

Environmental Monitoring Data (July – September 2020)

UGC 01 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16)		July 2020		August 2020		September 2020		Baseline (Dec 16)		July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Cuffe parade	R	69.0	73.5	66.0	69.3	66.1	69.0	66.1	69.4	59.8	62.3	61.1	65.3	61.4	65.2	61.2	65.2
Vidhan bhavan	C	70.6	77.6	62.9	66.1	63.7	64.6	63.7	66.9	60.4	62.0	55.4	60.8	55.4	62.0	55.4	59.8
Churchgate *	C	70.5	76.0	-	-	68.4	70.0	68.0	70.9	60.8	63.7	-	-	60.0	62.1	60.5	62.6
Hutatma chowk	C	70.4	70.4	65.7	70.4	68.5	70.0	66.6	69.9	61.0	61.3	57.4	61.0	60.1	61.0	60.1	61.3
CY Wadala *	I	71.5	74.8	-	-	66.0	68.7	65.7	68.5	60.6	62.9	-	-	59.9	61.1	57.4	61.1
RMC MIDC *	R			-	-	67.2	69.5	67.1	70.1			-	-	61.0	61.7	61.1	61.7

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 01 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	July 2020		August 2020		September 2020		Baseline (Dec 16)	July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Cuffe Parade	118	48.24	63.70	53.22	57.12	56.24	66.8	63	23.52	38.88	27.02	30.26	23.74	40.36
Vidhan bhawan	191	37.2	56.52	38.16	58.28	28.51	84.08	81	18.66	33.24	21.08	32.12	12.12	37.04
Churchgate *	209	-	-	-	-	31.3	65.2	93	-	-	-	-	16.81	34.99
Hutatma chowk	218	40.12	58.62	45.16	51.08	43.89	118.06	92	22.06	35.12	26.02	28.02	13.77	50.23
Wadala casting yard *	179	-	-	34.2	53.18	16.6	68.28	72	-	-	17.02	34.11	12.41	32.24
MIDC plot *	217	-	-	42.24	62.24	22.86	64.14	105	-	-	24.12	30.8	17.01	44.4

* no monitoring on these locations due to transportation issue.

Environmental Monitoring Data (July – September 2020)

UGC 02 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16 – Jan 17)		July 2020		August 2020		September 2020		Baseline (Dec 16 – Jan 17)		July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
CST	C	62.2	65.3	58.4	59.7	58.7	60.2	60.0	61.2	62.4	66.5	57.1	59.9	58.4	61.1	59.8	62.9
Kalbadevi	R	66.2	78.2	61.7	65.8	60.9	64.2	59.9	63.4	60.0	73.2	61.3	64.2	62.1	63.5	58.5	63.4
Grant Road	R	62.7	87.6	58.7	63.6	58.3	60.2	59.2	61.9	66.6	78.5	55.5	65.9	59.3	61.2	59.6	64.5
Girgaon	R	68.5	78.1	60.2	66.1	57.3	61.6	58.1	62.2	62.1	69.2	60.2	65.5	59.2	64.9	58.6	65.7
Casting yard, Wadala	I	59.1	80.3	56.8	62.4	60.5	61.5	58.9	61.1	53.7	74.5	59.3	62.3	59.1	62.7	59.7	62.6

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 02 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	July 2020		August 2020		September 2020		Baseline (Dec 16)	July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
CST	103	60.2	63.9	57.1	58.9	79.1	79.3	44.5	28.2	32.6	30.8	31.3	28.6	37.3
Kalbadevi	-	62.3	62.7	60.5	61.3	66.3	75.8	-	26.9	30.8	27.3	31.3	33.9	40.8
Grant Road	110	53.2	57.5	59.1	59.3	78.3	78.8	50.8	21.7	23.4	20.8	28.6	30.8	38.2
Girgaon	120.5	54.7	58.5	53.5	62.7	68.9	69.8	56.4	24.7	30.8	24.7	30.8	25.2	35.2
Casting yard, Wadala	81.4	61.8	63.1	53.7	60.5	66.7	76.6	35.2	27.3	32.1	28.6	32.1	27.8	36.9

*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached.

Environmental Monitoring Data (July – September 2020)

UGC 03 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16- Feb 17)		July 2020		August 2020		September 2020		Baseline (Dec 16 – Feb 17)		July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Mumbai Central	C	49.4	78.1	63.6	63.6	64.9	64.9	67.9	67.9	49.5	57.5	56.8	56.8	56.1	56.1	55.8	55.8
Mahalaxmi	C		67.14	72.8	72.8	66.6	66.6	66.2	69.5		56.68	66.9	66.9	58.3	58.3	56.4	57.6
Science museum	C	57.2	86.4	66.7	66.7	68.1	68.1	63.0	64.1	49.3	65.9	56.3	56.3	56.6	56.6	58.8	58.9
Acharya Atre Chowk	C	51.6	84.5	71.4	71.4	70.5	70.5	66.0	66.8	49.6	58.9	67.2	67.2	55.5	55.5	57.4	59.0
Worli	C	69.0	74.0	65.6	65.6	66.9	66.9	63.0	67.6	57.9	69.5	60.0	60.0	53.5	53.5	58.0	58.7
Casting yard	I			62.7	62.7	69.7	69.7	65.8	67.4			56.9	56.9	57.9	57.9	56.1	57.1
RG land		45.4	83.1	65.1	65.1	67.5	67.5	65.7	68.3	46.8	67.6	59.4	59.4	57.5	57.5	56.8	59.1

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 03 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	July 2020		August 2020		September 2020		Baseline (Dec 16)	July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Mumbai Central	181.2	42.6	42.6	33.5	33.5	45.6	48.9	81.4	21.3	21.3	16.4	16.4	21.1	22.4
Mahalaxmi Station	174.3	50.4	50.4	34.4	34.4	47.7	50.1	71.8	23.6	23.6	18.3	18.3	21.8	22.4
Science museum	161.3	53.5	53.5	36.2	36.2	46.9	51.6	71.4	26.3	26.3	16.5	16.5	20.6	23.3
Acharya Atre Chowk	152.1	51.2	51.2	39.4	39.4	49.2	53.5	72.2	28.8	28.8	20.4	20.4	22.8	24.4
Worli Station	173.2	48.6	48.6	36.5	36.5	51.8	57.7	81.4	24.2	24.2	19.4	19.4	23.4	26.2
Casting yard Wadala	157.9	43.3	43.3	35.1	35.1	50.2	55.4	59.5	18.5	18.5	17.4	17.4	21.3	25.1
RG Plot		45.3	45.3	32.2	32.2	46.2	48.8		21.4	21.4	15.3	15.3	20.8	24.5

*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached. #Data not available.

Environmental Monitoring Data (July – September 2020)

UGC 04 Environmental Monitoring Data of Noise																	
Station	Zone	Leq Day								Leq Night							
		Baseline (Dec 16 – Feb 17)		July 2020		August 2020		September 2020		Baseline (Dec 16 – Feb 17)		July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Sidhivinayak	S	64.3	78.7	57.0	73.8	67.4	69.4	61.5	67.2	54.5	73.2	49.4	63.8	56.0	66.2	45.6	61.4
Dadar	C	75.6	78.3	50.1	73.1	72.1	74.0	64.7	68.8	69.3	72.5	45.9	63.7	64.4	69.9	57.3	64.4
Shitladevi	C	76.1	80.1	67.2	73.4	70.0	73.5	73.0	73.8	70.0	76.9	60.3	67.4	63.2	69.9	62.8	69.0
Nayanagar	S	75.6	79.1	62.1	66.3	66.1	71.5	52.3	72.7	67.9	73.2	55.0	60.6	59.9	63.6	46.5	63.5
Casting yard	I	80.2	83.8	62.2	73.9	68.3	73.0	59.7	70.8	71.6	76.4	57.5	68.5	65.6	69.2	46.8	60.8

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 04 Ambient Air Quality														
Station	PM 10							PM 2.5						
	Baseline (Dec 16)	July 2020		August 2020		September 2020		Baseline (Dec 16)	July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Sidhivinayak	101.8	38.7	46.7	48.4	64.5	30.6	59.3	59	12.6	20.4	23.3	30.1	16.2	26.1
Dadar	181.2	41.2	41.5	32.7	38.2	25.7	47.8	73.5	16.8	19.8	14.2	19.2	11.8	21.1
Shitladevi	165.7	42.7	58.3	34.3	36.2	29.5	50.1	79.2	19.7	26.6	16.5	18.5	13.9	22.5
Nayanagar	173.1	32.7	37.6	40.3	48.8	32.3	48.5	74.8	14.3	16.1	22.4	24.3	14.4	19.8
Casting yard	189.4	37.4	41.7	44.5	54.4	29.5	38.1	80.2	14.9	17.2	21.2	26.7	11.8	17.7

*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached.

UGC 05 Environmental Monitoring Data of Noise Quality																		
Station	Zone/ standa rd	Leq Day								Leq Night								Zone/ standard
		Baseline (Dec 16)		July 2020		August 2020		September 2020		Baseline (Dec 16)		July 2020		August 2020		September 2020		
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
Dharavi	R 55	65.4	67.9	51.5	63.1	58.2	61.7	57.8	60	62.4	65.8	41.4	46.3	44.7	51	47.8	51.1	R 45
BKC	C 65	65.7	71.5	52.8	59.1	60.8	63.9	55.3	60.7	66.5	70.0	45.2	49.4	51.4	56.5	49.7	54.9	C 55
Vidyanagari	R 55	73.2	80.0	55.1	59.2	62.1	63.7	58.2	61.2	68.6	73.3	46.2	48	47.2	57.5	50.4	54.5	R 45
Santacruz	C 65	76.9	77.0	52.8	65.4	57.1	63.7	55	60	69.9	69.9	43.7	54.5	44.1	59.9	48.8	54.3	C 55
Steel Yard	I 75	63.3	72.6	52.5	61	58.2	64.9	57.6	63.2	63.3	68.2	43.2	50.4	44.7	59.6	50.3	56.1	I 75

UGC 05 Environmental Monitoring Data of Ambient Air Quality														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		July 2020		August 2020		September 2020			July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Dharavi	37.91	47.8	62.8	43.3	58.4	48.4	63	20.28	15.6	25.6	11.3	22.6	15.2	22.6
BKC	91.55	23.4	62.7	39.8	61	42.1	61.9	40.12	16.5	60	10.8	19.5	15.2	26
Vidyanagari	68.74	41.7	58.8	41.2	62.1	43.2	61.4	32.52	15.2	20	10.2	22.6	13.5	26.5
Santacruz	198.12	41.9	56.9	31.8	61	43.1	60	135.81	14.3	23	9.9	23.9	16.1	25.6
Steel Yard	171.2	44.7	60.2	37.6	61	45	62	63.5	16.1	23.4	10.3	22.6	14.8	24.3
*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached.														

Environmental Monitoring Data (July – September 2020)

UGC 06 Environmental Monitoring Data of Noise Quality																		
Station	Zone/ stand ard	Leq Day								Leq Night								Zone/ stand ard
		Baseline (Dec 16)		July 2020		August 2020		September 2020		Baseline (Dec 16)		July 2020		August 2020		September 2020		
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
Sahar	R 55	75.1	75.3	47.7	62.5	62.5	66.5	59.6	66.1	73.6	68.4	46.3	50.4	55.7	61.9	51.8	61.2	R 45
CSIA International	C 65	71.9	80.9	54.9	61.9	61.9	66	58.4	64.1	67.6	74.4	55.5	48.8	61.1	62.5	60.8	59.3	C 55
CSIA Domestic	R 55	78.3	78.8	47.2	62.1	62.7	67.9	61.4	63.2	74.5	73.6	45.4	48	48.3	61.7	53.5	61.6	R 45
Mahulgoan	I 75	70.7	73.2	60.5	64.1	60.3	63.4	60.8	62.1	68.0	72.8	44	58.6	54.6	59.9	51.9	68	I 75
JVLR	C 65			49.2	64.5	61.4	65.2	54.8	60.8			43.7	54.1	48.5	60	51.6	58.4	C 55

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 06 Environmental Monitoring Data of Ambient Air Quality														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		July 2020		August 2020		September 2020			July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
Sahar	256.2	52.8	59.4	44.1	60.8	42.5	62.8	109.98	16.1	24.3	13.2	24.3	12.6	24.7
CSIA International	296.61	41.6	56.9	39.5	62.9	45.2	58.6	73.74	14.3	20.8	13.2	25.6	15.2	23.9
CSIA Domestic	115.09	42	61.3	40.3	61.3	53.8	60.8	25.01	16.9	24.7	11.7	24.3	16.5	22.1
Mahulgoan	152	41	61	40.9	62.9	41.2	61.9	51	16.9	23.9	10.2	22.6	17.8	23
JVLR		46.4	62.2	41.6	60.6	41.2	62.2		17.4	22.6	14.3	26	13.9	22.6
*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached.														

*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009) Copy attached.

Environmental Monitoring Data (July – September 2020)

UGC 07 Environmental Monitoring Data of Noise Quality																			Zone/ stand ard
Station	Zone/ stand ard	Leq Day								Leq Night								Zone/ stand ard	
		Baseline (Dec 16)		July 2020		August 2020		September 2020		Baseline (Dec 16)		July 2020		August 2020		September 2020			
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
MIDC	I 75	71.6	74.1	68.1	74.7	72.3	73.3	71.9	73.4	60.5	63.6	61.5	65.5	65.2	68.3	66.4	68.9	I 70	
MAROL NAKA	C 65	71.9	76.9	66.8	71.7	65.2	67.7	66	68.5	61.6	62.4	56.8	64.3	56.1	58.4	52.8	58.2	C 55	
SEEPZ	R 55	71.3	74.2	57.9	60.7	57.2	59	58.7	69.3	62.2	63.3	59.3	61.4	50.1	55.3	53	64.5	R 45	
PALI GROUND	C 65	68.2	72.7	51.2	54.7	50.5	61.2	57.1	64.5	58.9	60.6	46.6	47.8	49.7	55.6	50.2	55	C 55	
CASTING YARD	I 75	69.1	71.4	52.1	60.1	48.2	51.9	54.1	66.4	58.3	67.1	48	51.9	45.7	47.8	53.5	60.3	I 70	
Ramp Area	C 65			53.2	57.8	52.4	61.9	60.4	69.4			52.9	53.1	45	54.2	53	60	C 55	

*Note : The ambient Noise Level Monitoring is carried out as per Noise Pollution (Regulation and Control) Rules, 2000.

UGC 07 Environmental Monitoring Data of Ambient Air Quality														
Station	Baseline (Dec 16)	PM 10						Baseline (Dec 16)	PM 2.5					
		July 2020		August 2020		September 2020			July 2020		August 2020		September 2020	
		Min	Max	Min	Max	Min	Max		Min	Max	Min	Max	Min	Max
MIDC	185.0	46.2	66.4	38.5	52.5	37.5	47.5	86.0	22.6	32.2	18.8	25.2	18.4	23.4
Marol Naka	164.0	64.8	72.7	43.2	51.3	36.7	56.3	70.0	32.3	35.4	19.3	24.4	22.5	26.5
Pali Ground*	185.0	46.5	52.1	39.7	39.7	--	--	71.0	20	23.9	15.6	15.6	--	--
SEEPZ*	170.5	42.6	59.5	48.4	48.4	--	--	89.5	16.5	22.1	20.4	20.4	--	--
Casting Yard*	158	41.8	57.4	41.8	53.2	--	--	69	15.2	26.5	16.1	19.7	--	--
Ramp Area	92.6	47.5	56.4	58.1	58.1	56.2	65.5	58.2	21.3	23.9	25.2	25.2	25.9	32.9

*Note: The ambient Air Quality Monitoring is carried out as per National Ambient Air Quality Standards (2009)

* no monitoring on these locations due to transportation issue.

UGC 02 wastewater Monitoring (July, August 2020)								
Sr. No.	Parameters	Unit	CST sedimentation tank – inlet	CST sedimentation tank – outlet	Wadala sedimentation tank – inlet	Wadala sedimentation tank – outlet	CST sedimentation tank – inlet	CST sedimentation tank – outlet
			20/07/2020	20/07/2020	20/07/2020	20/07/2020	25/08/2020	25/08/2020
1	Colour	Hazen	26	13	53.0	22.0	7.0	10.0
2	pH		8.42	8.37	11.15	11.1	8.31	7.25
3	Total Dissolved Solids	mg/l	8370	1835	1532	1262	20510	1929
4	Total Suspended solids	mg/l	116	94	261	512	254	< 5
5	Total Hardness	mg/l	1282.5	544.5	370.5	351.5	1362.2	282.2
6	COD	mg/l	219	98	110	67	272	28
7	BOD	mg/l	95	16	44	19	104	11
8	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2

UGC 02 wastewater Monitoring (August, September 2020)								
Sr. No.	Parameters	Unit	Wadala sedimentation tank – inlet	Wadala sedimentation tank – outlet	CST sedimentation tank – inlet	CST sedimentation tank – outlet	Wadala sedimentation tank – inlet	Wadala sedimentation tank – outlet
			25/8/2020	25/8/2020	17/9/2020	17/9/2020	17/9/2020	17/9/2020
1	Colour	Hazen	14.0	9.0	< 5	< 5	6.9	< 5
2	pH	-	9.18	8.38	8.28	7.43	9.4	8.47
3	Total Dissolved Solids	mg/l	225	156	10090	1142	170	178
4	Total Suspended solids	mg/l	16	21	297	< 5	< 5	< 5
5	Total Hardness	mg/l	51.0	49	1166.2	203.8	44.1	45.1
6	COD	mg/l	16	16	112	< 10	36	20

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7	BOD	mg/l	6	7	40	< 5	10	< 5
8	Oil & Grease	mg/l	< 0.2	< 0.2	1	< 0.2	< 0.2	< 0.2

UGC 03 wastewater Monitoring (July 2020)						
Sr. No.	Parameters	Unit	Mumbai Central – Waste water	Science Centre Slurry treatment plant - outlet	Acharya Atre Chowk – Waste water	Casting yard – Waste water
			17/7/2020	8/7/2020	8/7/2020	8/7/2020
1	Colour	Hazen	< 1	< 1	< 1	< 1
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable
3	pH		9.20	7.94	7.73	7.89
4	Total suspended solids	mg/l	22	33	14	89
5	Total dissolved solid	mg/l	996	9987	449	551
6	COD	mg/l	60	68	53	77
7	BOD (3days)	mg/l	13	27	16	23
8	Oil & Grease	mg/l	< 5	< 5	< 5	< 5
9	Sulphate	mg/l	58	98	63	41
10	Chloride	mg/l	467	705	158	23
11	Ammonical Nitrogen	mg/l	< 0.5	< 0.5	< 0.5	< 0.5
12	Chromium hexavalent	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
13	Cyanide as CN	mg/l	< 0.02	< 0.02	< 0.02	< 0.02
14	Dissolved Phosphates	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
15	Fluoride	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
16	Free Ammonia	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
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	< 0.1	< 0.1	< 0.1	< 0.1
20	Sulphide	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
21	Total Chromium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05
22	Total Kjeldahal Nitrogen	mg/l	5	8	2	5

Environmental Monitoring Data (July – September 2020)

23	Zinc	mg/l	< 5	< 0.1	< 0.1	< 0.1
24	Arsenic	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
25	Cadmium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
26	Copper	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
27	Iron	mg/l	< 0.5	< 0.5	< 0.5	< 0.5
28	Lead	mg/l	ND	ND	ND	ND
29	Manganese	mg/l	< 0.1	< 0.1	< 0.1	< 0.1
30	Mercury	mg/l	< 0.01	< 0.01	< 0.01	< 0.01
31	Nickel	mg/l	< 0.2	< 0.2	< 0.2	< 0.2
32	Selenium	mg/l	< 0.1	< 0.1	< 0.1	< 0.1

UGC 03 wastewater Monitoring (August, September 2020)

Sr. No.	Parameters	Unit	Science Centre Sedimentation tank – outlet	Science Centre Sedimentation tank – outlet	Mahalaxmi Sedimentation tank – outlet	Nehru Science Centre Sedimentation tank – outlet	Acharya Atre Chowk Sedimentation tank – outlet
			8/8/2020	8/8/2020	12/9/2020	12/9/2020	12/9/2020
1	Colour	Hazen	< 1	< 1	< 1	< 1	< 1
2	Odour		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	pH		8.22	8.70	7.80	8.05	8.36
4	Total suspended solids	mg/l	93	20	1613	53	33.0
5	Total dissolved solid	mg/l	2081	150	239	1936	1409
6	COD	mg/l	241	48	28	223	197
7	BOD (3days)	mg/l	27	14	7.6	26	21
8	Oil & Grease	mg/l	9	< 5	215	7.94	< 5
9	Sulphate	mg/l	155	31	397	273	243
10	Chloride	mg/l	569	21	< 0.5	480	276
11	Ammonical Nitrogen	mg/l	< 0.5	< 0.5	< 0.01	< 0.5	< 0.5
12	Chromium hexavalent	mg/l	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01

Environmental Monitoring Data (July – September 2020)

13	Cyanide as CN	mg/l	< 0.02	< 0.02	-	< 0.02	< 0.02
14	Dissolved Phosphates	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
15	Fluoride	mg/l	< 0.1	< 0.1	2.0	< 0.1	< 0.1
16	Free Ammonia	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
17	Nitrate	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
18	Phenolic compound	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
19	Residual free chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
20	Sulphide	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
21	Total Chromium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
22	Total Kjeldahal Nitrogen	mg/l	5	3	5	7	3
23	Zinc	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
24	Arsenic	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25	Cadmium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
26	Copper	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
27	Iron	mg/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
28	Lead	mg/l	ND	ND	ND	ND	ND
29	Manganese	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
30	Mercury	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
31	Nickel	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
32	Selenium	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Environmental Monitoring Data (July – September 2020)



UGC 07 wastewater Monitoring (July - September 2020)						
Sr. No.	Parameters	Unit	MIDC – Sedimentation tank- outlet	Marol – Sedimentation tank – outlet	MIDC – Sedimentation tank- outlet	Marol – Sedimentation tank – outlet
			10/08/2020	10/08/2020	14/09/2020	14/09/2020
1.	pH	-	6.67	7.9	6.75	7.49
2.	Total Suspended Solids	mg/l	30	89	78	75
3.	Total Dissolved Solids	mg/l	155	524	237	325
4.	Oil & Grease	mg/l	<5	<5	<5	<5
5.	Chloride	mg/l	21	53	39	57
6.	Total Hardness	mg/l	98	34	80	54
7.	TKN	mg/l	3	5	<0.5	<0.5
8.	COD	mg/l	229	234	120	80
9.	BOD	mg/l	24	27	24	24
10.	Sulphate(SO ₄)	mg/l	10	34	15	30

Environmental Monitoring Data (July – September 2020)

UGC 05 wastewater Monitoring (July - September 2020)							
Sr. No.	Parameters	Unit	BKC Station Up line North shaft Sedimentation tank - Outlet	BKC Station Up line South shaft Sedimentation tank - Outlet	Dharavi Station Sedimentation tank - Outlet	Vidyanagari Station Sedimentation tank - Outlet	Santacruz Station Sedimentation tank - Outlet
			14/09/2020	14/09/2020	14/09/2020	14/09/2020	14/09/2020
1.	pH		7.7	7.6	7.09	8.35	11.5
2.	Copper	mg/l	< 0.04	< 0.04	< 0.04	< 0.04	0.23
3.	Chromium (6 ⁺)	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	0.05
4.	Iron	mg/l	1	1.11	2.1	1.5	2.6
5.	Ammonical Nitrogen (NH ₃)	mg/l	< 0.4	< 0.4	< 0.4	< 0.4	0.6
6.	Total Suspended Solids	mg/l	96	80	77	63	92
7.	Oil & Grease	mg/l	8	9	2	2	2
8.	Fluoride	mg/l	1.8	1.7	1.4	1.8	1.2
9.	Zinc	mg/l	< 0.2	< 0.2	< 0.2	< 0.2	0.4
10.	Sulphide	mg/l	<0.2	<0.2	< 0.2	< 0.2	< 0.2
11.	TKN	mg/l	5.4	5.4	8.1	3.4	13.8
12.	Chromium	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	0.25
13.	Phosphate	mg/l	< 3	< 3	< 3	< 3	< 3
14.	COD	mg/l	256	160	224	218	234
15.	BOD	mg/l	26	14	19	20	18

Environmental Monitoring Data (July – September 2020)

UGC 06 wastewater Monitoring (July - September 2020)				
Sr. No.	Parameters	Unit	Sahar road – Tunnel Sedimentation tank - Outlet	Sahar road – Cross over Sedimentation tank - Outlet
			14/09/2020	12/09/2020
1	pH		11.3	10.9
2	Copper	mg/l	< 0.04	< 0.04
3	Chromium (6 ⁺)	mg/l	< 0.05	< 0.05
4	Iron	mg/l	0.37	2.82
5	Manganese	mg/l	< 0.1	<0.1
6	Total Suspended Solids	mg/l	149	189
7	Magnesium	mg/l	-	
8	Oil & Grease	mg/l	< 0.2	< 0.2
9	Fluoride	mg/l	0.7	1
10	Selenium	mg/l	<0.01	< 0.01
11	Zinc	mg/l	< 0.2	< 0.2
12	Cadmium	mg/l	< 0.03	< 0.03
13	Sulphide	mg/l	<0.2	<0.2
14	Lead	mg/l	< 0.05	< 0.05
15	Mercury	mg/l	<0.001	30.6
16	Nickel	mg/l	<0.01	< 0.01
17	TKN	mg/l	1	2.4
18	Chromium 6 ⁺	mg/l	< 0.5	0.05
19	Chromium	mg/l	< 0.01	< 0.01
20	COD	mg/l	<10	28
21	BOD	mg/l	< 5	8

Environmental Monitoring Data (July – September 2020)

UGC 07 wastewater Monitoring (July – September 2020)					
Sr. No.	Parameters	Unit	Ramp– Sedimentation tank - Outlet	SEEPZ – Sedimentation tank- outlet	Casting Yard– Sedimentation tank - Outlet
			23/07/2020	24/07/2020	25/08/2020
1	pH		8.7	8.7	8.6
2	Copper	mg/l	< 0.04	< 0.04	< 0.04
3	Chromium (6 ⁺)	mg/l	< 0.05	< 0.05	0.05
4	Iron	mg/l	2.57	0.98	2.72
5	Manganese	mg/l	0.6	0.6	0.9
6	Total Dissolved Solids	mg/l	352	438	426
7	Magnesium	mg/l	5.6	< 5	< 5
8	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2
9	Chloride	mg/l	23.8	31.8	8.9
10	Selenium	mg/l	<0.01	< 0.01	<0.01
11	Zinc	mg/l	2.1	1.9	1.6
12	Cadmium	mg/l	< 0.003	< 0.003	< 0.003
13	Total Hardness	mg/l	92.1	98	186.2
14	Lead	mg/l	< 0.01	< 0.01	< 0.01
15	Mercury	mg/l	-	-	-
16	Nickel	mg/l	<0.01	< 0.01	<0.01
17	TKN	mg/l	11.5	1.2	1.2
18	Nitrate Nitrogen	mg/l	2.3	1.4	<0.5
19	Chromium	mg/l	< 0.01	< 0.01	< 0.01
20	COD	mg/l	16	< 10	27
21	BOD	mg/l	< 5	< 5	6

Environmental Monitoring Data (July – September 2020)

UGC 07 wastewater Monitoring (July - September 2020)					
Sr. No.	Parameters	Unit	Ramp– Sedimentation tank - Outlet	SEEPZ – Sedimentation tank- outlet	Casting Yard– Sedimentation tank - Outlet
			21/09/2020	24/09/2020	24/09/2020
1	pH		8.37	7.89	6.3
2	Copper	mg/l	< 0.04	< 0.04	< 0.04
3	Chromium (6 ⁺)	mg/l	< 0.05	< 0.05	<0.05
4	Iron	mg/l	< 0.05	< 0.1	2.15
5	Manganese	mg/l	0.7	0.8	1.3
6	Total Dissolved Solids	mg/l	365	240	285
7	Magnesium	mg/l	5.2	3.7	9.4
8	Oil & Grease	mg/l	< 0.2	< 0.2	< 0.2
9	Chloride	mg/l	32.8	19.8	39.7
10	Selenium	mg/l	<0.01	< 0.01	<0.01
11	Zinc	mg/l	< 0.2	< 0.2	1.4
12	Cadmium	mg/l	< 0.003	< 0.003	< 0.003
13	Total Hardness	mg/l	86.2	92.1	11.4
14	Lead	mg/l	< 0.01	< 0.01	< 0.01
15	Calcium	mg/l	25.9	30.6	48.9
16	Nickel	mg/l	<0.01	< 0.01	<0.01
17	TKN	mg/l	38.9	3.4	2.7
18	Nitrate Nitrogen	mg/l	< 0.5	< 0.5	<0.5
19	Chromium	mg/l	< 0.01	< 0.01	< 0.01
20	COD	mg/l	20	< 10	60
21	BOD	mg/l	< 5	< 5	18

Environmental Monitoring Data (July – September 2020)

Muck Analysis UGC - 01 (September 2020)				
Sr. No.	Parameter	Unit	Vidhan Bhavan Tunnel Muck	Churchgate Mid Shaft Tunnel Muck
			7/9/2020	7/9/2020
1	LOD	%	46.30	36.92
2	pH	-	9.32	9.20
3	Organic matter	%	0.988	1.022
4	Chloride	mg/kg	372	278
5	Sulphate	mg/kg	452	320
6	Calcium as Ca	mg/kg	754	832
7	Magnesium as Mg	mg/kg	330	578
8	Sodium as Na	mg/kg	412	398
9	Boron	mg/kg	0.612	0.714
10	Conductivity	µmhos/Cm	1660	1844
11	Moisture content	%	46.30	36.92
12	Oil & Grease	mg/L	< 0.1	< 0.1
13	Cyanide	mg/L	< 0.01	< 0.01
14	Pesticides	mg/kg	< 0.002	< 0.002
15	Silica	mg/kg	52.30	45.10

Muck Analysis UGC - 01 (September 2020)				
Sr. No.	Parameter	Unit	Vidhan Bhavan Tunnel Muck	Churchgate Mid shaft Tunnel Muck
			07/09/2020	07/09/2020

Environmental Monitoring Data (July – September 2020)

1	Manganese	mg/L	3.124	7.52
2	Mercury	mg/L	< 0.5	< 0.5
3	Copper as Cu	mg/L	4.250	7.890
4	Chromium as Cr	mg/L	3.652	0.868
5	Nickel as Ni	mg/L	2.620	6.34
6	Cadmium as Cd	mg/L	< 0.5	< 0.5
7	Lead as Pb	mg/L	0.612	0.612
8	Zinc as Zn	mg/L	16.30	12.60
9	Iron as Fe	mg/L	18.12	16.52
10	Arsenic	mg/L	< 0.5	< 0.5
11	Cobalt	mg/L	1.430	1.032
12	Aluminium	mg/L	10.46	8.36
13	Silver	mg/L	< 0.5	< 0.5

Soil Monitoring UGC – 02 (September 2020)

Sr. No.	Parameter	Unit	CST Station	Kalbadevi soil	Girgaon Soil	Grant road Soil	Wadala Soil
			19/9/2020	19/9/2020	19/9/2020	19/9/2020	17/9/2020
1	pH		8.17	10.87	9.70	8.89	8.86
2	Electrical conductivity	mmhos/cm	0.63	1.54	1.45	5.04	0.22
3	Moisture content	%	18.00	32.60	26.70	20.10	14.40
4	Sulphate	mg/kg	69.80	533.10	501.90	380.10	49.00
5	Chloride	mg/kg	247.60	99.20	544.40	2869.60	99.20

Environmental Monitoring Data (July – September 2020)

6	Sodium	mg/kg	1988.50	2220.90	3873.70	380.10	2094.05
7	Potassium	mg/kg	1103.30	1302.80	1450.90	1596.10	1021.74
8	Calcium	mg/kg	5029.60	15236.20	6623.90	2329.20	6949.00
9	Magnesium	mg/kg	464.30	703.20	467.60	931.70	463.30
10	Lead	mg/kg	89.60	18.70	21.70	17.74	19.34
11	Cadmium	mg/kg	0.80	0.91	1.20	1.00	1.05
12	Chromium	Mg/kg	55.70	55.60	58.70	61.54	64.60
13	Manganese	mg/kg	1094.00	1168.00	1185.00	1230.00	600.00
14	Nickel	mg/kg	48.10	35.60	45.60	50.00	56.70
15	Cobalt	mg/kg	33.20	34.20	36.70	48.00	35.20
16	Zinc	mg/kg	144.70	63.90	76.40	88.10	189.40
17	Iron	mg/kg	42120.00	60120.00	42840.00	74660.00	43370.00
18	Copper	mg/kg	75.70	116.00	61.90	106.10	38.94
19	Aluminium	mg/kg	5014.00	9869.00	11280.00	17140.00	9480.00
20	Silver	mg/kg	10.10	24.00	62.90	3.32	3.00
21	Oil and Grease	%	BDL	BDL	BDL	BDL	BDL
22	Silica	mg/kg	62.70	68.60	104.50	48.10	45.20

Environmental Monitoring Data (July – September 2020)

Muck Monitoring UGC – 02 (September 2020)							
Sr.No.	Parameter	Unit	CST Station Muck				
			19/9/2020				
1	pH		10.92				
2	Electrical Conductivity	mmhos/ cm	5.92				
3	Moisture content	%	30.10				
4	Texture	mg/kg	Sand				
5	Alkalinity	mg/kg	< 5.0				
6	Specific Gravity	mg/kg	2.28				
7	Lead	mg/lit	1.05				
8	Cadmium	mg/lit	0.20				
9	Chromium	mg/lit	12.10				
10	Manganese	mg/lit	194.30				
11	Nickel	mg/lit	6.90				
12	Cobalt	mg/lit	3.30				
13	Zinc	mg/lit	13.82				
14	Iron	mg/lit	3145				
15	Copper	mg/lit	14.30				
16	Aluminium	mg/lit	227.90				
17	Silver	mg/lit	0.90				

Environmental Monitoring Data (July – September 2020)

Soil Monitoring UGC – 03 (September 2020)					
Sr. No.	Parameter	Unit	Mahalaxmi	Nehru Science Centre	Acharya Atre Chowk
			25/9/2020	25/9/2020	25/9/2020
1	pH		10.97	10.81	11.40
2	Electrical conductivity	mS/cm	0.438	0.450	0.890
3	Moisture content	%	22.4	6.88	16.2
4	Organic content	%	5	9	6
5	Total Nitrogen	mg/l	5	6	2
6	Zinc	mg/l	< 5	< 5	< 5
7	Copper	mg/l	78	55	78
8	Phosphorus	mg/l	10	16	2
9	Potassium	mg/l	870	1079	1766
10	Calcium	mg/l	73	< 5	53
11	Chloride	mg/l	271	211	163
12	Chromium	mg/l	49	27	61
13	Pesticides	mg/l	ND	ND	ND
14	Aluminium	mg/l	< 1	< 1	< 1
15	Arsenic	mg/l	< 1	< 1	< 1
16	Cadmium	mg/l	< 5	< 5	< 5
17	Cobalt	mg/l	< 10	< 10	< 10
18	Iron	mg/l	918	667	771
19	Lead	mg/l	7	50	15
20	Magnesium	mg/l	26	21	16
21	Manganese	mg/l	< 5	< 5	< 5
22	Mercury	mg/l	< 0.5	< 0.5	< 0.5
23	Nickel	mg/l	31	24	33
24	Silver	mg/l	< 1	< 1	< 1
25	Sodium	mg/l	4139	3099	5743

Environmental Monitoring Data (July – September 2020)

26	Silica	mg/l	< 1	< 1	< 1
27	Petroleum Hydrocarbons	mg/l	ND	ND	ND
28	Oil & Grease	mg/l	< 1	< 1	< 1