (April 2019)						
Sr.No.	Parameter	Unit	Cuffe Parade TBM 1 Muck	Cuffe Parade TBM – 2	Cuffe Parade TBM – 2	
			28/3/2019	28/3/2019	26/4/2019	
1.	pH	-	10.68	10.92	9.84	
2.	Conductivity	µmhos/cm	1830	2098	1820	
3.	Moisture content	%	20.32	41.77	29.94	
4.	Alkalinity	mg/l	1678	1980	1460	
5.	Texture	-	Clay loam	Clay loam	Clay loam	
6.	Specific gravity	-	2.6	2.8	2.7	
7.	Manganese	mg/l	1.01	0.780	9.24	
8.	Mercury	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	
9.	Copper as Cu	mg/l	1.355	0.806	0.634	
10.	Total Chromium as Cr	mg/l	0.325	BDL (< 0.02)	BDL (< 1)	
11.	Nickel as Ni	mg/l	3.225	1.562	1.027	
12.	Cadmium as Cd	mg/l	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	
13.	Lead as Pb	mg/l	0.420	0.327	1.202	
14.	Zinc as Zn	mg/l	10.701	10.005	3.45	
15.	Iron as Fe	mg/l	30.281	42.008	140.43	
16.	Arsenic	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	
17.	Cobalt	mg/l	0.201	BDL (< 0.5)	1.930	
18.	Aluminium	mg/l	7	6	5.78	
19.	Silver	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	
20.	Heavy metals	mg/l	0.745	0.327	1.202	

Environmental Monitoring Data (April - June 2019)

Muck TCLP Monitoring UGC – 01 (January, February 2019)						
Sr.No.	Parameter	Unit	Churchgate excavation area Soil	Vidhan Bhavan Excavation area Soil	Hutatma Chawk Excavation area Soil	Cuffe Parade LS excavation area Soil
			26/4/2019	26/4/2019	26/4/2019	26/4/2019
1.	pH		8.72	8.43	9.15	8.85
2.	Organic matter	%	0.908	0.978	0.92	0.876
3.	Chloride	mg/kg	254	302	136	366
4.	Potassium	mg/kg	96	12	80	140
5.	Nitrogen	mg/kg	89.12	72.44	79.6	82.12
6.	Total Phosphorus	mg/kg	38.16	22.6	31.2	20.86
7.	Sodium as Na	mg/kg	380	376	364	496
8.	Oil & Grease	mg/L	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)
9.	Manganese	mg/L	6.257	1.18	3.68	4.514
10.	Mercury	mg/L	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)
11.	Copper as Cu	mg/l	0.235	0.139	0.179	1.104
12.	Total Chromium as Cr	mg/l	BDL (< 1)	BDL (< 1)	BDL (< 1)	BDL (< 1)
13.	Nickel as Ni	mg/l	0.858	0.812	0.797	0.704
14.	Cadmium as Cd	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)
15.	Lead as Pb	mg/l	1.374	1.423	1.054	1.104
16.	Zinc as Zn	mg/l	2.76	8.12	8.20	32.3
17.	Iron as Fe	mg/l	26.25	17.12	10.31	24.61
18.	Arsenic	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)
19.	Cobalt	mg/l	1.799	1.832	1.636	1.407
20.	Aluminium	mg/l	9.62	8.16	6.84	6.98
21.	Silver	mg/l	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)

Environmental Monitoring Data (April - June 2019)

Muck TCLP Monitoring UGC – 02 (April 2019)							
Sr.No.	Parameter	Unit	CST station Soil	Kalbadevi station soil	Girgaon station soil	Grant road Soil	Wadala CY soil
			20/4/2019	23/4/2019	23/4/2019	24/4/2019	24/4/2019
1.	pH		8.42	8.39	10.02	8.91	7.91
2.	Electrical conductivity	mmhos/cm	0.78	0.14	1.24	1.35	5.51
3.	Moisture content	%	17.50	14.00	20.40	34.70	2.00
4.	Sulphate	Mg/kg	172.60	117.40	423.00	394.00	950.60
5.	Chloride	mg/kg	493.0	896.10	540.80	693.20	4332.50
6.	Sodium	mg/kg	1437.80	2442.50	3761.80	4615.10	5245.50
7.	Calcium	mg/kg	11936.0	12218.40	15602.40	9594.80	95953.10
8.	Magnesium	mg/kg	1302.10	888.60	1337.30	2657.00	1322.70
9.	Lead	mg/kg	21.34	32.72	28.00	20.09	98.36
10.	Cadmium	mg/kg	1.83	2.40	1.99	1.56	1.65
11.	Chromium	Mg/kg	44.80	30.00	40.00	77.90	62.00
12.	Manganese	mg/kg	935.80	588.60	827.00	2770.00	754.90
13.	Nickel	mg/kg	44.60	36.70	39.20	57.65	48.17
14.	Cobalt	mg/kg	32.38	26.80	29.00	0.00	0.00
15.	Zinc	mg/kg	71.20	45.00	57.50	78.00	338.90
16.	Iron	mg/kg	19430.00	5909.00	12950.00	24780.00	18520.00
17.	Copper	mg/kg	40.06	19.80	34.10	45.36	80.44
18.	Aluminium	mg/kg	9237.00	3709.00	10040.00	15740.00	12420.00
19.	Silver	mg/kg	2.63	8.20	2.72	3.00	4.60
20.	Oil and Grease	%	0.06	0.07	0.008	0.008	0.09
21.	Silica	mg/kg	76.60	24.50	94.50	26.60	53.60

Environmental Monitoring Data (April - June 2019)

Muck TCLP Monitoring UGC – 03 (April 2019)						
Sr.No.	Parameter	Unit	Wohla	Science Centre	Worli	Mumbai
			Station box 15/4/2019	Chowk station 15/4/2019	station 15/4/2019	Central station 15/4/2019
1.	Beryllium as Be	mg/l TCLP	ND	ND	ND	< 0.01
2.	Chromium hexavalent as Cr(VI)	mg/l TCLP	0.01	0.01	< 0.01	< 0.01
3.	Chromium as Cr	mg/l TCLP	1.01	0.01	< 0.01	ND
4.	Thallium as Ti	mg/l TCLP	ND	ND	ND	ND
5.	Zinc as Zn	mg/l TCLP	50.5	52.8	65.2	58.7
6.	Metal Antimony Sb	mg/l TCLP	ND	ND	ND	ND
7.	Metal Arsenic as As	mg/l TCLP	< 0.01	< 0.01	< 0.01	< 0.01
8.	Metal Barium as Ba	mg/l TCLP	< 0.1	< 0.1	< 0.1	< 0.1
9.	Metal Cadmium as Cd	mg/l TCLP	< 0.01	< 0.01	< 0.01	< 0.01
10.	Metal Cobalt as Co	mg/l TCLP	0.2	0.5	0.2	0.7
11.	Metal Copper as Cu	mg/l TCLP	0.3	10.8	8.5	14.8
12.	Metal Lead as Pb	mg/l TCLP	< 0.01	< 0.01	< 0.01	< 0.01
13.	Metal Manganese as Mn	mg/l TCLP	2.8	2.2	4.6	6.1
14.	Metal Mercury as Hg	mg/l TCLP	< 0.001	< 0.001	< 0.001	< 0.001
15.	Metal Molybdenum as Mo	mg/l TCLP	ND	ND	ND	ND
16.	Metal Nickel as Ni	mg/l TCLP	10.9	10.2	15.2	13.5
17.	Metal Selenium as Se	mg/l TCLP	< 0.1	< 0.1	< 0.1	< 0.1
18.	Metal Silver as Ag	mg/l TCLP	ND	ND	ND	ND
19.	Metal Vanadium as V	mg/l TCLP	ND	ND	ND	ND

Environmental Monitoring Data (April - June 2019)

Soil Analysis UGC – 05 (April 2019)						
Sr.No.	Parameter	Unit	Dharavi metro station	BKC metro station	Vidyanagari metro station	Santacruz metro station
			9/4/2019	9/4/2019	9/4/2019	9/4/2019
1.	pH		8.8	9.4	9.2	11.3
2.	Electrical conductivity	mmhos/cm	2.36	5.10	0.9	1.5
3.	Sulphate (SO ₄)	mg/l	12.76	32.86	7.62	25.93
4.	Chloride (Cl)	mg/l	47.04	81.54	9.91	6.86
5.	Sodium (Na)	mg/l	109.14	612.49	182.66	101.58
6.	Calcium (Ca)	mg/l	229.43	439.14	392.44	551.10
7.	Magnesium (Mg)	mg/l	40.84	67.75	45.57	13.78
8.	Iron (Fe)	mg/l	0.14	0.05	0.10	0.09
9.	Lead (Pb)	mg/l	0.04	0.09	0.09	0.23
10.	Manganese (Mn)	mg/l	22.91	8.3	4.71	5.04
11.	Nickel (Ni)	mg/l	70.99	0.40	0.09	0.14
12.	Barium (Ba)	mg/l	BDL	BDL	BDL	BDL
13.	Zinc (Zn)	mg/l	0.27	0.01	0.10	0.02
14.	Copper (Cu)	mg/l	0.08	BDL	BDL	0.03
15.	Cadmium (Cd)	mg/l	BDL	0.03	BDL	0.04
16.	Chromium (Cr)	mg/l	BDL	BDL	BDL	BDL
17.	Arsenic (Ar)	mg/l	BDL	BDL	BDL	BDL
18.	Mercury (Hg)	mg/l	BDL	BDL	BDL	BDL
19.	Aluminium (Al)	mg/l	1.06	0.31	0.91	BDL
20.	Copper (Cu)	mg/l	0.08	BDL	BDL	0.03
21.	Silica	mg/l	34.56	44.74	20.2	61.4
22.	Oil & Grease	%	0.11	0.12	0.04	0.02
23.	Moisture content	%	19.7	16.1	24.4	11.5

Environmental Monitoring Data (April - June 2019)

Soil Analysis UGC – 06 (April 2019)

Sr.No.	Parameter	Unit	Sahar Road station sedimentation	International Airport sedimentation	Domestic Airport Sedimentation
			9/4/2019	9/4/2019	9/4/2019
1	pH		8.7	10.5	8.5
2	Electrical conductivity	mmhos/cm	0.51	1.22	1.35
3	Sulphate (SO ₄)	mg/l	4.80	88.03	13.30
4	Chloride (Cl)	mg/l	6.22	7.41	25.10
5	Sodium (Na)	mg/l	26.30	37.49	35.90
6	Calcium (Ca)	mg/l	365.32	602.64	16.10
7	Magnesium (Mg)	mg/l	15.12	47.76	57.90
8	Iron (Fe)	mg/l	6.41	0.21	2.70
9	Lead (Pb)	mg/l	0.10	0.23	0.13
10	Manganese (Mn)	mg/l	9.57	4.58	7.40
11	Nickel (Ni)	mg/l	0.08	0.15	0.30
12	Barium (Ba)	mg/l	BDL	BDL	BDL
13	Zinc (Zn)	mg/l	0.07	0.04	0.36
14	Copper (Cu)	mg/l	0.04	0.04	0.14
15	Cadmium (Cd)	mg/l	0.03	0.04	0.03
16	Chromium (Cr)	mg/l	0.05	0.01	BDL
17	Arsenic (Ar)	mg/l	BDL	BDL	BDL
18	Mercury (Hg)	mg/l	BDL	BDL	BDL
19	Aluminium (Al)	mg/l	1.90	BDL	BDL
20	Copper (Cu)	mg/l	0.05	0.04	0.14
21	Silica	mg/l	35.7	64.6	11.80
22	Oil & Grease	%	0.010	0.05	0.18
23	Moisture content	%	15.9	17.2	7.22