



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Oct-18

Inlet Parameters													Outlet Parameters										DEWATERED SLUDGE			
Date	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS/TSS	Remarks	
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	370	20	6.5-8	≤15	≤250	≤30	≤1	≤10	≥70	≤1	≤200	MMN/100ml	≥15%	≥75%		
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MMN/100ml	≥15%	≥75%		
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23.10.2018	3.8	7.81	26.1	290	723.8	353.9	297.4	31.2	23.5	5.9	335	1.14	7.85	8.4	76.0	10.1	0.56	6.1	50.0	0.7	0.34	85				
24.10.2018	4.33	7.88	27.2	290	681.1	338.5	271.2	31.3	23.5	6.6	340	1.3	7.85	9.0	72.0	10.1	0.56	6.7	50.0	0.7	0.3	90				
25.10.2018	3.7	7.90	26.8	280	611.8	344.8	280.9	21.6	25.2	5.2	330	1.11	7.81	7.1	88.0	10.1	0.24	5.0	45.0	0.8	0.31	95				
26.10.2018	5.2	7.95	27.8	300	571.8	347.8	241.3	30.2	26.8	5.6	340	1.56	7.81	8.4	92.0	10.0	0.56	4.2	55.0	0.6	0.47	90				
27.10.2018	3.9	7.94	26.7	280	547.1	357.1	239.5	30.2	27.1	4.7	330	1.17	7.78	7.2	88.0	10.02	0.56	4.7	57.0	0.5	0.41	80				
28.10.2018	3.3	7.52	28.1	300	744.1	332.8	251.1	28.2	24.3	5.5	345	0.99	7.85	8.4	88.0	10.5	0.36	5.1	55.0	0.6	0.38	85				
29.10.2018	3.0	7.84	24.6	290	578.0	338.9	238.1	28.8	19.0	5.2	330	0.9	7.21	8.4	60.0	11.4	0.24	5.0	55.0	0.6	0.38	85				
30.10.2018	4.1	7.86	25.7	290	563.8	341.8	227.6	28.0	18.4	5.2	335	1.23	7.18	8.4	72.0	11.1	0.18	5.3	57.0	0.5	0.24	85				
31.10.2018	1.5	7.81	26.5	300	527.8	336.1	226.1	27.4	19.32	5.0	330	0.45	7.76	7.3	76.0	10.8	0.28	4.9	55.0	0.4	0.19	85				
Cumulative flow	MLD											MLD														
Average flow	MLD											MLD														
Peak inlet flow	MLD											MLD														

19 Oct

ASSISTANT EXECUTIVE ENGINEER

No flow due to pipeline work

KEC - WATERLEAU (JV)

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ASSISTANT ENGINEER

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

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ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of Nov-2018

KEC WATERLEAU

Inlet Parameters													Outlet Parameters													DEWATERED SLUDGE				Remarks
Date	Parameters	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS					
Range		20	6.5-7.5	24-27	350	800	450	380	70	45	7	370	20	6.5-8	≤ 35	≤ 250	≤ 30	≤ 1	≤ 10	≥ 70	≤ 1	1	200							
Unit		MLD		°C	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	18%	75%						
01.11.2018		0.75	7.00	26.8	270	576.7	347.8	240.1	43.6	39.7	6.1	340	7.58	7.8	56.9	10.0	0.7	4.2	00.0	0.6	0.22	75								
2		0.50																												
3		0.26																												
4		0.23																												
5		0.14																												
6		6.80	7.12	26.1	210	510.6	358	260.1	48.6	38.1	6.7	300	6.12	7.12	7.6	40.0	11.0	0.8	5.2	100	0.7	0.12	70							
7		7.40	7.16	26.0	220	470.1	346.0	270.2	47.7	37.6	6.8	320	5.18	7.41	7.8	60.0	12.0	0.9	5.9	110	0.8	0.12	90							
8		4.70	7.17	26.1	220	550.1	390.1	280.1	51.8	38.1	6.7	330	3.29	7.48	8.4	60.0	13.0	0.8	6.2	120	0.9	0.18	95							
9		2.70	7.09	25.9	210	542.7	360.1	288.2	52.8	35.1	6.5	340	1.89	7.52	8.0	58.0	14.0	0.7	6.8	140	0.8	0.19	110							
10		5.50	7.17	26.2	200	530.1	348.4	248.1	50.1	38.7	6.1	320	3.25	7.50	7.3	54.0	16.0	0.6	6.9	130	0.7	0.10	90							
11		8.20	7.86	26.1	200	516.0	338.9	242.4	45.9	36.12	6.0	340	6.24	7.58	7.4	56.0	8.0	0.28	2.4	75.0	0.6	0.19	90							
12.11.2018		12.0	7.82	27.4	200	524.1	330.5	260.9	47.6	37.2	5.9	325	8.40	7.5	8.4	52.0	10.0	0.56	3.5	65.0	0.7	0.23	95							
13.11.2018		18.60	7.85	27.6	310	638.6	420.1	270.5	44.2	34.2	6.3	335	13.02	7.49	8.4	60.0	10.0	0.28	3.9	70.0	0.5	0.25	90							
14.11.2018		14.70	6.81	25.7	300	675.1	347.8	255.6	43.61	34.7	6.0	335	10.09	7.68	7.8	64.0	12.0	0.56	3.3	60.0	0.8	0.27	95							
15.11.2018		7.90	6.51	26.4	300	660.4	327.6	240.2	41.86	32.0	5.4	320	5.53	7.68	8.4	64.0	10.0	0.7	4.9	65.0	0.7	0.21	90							
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Cumulative flow		MLD											MLD																	
Average flow		MLD											MLD																	
Peak inlet flow		MLD											MLD																	
KEC - WATERLEAU (JV)													BANGALORE WATER SUPPLY AND SEWERAGE BOARD																	
PLANT CHEMIST																														



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Jan-2019

Inlet Parameters													Outlet Parameters											DEWATERED SLUDGE				Remarks
Date	Parameters	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS			
	Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	120	20	6.5-8	≤ 250	≤ 30	≤ 10	≤ 10	2-70	≤ 1	1	200		15%	≤ 5%			
	Unit	MLD		°C	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MLD		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MPN/100ml						
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24.01.2019	14.9	6.81	26.8	310	626.0	446.1	244.6	53.6	32.0	6.8	37.0	9.69	7.81	16.2	244.1	384	1.4	13.1	59.1	1.9	0.31	95						
25.01.2019	20.5	6.61	27.1	310	521.8	344.8	242.3	58.1	22.6	6.9	29.0	13.33	7.88	17.6	2708	356	1.4	14.1	65	1.4	0.31	80	19.6	78.0				
26.01.2019	20.5	7.11	27.4	300	611.5	354.1	241.3	48.1	33.6	6.7	34.0	13.33	7.81	17.4	286.1	341	1.6	13.5	71	1.8	0.31	85						
27.01.2019	15.0	7.86	29.1	320	660.4	247.8	285.1	55.8	37.6	6.8	32.0	9.45	7.16	16.8	242.8	354	1.5	12.6	61	1.7	0.36	80						
28.01.2019	13.1	7.87	25.8	310	710.2	262.1	265.9	59.4	33.6	6.3	28.0	8.52	7.61	17.4	2409	373	1.4	11.6	61	1.6	0.78	75						
29.01.2019	11.85	7.74	26.9	330	709.9	353.9	241.1	56.3	36.4	6.9	29.0	7.4	7.23	16.2	292.3	324	1.9	12.4	58	1.6	0.41	70						
30.01.2019	11.35	6.94	26.1	320	714.4	344.8	265.4	54.4	38.4	6.8	34.5	7.4	7.48	14.4	266.4	284	1.4	13.8	68	1.9	0.34	80						
31.01.2019	10.8	6.10	27.4	320	704.8	353.9	243.1	59.8	34.8	6.8	42.5	7.01	7.85	16.8	274.6	344	1.4	13.2	70	1.4	0.27	85	19.1	77.8				
Cumulative flow		MLD												MLD														
Average flow		MLD												MLD														
Peak Inlet flow		MLD												MLD														
KEC - WATERLEAU (JV)													BANGALORE WATER SUPPLY AND SEWERAGE BOARD															
PLANT CHEMIST													ASSISTANT ENGINEER											ASSISTANT EXECUTIVE ENGINEER				
PLANT MANAGER																												



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS
FLOW AND LAB ANALYSIS REPORT for the month of Feb-2019.

KEC WATERLEAU
PHOTOGRAPHY

Inlet Parameters												Outlet Parameters												DEWATERED SLUDGE				Remarks
Parameters	Aug. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₂ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS				
Unit	MLD		°C	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MLD		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	MPN/100ml	15%	45%				
01.02.2019	10.09	6.71	24.6	6330	6810	4273	170	58.6	22.4	3.28	100	2.02	7.81	16.2	2184	36.3	1.8	12.1	65	1.91	0.26	90	15.3	75.4				
02.02.2019	9.75	7.12	24.8	290	762.6	3448	227	68.1	19.2	3.1	350	1.95	7.65	18.0	2820	285	1.92	11.2	60	1.98	0.31	95						
03.02.2019	8.69	6.58	24.6	300	650	4201	291	66.8	18.6	4.8	360	1.76	7.12	16.2	2563	32.2	1.8	10.1	70	2.1	0.32	110						
04.02.2019	9.64	7.97	25.2	320	5150	4098	265	55.2	17.2	5.6	360	1.93	7.74	15.6	2852	27.0	2.2	18.6	75	2.3	0.42	100	10.3	76.9				
05.02.2019	8.22	7.28	23.8	290	4480	3389	298	68.7	21.2	3.8	335	1.83	7.81	13.8	2460	34.4	2.6	11.0	70	2.4	0.41	120						
06.02.2019	7.60	7.01	24.2	280	4840	3570	210	63.7	19.7	4.2	310	6.83	7.89	12.0	2680	32.2	1.8	11.6	75	1.9	0.36	110						
07.02.2019	5.73	7.26	25.4	290	5080	3478	241	65.7	21.0	4.8	355	4.58	7.87	12.6	2640	27.7	1.3	13.1	80	1.9	0.40	100						
08.02.2019	6.77	7.08	24.7	300	4920	2608	233	53.7	28.3	3.8	340	6.53	7.81	13.2	2480	27.0	1.1	10.2	70	1.3	0.36	110	19.2	77.9				
09.02.2019	6.71	7.32	25.5	290	5120	3571	283	58.6	18.6	3.1	340	5.69	7.89	13.2	2520	26.6	1.4	9.2	75	1.2	0.31	100						
10.02.2019	7.40	7.03	26.6	300	476	3448	216	55.6	18.8	3.6	310	5.99	7.58	12.6	2320	26.6	1.4	9.2	75	1.2	0.31	100						
11.02.2019	7.04	7.28	25.4	290	4712	3448	220	57.8	18.2	4.81	355	5.91	7.71	12.6	212	20.8	1.3	10.1	60	1.0	0.29	95						
12.02.2019	6.86	6.91	24.6	280	4116	353.9	279	68.7	18.6	6.8	300	5.75	7.85	10.8	200	27.7	1.1	10.2	55	1.0	0.22	95	19.3	76.9				
13.02.2019	6.32	7.28	25.8	290	460	350.8	259	59.1	21.6	6.1	325	5.26	7.88	11.4	220	27.2	1.0	9.4	60	1.0	0.31	95						
14.02.2019	6.80	7.16	24.1	290	4712	3448	220	54.8	21.8	6.4	335	5.65	7.46	12.6	204	28.0	1.2	1.1	55	1.1	0.32	110						
15.02.2019	7.41	7.26	24.6	310	468	363.6	262	58.0	18.4	5.2	340	4.69	7.82	13.2	208	21.2	1.1	9.2	60	1.2	0.32	100	20.7	77.1				
16.02.2019	7.70	7.28	25.8	310	488	3415	184	59.8	24.7	5.8	345	6.0	7.79	12.6	192	23.5	1.1	10.1	55	0.9	0.41	105						
17.02.2019	8.12	7.81	24.6	290	488	338.9	252	58.7	23.6	6.1	335	6.88	7.39	11.4	180	22.9	1.1	8.4	50	1.0	0.40	100						
18.02.2019	7.90	7.52	25.6	300	480	276.8	284	51.7	24.8	5.0	345	6.60	7.85	13.2	188	25.6	1.0	8.6	60	0.9	0.41	100	21.3	77.3				
19.02.2019	7.40	6.44	24.8	310	496	333.3	282	58.9	19.7	4.8	320	6.10	7.78	13.8	184	26.3	1.1	8.3	55	1.1	0.36	95						
20.02.2019	6.48	7.12	24.6	276	476	400	183	58.1	18.2	4.6	310	3.97	7.79	12.6	136	23.8	1.0	8.1	55	1.0	0.37	90						
21.02.2019	6.77	7.28	26.6	320	512	341.8	237	51.6	28.7	5.8	320	6.08	7.81	13.2	124	23.2	1.0	8.1	55	0.9	0.37	95	20.2	77.6				
22.02.2019	6.84	7.06	23.8	310	500	357.1	252	51.8	28.9	5.8	330	2.33	7.79	12.0	144	24.3	1.0	7.3	50	0.8	0.35	95						
23.02.2019	5.65	7.16	24.8	310	504	320.1	248	65.8	24.4	6.5	320	5.0	7.68	13.2	120	24.3	0.9	7.2	50	0.8	0.36	90						
24.02.2019	7.51	7.16	25.6	320	508	344.8	249	51.8	18.6	5.4	330	6.59	7.68	12.0	116	24.5	0.9	7.1	50	0.8	0.36	110						
25.02.2019	7.16	7.08	26.6	320	476	3478	231	50.9	28.7	5.1	335	6.32	7.82	12.6	110	23.7	0.9	6.8	45	0.8	0.37	100						
26.02.2019	8.10	7.36	25.7	310	472	341.8	286	58.6	24.8	5.2	340	7.12	7.74	12.0	132	22.9	0.7	6.1	50	0.7	0.33	95						
27.02.2019	7.07	7.25	26.6	300	484	338.9	254	48.7	27.8	5.4	345	4.32	7.85	12.6	104	19.6	0.8	5.1	55	0.8	0.36	90						
28.02.2019	6.37	7.18	24.7	310	460	344.8	224	61.5	28.1	6.3	335	4.79	7.91	13.8	84	17.8	0.7	5.2	50	0.8	0.35	90	12.6	78.9				
Cumulative flow												MLD																Remarks
Average flow												MLD																
Peak inlet flow												MLD																
KEC - WATERLEAU (JV)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD																
PLANT CHEMIST												PLANT MANAGER																
												ASSISTANT ENGINEER																
												ASSISTANT EXECUTIVE ENGINEER																



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of March-2019.

KEC WATERLEAU

Date	Inlet Parameters												Outlet Parameters												DEWATERED SLUDGE				Remarks	
	Parameters	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS					
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
01.03.2019	5.30	7.21	24.1	380	496	336.1	231	59.1	31.6	5.1	245	4.1	7.84	11.4	1360	16.9	0.4	5.1	55	0.8	0.4	100	21.59	275						
02.03.2019	5.60	7.04	24.5	310	494	344.8	246	48.4	24.6	6.1	340	4.38	7.36	12.0	1280	18.1	0.4	5.2	50	0.8	0.4	110	17.2	286						
03.03.2019	5.21	7.16	24.6	300	480	357.1	234	55.4	22.1	5.8	340	4.01	7.28	12.0	1280	17.8	0.6	6.1	55	0.7	0.36	100								
04.03.2019	5.46	7.25	25.1	300	504	356.9	242	42.2	26.8	5.8	345	4.44	7.26	12.0	1360	17.6	0.6	6.8	50	0.8	0.42	95								
05.03.2019	5.58	7.24	25.6	310	480	336.1	211	55.8	28.7	6.4	345	4.68	7.91	10.8	1320	17.5	0.6	5.2	50	0.6	0.40	80	18.1	279						
06.03.2019	5.07	7.61	24.8	310	426	363.4	237	54.4	28.1	5.8	340	2.82	7.89	10.8	1280	17.3	0.6	6.1	55	0.6	0.40	80								
07.03.2019	5.22	7.69	24.2	290	426	363.4	218	55.1	34.6	5.6	350	2.18	7.81	9.6	1360	17.6	0.6	4.7	55	0.6	0.36	85								
08.03.2019	4.88	7.25	25.7	280	484	353.9	227.5	47.9	36.3	5.8	345	2.86	7.79	11.4	1200	17.2	0.8	4.2	50	0.6	0.38	95	18.4	279						
09.03.2019	3.14	7.29	25.3	300	456	300	234	56.7	33.8	4.60	340	2.71	7.85	9.0	1120	17.8	0.9	4.6	50	0.7	0.31	90								
10.03.2019	1.21	7.61	23.6	294	468	358.8	259	46.8	34.5	4.7	330	1.65	7.72	12.0	1380	19.2	0.7	4.7	50	0.6	0.32	95								
11.03.2019	2.8	7.52	26.8	300	476	353.9	268	58.1	31.7	6.2	345	2.7	7.72	12.0	1380	19.2	0.7	4.7	50	0.6	0.32	95								
12.03.2019	2.74	7.93	25.4	288	460	346.2	210.4	54.6	17.3	4.7	340	2.7	7.72	9.6	1320	19.4	0.8	3.6	45	0.6	0.33	100								
13.03.2019	4.29	7.08	26.8	294	504	390.8	213.4	44.2	20.1	4.2	345	2.01	7.75	10.8	92.0	17.2	0.8	4.6	55	0.5	0.34	95	17.3	286						
14.03.2019	14.43	7.06	28.1	282	496	370.0	243.2	36.4	18.48	3.8	320	11.53	7.65	10.8	160.0	16.8	0.8	4.6	45	0.8	0.39	80								
15.03.2019	25.0	6.97	26.8	288	484	310.5	266.3	42.8	30.8	4.5	330	23.76	7.89	9.0	88.0	18.1	0.42	3.6	55	0.5	0.46	80								
16.03.2019	21.93	7.12	26.7	288	508	326.1	262.1	55.2	48.1	3.8	325	20.88	7.83	10.2	1040	19.0	0.4	4.7	55	0.7	0.45	95	17.6	276						
17.03.2019	15.44	7.45	25.8	306	580	318.9	268.8	31.7	19.8	4.0	330	13.85	7.79	12.0	108.0	16.9	0.4	3.1	50	0.6	0.37	85								
18.03.2019	15.44	7.45	25.8	306	580	318.9	268.8	31.7	19.8	4.0	330	14.33	7.81	11.4	96.0	17.5	0.5	3.6	60	0.6	0.37	85								
19.03.2019	13.65	7.16	26.1	276	508	318.4	247.4	21.0	17.32	4.5	320	11.94	7.86	10.8	1040	17.6	0.5	3.7	55	0.5	0.36	80	19.6	281						
20.03.2019	12.42	7.01	26.4	270	512	330.5	257.7	22.9	17.6	5.3	325	10.89	7.87	7.0	112.0	18.5	0.4	3.3	50	0.8	0.37	80								
21.03.2019	16.75	7.25	26.1	300	496	332.3	259.7	22.1	19.2	4.8	335	15.67	7.88	7.8	108.0	17.5	0.7	2.7	55	0.7	0.30	85								
22.03.2019	14.58	7.10	26.2	294	508	322.5	251.5	42.6	35.8	4.9	340	13.31	7.87	6.4	96.0	17.2	0.5	3.1	55	0.5	0.35	95	18.1	287						
23.03.2019	11.60	7.18	26.3	288	488	330.5	257.7	21.3	19.2	4.6	330	10.63	7.88	6.4	88.0	17.6	0.5	3.1	50	0.8	0.41	85								
24.03.2019	11.22	7.26	26.3	292	508	336.1	265.5	25.4	19.3	4.1	340	10.2	7.65	7.8	60.0	15.2	0.56	3.3	50	0.6	0.43	85								
25.03.2019	8.42	7.22	26.8	294	516	325.2	257.7	26.8	20.16	4.5	335	7.52	7.76	7.2	68.0	15.3	0.42	3.0	55	0.7	0.43	80	16.3	289						
26.03.2019	8.42	7.27	26.8	282	504	293.4	304.0	21.0	20.4	4.8	345	7.08	7.77	7.2	56.0	12.9	0.42	3.1	60	0.4	0.32	85								
27.03.2019	10.35	7.12	26.6	276	488	318.4	243.5	31.3	19.04	4.2	325	8.28	7.41	7.8	60.0	12.8	0.56	5.0	45	0.7	0.35	95	18.2	289						
28.03.2019	15.65	6.91	25.8	294	504	317.4	244.3	31.7	20.16	4.5	305	12.85	7.55	8.4	52.0	12.9	0.56	5.8	45	0.5	0.41	80								
29.03.2019	13.03	7.15	26.8	288	518.0	270.6	204.6	31.08	17.04	4.0	340	10.53	7.42	7.2	56.0	12.6	0.42	5.5	50	0.5	0.42	80	18.1	280						
30.03.2019	11.10	7.06	27.6	288	512.0	390.6	308.5	31.06	18.2	4.8	330	8.45	7.51	7.2	60.0	12.9	0.42	5.8	50	0.6	0.47	80								
Cumulative flow		MLD												MLD																
Average flow		MLD												MLD																
Peak Inlet flow		MLD												MLD																
KEC - WATERLEAU (JV)																														
PLANT CHEMIST																														
PLANT MANAGER																														
ASSISTANT ENGINEER																														
ASSISTANT EXECUTIVE ENGINEER																														



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of April-2019

Date	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE				Remarks
	Parameters	Avg. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Total Coliform	TSS	Maximum Sludge VSS / TSS		
Unit		MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPH/1000				
01.04.2019	5.79	7.12	25.3	25.6	484.0	312	243.7	31.9	19.04	4.8	335	6.29	7.55	6.6	64.0	12.8	0.42	5.7	55	0.5	0.13	95	15.7	75%			
02.04.2019	7.62	7.27	26.2	25.8	400.0	293.1	311.0	34.7	19.6	4.6	335	4.58	7.48	7.8	56.0	12.6	0.56	5.8	55	0.4	0.13	90	20.2	77.1			
03.04.2019	14.50	6.9	24.2	25.0	422.0	312.5	240.6	27.4	18.36	5.1	340	10.69	7.48	7.2	60.0	12.7	0.56	5.9	50	0.6	0.42	90					
04.04.2019	16.83	7.02	26.1	25.6	468.0	310.0	241.8	31.08	18.36	5.4	335	14.80	7.26	6.6	56.0	12.6	0.42	5.7	55	0.5	0.42	95	21.6	77.0			
05.04.2019	18.05	7.28	25.6	25.0	468.0	314.9	242.4	31.08	17.04	5.2	335	9.46	7.45	7.2	48.0	12.2	0.28	5.5	50	0.4	0.40	90					
06.04.2019	18.54	7.01	25.6	25.2	468.0	314.9	242.4	31.08	17.04	5.2	330	12.57	7.45	7.2	64.0	12.1	0.28	6.1	55	0.5	0.42	80					
07.04.2019	14.06	7.16	24.6	25.8	476.0	300.3	234.5	31.4	18.16	5.9	335	7.16	7.26	7.2	56.0	12.3	0.56	6.2	50	0.6	0.42	85					
08.04.2019	16.78	7.22	25.8	25.4	456.0	305.3	238.1	21.9	17.04	5.8	335	16.39	7.52	7.8	52.0	11.36	0.28	6.5	55	0.4	0.45	80	23.3	77.0			
09.04.2019	13.59	7.06	25.6	25.6	452.0	310.0	235.6	28.5	18.04	5.5	340	12.84	7.45	7.8	60.0	11.36	0.56	6.2	60	0.6	0.42	85					
10.04.2019	10.48	7.18	25.6	25.6	460.0	310.0	237.1	27.1	17.04	4.6	330	8.93	7.58	7.2	52.0	11.4	0.28	5.4	50	0.6	0.31	95	20.4	78.6			
11.04.2019	17.92	7.11	25.6	25.6	468.0	305.3	238.9	27.1	17.32	5.6	340	16.32	7.40	8.4	64.0	11.36	0.28	6.4	58	0.4	0.32	100					
12.04.2019	14.69	7.08	25.8	25.8	456.0	294.1	220.5	27.4	18.48	4.4	335	8.75	7.51	7.8	56.0	11.2	0.56	5.1	55	0.5	0.52	105					
13.04.2019	13.09	7.04	25.4	25.4	461.0	304.6	237.9	30.2	18.16	5.7	335	9.84	7.55	7.2	68.0	11.7	0.28	6.1	50	0.4	0.42	110	21.8	77.0			
14.04.2019	14.25	6.9	25.6	25.8	472.0	300.3	228.5	27.96	19.32	4.7	330	11.68	7.16	7.8	60.0	11.36	0.56	5.5	45	0.4	0.36	105					
15.04.2019	16.37	7.02	25.8	25.6	444.0	310.0	237.2	28.56	17.04	5.8	225	12.14	7.26	7.2	64.0	11.2	0.28	4.2	50	0.3	0.42	95	22.3	76.7			
16.04.2019	10.54	7.11	25.4	25.0	472.0	316.1	229.3	27.1	18.04	5.6	335	6.55	7.27	8.4	64.0	11.2	0.28	5.5	50	0.4	0.44	90					
17.04.2019	15.38	7.07	25.6	25.6	456.0	304.6	237.1	27.1	18.04	5.4	330	5.98	7.57	7.8	58.0	11.4	0.56	5.0	50	0.5	0.41	90	23.7	76.1			
18.04.2019	12.67	6.92	25.6	25.8	464.0	305.3	238.1	27.96	19.32	5.3	330	8.95	7.21	8.4	60.0	11.4	0.28	5.0	55	0.6	0.38	85					
19.04.2019	16.64	7.08	26.4	25.8	468.0	271.9	224.6	28.0	18.48	5.2	335	12.91	7.16	8.4	72.0	11.1	0.28	5.3	50	0.5	0.38	85					
20.04.2019	15.07	7.05	25.4	25.4	472.0	294.1	226.1	27.4	19.32	5.0	330	15.93	7.76	7.8	76.0	10.8	0.28	5.4	55	0.4	0.49	85	31.2	77.5			
21.04.2019	13.50	7.09	26.1	25.8	484.0	289.3	223.1	27.12	18.2	5.2	220	12.81	7.44	8.4	72.0	10.8	0.28	5.4	50	0.4	0.31	90					
22.04.2019	15.92	7.61	26.4	25.4	480.0	317.4	241.4	28.4	18.4	5.4	340	15.85	7.41	7.8	76.0	10.5	0.56	4.6	55	0.6	0.33	90	20.9	77.5			
23.04.2019	11.11	7.58	26.4	300	484.0	305.3	241.1	26.4	17.96	5.5	335	8.94	7.31	8.4	72.0	10.4	0.56	4.6	45	0.4	0.38	95					
24.04.2019	13.75	7.68	24.8	306	588.0	361.6	283.0	27.06	17.04	5.7	330	14.46	7.22	9.0	76.0	10.4	0.28	4.1	50	0.3	0.36	80	26.5	77.9			
25.04.2019	14.22	7.53	26.2	300	512.0	361.7	288.9	24.76	17.96	4.9	225	13.57	7.13	8.4	94.0	10.2	0.28	4.2	50	0.2	0.42	85					
26.04.2019	14.18	7.61	24.1	294	472.0	294.1	220.5	27.36	12.03	4.6	330	13.63	7.41	8.4	76.0	10.41	0.56	4.0	55	0.4	0.40	85					
27.04.2019	20.73	7.61	25.7	300	476.0	296.2	231.0	26.32	18.20	4.1	325	16.77	7.31	7.0	72.0	10.3	0.56	4.1	45	0.3	0.39	90	20.6	77.1			
28.04.2019	16.12	7.21	25.7	294	472.0	354.4	246.4	24.91	17.96	4.4	330	14.15	7.58	8.4	76.0	10.41	0.28	3.8	45	0.4	0.42	90					
29.04.2019	14.34	7.55	24.6	288	484.0	359.4	273.3	26.3	16.8	4.4	335	13.69	7.26	7.0	76.0	10.2	0.56	3.5	55	0.3	0.27	88	20.9	77.5			
30.04.2019	15.02	7.16	23.8	300	472.0	364.9	280.9	26.32	17.64	4.8	325	13.79	7.08	7.0	72.0	10.1	0.56	3.4	45	0.5	0.28	85					
Cumulative flow		MLD												MLD													
Average flow		MLD												MLD													
Peak inlet flow		MLD												MLD													

Cumulative flow	MLD	MLD
Average flow	MLD	MLD
Peak Inlet flow	MLD	MLD

KEC - WATERLEAU (IV)

PLANT CHEMIST

PLANT MANAGER

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of May - 2019



Inlet Parameters														Outlet Parameters														DEWATERED SLUDGE			
Parameters	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks						
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml									
01.05.2019	19.17	7.23	25.1	288	484.0	364.6	283.0	85.2	16.8	4.4	330	16.30	7.36	8.4	88.0	10.30	0.15	3.4	50	0.4	0.24	80	215.7	215.7	cl						
02.05.2019	19.38	7.48	26.1	294	496.0	362.3	285.3	249.1	14.76	4.1	335	19.17	7.11	9.0	26.0	10.15	0.56	3.7	45	0.3	0.24	85	19.5	21.1	cl						
03.05.2019	20.04	7.69	26.5	212	491.0	370.3	288.8	26.8	18.46	4.9	315	18.79	6.9	8.4	22.0	10.1	0.18	3.3	45	0.5	0.31	95			cl						
04.05.2019	20.21	7.45	25.7	360	488.0	359.7	286.9	26.32	14.64	4.5	330	17.34	7.32	8.4	26.0	10.10	0.56	3.5	50	0.4	0.33	96	20.2	26.5	cl						
05.05.2019	17.36	7.91	26.8	294	488.0	337.9	260.1	26.32	14.64	4.9	330	11.17	7.44	8.4	22.0	10.15	0.18	3.0	55	0.3	0.32	85			cl						
06.05.2019	19.80	7.64	26.5	288	476.0	359.7	286.9	26.64	14.92	4.2	320	14.68	7.12	9.0	26.0	10.05	0.56	3.2	45	0.4	0.36	95	19.1	27.0	cl						
07.05.2019	19.64	7.44	25.6	310	483.0	354.1	281.7	26.6	14.76	4.8	325	17.20	7.01	8.4	26.0	10.20	0.56	3.2	50	0.2	0.36	90			cl						
08.05.2019	21.04	6.85	28.4	288	511.0	364.9	284.6	26.44	18.46	4.4	320	12.39	7.49	9.0	26.0	10.05	0.28	3.6	50	0.4	0.32	80	21.5	26.0	cl						
09.05.2019	19.91	7.12	25.4	294	458.0	354.6	283.0	26.16	14.64	4.8	335	14.12	7.61	9.0	26.0	10.20	0.56	3.5	45	0.4	0.35	95			cl						
10.05.2019	19.78	6.91	26.8	288	492.0	344.3	264.3	24.36	14.92	4.9	315	14.24	7.01	9.0	22.0	10.10	0.56	5.6	50	0.5	0.16	96	20.1	27.0	cl						
11.05.2019	19.96	7.21	26.1	288	496.0	359.7	289.4	26.32	14.76	4.4	335	11.97	7.44	8.4	22.0	10.15	0.56	4.5	45	0.5	0.24	90			cl						
12.05.2019	20.1	7.07	26.3	294.0	500.0	362.7	285.3	24.36	14.76	4.1	320	14.49	7.54	8.4	26.0	10.10	0.28	4.0	50	0.3	0.14	90			cl						
13.05.2019	22.00	7.12	26.7	288	496.0	352.1	274.6	25.10	18.46	4.9	325	10.15	7.51	9.0	22.0	10.20	0.56	5.6	50	0.4	0.11	95	19.8	26.8	cl						
14.05.2019	20.30	7.18	26.4	294	504.0	381.6	281.1	25.2	19.34	4.8	325	13.13	7.62	8.4	26.0	10.20	0.28	4.7	45	0.3	0.14	80			cl						
15.05.2019	19.84	6.87	25.4	294	508.0	383.6	281.2	24.36	14.92	5.3	330	10.00	7.78	9.0	26.0	10.05	0.28	4.8	50	0.4	0.46	95	21.4	26.5	cl						
16.05.2019	15.43	6.8	26.8	288	516.0	359.7	283.2	29.02	20.41	6.8	325	8.62	7.62	8.4	26.0	10.15	0.56	5.2	50	0.4	0.42	95			cl						
17.05.2019	8.48	6.78	24.4	294	516.0	376.8	287.6	31.64	21.84	5.9	335	6.91	7.81	8.4	24.0	10.11	0.38	5.1	50	0.5	0.44	80	19.7	28.1	cl						
18.05.2019	15.16	7.41	26.7	288	568.0	378.7	285.3	29.12	22.12	5.7	345	12.81	7.79	8.8	26.0	10.05	0.56	6.1	55	0.6	0.46	85			cl						
19.05.2019	18.73	6.97	28.1	288	536.0	397.4	280.5	29.4	20.42	5.1	335	15.2	7.62	9.0	26.0	10.10	0.6	5.1	50	0.4	0.47	80			cl						
20.05.2019	10.32	6.82	26.6	294	508.0	352.1	284.6	27.12	21.0	6.2	345	4.30	7.41	8.4	26.0	10.15	0.56	5.1	50	0.6	0.51	90	20.3	27.1	cl						
21.05.2019	08.48	7.10	25.5	294	516.0	354.1	264.3	25.50	25.46	5.8	340	7.01	7.53	9.0	28.0	10.05	0.42	5.8	50	0.4	0.36	90			cl						
22.05.2019	17.41	7.10	26.1	294	592.0	376.8	282.1	27.4	20.42	5.6	335	15.02	7.28	8.4	28.0	10.02	0.56	4.8	50	0.6	0.29	95	21.5	26.8	cl						
23.05.2019	18.81	7.09	22.1	288	516.0	374.7	289.4	26.72	12.82	5.9	340	16.42	7.35	8.0	22.0	10.01	0.17	3.5	50	0.7	0.24	95			cl						
24.05.2019	16.92	7.19	26.2	294	500.0	352.1	274.6	26.64	14.92	5.9	335	14.25	7.45	9.0	26.0	10.20	0.56	5.1	55	0.5	0.31	95	21.7	27.2	cl						
25.05.2019	05.56	7.2	25.8	294	516.0	359.7	287.2	21.92	20.4	5.7	345	12.91	7.51	8.4	24.0	10.10	0.56	5.9	50	0.6	0.37	95			cl						
26.05.2019	13.85	7.16	29.2	294	604.0	362.3	281.5	26.32	12.36	5.9	340	12.03	7.26	8.4	28.0	10.12	0.56	5.1	45	0.4	0.41	90			cl						
27.05.2019	18.71	7.01	27.9	206.0	624.0	359.7	273.3	27.12	20.42	5.5	330	16.88	7.28	9.0	26.0	10.10	0.56	5.7	45	0.7	0.46	95	19.6	26.1	cl						
28.05.2019	06.97	7.18	24.1	288	648.0	362.3	288.9	27.12	21.63	5.8	340	4.71	7.46	8.4	28.0	10.10	0.56	6.1	50	0.9	0.42	80			cl						
29.05.2019	10.95	7.21	25.1	294	608.0	359.7	289.4	27.68	23.52	5.5	335	6.8	7.85	9.0	22.0	10.12	0.56	5.8	55	0.5	0.49	85	19.81	27.0	cl						
30.05.2019	16.43	7.18	26.3	294	588.0	370.3	288.8	27.12	23.8	4.8	330	14.32	7.78	9.0	24.0	10.11	0.56	5.2	50	0.6	0.50	90			cl						
31.05.2019	08.04	7.09	26.2	298	564.0	384.7	218.6	27.4	24.6	5.1	340	04.41	7.64	8.4	22.0	10.20	0.56	5.4	55	0.7	0.38	90	22.2	25.9	cl						
Cumulative flow	MLD											MLD																			
Average flow	MLD											MLD																			
Peak inlet flow	MLD											MLD																			

KEC - WATERLEAU (IV)

[Signature]
PLANT CHEMIST

[Signature]
PLANT MANAGER

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

[Signature]
ASSISTANT ENGINEER

[Signature]
ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE

KEC WATERLEAU

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS
FLOW AND LAB ANALYSIS REPORT for the month of June - 2019.

Date	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE		
	Aug. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks
Range	20	6.5-7.5	24-27	350	800	450	380	20	45	7	370	20	6.5-8	5.55	4.750	530	42	410	470	41	1	200	2157	215 N	
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml			
01.06.2019	06.94	7.11	24.9	294	516.0	276.3	244.4	31.3	23.51	5.9	335	04.53	7.85	5.4	46.0	10.15	0.56	6.1	50	0.7	0.34	85			cl
02.06.2019	11.41	7.1	24.4	294	588.0	361.3	341.2	31.34	23.5	5.4	340	01.54	7.45	7.0	42.0	10.10	0.56	6.4	50	0.6	0.30	90			cl
03.06.2019	18.91	7.08	24.4	300	592.0	364.9	350.9	31.64	25.1	5.2	330	16.91	7.41	7.8	89.0	10.10	0.28	5.0	45	0.5	0.31	95			cl
04.06.2019	17.24	7.61	26.1	288	596.0	352.1	344.6	32.2	24.34	5.6	340	5.66	7.05	8.4	84.0	10.20	0.28	4.2	50	0.7	0.32	80			cl
05.06.2019	20.20	7.25	24.6	294	580.0	364.9	342.3	31.92	24.16	5.6	335	07.31	7.32	8.4	76.0	10.05	0.56	5.4	55	0.6	0.31	85			cl
06.06.2019	19.01	7.39	26.3	300	596.0	354.1	341.3	31.34	24.44	5.4	330	05.32	7.16	7.0	88.0	10.02	0.56	6.1	50	0.5	0.36	80	19.6	21.1	cl
07.06.2019	19.34	6.81	29.4	311	821.0	340.3	285.1	31.39	24.44	5.3	345	3.14	7.49	8.4	84.0	10.03	0.56	5.4	55	0.5	0.38	75			cl
08.06.2019	18.41	7.16	25.6	300	580.0	354.6	265.9	31.16	22.56	5.9	330	2.75	7.44	7.0	84.0	10.03	0.56	5.4	55	0.5	0.38	75			cl
09.06.2019	19.39	7.21	26.8	294	624.0	352.1	341.1	30.52	24.64	5.9	335	2.54	7.08	7.0	80.0	10.10	0.56	5.6	50	0.6	0.41	70			cl
10.06.2019	20.35	7.02	26.9	300	600.0	354.6	269.4	34.42	26.36	6.2	330	8.96	7.68	7.0	80.0	10.10	0.28	5.1	50	0.7	0.34	80			cl
11.06.2019	22.47	6.84	25.8	300	620.0	361.3	345.3	34.44	26.6	5.9	335	6.63	7.41	7.0	89.0	10.05	0.56	4.8	55	0.6	0.31	90			cl
12.06.2019	20.46	6.92	26.4	304	608.0	344.9	274.3	33.2	24.08	5.7	335	3.59	7.61	8.4	88.0	10.10	0.28	5.0	50	0.5	0.36	95	20.2	26.4	cl
13.06.2019	16.09	7.96	28.4	306	840.0	342.1	263.9	32.2	27.6	6.2	345	0.16	7.54	7.0	88.0	10.20	0.56	6.1	55	0.5	0.32	80			cl
14.06.2019	9.22	7.99	26.8	300	856.0	349.6	265.6	34.2	28.2	5.9	345	0.28	7.55	7.0	104.0	10.04	0.2	6.4	55	0.6	0.54	85			cl
15.06.2019	3.30	6.4	28.1	304	788.0	354.6	273.0	34.4	27.2	6.0	340	0.34	7.51	8.4	96.0	10.05	0.7	7.2	55	0.7	0.42	95	21.5	27.6	cl
16.06.2019	9.06	7.16	27.4	258	772.0	344.3	272.3	34.4	27.16	6.1	335	0.42	7.44	8.4	88.0	10.20	0.56	6.4	55	0.8	0.41	90			cl
17.06.2019	17.35	6.92	26.4	300	768.0	364.9	274.3	34.8	28.54	5.8	340	0.29	7.09	8.4	92.0	10.10	0.84	6.2	50	0.7	0.40	80			cl
18.06.2019	15.02	6.82	23.8	312	1140.0	520.3	270.8	51.82	34.42	6.4	350	0.44	7.68	7.0	96.0	10.13	0.7	6.6	55	0.6	0.35	85			cl
19.06.2019	18.04	7.10	26.2	294	592.0	344.4	285.4	34.4	26.8	5.5	335	0.59	7.69	7.0	88.0	10.10	0.56	6.9	50	0.7	0.29	85	19.8	26.1	cl
20.06.2019	11.45	7.05	26.4	300	568.0	344.8	268.9	41.16	29.4	4.1	330	1.46	7.88	8.4	92.0	10.12	0.7	4.4	50	0.5	0.28	90			cl
21.06.2019	12.81	7.4	29.4	294	592.0	330.5	251.5	34.4	27.2	4.6	340	0.25	7.85	8.4	92.0	10.05	0.7	5.8	55	0.6	0.21	75			cl
22.06.2019	11.15	7.26	25.5	300	580.0	312.5	252.5	30.5	24.9	5.2	345	0.64	7.79	7.0	88.0	10.20	0.7	6.0	60	0.7	0.33	70			cl
23.06.2019	11.63	6.69	22.4	312	992.0	324.8	249.1	54.51	41.44	7.2	345	0.78	7.58	7.0	100.0	10.10	0.7	6.8	50	0.8	0.36	90			cl
24.06.2019	17.21	7.02	25.8	294	696.0	310.0	241.8	41.16	27.96	4.0	335	2.64	7.89	7.0	88.0	10.11	0.56	5.2	50	0.5	0.46	95	20.2	27.6	cl
25.06.2019	16.92	7.18	28.1	300	588.0	314.9	241.4	35.18	26.32	5.1	335	2.86	7.91	8.4	89.0	10.05	0.7	4.8	55	0.6	0.51	95			cl
26.06.2019	15.45	7.12	24.9	300	612.0	312.5	272.5	31.48	27.6	5.1	340	3.55	7.54	7.0	89.0	10.10	0.56	4.6	50	0.6	0.46	80			cl
27.06.2019	16.83	7.12	24.9	294	608.0	314.9	237.3	31.64	27.16	5.5	335	4.24	7.92	7.0	89.0	10.20	0.7	4.7	60	0.4	0.31	85			cl
28.06.2019	14.02	7.18	24.8	294	628.0	310.0	241.8	30.24	26.88	5.6	340	2.46	7.41	8.4	92.0	10.05	0.56	4.4	55	0.6	0.44	90	19.5	27.2	cl
29.06.2019	16.74	6.99	26.1	288	632.0	314.9	239.3	30.25	27.16	4.4	330	5.38	7.8	8.0	88.0	10.02	0.56	5.0	50	0.5	0.41	80			cl
30.06.2019	14.39	7.21	24.9	252	588.0	330.5	251.1	28.22	24.76	5.5	345	5.48	7.85	8.4	88.0	10.51	0.56	5.1	55	0.6	0.52	85			cl
Cumulative flow				MLD												MLD									
Average flow				MLD												MLD									
Peak inlet flow				MLD												MLD									
KEC - WATERLEAU (JV)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD													
PLANT CHEMIST												ASSISTANT ENGINEER												ASSISTANT EXECUTIVE ENGINEER	

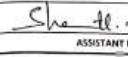


BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Oct-2019

Inlet Parameters													Outlet Parameters													DEWATERED SLUDGE			
Parameters	Avg. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₂ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks				
Range	20	6.5-7.5	24-27	350	800	450	300	70	45	7	320	20	6.5-8	<15	<250	<30	<5	<10	>20	<5	1	200	15%	<5%					
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml		%					
01.10.2019	20.01	7.16	25.1	192	516.0	253.0	221.0	33.04	24.01	4.1	320	13.77	7.34	6.6	48.0	8.0	0.42	4.8	60	0.4	0.48	55			OK				
02.10.2019	20.11	7.16	25.9	210	519.0	248.0	204.6	33.04	25.48	3.8	330	13.84	7.58	7.8	52.0	10.0	0.42	5.3	55	0.5	0.37	55			OK				
03.10.2019	20.00	7.07	26.5	204	516.0	308.0	240.2	33.04	24.64	4.8	315	13.61	7.31	7.2	52.0	8.0	0.23	4.6	60	0.4	0.41	45	20.1	26.5	OK				
04.10.2019	16.82	7.59	25.4	216	943.0	216.0	209.4	33.6	25.36	6.4	340	8.58	7.31	7.8	56.0	8.0	0.42	4.2	60	0.4	0.46	55			OK				
05.10.2019	20.10	7.65	25.1	192	532.0	248.0	193.4	33.47	24.41	5.7	325	6.35	7.54	7.2	56.0	10.0	0.56	5.1	60	0.4	0.4	55	19.3	22.1	OK				
06.10.2019	20.10	7.33	26.5	204	516.0	340.0	258.1	32.48	24.92	4.0	344	8.94	7.54	7.2	57.0	10.0	0.56	4.8	60	0.3	0.36	45			OK				
07.10.2019	20.01	7.24	25.4	193	519.0	348.0	261.7	33.64	25.36	4.2	325	6.01	7.47	7.8	56.0	8.0	0.42	5.2	55	0.3	0.4	55			OK				
08.10.2019	20.10	7.33	25.4	193	568.0	386.0	262.0	33.04	25.36	5.0	330	7.19	7.48	7.8	52.0	10.0	0.56	4.2	55	0.4	0.46	45			OK				
09.10.2019	20.10	7.37	25.4	204	564.0	348.0	271.4	32.47	25.20	5.4	335	7.45	7.22	7.2	56.0	8.0	0.42	5.0	65	0.4	0.42	45	19.9	25.8	OK				
10.10.2019	18.90	7.44	25.3	193	519.0	349.0	264.9	32.48	24.82	4.4	320	8.23	7.34	7.2	56.0	10.0	0.38	4.2	60	0.4	0.32	50			OK				
11.10.2019	20.00	7.68	25.3	204	508.0	340.0	261.3	34.18	25.36	5.3	325	7.44	7.48	7.8	52.0	8.0	0.42	4.2	65	0.4	0.30	45	19.5	27.2	OK				
12.10.2019	19.43	7.76	25.0	216	744.0	376.0	304.7	32.6	22.18	5.7	340	5.22	7.32	7.8	48.0	10.0	0.42	4.2	65	0.4	0.27	50			OK				
13.10.2019	19.11	7.35	25.6	218	726.0	336.0	255.3	33.6	24.16	6.6	335	6.99	7.48	7.8	56.0	10.0	0.42	4.0	55	0.5	0.31	75			OK				
14.10.2019	20.10	7.15	25.9	222	676.0	272.0	221.8	37.36	24.54	6.3	340	9.51	7.34	7.8	56.0	8.0	0.28	3.8	60	0.5	0.3	65			OK				
15.10.2019	19.86	7.55	25.2	228	648.0	288.0	213.3	41.4	23.56	5.6	325	7.65	7.61	7.2	64.0	8.0	0.28	3.2	65	0.6	0.18	75	19.5	27.1	OK				
16.10.2019	19.74	7.58	25.4	229	632.0	276.0	233.8	38.3	24.16	6.4	350	6.48	7.62	7.2	60.0	8.0	0.42	4.2	65	0.4	0.31	70	19.9	28.4	OK				
17.10.2019	19.50	7.41	25.4	222	564.0	304.0	234.0	35.38	25.36	5.9	315	6.02	7.28	7.8	64.0	10.0	0.42	3.1	55	0.4	0.27	75			OK				
18.10.2019	19.40	7.54	25.5	228	566.0	272.0	235.0	36.34	24.16	4.9	320	8.45	7.62	7.8	60.0	8.0	0.56	3.3	60	0.3	0.22	75	20.2	20.4	OK				
19.10.2019	0.34	7.49	25.2	210	532.0	300.0	238.0	35.38	25.48	4.9	330	1.61	7.68	7.8	60.0	10.0	0.42	4.2	60	0.4	0.24	75			OK				
20.10.2019	0.0	-	-	-	-	-	-	-	-	-	-	-	7.12	7.40	7.2	64.0	8.0	0.42	4.8	60	0.5	0.27	80			OK			
21.10.2019	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.6	28.1	OK				
22.10.2019	1.66	7.38	25.4	198	576.0	328.0	246.0	34.42	24.36	4.0	335	-	-	-	-	-	-	-	-	-	-	-	-	-	OK				
23.10.2019	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	OK				
24.10.2019	0.24	7.61	26.9	216	426.0	276.0	222.0	37.6	22.92	3.6	310	0.76	7.39	7.2	52.0	12.0	0.42	3.8	60	0.4	-	80	18.4	22.6	OK				
25.10.2019	0.0	-	-	-	-	-	-	-	-	-	-	0.08	-	-	-	-	-	-	-	-	-	-	-	-	OK				
26.10.2019	6.64	6.44	25.8	728	716.0	344.0	269.9	45.39	35.38	6.4	345	0.17	-	-	-	-	-	-	-	-	-	-	-	-	OK				
27.10.2019	13.97	7.99	25.9	222	781.0	352.0	264.0	44.8	34.16	6.9	340	0.0	-	-	-	-	-	-	-	-	-	-	19.7	28.1	OK				
28.10.2019	14.10	7.54	25.6	234	688.0	304.0	234.0	38.6	28.56	6.9	330	0.16	-	-	-	-	-	-	-	-	-	-	-	-	OK				
29.10.2019	9.17	7.19	25.3	240	752.0	340.0	255.0	36.4	28.0	6.8	335	0.3	-	-	-	-	-	-	-	-	-	-	-	-	OK				
30.10.2019	7.68	7.86	25.3	240	856.0	340.0	285.2	44.2	32.2	6.7	345	0.19	-	-	-	-	-	-	-	-	-	-	21.1	28.0	OK				
31.10.2019	10.44	7.8	26.4	240	720.0	312.0	243.7	45.36	34.41	6.5	340.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK				
Cumulative Flow		MLD											MLD																
Average flow		MLD											MLD																
Peak Inlet flow		MLD											MLD																
KEC - WATERLEAU (JV)													BANGALORE WATER SUPPLY AND SEWERAGE BOARD																
PLANT CHEMIST													ASSISTANT ENGINEER																
PLANT MANAGER													ASSISTANT EXECUTIVE ENGINEER																

BANGALORE WATER SUPPLY AND SEWERAGE BOARD																									
20 MLD SEWAGE TREATMENT PLANT - DODDABELE																									
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS																									
FLOW AND LAB ANALYSIS REPORT for the month of <u>NOV-2019</u>																									
Inlet Parameters													Outlet Parameters										DEWATERED SLUDGE		
Parameters	Avg. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks
Range	20	6.5-7.5	24-27	300	800	450	380	70	45	7	320	20	6.5-8	5-15	4-250	≤ 30	≤ 8	≤ 10	≥ 70	≤ 1	≤ 200	MPN/100ml	≤ 15%	≥ 75%	
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	%	%	
01.11.2019	20.00	6.71	28.2	252	1069.0	326.0	285.2	48.16	38.64	7.9	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
02.11.2019	20.05	7.56	28.1	252	889.0	356.0	280.5	44.8	33.09	6.6	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
03.11.2019	15.59	7.83	27.5	264	716.0	336.0	252.0	45.91	35.9	6.8	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
04.11.2019	9.20	6.71	26.8	240	732.0	348.0	264.4	45.21	34.51	7.1	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
05.11.2019	11.24	7.93	27.9	240	720.0	352.0	274.5	47.04	38.03	7.1	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
06.11.2019	8.40	7.11	27.3	264	708.0	342.0	279.0	47.04	39.43	6.9	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
07.11.2019	5.78	7.02	28.6	276	744.0	380.0	272.4	44.14	35.38	7.3	355	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
08.11.2019	5.62	7.48	28.7	240	716.0	340	273.4	43.11	36.12	6.1	340	1.42	7.16	7.8	64.0	12.0	0.92	5.7	65	0.6	0.3	90	-	-	OK
09.11.2019	9.30	7.86	27.9	252	740.0	372.0	286.4	42.0	34.4	6.6	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
10.11.2019	9.14	7.30	26.4	276	704.0	380.0	276.1	52.08	40.04	7.4	360	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
11.11.2019	4.26	7.58	25.8	264	732.0	360.0	276.4	39.46	34.2	6.9	340	0.31	7.42	8.4	68.0	14.0	0.56	4.8	60	0.4	-	95	-	-	OK
12.11.2019	1.80	7.62	26.7	240	732.0	360.0	279.4	42.68	33.2	6.2	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
13.11.2019	5.61	7.46	26.2	258	716.0	352.0	276.0	42.0	31.36	5.4	385	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
14.11.2019	6.94	7.61	25.2	256	732.0	340.0	253.4	39.2	29.56	5.8	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
15.11.2019	4.63	7.36	25.1	276	740.0	344.0	268.3	45.91	34.14	6.2	340	2.01	7.62	8.4	72.0	14.0	0.4	5.7	60	0.4	0.36	95	-	-	OK
16.11.2019	5.52	7.12	27.3	264	804.0	356.0	279.1	41.56	36.11	6.1	325	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
17.11.2019	10.00	7.48	28.3	258	740.0	368.0	264.4	42.0	36.11	7.1	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
18.11.2019	7.49	7.31	28.7	258	724.0	360.0	274.8	41.56	36.68	6.8	335	1.85	7.59	8.4	68.0	16.0	0.84	5.9	65	0.6	0.3	85	-	-	OK
19.11.2019	5.43	7.19	27.5	264	740.0	352.0	274.5	39.46	35.81	6.4	340	1.52	7.62	7.8	60.0	14.0	0.4	5.6	60	0.8	0.27	95	-	-	OK
20.11.2019	2.98	7.28	27.1	258	732.0	340.0	261.3	40.21	34.11	6.8	335	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
21.11.2019	6.84	7.25	27.8	258	716.0	384.0	274.4	42.68	38.34	6.6	345	1.84	7.64	7.8	64.0	14.0	0.56	3.4	60	0.5	0.14	105	21.3	77.6	OK
22.11.2019	5.64	7.35	26.1	228	656.0	264.0	276.4	38.46	33.3	6.8	335	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
23.11.2019	3.11	7.37	26.4	240	740.0	360.0	274.5	42.0	35.2	6.2	320	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
24.11.2019	2.63	7.18	27.3	234	640.0	348.0	261.0	41.44	33.3	6.6	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
25.11.2019	2.44	7.36	26.9	240	716.0	356.0	274.1	41.56	33.6	6.8	345	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
26.11.2019	1.38	7.35	27.4	228	640.0	344.0	268.3	41.0	34.42	6.4	335	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
27.11.2019	0.72	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
28.11.2019	0.5	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
29.11.2019	0.20	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
30.11.2019	3.64	7.61	28.2	228	740.0	356.0	264.0	44.24	38.6	6.9	340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	OK
Cumulative Flow													MLD												
Average Flow													MLD												
Peak Inlet Flow													MLD												
KEC - WATERLEAU (JV)													BANGALORE WATER SUPPLY AND SEWERAGE BOARD												
 PLANT CHEMIST													 ASSISTANT ENGINEER										 ASSISTANT EXECUTIVE ENGINEER		



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Feb-2020

WASTE WATER ANALYSIS REPORT for the month of Feb - 2020																										
Inlet Parameters													Outlet Parameters										DEWATERED SLUDGE			
Date	Aug. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks	
Parameter	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	g/g			
01.02.2020	15.82	7.11	26.8	234	476.0	332.0	255.4	53.2	37.48	5.1	320	7.18	7.42	6.0	44.0	4.0	0.42	2.9	140	0.6	0.3	60			cl 2.5	
02.02.2020	18.01	7.16	26.4	219	419.0	340.0	252.4	44.2	33.3	5.5	315	7.91	7.57	7.1	44.0	8.0	0.28	3.1	125	0.4	0.4	60			cl 2.5	
03.02.2020	19.01	7.30	26.4	240	488.0	328.0	252.5	45.7	35.2	6.2	310	11.30	7.69	7.8	48.0	6.0	0.56	4.0	135	0.7	0.4	55	18.3	#1	cl 2.5	
04.02.2020	17.24	7.11	26.9	258	452.0	316.0	240.1	44.9	33.01	5.6	325	11.49	7.67	8.4	48.0	4.0	0.56	3.6	130	0.6	0.4	50			cl 2.5	
05.02.2020	20.01	7.36	26.1	240	526.0	309.0	251.1	41.4	33.32	6.2	315	11.42	7.57	6.6	56.0	6.0	0.56	3.3	110	0.6	0.3	80			cl 2.5	
06.02.2020	20.04	7.33	25.9	246	648.0	326.0	247.4	44.8	34.34	5.1	315	9.29	7.69	7.2	48.0	8.0	0.28	2.9	115	0.4	0.3	70			cl 2.5	
07.02.2020	19.54	7.58	25.7	246	552.0	244.8	213.0	34.34	31.68	5.2	310	13.01	7.64	7.8	44.0	8.0	0.56	2.6	105	0.6	0.4	65	12.4	#1	cl 2.5	
08.02.2020	19.34	7.44	26.4	251	856.0	288.0	248.9	48.36	45.36	4.8	300	13.16	7.63	8.4	52.0	6.0	0.38	2.4	110	0.5	0.2	80			cl 2.5	
09.02.2020	20.00	7.19	24.1	264	822.0	356.0	249.1	51.12	43.12	6.6	310	8.35	7.66	7.2	52.0	8.0	0.56	4.2	105	0.5	0.3	75			cl 2.5	
10.02.2020	19.34	7.19	25.4	264	736.0	324.0	246.1	45.36	30.8	5.0	310	10.34	7.64	8.4	52.0	8.0	0.56	5.6	100	0.6	0.4	80	21.0	#6.4	cl 2.5	
11.02.2020	13.00	6.31	26.4	253	912.0	328.0	249.1	54.38	45.36	6.1	310	5.81	7.58	7.2	52.0	6.0	0.56	3.4	105	0.5	0.2	75			cl 2.5	
12.02.2020	7.31	6.38	26.3	251	826.0	326.0	258.3	55.4	47.6	5.7	315	8.80	7.46	7.2	48.0	8.0	0.56	2.6	105	0.5	0.2	70	19.6	#3.8	cl 2.5	
13.02.2020	8.43	7.11	26.4	264	908.0	322.0	253.1	49.2	34.2	6.2	335	1.93	7.64	7.2	48.0	8.0	0.56	3.3	110	0.6	0.2	80			cl 2.5	
14.02.2020	15.11	7.19	26.4	258	1148.0	316.0	261.0	45.36	38.08	6.4	335	7.18	7.64	6.6	48.0	6.0	0.38	2.9	110	0.5	0.3	80	17.3	#2.0	cl 2.5	
15.02.2020	10.35	7.09	25.3	264	604.0	348.0	264.9	48.16	32.11	6.0	310	5.64	7.58	7.2	48.0	8.0	0.56	3.0	115	0.4	0.3	80			cl 2.5	
16.02.2020	19.31	7.21	26.1	270	856.0	336.0	258.3	44.2	34.16	4.8	315	11.66	7.59	7.2	48.0	8.0	0.56	2.2	105	0.5	0.2	70			cl 2.5	
17.02.2020	14.14	7.29	25.3	270	636.0	348.0	264.9	48.16	35.04	5.2	320	6.93	7.66	7.2	52.0	6.0	0.28	3.6	115	0.6	0.3	75			cl 2.5	
18.02.2020	11.41	7.06	26.1	258	756.0	348.0	264.9	49.16	41.4	6.3	340	6.07	7.48	7.2	40.0	8.0	0.56	3.6	120	0.6	0.2	80			cl 2.5	
19.02.2020	9.93	7.39	26.2	270	516.0	340.0	253.1	32.4	28.2	5.1	315	6.53	7.64	7.2	40.0	6.0	0.28	2.6	105	0.6	0.2	85			cl 2.5	
20.02.2020	9.15	7.81	26.0	270	568.0	344.0	264.9	40.34	27.08	6.8	310	8.78	7.60	6.6	44.0	6.0	0.56	3.2	110	0.5	0.3	70			cl 2.5	
21.02.2020	11.11	7.13	26.0	258	446.0	336.0	255.3	38.6	26.8	5.9	310	8.31	7.65	7.2	40.0	6.0	0.28	3.2	110	0.6	0.2	80	13.7	#1.2	cl 2.5	
22.02.2020	10.09	7.25	26.4	270	644.0	332.0	255.6	40.2	32.4	5.1	320	5.20	7.42	7.2	48.0	8.0	0.56	2.9	105	0.6	0.2	80			cl 2.5	
23.02.2020	9.90	7.69	25.6	264	708.0	340.0	261.8	38.6	26.8	6.6	330	6.01	7.44	6.6	40.0	6.0	0.28	3.6	110	0.6	0.2	85			cl 2.5	
24.02.2020	9.93	7.39	26.2	270	516.0	340.0	253.1	32.4	28.2	5.1	315	5.79	7.61	7.2	36.0	8.0	0.56	3.6	115	0.5	0.3	80	16.8	#3.6	cl 2.5	
25.02.2020	9.09	7.44	26.3	270	526.0	314.0	264.9	35.8	28.1	5.9	335	5.05	7.64	7.2	40.0	6.0	0.28	3.9	105	0.6	0.3	85	15.3	#3.9	cl 2.5	
26.02.2020	9.12	7.66	25.3	270	604.0	316.0	245.7	40.34	28.9	7.6	320	5.00	7.60	7.8	44.0	6.0	0.56	4.9	110	0.6	0.2	80			cl 2.5	
27.02.2020	5.12	7.18	26.3	264	488.0	324.0	246.1	41.56	35.8	5.1	310	3.41	7.64	7.2	44.0	8.0	0.28	2.6	110	0.6	0.2	90			cl 2.5	
28.02.2020	5.12	7.18	25.7	251	404.0	310.0	261.8	28.12	24.9	4.2	310	2.82	7.51	7.8	40.0	6.0	0.56	4.6	115	0.6	0.3	80			cl 2.5	
29.02.2020	2.12	7.48	26.8	240	408.0	344.0	264.9	35.8	27.68	5.0	315	2.19	7.58	7.1	48.0	6.0	0.56	4.8	110	0.6	0.2	85	21.6	#2.0	cl 2.5	
Cumulative flow													MLD													
Average flow													MLD													
Peak Inlet flow													MLD													
RAJAGOPAL WASTE WATER SUPPLY AND SEWERAGE BOARD																										

Plant Chemist: *[Signature]* Plant Manager: *[Signature]* Assistant Engineer: *[Signature]* Assistant Executive Engineer: *[Signature]*



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Mar-2020

Inlet Parameters														Outlet Parameters														DEWATERED SLUDGE			
Parameters	Avg. Daily Flow	pH	Temp	BOD	COO	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COO	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Moisture %	Yield %	Remarks					
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	370	20	6.5-8	5-15	5-250	<30	<5	<10	>20	<1	<100	15%	75%								
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	%	%								
01.03.2020	3.74	7.32	24.7	22.8	424.0	850.0	558.4	33.0	25.4	4.0	310	2.41	7.69	7.1	36.0	6.0	0.18	5.6	105	0.6	0.2	80				OK					
02.03.2020	1.93	7.31	25.8	22.2	412.0	344.0	261.4	34.1	28.1	6.8	370	0.0	7.74	7.50	44.0	8.0	0.42	4.2	110	0.6	0.2	95				OK					
03.03.2020	0.71	7.28	26.1	25.8	596.0	388	398	45.9	33.3	6.6	330	0.0	7.65	6.60	40.0	8.0	0.55	4.6	110	0.6	0.3	90				OK					
04.03.2020	0.74	7.16	26.7	28.6	595.0	362.0	238.34	44.80	35.20	6.4	346	0.0	7.71	7.30	46.0	10.0	0.70	4.0	120	0.4	0.2	100				OK					
05.03.2020	0.82	7.22	25.5	27.6	602.0	360.0	233.20	61.0	33.01	6.7	360	0.0	7.65	7.20	44.0	10.0	0.42	3.90	125	0.5	0.2	110				OK					
06.03.2020	0.69	7.07	25.7	25.4	600.0	380.0	292.60	44.50	33.32	6.6	355	0.0	7.55	7.60	40.0	8.0	0.28	4.60	100	0.3	0.3	80				OK					
07.03.2020	1.04	7.07	26.3	27.6	628.0	388.0	294.58	34.32	34.71	5.8	330	0.02	7.44	7.20	36.0	6.0	0.24	5.1	105	0.6	0.22	95				OK					
08.03.2020	0.90	7.31	25.1	28.8	600.0	388.0	267.52	64.16	35.05	5.7	345	0.0	7.64	8.40	52.0	8.0	0.55	5.3	105	0.5	0.3	90				OK					
09.03.2020	0.70	7.25	26.8	29.6	644.0	376.0	298.16	53.12	45.35	5.9	350	0.0	7.74	7.50	44.0	8.0	0.42	4.8	120	0.4	0.2	100				OK					
10.03.2020	1.23	7.16	25.8	28.8	394.0	260.0	200.2	29.1	21.6	4.0	360	0.0	7.65	7.20	44.0	10.0	0.55	6.1	105	0.5	0.3	120				OK					
11.03.2020	1.03	7.65	26.9	28.5	596.0	384.0	291.84	34.71	30.30	6.4	365	0.0	7.49	9.20	40.0	12.0	0.70	4.4	120	0.6	0.2	145				OK					
12.03.2020	0.32	7.51	25.4	29.6	600.0	396.0	304.82	49.04	45.36	6.3	355	0.0	7.52	8.40	55.0	8.0	0.70	4.0	110	0.7	0.2	110				OK					
13.03.2020	0.78	7.22	25.9	29.2	644.0	316.0	263.23	44.80	49.50	5.9	340	0.0	7.49	9.40	52.0	6.0	0.42	3.3	120	0.5	0.2	100				OK					
14.03.2020	0.69	7.17	26.2	29.6	636.0	338.0	260.20	45.72	34.12	6.1	360	0.0	7.52	9.0	44.0	10.0	0.42	3.3	120	0.5	0.2	100				OK					
15.03.2020	0.47	7.20	25.9	27.6	638.0	344.0	264.88	45.36	35.05	6.0	340	0.0	7.49	8.40	40.0	8.0	0.42	4.1	105	0.6	0.2	95				OK					
16.03.2020	0.66	7.31	26.6	29.6	690.0	248.0	264.40	48.16	35.52	6.5	345	0.0	7.77	7.20	36.0	6.0	0.55	4.6	100	0.6	0.2	95				OK					
17.03.2020	0.60	7.21	28.1	29.6	644.0	380.0	292.60	46.48	35.60	6.2	350	0.0	7.36	7.50	44.0	8.0	0.70	4.5	120	0.8	0.3	90				OK					
18.03.2020	1.07	7.16	26.3	27.6	638.0	356.0	279.22	47.04	34.10	6.3	360	0.0	7.49	8.40	45.0	10.0	0.55	4.9	110	0.7	0.3	95				OK					
19.03.2020	1.06	7.19	27.7	27.2	582.0	366.0	281.82	40.20	23.80	5.9	395	0.0	7.47	7.90	55.0	12.0	0.55	5.3	115	0.6	0.2	100				OK					
20.03.2020	4.34	7.18	25.7	19.1	496.0	370.0	371.0	34.1	23.8	5.1	320	0.0	7.47	8.40	52.0	10.0	0.42	5.2	110	0.4	0.3	120				OK					
21.03.2020	12.41	7.13	26.1	21.0	531.0	302.0	231.1	36.4	26.8	5.2	315	9.52	7.64	9.0	64.0	12.0	0.50	5.2	105	0.7	0.1	140				OK					
22.03.2020	16.02	7.21	26.3	22.1	472.0	309.0	284.0	35.8	28.5	4.6	325	8.63	7.64	9.6	69.0	10.0	0.56	5.8	110	0.6	0.3	120	18.9	77.8		OK					
23.03.2020	15.01	7.14	24.4	21.6	516.0	276.0	224.9	35.28	28.78	5.9	315	6.95	7.76	9.0	60.0	12.0	0.54	5.1	100	0.5	0.2	140				OK					
24.03.2020	17.07	7.03	23.5	20.4	476.0	300.0	231.9	34.7	23.8	5.0	320	8.70	7.19	9.6	60.0	10.0	0.50	4.9	110	0.8	0.1	150				OK					
25.03.2020	13.89	7.19	25.7	19.1	440.0	312.0	234.0	34.1	26.8	5.5	320	9.09	7.64	8.4	56.0	11.0	0.56	5.0	105	0.6	0.2	130				OK					
26.03.2020	19.71	7.27	26.3	19.6	448.0	308.0	231.1	33.04	24.6	5.9	315	11.78	7.61	8.6	60.0	10.0	0.56	0.6	110	0.6	0.1	110	18.4	77.6		OK					
27.03.2020	20.03	7.09	26.4	20.4	448.0	324.0	249.9	34.1	25.20	4.9	315	8.73	7.44	8.0	64.0	8.0	0.41	5.1	100	0.7	0.2	120				OK					
28.03.2020	5.20	7.08	26.9	20.2	440.0	312.0	237.1	34.0	23.8	5.5	320	1.30	7.32	7.8	44.0	6.0	0.72	5.5	110	0.7	0.2	110	19.2	77.4		OK					
29.03.2020	16.44	7.10	27.0	21.6	446.0	300.0	228.0	45.7	25.6	5.2	315	10.76	7.39	8.2	46.0	8.0	0.42	4.0	115	0.6	0.3	95				OK					
30.03.2020	18.16	7.22	27.3	21.6	468.0	328.0	246.0	45.8	24.5	4.9	315	10.03	7.62	7.5	40.0	8.0	0.56	4.8	100	0.6	0.3	100	18.2	78.1		OK					
31.03.2020	20.27	7.19	27.5	19.6	454.0	316.0	240.1	40.3	24.8	5.0	320	12.73	7.44	6.8	44.0	6.0	0.42	5.8	105	0.5	0.2	105	19.2	77.0		OK					
Cumulative flow		MLD											MLD																		
Average flow		MLD											MLD																		
Peak inlet flow		MLD											MLD																		
KEC - WATERLEAU (IV)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD																			
PLANT CHEMIST												ASSISTANT ENGINEER												ASSISTANT EXECUTIVE ENGINEER							
PLANT MANAGER																															



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS



FLOW AND LAB ANALYSIS REPORT for the month of APRIL - 2020

Date	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE			
	Parameters	Aug. Daily flow	pH	Temp	BOD	COO	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COO	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Total Solids	TSS	Maximum Sludge VSS / TSS	Remarks
Unit		20	6.5-7.5	24-27	350	800	450	180	70	45	7	320	20	8.5-8	4-15	<250	5-30	5-15	<100	>70	<1	1	200	15%	75%	
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	kg/dry/1000		
01.04.2020	17.52	7.09	24.3	270	512.0	310.0	253.4	34.52	31.91	6.0	305	8.48	7.48	8.4	18.0	8.0	0.56	5.8	105	0.5	0.2	80	18.6	78.1	cl	2nd
02.04.2020	16.89	7.02	25.7	264	544	336	258.7	33.08	33.3	5.9	315	11.28	7.76	7.3	48.0	8.0	0.28	4.6	110	0.6	0.3	90			cl	2nd
03.04.2020	15.50	7.16	25.8	281	576	368	261.0	32.6	33.88	6.4	310	8.87	7.48	7.1	40.0	6.0	0.28	3.8	105	0.5	0.3	105	17.2	76.4	cl	2nd
04.04.2020	16.76	7.71	27.1	283	616	344	264.7	32.08	32.04	6.4	310	11.77	7.44	7.1	36.0	6.0	0.56	6.1	110	0.6	0.2	95	19.1	77.9	cl	2nd
05.04.2020	15.14	7.14	25.6	270	604	352	264.5	32.6	34.2	5.9	305	8.07	7.62	7.8	40.0	8.0	0.28	3.1	100	0.5	0.2	80			cl	2nd
06.04.2020	13.85	7.37	26.4	278	564	248	244.9	30.8	24.9	5.6	305	6.94	7.77	7.1	40.0	8.0	0.28	4.4	110	0.4	0.2	75			cl	2nd
07.04.2020	14.06	7.61	26.5	253	604	332	252.3	32.80	24.64	6.5	310	8.32	7.79	7.8	44.0	6.0	0.56	5.9	105	0.6	0.2	70	18.2	77.4	cl	2nd
08.04.2020	13.89	7.17	26.1	270	614	328	252.5	29.11	21.88	6.1	305	8.02	7.19	7.1	40.0	8.0	0.28	4.6	105	0.7	0.2	90	17.1	78.2	cl	2nd
09.04.2020	12.94	7.26	25.8	264	544	340	261.8	33.0	24.9	6.1	305	8.22	7.78	7.4	44.0	8.0	0.28	3.4	110	0.4	0.2	75			cl	2nd
10.04.2020	15.22	7.26	26.1	276	564	332	252.1	32.4	21.8	6.1	305	8.26	7.51	7.8	36.0	8.0	0.42	4.6	105	0.4	0.2	95	18.0	77.2	cl	2nd
11.04.2020	15.52	7.16	24.6	277	564	336	255.3	33.6	24.08	6.0	300	11.62	7.61	7.8	40.0	6.0	0.28	2.6	110	0.4	0.2	80			cl	2nd
12.04.2020	15.13	7.674	25.6	253	604	336	255.3	34.1	22.6	6.1	305	8.46	7.58	7.8	44.0	8.0	0.28	3.6	105	0.7	0.2	65	19.6	78.1	cl	2nd
13.04.2020	15.60	7.06	25.6	264	632	340	258.6	34.16	26.04	6.4	305	6.61	7.68	7.4	36.0	6.0	0.28	3.6	105	0.7	0.2	70			cl	2nd
14.04.2020	16.00	7.10	26.1	264	564	332	255.5	35.88	24.0	6.4	308	9.11	7.37	7.1	40.0	8.0	0.42	3.6	105	0.5	0.2	70			cl	2nd
15.04.2020	15.31	7.18	25.8	276	614	340	258.4	36.94	26.32	5.5	300	8.67	7.61	7.8	44.0	8.0	0.42	3.6	105	0.5	0.2	70			cl	2nd
16.04.2020	13.37	7.16	25.8	272	324	258.4	33.6	26.0	6.7	310	9.57	7.16	7.8	44.0	6.0	0.28	2.6	100	0.5	0.2	80	17.6	78.1	cl	2nd	
17.04.2020	15.45	7.10	26.1	276	644	332	269.0	41.5	25.4	5.9	310	10.12	7.29	7.8	40.0	6.0	0.42	2.6	105	0.6	0.2	60			cl	2nd
18.04.2020	16.03	7.16	25.1	276	644	336	255.3	38.08	25.1	6.1	305	9.29	7.44	7.8	36.0	8.0	0.28	3.3	105	0.6	0.2	70			cl	2nd
19.04.2020	15.27	7.07	25.3	282	604	340	258.4	33.6	21.3	6.1	305	9.29	7.44	7.8	36.0	8.0	0.28	3.3	105	0.6	0.2	70	18.6	76.2	cl	2nd
20.04.2020	15.44	7.11	26.1	276	684	344	266.3	39.7	26.8	5.6	305	9.74	7.42	7.1	40.0	8.0	0.42	2.6	105	0.6	0.2	80			cl	2nd
21.04.2020	16.07	7.08	25.9	270	648	318	252.5	29.7	33.3	6.6	300	9.21	7.27	7.8	44.0	8.0	0.18	4.1	105	0.4	0.2	80			cl	2nd
22.04.2020	13.74	7.56	25.7	270	592	332	255.6	36.9	15.8	6.7	310	6.24	7.42	7.4	40.0	8.0	0.56	5.6	110	0.5	0.2	70	18.1	78.0	cl	2nd
23.04.2020	15.78	7.09	26.5	278	636	336	268.7	35.88	26.9	5.9	310	9.22	7.62	7.8	36.0	8.0	0.28	2.9	105	0.5	0.2	90	19.6	77.1	cl	2nd
24.04.2020	14.14	7.98	25.7	258	624	344	264.8	38.03	24.88	6.6	315	9.03	7.57	7.8	40.0	6.0	0.28	4.7	110	0.7	0.2	80			cl	2nd
25.04.2020	15.21	7.21	25.6	264	600	312	231.1	36.94	24.08	6.1	310	10.01	7.67	7.1	36.0	6.0	0.42	4.0	105	0.5	0.2	70			cl	2nd
26.04.2020	15.05	7.42	25.8	276	588	304	231.0	25.8	24.9	6.0	305	9.55	7.41	7.4	44.0	8.0	0.28	3.2	100	0.4	0.2	75			cl	2nd
27.04.2020	14.24	7.86	24.1	272	644	284	213.6	38.08	29.7	6.9	315	7.45	7.51	7.1	36.0	6.0	0.56	3.2	105	0.6	0.2	65	18.2	77.6	cl	2nd
28.04.2020	14.64	7.12	24.8	264	638	294	219.0	29.1	28.8	6.7	320	7.88	7.61	7.8	40.0	8.0	0.28	4.0	100	0.4	0.2	75	18.3	77.0	cl	2nd
29.04.2020	14.35	7.16	24.1	272	276	234.9	40.9	27.4	6.1	315	8.41	7.66	7.1	44.0	8.0	0.42	4.6	100	0.4	0.2	80	18.0	77.2	cl	2nd	
30.04.2020	15.62	7.35	25.7	276	680	288	216.9	32.6	24.1	6.4	305	9.26	7.61	7.8	36.0	6.0	0.28	2.7	105	0.6	0.2	80			cl	2nd

Cumulative flow	MLD												MLD														
Average flow	MLD												MLD														
Peak inlet flow	MLD												MLD														

KEC - WATERLEAU (JV) BANGALORE WATER SUPPLY AND SEWERAGE BOARD

[Signature] *[Signature]* *[Signature]*
PLANT CHEMIST PLANT MANAGER ASSISTANT ENGINEER

[Signature] *[Signature]*
ASSISTANT EXECUTIVE ENGINEER



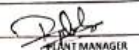
BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS



FLOW AND LAB ANALYSIS REPORT for the month of May 2020

Inlet Parameters													Outlet Parameters													DEWATERED SLUDGE		Remarks	
Parameters	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS					
Range	20	6.5-7.5	24-27	350	800	450	380	20	45	7	310	20	6.8-8	5-15	5-250	5-30	5-15	5-10	2-70	5-1	5-200	15-20	15-25						
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%					
01.05.2020	15.30	7.09	26.4	288	572	308	251	39.2	29.1	6.5	315	7.96	7.48	7.2	141.0	8.0	0.42	3.0	110	0.4	0.2	80	15.2	15.2	OK				
02.05.2020	15.00	7.14	25.8	240	648	316	260	38.6	20.5	6.2	310	9.61	7.61	7.4	36.0	6.0	0.39	2.9	105	0.4	0.3	75	14.7	14.7	OK				
03.05.2020	15.00	7.14	26.7	240	644	312	251	39.7	20.2	6.0	318	9.94	7.75	7.1	36.0	8.0	0.38	4.2	110	0.6	0.2	65			OK				
04.05.2020	13.95	7.11	25.6	246	580	304	231.0	38.08	30.5	5.8	305	8.81	7.64	8.4	44.0	6.0	0.38	7.8	105	0.4	0.2	80	13.1	13.1	OK				
05.05.2020	15.24	7.38	26.4	281	516	256	194.1	39.1	31.3	5.2	335	8.43	7.54	7.1	33.0	6.0	0.42	2.9	115	0.4	0.2	80			OK				
06.05.2020	15.51	7.18	26.3	264	496	246	211.5	38.03	30.2	4.6	305	6.48	7.44	6.6	32.0	6.0	0.38	3.3	115	0.4	0.31	70	19.5	19.5	OK				
07.05.2020	10.35	7.39	25.8	264	414	240	182.4	39.1	31.9	4.7	330	7.58	7.55	6.6	31.0	5.0	0.42	3.8	120	0.4	0.21	80	18.9	18.9	OK				
08.05.2020	5.35	7.46	27.4	240	432	288	216.0	38.6	31.0	4.6	310	4.14	7.65	7.1	36.0	6.0	0.42	3.2	120	0.5	0.27	80			OK				
09.05.2020	5.68	7.33	26.9	264	404	246	209.4	38.6	30.2	5.2	325	4.55	7.52	7.3	32.0	4.0	0.38	3.3	125	0.5	0.21	75			OK				
10.05.2020	6.13	7.39	26.4	264	432	280	210.0	39.4	31.3	4.6	315	6.02	7.51	7.3	32.0	6.0	0.42	3.2	125	0.5	0.25	85			OK				
11.05.2020	3.88	7.41	27.4	240	410	276	208.9	38.5	30.52	5.4	315	3.04	7.63	6.0	36.0	4.0	0.21	2.8	130	0.4	0.25	75	19.6	19.6	OK				
12.05.2020	7.03	7.51	27.4	240	436	284	218.4	39.1	31.9	4.9	320	2.43	7.62	6.6	32.0	6.0	0.29	2.8	135	0.5	0.23	80			OK				
13.05.2020	10.00	7.42	26.9	264	408	276	226.9	39.4	32.4	4.9	310	6.44	7.63	7.1	36.0	4.0	0.42	3.2	130	0.5	0.21	75			OK				
14.05.2020	17.85	7.16	26.4	240	416	280	210.6	39.4	32.88	4.9	330	6.89	7.56	7.1	32.0	6.0	0.29	3.6	130	0.6	0.33	75	20.2	20.2	OK				
15.05.2020	8.25	7.44	26.4	264	404	252	194.0	38.5	32.2	4.9	330	7.05	7.61	6.6	36.0	4.0	0.29	4.0	135	0.6	0.30	80			OK				
16.05.2020	10.31	7.38	26.3	264	414	244	184.8	39.1	32.0	5.2	315	9.18	7.62	7.1	32.0	4.0	0.42	4.2	130	0.4	0.18	70	19.6	19.6	OK				
17.05.2020	8.57	7.49	27.4	246	408	240	182.4	38.03	30.5	5.5	320	5.48	7.64	7.1	36.0	4.0	0.28	2.6	125	0.4	0.24	85			OK				
18.05.2020	13.12	7.33	26.3	234	386	256	194.1	38.08	30.38	4.0	300	11.90	7.66	7.1	40.0	4.0	0.42	3.4	130	0.5	0.22	80	20.6	20.6	OK				
19.05.2020	13.40	7.39	27.1	248	424	268	206.2	38.08	30.00	5.3	335	10.38	7.62	7.3	32.0	4.0	0.42	4.0	135	0.6	0.23	80			OK				
20.05.2020	13.68	7.44	26.4	246	416	246	201.1	38.96	30.4	5.5	325	11.34	7.81	8.4	32.0	6.0	0.28	3.6	140	0.5	0.17	75	20.4	20.4	OK				
21.05.2020	13.46	7.38	27.1	246	416	244	210.6	38.08	30.03	6.3	320	11.59	7.63	7.1	32.0	8.0	0.28	4.0	140	0.4	0.21	75			OK				
22.05.2020	13.01	7.41	26.9	240	564	246	209.4	39.4	30.5	6.4	315	9.92	7.63	8.4	32.0	6.0	0.52	2.9	125	0.4	0.21	70	19.8	19.8	OK				
23.05.2020	13.32	7.39	26.1	240	520	246	206.4	39.1	30.18	5.4	310	10.11	7.64	7.8	40.0	9.0	0.28	3.2	130	0.6	0.13	75	18.1	18.1	OK				
24.05.2020	8.92	7.38	27.4	248	546	246	211.5	38.6	30.4	5.2	310	3.61	7.49	7.8	44.0	10.0	0.28	4.4	125	0.5	0.22	85			OK				
25.05.2020	14.24	7.48	26.4	264	560	288	213.3	39.4	31.1	5.9	330	11.56	7.63	7.8	48.0	10.0	0.42	2.8	135	0.6	0.31	80			OK				
26.05.2020	8.19	7.29	26.9	240	556	268	206.3	40.3	29.6	6.0	330	5.40	7.64	7.8	48.0	8.0	0.42	2.2	140	0.5	0.28	85	20.6	20.6	OK				
27.05.2020	4.53	7.44	26.4	264	532	276	195.0	39.4	30.5	6.1	320	4.90	7.65	8.1	48.0	10.0	0.28	3.3	130	0.6	0.21	85	19.9	19.9	OK				
28.05.2020	12.90	7.36	26.4	264	544	282	209.4	39.4	30.2	6.1	335	9.40	7.64	8.4	52.0	12.0	0.28	3.0	130	0.6	0.23	80			OK				
29.05.2020	12.54	7.40	26.4	252	518	260	194.6	39.1	29.6	6.9	310	9.24	7.66	8.4	52.0	10.0	0.42	2.8	140	0.5	0.21	75	15.9	15.9	OK				
30.05.2020	12.95	7.45	25.9	258	552	264	203.1	38.6	29.1	6.1	315	6.16	7.64	7.8	48.0	10.0	0.28	2.1	140	0.4	0.18	75	20.2	20.2	OK				
31.05.2020	11.32	7.41	26.4	258	540	242	209.4	39.4	31.1	6.0	320	10.35	7.56	7.1	44.0	12.0	0.42	2.4	140	0.6	0.30	75			OK				
Cumulative flow			MLD												MLD														
Average flow			MLD												MLD														
Peak inlet flow			MLD												MLD														
KEC - WATERLEAF (JV)													BANGALORE WATER SUPPLY AND SEWERAGE BOARD																
																													
PLANT CHEMIST													PLANT MANAGER													ASSISTANT ENGINEER		ASSISTANT EXECUTIVE ENGINEER	

KEC - WATERLEAU (JV)

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

PLANT CHEMIST

PLANT MANAGER

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of June-2020.

Date	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE			
	Aug. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Moisture Sludge VSS / TSS	Remarks	
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	%			
01.06.2020	11.24	7.22	27.4	204	524	256	194.4	39.1	21.7	5.9	305	9.25	7.16	8.4	48.0	10.0	0.28	3.6	125	0.6	0.28	80	18.2	78.1	CL	20
02.06.2020	13.38	7.43	26.8	228	404	256	204	40.7	32.4	6.3	320	11.02	7.54	7.2	32.0	12.0	0.41	5.2	140	0.5	0.29	70	20.1	77.6	CL	20
03.06.2020	16.11	7.16	27.1	222	464	256	181.4	38.0	30.2	5.1	310	13.72	7.31	7.8	40.0	8.0	0.28	5.6	145	0.4	0.29	70	20.1	77.6	CL	20
04.06.2020	15.42	7.22	26.9	234	444	278	172.4	38.6	28.2	5.1	305	13.81	7.04	7.1	32.0	10.0	0.41	5.0	120	0.6	0.28	80	15.3	69.1	CL	20
05.06.2020	15.04	7.18	27.4	222	456	272	161.4	38.0	28.5	4.8	315	13.31	7.07	7.2	40.0	6.0	0.28	6.2	120	0.4	0.31	85	19.6	77.1	CL	20
06.06.2020	14.10	7.09	26.8	234	424	232	178.4	38.6	24.6	4.9	320	12.74	7.18	7.8	32.0	6.0	0.56	5.6	135	0.6	0.29	75	18.1	77.6	CL	20
07.06.2020	9.14	7.14	26.7	210	404	216	164.4	36.9	26.8	4.9	315	5.40	7.19	7.8	32.0	4.0	0.56	4.8	135	0.5	0.21	80			CL	20
08.06.2020	12.38	7.16	27.3	204	412	244	185.1	34.2	25.2	4.1	310	10.49	7.25	7.2	36.0	6.0	0.28	4.8	120	0.6	0.23	80	19.0	77.5	CL	20
09.06.2020	15.90	7.42	26.8	192	410	220	161.1	34.7	27.4	4.1	315	14.22	7.61	7.1	32.0	4.0	0.28	4.2	125	0.4	0.29	70	18.6	77.1	CL	20
10.06.2020	15.03	7.18	27.4	198	424	228	173.1	34.1	26.1	4.3	320	14.36	7.41	7.8	36.0	6.0	0.41	4.8	130	0.5	0.32	75	19.5	76.2	CL	20
11.06.2020	15.83	7.48	26.3	204	404	212	163.2	33.6	25.7	4.5	315	14.93	7.55	7.8	32.0	8.0	0.41	4.8	135	0.6	0.28	80	18.6	77.1	CL	20
12.06.2020	16.15	7.36	27.4	198	376	216	173.1	33.4	25.7	4.3	310	12.14	7.27	7.2	32.0	6.0	0.28	4.2	140	0.4	0.26	75	19.2	76.2	CL	20
13.06.2020	14.40	7.09	26.9	198	376	216	166.3	34.1	25.2	4.1	315	12.06	7.21	7.2	36.0	8.0	0.41	3.6	125	0.6	0.28	80	18.3	77.0	CL	20
14.06.2020	12.45	7.26	26.3	192	344	232	174.0	35.2	25.2	3.9	305	7.52	7.29	7.9	36.0	6.0	0.28	5.5	120	0.4	0.26	80			CL	20
15.06.2020	16.76	7.26	26.1	198	356	224	170.2	34.1	25.4	4.0	320	12.22	7.35	7.2	36.0	6.0	0.41	4.8	140	0.6	0.23	75	18.9	77.1	CL	20
16.06.2020	16.07	7.17	26.9	198	368	204	158.0	32.4	26.4	3.5	310	10.82	7.74	6.6	32.0	4.0	0.29	5.6	130	0.6	0.28	75	18.9	77.1	CL	20
17.06.2020	15.45	7.08	27.4	192	376	220	162.8	34.1	25.2	3.8	310	12.75	7.16	7.8	36.0	4.0	0.41	4.8	130	0.6	0.25	75	20.7	76.2	CL	20
18.06.2020	17.55	7.01	26.8	198	360	216	166.3	32.4	24.0	3.6	305	14.79	7.11	7.8	36.0	4.0	0.29	5.9	135	0.4	0.21	80	19.5	77.4	CL	20
19.06.2020	19.46	6.91	26.1	186	384	228	171.0	31.36	24.6	3.1	310	17.12	7.09	7.8	36.0	4.0	0.29	5.9	135	0.4	0.23	70	18.7	78.1	CL	20
20.06.2020	17.62	7.11	26.7	192	364	236	181.4	31.91	24.9	3.7	315	16.21	7.21	7.2	32.0	4.0	0.56	5.6	145	0.4	0.23	70			CL	20
21.06.2020	17.19	6.91	27.4	198	392	236	181.4	31.91	25.4	3.9	305	14.94	7.02	7.8	32.0	5.0	0.28	5.8	145	0.5	0.23	75	19.2	77.2	CL	20
22.06.2020	17.19	6.91	27.4	198	392	236	181.4	31.91	25.4	3.9	305	14.94	7.02	7.8	32.0	5.0	0.41	5.9	140	0.6	0.18	85	18.1	77.6	CL	20
23.06.2020	12.40	6.94	26.4	210	404	256	194.4	33.0	28.5	4.2	310	4.27	7.12	7.2	32.0	5.0	0.28	5.9	140	0.5	0.21	80	20.7	76.2	CL	20
24.06.2020	18.29	6.89	26.8	198	416	242	206.7	33.24	27.4	4.6	310	16.18	7.03	7.2	36.0	4.0	0.41	5.2	140	0.4	0.22	85	21.1	76.2	CL	20
25.06.2020	18.57	6.94	26.8	198	416	242	206.7	33.24	27.4	4.6	310	16.18	7.03	7.2	36.0	4.0	0.41	5.2	140	0.4	0.22	85	21.1	76.2	CL	20
26.06.2020	13.36	7.06	27.5	186	420	240	182.4	32.4	27.4	4.7	310	10.97	7.16	6.6	36.0	4.0	0.41	5.2	130	0.6	0.16	75	18.6	77.1	CL	20
27.06.2020	20.13	6.96	27.4	210	404	256	194.4	33.0	28.5	4.2	310	15.52	7.10	7.8	36.0	6.0	0.28	4.9	130	0.5	0.26	75	19.7	78.0	CL	20
28.06.2020	17.29	6.96	27.4	198	404	264	210.6	30.2	25.7	4.4	310	6.85	7.12	7.8	36.0	5.0	0.41	5.5	135	0.4	0.23	80	18.7	77.5	CL	20
29.06.2020	8.81	7.06	28.4	192	384	236	177.3	30.8	26.7	4.4	310	15.78	7.07	8.4	32.0	6.0	0.41	5.9	125	0.5	0.22	80	18.7	77.5	CL	20
30.06.2020	18.54	6.96	27.5	198	404	232	176.3	30.8	25.7	4.8	305															
Cumulative flow	MLD											MLD														
Average flow	MLD											MLD														
Peak inlet flow	MLD											MLD														

PLANT CHEMIST

PLANT MANAGER

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

ASSISTANT ENGINEER

ASSISTANT INCHARGE ENGINEER

PLANT CHEMIST

PLANT MANAGER

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of July - 2020

Inlet Parameters														Outlet Parameters										DEWATERED SLUDGE				Remarks	
DATE	Aug. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	%				
UNIT	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1	200	2157	2457				
01.07.2020	19.58	6.98	24.4	198	396	220	161.2	31.92	26.8	4.4	310	16.64	7.15	28	32.0	4.0	0.42	5.2	130	0.6	0.21	80	19.6	76.8	cl	245			
02.07.2020	19.51	6.34	26.9	136	428	192	145.9	34.1	24.6	5.3	310	18.43	7.19	8.4	40.0	6.0	0.28	5.2	135	0.6	0.25	75	13.2	77.9	cl	246			
03.07.2020	19.24	6.34	24.4	210	436	203	158.8	33.04	26.88	6.3	305	17.03	7.28	7.2	36.0	5.0	0.28	6.3	140	0.6	0.26	75	18.0	76.4	cl	247			
04.07.2020	17.40	7.08	24.9	210	432	196	148.9	34.1	24.4	4.1	310	15.73	7.19	8.4	36.0	4.0	0.42	5.5	145	0.5	0.27	80	19.5	77.5	cl	248			
05.07.2020	17.38	7.09	24.5	204	416	208	158.0	35.2	24.6	4.9	300	15.21	7.11	8.4	40.0	4.0	0.28	5.2	145	0.6	0.27	70	20.2	74.2	cl	249			
06.07.2020	17.84	6.81	24.3	192	440	200.0	157.0	36.9	21.0	5.1	305	16.69	7.08	9.0	44.0	6.0	0.28	5.6	145	0.6	0.27	75	18.6	79.6	cl	250			
07.07.2020	17.69	7.16	24.5	210	408	212	163.2	38.6	28.10	4.6	300	15.64	7.09	8.4	32.0	4.0	0.42	5.6	140	0.5	0.26	75	21.6	74.4	cl	251			
08.07.2020	17.94	7.01	24.4	204	404.0	208	160.1	38.6	28.5	4.4	305	14.40	7.28	8.4	44.0	6.0	0.28	5.9	135	0.5	0.28	75	20.4	78.6	cl	252			
09.07.2020	15.75	7.11	24.4	204	404.0	208	160.1	38.6	28.5	4.4	305	14.40	7.28	8.4	44.0	6.0	0.42	5.9	135	0.5	0.28	75	20.4	78.6	cl	253			
10.07.2020	18.31	7.06	24.8	216	424	212	161.1	38.08	28.5	4.2	310	16.79	7.28	9.0	48.0	6.0	0.28	5.6	145	0.4	0.26	80	21.2	78.1	cl	254			
11.07.2020	17.69	6.91	24.4	216	424	212	161.1	38.08	28.5	4.2	310	15.34	7.06	8.4	48.0	6.0	0.28	5.9	140	0.6	0.25	75	20.6	78.2	cl	255			
12.07.2020	17.69	7.01	24.4	204	428	204	155.0	39.2	28.5	4.8	305	14.69	7.13	7.2	52.0	8.0	0.28	5.6	135	0.5	0.28	75	20.6	78.0	cl	256			
13.07.2020	16.02	7.01	24.4	192	444	208	158.0	39.2	28.2	4.4	300	14.65	7.29	7.8	56.0	8.0	0.28	5.6	135	0.5	0.28	75	20.6	78.0	cl	257			
14.07.2020	17.45	7.11	24.4	192	436	220	161.2	40.3	29.6	4.6	310	15.84	7.25	7.8	40.0	4.0	0.28	6.2	130	0.6	0.27	80	21.0	77.1	cl	258			
15.07.2020	16.95	6.91	24.4	204	444	208	158.0	39.2	28.2	4.8	310	15.34	7.06	8.4	48.0	6.0	0.42	5.6	140	0.4	0.25	75	20.1	77.9	cl	259			
16.07.2020	16.86	7.09	24.4	192	426	248	161.2	40.3	29.6	4.2	305	14.82	7.08	8.4	40.0	4.0	0.28	5.9	145	0.4	0.26	80	19.8	78.2	cl	260			
17.07.2020	16.54	7.01	24.8	198	436	236	161.2	40.3	29.6	4.9	315	15.49	7.12	7.8	48.0	8.0	0.42	5.6	140	0.4	0.26	75	19.8	78.2	cl	261			
18.07.2020	15.13	7.09	24.8	210	448	220	161.2	40.3	29.6	5.0	310	15.94	7.36	7.2	48.0	6.0	0.42	5.6	140	0.4	0.26	75	20.1	77.9	cl	262			
19.07.2020	17.39	7.11	24.4	204	448	212	161.1	38.6	31.0	4.5	310	15.94	7.36	7.8	52.0	8.0	0.42	5.6	140	0.4	0.26	75	20.1	77.9	cl	263			
20.07.2020	17.39	7.09	24.6	192	436	220	161.2	40.3	29.6	4.9	315	15.49	7.12	7.8	52.0	8.0	0.42	5.6	140	0.4	0.26	75	20.1	77.9	cl	264			
21.07.2020	17.90	7.19	24.4	198	456	204	157.0	38.6	29.6	4.6	305	15.14	7.26	8.4	48.0	8.0	0.42	5.2	140	0.5	0.26	75	19.2	78.2	cl	265			
22.07.2020	16.29	7.09	24.4	198	404	204	157.0	38.6	29.6	4.6	305	15.14	7.26	8.4	48.0	8.0	0.42	5.2	140	0.5	0.26	75	19.2	78.2	cl	266			
23.07.2020	16.69	7.14	24.3	210	412	208	158.0	39.2	28.2	4.2	310	15.14	7.26	8.4	44.0	6.0	0.21	5.3	135	0.5	0.27	70	20.0	78.5	cl	267			
24.07.2020	17.25	7.09	24.4	198	404	264	160.6	39.2	28.5	4.6	305	13.40	7.32	7.2	48.0	6.0	0.28	5.6	145	0.5	0.29	75	20.0	78.5	cl	268			
25.07.2020	16.05	7.18	24.9	192	424	260	161.2	40.3	28.5	3.2	305	15.29	7.36	6.6	52.0	6.0	0.42	4.0	140	0.5	0.26	80	19.6	78.1	cl	269			
26.07.2020	16.44	7.21	24.5	216	448	248	161.2	40.3	29.6	4.0	310	14.49	7.36	7.2	48.0	6.0	0.28	5.9	135	0.4	0.18	70	19.6	78.1	cl	270			
27.07.2020	16.62	7.26	24.6	204	448	268	161.2	40.3	28.5	3.8	300	15.04	7.11	7.2	48.0	6.0	0.28	5.9	145	0.5	0.29	75	20.5	77.9	cl	271			
28.07.2020	16.34	6.81	24.5	216	416	248	161.2	40.3	29.6	4.0	315	14.48	7.18	7.2	44.0	6.0	0.42	5.5	135	0.5	0.29	75	19.9	78.2	cl	272			
29.07.2020	16.44	7.09	24.4	204	392	264	161.2	40.3	29.6	4.1	305	14.62	7.34	6.6	48.0	6.0	0.28	5.0	135	0.6	0.15	70	20.9	78.1	cl	273			
30.07.2020	19.11	7.15	24.6	204	404	236	161.2	40.3	29.6	4.1	305	14.62	7.34	6.6	48.0	6.0	0.42	5.2	145	0.6	0.19	75	21.6	76.7	cl	274			
31.07.2020	18.76	7.10	24.8	210	420	240	161.2	40.3	29.6	4.3	315	14.62	7.34	6.6	48.0	6.0	0.42	5.2	145	0.6	0.19	75	21.6	76.7	cl	275			
Cumulative flow	MLD											MLD																	
Average flow	MLD											MLD																	
Peak Inlet flow	MLD											MLD																	
KEC - WATERLEAU (IV)														BANGALORE WATER SUPPLY AND SEWERAGE BOARD										Assistant Executive Engineer				Plant Manager	
PLANT CHEMIST														ASSISTANT ENGINEER										Assistant Executive Engineer				Plant Manager	

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of

Aug. August 2020.

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of Aug. 2020																																	DEWATERED SLUDGE		
Date	Inlet Parameters											Outlet Parameters											TSS			Remarks									
	Aug. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Biofilm Chlorine	Fecal Coliform	TSS	Maximum Skips	VSS/TSS										
Range	20	6.5-7.3	24-27	350	800	450	380	70	45	7	370	20	6.5-8	<15	<250	<30	<1	<50	<70	<1	<5	<200	15%	75%	%										
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	%										
01.08.2020	19.43	7.09	28.2	210	412	252	191.5	38.0	27.1	4.4	310	18.01	7.13	7.2	44.0	6.0	0.28	5.0	140	0.5	0.27	70	14.6	70.2	CL	14									
02.08.2020	13.87	7.07	28.1	192	364	244	187.9	38.6	26.9	4.2	305	17.07	7.27	6.6	40.0	6.0	0.41	5.5	135	0.5	0.27	60	18.1	76.4	CL	14									
03.08.2020	15.74	7.11	28.3	198	384	260	197.6	37.1	25.2	4.6	310	15.58	7.36	7.1	36.0	6.0	0.28	5.0	145	0.6	0.28	65	17.8	76.5	CL	14									
04.08.2020	17.62	7.17	28.4	198	376	236	179.3	38.6	27.4	5.1	299	16.00	7.36	6.8	40.0	6.0	0.28	5.1	135	0.6	0.27	65	17.6	75.3	CL	14									
05.08.2020	17.51	7.20	28.4	204	372	232	178.6	38.6	27.16	4.9	290	17.07	7.46	7.2	36.0	6.0	0.42	4.9	140	0.6	0.28	60	17.9	75.7	CL	14									
06.08.2020	15.90	7.19	28.0	198	380	238	173.1	38.0	27.1	5.0	300	16.21	7.36	6.6	40.0	6.0	0.28	5.2	140	0.5	0.29	65	17.7	75.7	CL	14									
07.08.2020	14.51	7.18	28.6	198	372.0	248	170.2	37.5	27.2	4.1	305	13.97	7.32	6.6	40.0	6.0	0.28	4.9	140	0.5	0.25	70	17.2	78.1	CL	14									
08.08.2020	17.84	7.16	28.9	204	364	234	176.2	37.5	26.6	4.0	300	16.74	7.52	7.2	36.0	6.0	0.42	5.2	145	0.4	0.27	65	17.7	76.4	CL	14									
09.08.2020	17.54	7.16	28.3	192	376	232	175.4	38.0	27.4	4.2	300	14.95	7.27	6.6	40.0	6.0	0.28	4.8	140	0.5	0.26	65	18.2	75.1	CL	14									
10.08.2020	16.09	7.19	28.6	198	380	244	185.4	38.0	28.5	3.4	290	15.26	7.44	7.2	40.0	6.0	0.42	5.8	140	0.4	0.27	60	17.6	75.1	CL	14									
11.08.2020	16.48	7.19	28.4	210	376	204	155.0	38.6	28.5	3.8	290	17.89	7.41	6.6	40.0	6.0	0.42	4.8	140	0.5	0.26	65	18.2	75.1	CL	14									
12.08.2020	18.59	7.23	28.2	204	388	220	173.7	38.6	27.7	3.4	295	18.61	7.32	7.1	38.0	6.0	0.28	4.8	135	0.5	0.27	60	17.6	75.1	CL	14									
13.08.2020	19.34	7.19	28.4	210	380	192	145.9	38.6	28.5	3.8	295	16.61	7.32	7.1	40.0	6.0	0.28	4.8	140	0.4	0.27	60	17.6	75.1	CL	14									
14.08.2020	17.04	7.18	28.4	204	404	232	188.6	38.0	27.6	3.8	295	16.17	7.32	7.1	40.0	6.0	0.28	4.8	140	0.4	0.27	60	17.6	75.1	CL	14									
15.08.2020	18.03	7.16	28.4	210	408	220	169.4	38.0	27.6	4.0	280	16.17	7.32	7.2	40.0	6.0	0.28	4.8	140	0.4	0.27	60	17.6	75.1	CL	14									
16.08.2020	16.34	7.17	28.4	216	432	228	175.5	36.9	27.4	4.0	295	16.91	7.38	6.6	40.0	6.0	0.42	5.8	140	0.6	0.27	60	17.6	75.1	CL	14									
17.08.2020	17.43	7.26	28.4	204	372	222	178.2	38.6	27.4	4.0	295	16.91	7.38	6.6	40.0	6.0	0.42	5.1	140	0.4	0.27	60	17.6	75.1	CL	14									
18.08.2020	17.30	7.28	28.1	216	388	212	159.0	36.9	27.7	4.2	280	16.92	7.37	7.1	40.0	6.0	0.42	5.1	140	0.4	0.27	60	17.6	75.1	CL	14									
19.08.2020	14.02	7.20	27.8	216	384	220	169.4	36.9	27.4	4.9	285	13.56	7.42	6.6	32.0	6.0	0.28	4.9	130	0.6	0.28	60	17.5	75.7	CL	14									
20.08.2020	16.08	7.39	28.5	210	376	244	185.4	38.0	28.5	3.9	260	15.39	7.51	6.6	36.0	6.0	0.28	4.9	130	0.6	0.28	60	17.5	75.7	CL	14									
21.08.2020	16.50	7.39	28.5	216	408	248	185.4	36.4	27.4	5.2	270	15.56	7.22	7.1	36.0	6.0	0.28	5.8	140	0.5	0.29	65	-	-	CL	14									
22.08.2020	16.78	7.36	28.6	210	420	216	164.1	36.9	27.4	4.0	290	13.57	7.52	7.8	36.0	6.0	0.42	5.8	135	0.7	0.28	60	16.2	78.0	CL	14									
23.08.2020	14.47	7.09	28.6	210	396	236	179.7	36.4	27.4	5.1	290	14.54	7.52	7.2	36.0	6.0	0.28	5.3	135	0.5	0.28	65	17.4	76.1	CL	14									
24.08.2020	14.79	7.31	28.6	216	408	256	197.1	38.6	27.9	4.6	280	17.73	7.47	7.8	36.0	6.0	0.28	5.8	135	0.5	0.28	60	17.4	76.1	CL	14									
25.08.2020	18.41	7.28	28.0	216	424.0	242	206.7	37.7	27.9	4.2	280	17.92	7.42	8.4	40.0	6.0	0.28	5.5	140	0.4	0.27	65	17.4	76.1	CL	14									
26.08.2020	17.17	7.08	28.7	222	424.0	264	200.6	40.3	28.2	4.0	280	16.29	7.33	7.8	36.0	6.0	0.42	5.0	145	0.6	0.26	65	18.6	76.1	CL	14									
27.08.2020	17.18	7.05	28.5	210	388	246	209.7	38.0	27.7	4.6	280	14.94	7.29	7.1	44.0	6.0	0.42	5.9	140	0.5	0.26	65	19.0	75.4	CL	14									
28.08.2020	15.30	7.02	28.4	210	404	242	206.7	39.7	28.5	5.1	285	15.28	7.09	7.2	56.0	6.0	0.28	5.2	135	0.6	0.29	60	18.1	76.8	CL	14									
29.08.2020	15.51	7.11	28.4	210	420	256	197.1	39.7	28.5	5.5	280	17.13	7.12	7.2	56.0	6.0	0.42	5.6	140	0.5	0.28	65	-	-	CL	14									
30.08.2020	17.47	7.69	28.4	216	412	268	203.6	40.8	29.6	5.2	295	18.30	7.12	7.2	56.0	6.0	0.42	5.6	140	0.5	0.28	65	-	-	CL	14									
31.08.2020	18.59	6.82	28.3	208	428	246	209.7	40.3	27.6	5.2	295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CL	14								
Cumulative flow	MLD											MLD																							
Average flow	MLD											MLD																							
Peak inlet flow	MLD											MLD																							
BANGALORE WATER SUPPLY AND SEWERAGE BOARD																																			
KEC - WATERLEAF (IV)																																			
PLANT CHIEF																																			
PLANT MANAGER																																			
ASSISTANT ENGINEER																																			
ASSISTANT EXECUTIVE ENGINEER																																			

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

KEC - WATERLEAU (JV)

PLANT MANAGER

PLANT CHEMIST



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of September - 2020

Inlet Parameters														Outlet Parameters														DEWATERED SLUDGE			
Parameters	Avg. Daily Flow	pH	Temp	BOD	COO	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COO	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Total Calcium	TSS	Maximum Sludge VSS / TSS	Remarks						
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	320	20	6.5-8	<15	<250	<30	<5	<30	>70	53	3	300	15%	75%							
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPH/100m	%								
01.09.2020	19.73	6.96	28.3	218	432	276	234.5	40.3	30.5	5.6	280	16.33	7.12	7.3	52.0	5.0	0.38	5.0	110	0.5	0.25	70	13.2	70.6	cl	21					
02.09.2020	18.27	7.06	28.0	204	436	288	218.8	40.88	31.36	5.5	275	17.65	7.29	6.6	44.0	6.0	0.42	4.8	145	0.6	0.29	60	17.4	69.8	cl	21					
03.09.2020	15.42	7.07	27.8	204	424	272	234.8	41.4	30.5	5.0	270	15.09	7.29	7.6	44.0	5.0	0.42	5.6	135	0.6	0.25	65	19.2	70.6	cl	21					
04.09.2020	13.70	7.08	27.4	210	428	271	209.4	40.3	30.24	5.5	260	14.08	7.31	7.8	40.0	4.0	0.42	4.5	145	0.5	0.23	60	17.8	68.1	cl	21					
05.09.2020	8.92	7.09	27.4	204	418	252	191.5	38.0	27.2	4.4	290	7.45	7.26	7.2	48.0	6.0	0.38	5.2	140	0.5	0.24	75	18.6	71.6	cl	21					
06.09.2020	5.77	6.94	28.4	204	420	260	205.2	33.6	27.6	5.1	295	4.60	7.32	7.5	44.0	5.0	0.38	5.6	130	0.6	0.26	70			cl	21					
07.09.2020	20.11	7.08	27.9	206	428	244	187.8	40.3	30.2	5.0	260	17.80	7.23	7.1	52.0	6.0	0.42	5.6	135	0.6	0.25	70	17.1	72.1	cl	21					
08.09.2020	15.41	6.84	28.5	198	426	248	188.4	40.3	31.8	4.0	300	14.88	7.11	7.2	44.0	4.0	0.38	4.9	145	0.5	0.23	60	19.8	70.1	cl	21					
09.09.2020	15.03	7.05	27.4	204	428	236	181.7	39.2	27.96	4.9	300	5.57	7.37	7.2	44.0	5.0	0.38	5.2	140	0.6	0.26	70	18.1	72.1	cl	21					
10.09.2020	6.65	6.98	28.4	198	424	240	182.4	39.2	27.96	4.9	300	5.57	7.37	7.2	44.0	5.0	0.38	5.2	140	0.6	0.26	70	18.9	72.1	cl	21					
11.09.2020	15.97	6.91	27.6	204	404	232	178.6	38.6	27.4	4.2	290	15.64	7.19	7.8	52.0	4.0	0.42	4.7	140	0.5	0.27	70	19.6	75.3	cl	21					
12.09.2020	15.80	7.05	27.9	192	428	224	170.2	39.7	30.52	4.9	265	15.36	7.46	6.6	48.0	6.0	0.38	4.6	135	0.5	0.27	70			cl	21					
13.09.2020	15.97	6.92	28.5	192	436	204	155.0	40.3	30.2	4.9	295	15.38	7.17	7.2	48.0	6.0	0.38	5.2	125	0.4	0.24	75	20.1	74.1	cl	21					
14.09.2020	16.64	7.02	27.8	198	432	216	166.3	38.6	32.4	5.4	295	16.33	7.27	7.8	44.0	4.0	0.38	4.9	140	0.6	0.27	65	19.2	73.2	cl	21					
15.09.2020	15.90	7.09	28.3	192	448	253	174.2	41.4	32.4	4.9	285	15.41	7.46	6.6	44.0	5.0	0.38	4.8	135	0.6	0.28	60	18.3	76.1	cl	21					
16.09.2020	15.94	7.16	28.5	192	424	212	161.1	40.3	30.5	5.5	295	15.43	7.52	7.1	48.0	4.0	0.42	5.7	140	0.6	0.28	70			cl	21					
17.09.2020	16.18	7.06	28.6	196	440	226	179.3	40.8	32.4	5.4	285	15.53	7.24	7.2	48.0	4.0	0.42	5.7	140	0.6	0.28	70			cl	21					
18.09.2020	16.54	7.06	28.6	210	436	268	203.9	41.4	30.7	5.5	285	16.08	7.35	7.8	52.0	6.0	0.38	5.0	140	0.5	0.28	70	19.6	76.1	cl	21					
19.09.2020	16.32	7.11	28.9	204	456	284	215.6	42.5	33.0	4.7	250	15.92	7.36	7.8	48.0	4.0	0.42	4.9	130	0.6	0.26	65			cl	21					
20.09.2020	13.61	6.84	26.1	210	426	252	191.5	42.5	34.1	5.6	285	15.22	7.19	7.2	48.0	5.0	0.38	5.2	140	0.5	0.27	65	20.4	76.6	cl	21					
21.09.2020	15.67	7.08	28.4	216	452	260	200.2	40.8	32.4	4.8	290	14.29	7.46	7.8	44.0	4.0	0.38	5.7	140	0.5	0.26	70	19.1	75.2	cl	21					
22.09.2020	16.57	7.19	27.8	216	432	272	206.7	42.0	33.0	5.1	280	15.93	7.38	7.2	40.0	5.0	0.28	5.7	140	0.5	0.26	70	19.1	75.2	cl	21					
23.09.2020	16.57	7.19	27.8	216	432	272	206.7	42.0	33.0	5.1	280	15.93	7.38	7.2	40.0	5.0	0.42	4.6	145	0.6	0.28	70	18.7	76.1	cl	21					
24.09.2020	15.51	6.93	27.6	204	468	264	203.2	40.3	32.4	5.1	295	15.47	7.28	6.6	44.0	5.0	0.38	4.8	145	0.5	0.36	60	19.4	75.1	cl	21					
25.09.2020	15.56	6.96	27.4	204	460	260	200.2	39.7	30.8	4.8	260	15.25	7.33	7.1	44.0	6.0	0.38	4.8	145	0.5	0.36	60	19.4	75.1	cl	21					
26.09.2020	15.90	6.97	28.4	204	472	276	207.7	43.12	35.8	5.0	280	15.72	7.25	6.6	40.0	5.0	0.42	5.2	135	0.6	0.33	65	19.4	75.1	cl	21					
27.09.2020	15.60	7.08	28.4	198	456	272	207.6	38.6	30.2	5.5	280	15.30	7.29	7.8	40.0	4.0	0.42	5.5	135	0.6	0.36	50	18.1	74.1	cl	21					
28.09.2020	15.78	6.96	27.5	204	464	268	206.3	43.1	33.3	5.0	270	15.81	7.44	7.2	44.0	5.0	0.28	4.9	130	0.5	0.36	60	20.1	76.8	cl	21					
29.09.2020	15.51	6.92	28.1	216	444	256	194.5	41.0	35.2	5.3	285	15.32	7.29	7.4	48.0	4.0	0.38	4.4	140	0.5	0.35	55	18.2	75.6	cl	21					
30.09.2020	16.12	7.10	28.7	210	436	264	203.2	39.2	30.24	5.2	290	14.91	7.35	7.1	40.0	4.0	0.42	5.6	145	0.6	0.35	65	19.1	75.8	cl	21					
														MLD																	
														MLD																	
														MLD																	
Cumulative flow														MLD																	
Average flow														MLD																	
Peak inlet flow														MLD																	
BANGALORE WATER SUPPLY AND SEWERAGE BOARD																															
KEC - WATERLEAU (JV)																															
PLANT CHEMIST														PLANT MANAGER																	
														ASSISTANT ENGINEER																	
														ASSISTANT ENGINEER																	



BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU

FLOW AND LAB ANALYSIS REPORT for the month of October - 2020

FLOW AND LAB ANALYSIS REPORT for the month of - <u>October - 2020</u>																																
Date	Inlet Parameters											Outlet Parameters											Dewatered Sludge									
	Aug. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Aug. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks							
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	320	20	6.5-8	5-13	20	5-10	5-12	5-10	170	5-1	1	200	15%	25%								
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml										
01.10.2020	15.64	7.14	28.3	216	424	268	205.3	40.3	33.3	4.9	295	15.23	7.37	7.1	44.0	5.0	0.42	4.5	135	0.60	0.39	55	18.2	27.2	cl	27.2						
02.10.2020	15.58	7.16	27.6	210	445	268	203.0	39.2	30.2	4.5	290	15.21	7.36	7.8	52.0	6.0	0.42	4.8	140	0.5	0.39	60	19.6	27.5	cl	27.5						
03.10.2020	15.43	7.16	26.9	210	456	256	197.1	38.0	29.6	5.1	285	14.59	7.36	6.6	36.0	6.0	0.42	4.4	130	0.5	0.37	50			cl	27.5						
04.10.2020	15.87	7.16	28.4	198	442	260	194.6	38.6	32.4	5.5	285	15.04	7.11	6.6	40.0	4.0	0.42	5.1	145	0.5	0.41	50	20.2	27.0	cl	27.0						
05.10.2020	15.50	6.93	28.1	204	432	232	178.8	37.4	33.4	4.9	265	13.80	7.32	7.2	40.0	5.0	0.28	5.0	135	0.6	0.44	55	19.9	27.2	cl	27.2						
06.10.2020	16.14	7.02	27.4	210	440	244	170.2	40.3	32.4	5.6	290	14.49	7.55	7.2	36.0	5.0	0.28	4.8	135	0.6	0.40	50	19.5	27.2	cl	27.2						
07.10.2020	16.44	6.90	28.4	204	468	212	164.1	40.3	35.5	4.9	260	16.16	7.32	7.2	40.0	6.0	0.42	5.0	145	0.5	0.42	50	20.2	27.5	cl	27.5						
08.10.2020	17.81	7.09	27.9	210	442	204	155.0	37.4	33.0	4.2	255	16.41	7.38	7.8	36.0	4.0	0.46	4.8	145	0.5	0.43	55	19.2	27.4	cl	27.4						
09.10.2020	17.28	7.19	28.4	216	456	208	152.0	43.6	36.1	5.5	260	15.94	7.12	7.2	36.0	4.0	0.42	4.8	140	0.6	0.43	50			cl	27.4						
10.10.2020	16.91	7.09	28.6	216	448	204	157.0	41.0	32.4	5.2	255	17.31	7.38	6.6	36.0	6.0	0.22	4.8	140	0.6	0.42	50	17.7	27.2	cl	27.2						
11.10.2020	17.40	7.09	28.6	216	448	204	161.1	43.6	35.0	5.0	250	17.50	7.22	7.2	40.0	5.0	0.42	4.2	135	0.6	0.45	50	17.7	27.6	cl	27.6						
12.10.2020	18.36	6.95	28.6	216	452	212	164.1	41.4	34.1	4.9	260	18.66	7.36	6.6	40.0	5.0	0.28	5.2	140	0.5	0.44	55	18.7	27.2	cl	27.2						
13.10.2020	19.24	6.91	28.1	210	444	216	164.1	41.4	36.1	5.0	260	19.33	7.41	7.2	36.0	5.0	0.42	4.2	135	0.6	0.46	50	20.6	27.6	cl	27.6						
14.10.2020	19.81	7.12	28.1	210	444	216	164.1	41.4	36.1	5.0	260	19.50	7.31	6.6	40.0	4.0	0.42	4.2	130	0.6	0.46	50	19.2	27.8	cl	27.8						
15.10.2020	20.01	6.90	28.4	216	456	220	167.4	43.1	36.1	5.7	260	18.95	7.38	7.2	36.0	6.0	0.28	5.8	135	0.5	0.45	60			cl	27.8						
16.10.2020	20.00	6.81	28.4	204	444	220	161.1	43.1	36.8	4.9	255	17.44	7.36	7.2	36.0	5.0	0.28	5.2	130	0.4	0.41	50	19.8	27.0	cl	27.0						
17.10.2020	15.99	7.09	27.9	210	456	212	166.3	41.4	33.3	4.2	210	16.66	7.36	7.2	36.0	5.0	0.42	5.6	140	0.5	0.42	50	19.8	27.0	cl	27.0						
18.10.2020	20.08	6.91	28.3	210	456	212	166.3	41.4	33.3	4.2	210	16.66	7.36	7.2	36.0	5.0	0.42	5.6	140	0.5	0.42	50	19.8	27.0	cl	27.0						
19.10.2020	19.94	6.98	28.4	216	460	228	173.2	42.5	33.0	4.9	210	19.20	7.44	6.6	40.0	5.0	0.28	5.2	130	0.6	0.49	55	20.7	27.6	cl	27.6						
20.10.2020	19.72	7.03	28.4	204	468	224	170.2	42.0	33.6	4.8	220	10.90	7.37	7.2	36.0	6.0	0.42	5.2	135	0.5	0.48	55	19.7	27.5	cl	27.5						
21.10.2020	11.25	6.98	28.4	204	456	208	158.0	39.4	35.8	4.6	245	18.24	7.37	6.6	40.0	5.0	0.42	5.1	145	0.5	0.42	60	20.1	27.8	cl	27.8						
22.10.2020	19.82	6.82	28.6	204	440	220	165	41.4	35.8	5.0	240	17.44	7.36	6.6	40.0	6.0	0.28	5.1	140	0.5	0.46	60			cl	27.8						
23.10.2020	18.03	7.08	28.4	210	440	220	155.0	42.0	32.7	4.8	240	19.35	7.12	6.6	36.0	5.0	0.42	5.0	145	0.4	0.44	50			cl	27.8						
24.10.2020	19.81	6.99	28.4	198	460	204	166.3	43.6	33.3	4.2	230	19.52	7.24	6.6	36.0	4.0	0.28	4.8	135	0.5	0.44	55	19.6	27.9	cl	27.9						
25.10.2020	20.01	7.02	28.1	198	448	216	164.1	43.1	35.2	4.1	245	19.01	7.11	7.2	40.0	5.0	0.28	5.9	145	0.6	0.48	55	20.7	27.6	cl	27.6						
26.10.2020	19.47	6.98	28.3	204	432	232	176.3	38.6	33.3	4.8	215	15.01	7.19	6.6	40.0	5.0	0.42	4.6	140	0.4	0.53	50	19.9	27.1	cl	27.1						
27.10.2020	15.43	6.95	28.4	192	424	204	155.0	41.4	35.8	3.6	205	16.44	7.36	6.6	40.0	6.0	0.28	3.9	135	0.4	0.54	55			cl	27.1						
28.10.2020	17.34	6.91	28.4	192	424	204	163.2	40.8	35.5	3.4	225	18.57	7.16	6.6	36.0	5.0	0.28	5.1	145	0.6	0.51	50			cl	27.1						
29.10.2020	19.53	6.81	28.4	204	428	212	163.2	41.4	38.0	4.0	210	19.14	7.18	7.2	36.0	6.0	0.42	4.4	140	0.5	0.52	50	20.9	27.9	cl	27.9						
30.10.2020	20.02	6.97	28.4	192	408	220	164.1	42.5	35.8	4.9	205	18.45	7.23	7.2																		
31.10.2020	19.55	6.98	28.4	198	404	216	164.1	42.5	35.8	4.9	205																					
Cumulative flow				MLD																												
Average flow				MLD																												
Peak inlet flow				MLD																												
BANGALORE WATER SUPPLY AND SEWERAGE BOARD																																
PLANT CHEMIST																																
PLANT MANAGER																																
ASSISTANT ENGINEER																																
ASSISTANT ENGINEER																																

KEC - WATERLEAU (IV)

PLANT CHEMIST

PLANT MANAGER

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS



FLOW AND LAB ANALYSIS REPORT for the month of Nov-2020

Date	Inlet Parameters												Outlet Parameters										DEWATERED SLUDGE					SIGNATURE		
	Parameters	Avg. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks				
	Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	%	%						
Range	20	6.5-7.3	24-27	330	890	450	380	70	45	7	330	30	6.5-8	5.5	6.250	4.30	6.5	6.30	4.30	4.30	6.1	≤ 1	≤ 200	25.7	2					
01.11.2020	20.36	6.98	28.1	210	544.8	232	176.3	14.2	38.9	5.4	230	18.22	7.21	6.6	36.0	6.0	0.28	4.7	135	0.4	0.56	50.	18.7	78.9		CL	PL	AE		
02.11.2020	16.29	7.08	27.9	210	484.0	234	172.4	12.0	35.8	4.6	235	12.47	7.07	7.2	40.0	5.0	0.88	4.2	145	0.4	0.55	50.	18.7	78.9		CL	PL	AE		
03.11.2020	16.54	6.88	28.5	192	404	216	166.3	11.4	35.2	4.9	225	15.44	7.25	6.6	40.0	4.0	0.92	5.0	140	0.5	0.56	50.	20.8	78.2		CL	PL	AE		
04.11.2020	18.06	7.08	28.4	204	416	232	176.3	12.0	35.8	3.9	205	16.21	7.27	7.1	36.0	6.0	0.28	5.8	135	0.6	0.57	50.	19.7	78.6		CL	PL	AE		
05.11.2020	11.96	7.09	28.6	198	404	220	164.2	10.3	33.6	3.8	195	11.43	7.28	6.6	40.0	6.0	0.28	5.6	135	0.5	0.62	55	20.2	78.1		CL	PL	AE		
06.11.2020	20.08	6.94	28.6	204	412	228	174.5	13.8	33.3	3.2	260	18.45	7.21	6.6	32.0	5.0	0.28	4.8	130	0.5	0.67	50.	19.2	79.2		CL	PL	AE		
07.11.2020	18.03	7.11	28.4	192	400	234	170.2	12.2	33.3	4.4	205	15.94	7.25	6.0	36.0	4.0	0.28	5.2	135	0.6	0.66	50	20.6	78.3		CL	PL	AE		
08.11.2020	20.00	6.95	28.4	192	392	228	170.2	12.2	33.3	3.7	190	19.65	7.27	6.6	36.0	6.0	0.28	5.2	140	0.6	0.69	55				CL	PL	AE		
09.11.2020	16.78	7.05	29.4	192	404	236	179.3	12.7	33.3	4.0	210	15.71	7.28	6.6	32.0	5.0	0.28	4.7	130	0.6	0.62	50	20.3	78.7		CL	PL	AE		
10.11.2020	17.36	6.92	28.1	198	408	232	176.3	12.4	33.0	4.1	230	19.60	7.35	6.0	36.0	4.0	0.28	4.2	130	0.5	0.79	45	19.5	79.6		CL	PL	AE		
11.11.2020	20.00	7.07	28.6	192	404	220	167.4	13.8	33.04	4.2	230	19.57	7.37	6.6	36.0	5.0	0.28	5.6	140	0.6	0.67	50.	19.7	79.5		CL	PL	AE		
12.11.2020	20.06	6.95	28.5	193	412	228	175.5	12.2	33.04	4.2	230	19.57	7.37	6.6	36.0	5.0	0.28	5.1	130	0.6	0.59	55	20.3	78.6		CL	PL	AE		
13.11.2020	20.06	6.97	28.7	204	408	232	178.3	12.2	33.3	4.0	240	19.53	7.36	6.6	32.0	4.0	0.28	5.2	140	0.6	0.57	50				CL	PL	AE		
14.11.2020	20.03	7.17	28.1	204	428	232	176.3	12.4	33.0	4.0	240	19.53	7.36	6.6	32.0	5.0	0.28	5.2	140	0.6	0.57	45				CL	PL	AE		
15.11.2020	20.05	7.07	28.6	198	416	228	175.5	12.2	33.0	4.1	245	19.74	7.21	7.2	36.0	5.0	0.28	5.7	135	0.6	0.79	45	19.9	78.9		CL	PL	AE		
16.11.2020	20.15	6.98	28.6	198	420	228	175.5	12.2	33.0	3.8	220	19.74	7.27	6.6	36.0	6.0	0.28	5.2	135	0.7	0.81	45	20.8	78.9		CL	PL	AE		
17.11.2020	20.15	6.88	26.8	192	408	236	181.7	13.8	33.0	3.8	220	19.74	7.36	6.6	36.0	6.0	0.28	4.8	135	0.5	0.87	45	21.3	78.4		CL	PL	AE		
18.11.2020	19.72	6.97	28.1	198	416	244	185.6	13.7	33.3	4.0	240	19.21	7.36	6.6	36.0	4.0	0.28	5.2	140	0.5	0.81	50	20.8	78.9		CL	PL	AE		
19.11.2020	20.10	7.18	28.0	204	392	236	179.3	12.7	29.6	4.0	240	19.21	7.36	6.6	36.0	5.0	0.42	5.2	135	0.5	0.84	45	19.6	78.6		CL	PL	AE		
20.11.2020	19.96	6.97	28.6	192	404	232	176.3	12.4	28.0	3.9	245	19.26	7.36	6.0	32.0	4.0	0.42	4.8	140	0.6	0.88	50	20.1	78.4		CL	PL	AE		
21.11.2020	20.04	6.97	28.0	186	416	240	182.4	13.7	28.2	3.9	240	19.26	7.29	7.2	36.0	5.0	0.28	5.1	125	0.4	0.91	55				CL	PL	AE		
22.11.2020	20.04	6.95	28.4	192	416	236	181.7	13.7	28.6	4.2	240	19.26	7.42	7.2	36.0	4.0	0.42	4.8	130	0.6	0.92	40	19.8	79.5		CL	PL	AE		
23.11.2020	20.01	7.17	28.1	186	392	228	173.2	12.7	30.5	3.7	235	19.94	7.34	6.0	32.0	5.0	0.28	4.0	140	0.6	0.95	40	20.1	78.1		CL	PL	AE		
24.11.2020	20.05	6.92	28.4	192	392	232	176.3	12.5	28.2	3.6	245	18.99	7.16	6.6	36.0	6.0	0.42	5.8	130	0.5	0.95	45	19.4	78.9		CL	PL	AE		
25.11.2020	20.00	7.11	28.4	186	396	232	176.3	12.5	28.1	4.2	205	19.21	7.36	6.6	36.0	6.0	0.42	4.8	135	0.6	0.87	45	20.2	78.8		CL	PL	AE		
26.11.2020	20.00	7.08	28.0	193	392	232	176.3	12.5	28.7	4.7	215	19.33	7.23	6.6	40.0	5.0	0.28	4.2	140	0.5	0.98	40	19.6	78.4		CL	PL	AE		
27.11.2020	20.00	6.97	28.4	193	396	244	181.7	13.7	28.1	4.8	235	19.40	7.42	7.2	36.0	6.0	0.42	5.6	140	0.5	0.95	45	20.1	78.6		CL	PL	AE		
28.11.2020	20.00	6.98	28.1	186	404	240	182.4	13.7	28.5	4.1	230	19.42	7.23	6.6	32.0	6.0	0.28	5.2	135	0.5	0.97	40				CL	PL	AE		
29.11.2020	20.01	6.88	27.4	210	512	256	197.1	14.0	33.3	5.9	235	19.32	7.30	7.2	36.0	6.0	0.18	4.9	140	0.6	0.96	40	20.5	78.9		CL	PL	AE		
30.11.2020	20.01	6.88	27.4	210	512	256	197.1	14.0	33.3	5.9	235	19.32	7.30	7.2	36.0	6.0	0.18	4.9	140	0.6	0.96	40	20.5	78.9		CL	PL	AE		
Cumulative Flow		MLD										MLD																		
Average Flow		MLD										MLD																		
Peak Inlet Flow		MLD										MLD																		
KEC - WATERLEAU (V)																		Assistant Engineer			Assistant Executive Engineer									
Plant Chemist		Plant Manager										Assistant Engineer					Assistant Executive Engineer													

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

20 MLD SEWAGE TREATMENT PLANT - DODDABELE

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of Dec-2020

KEC WATERLEAU
providing the elements

Date	Inlet Parameters										Outlet Parameters										DEWATERED SLUDGE				SIGNATURE				
	Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Total Coliform	TSS	Maximum Stage VSS / TSS	Remarks	Plant Chemist	Plant Manager	Assistant Engineer	
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	370	20	6.5-8	455	455	455	455	455	455	455	455	455	15%	35 x					
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
01.12.2020	20.00	6.97	25.4	210	416	237	179.3	37.7	28.03	4.2	285	18.50	7.29	7.2	32.0	5.0	0.42	4.6	140	0.5	0.95	50	12.7	28.9		cl	28.9		
02.12.2020	17.45	7.10	25.1	216	460	243	190.9	37.7	21.9	4.1	335	18.80	7.33	6.6	36.0	6.0	0.48	5.0	145	0.6	0.94	50	20.1	29.2		cl	29.2		
03.12.2020	20.01	6.97	25.8	204	404	252	194.0	26.8	34.5	4.2	220	18.78	7.13	6.6	36.0	7.0	0.28	5.1	140	0.5	0.91	50	13.9	28.6		cl	28.6		
04.12.2020	20.08	7.11	25.4	204	412	244	185.4	28.6	27.4	4.0	235	19.40	7.36	6.6	32.0	6.0	0.46	4.8	130	0.5	0.96	40	20.2	29.0		cl	29.0		
05.12.2020	20.18	6.85	28.1	204	292.0	236	179.3	38.03	24.15	4.1	235	18.16	7.13	7.2	36.0	7.0	0.28	5.0	140	0.5	0.92	45	19.6	28.9		cl	28.9		
06.12.2020	18.21	6.01	28.1	210	415	245	189.4	38.03	24.15	4.8	220	18.20	7.24	6.6	36.0	7.0	0.28	5.1	140	0.4	0.96	40	19.7	28.7		cl	28.7		
07.12.2020	19.41	7.12	24.4	198	404	240	184.8	38.64	24.88	4.4	230	19.38	7.36	6.6	36.0	6.0	0.44	5.5	135	0.5	0.98	50	19.1	28.7		cl	28.7		
08.12.2020	19.49	7.09	24.8	210	424	257	194.8	27.76	29.1	4.6	235	18.51	7.48	6.6	33.0	7.0	0.44	5.0	145	0.5	0.95	45	20.6	29.6		cl	29.6		
09.12.2020	19.98	7.14	25.3	210	404	252	191.5	38.0	28.0	4.0	230	17.12	7.37	6.0	36.0	6.0	0.28	5.2	140	0.6	0.92	45	20.1	29.6		cl	29.6		
10.12.2020	20.03	6.88	25.9	204	416	248	190.5	38.08	29.68	4.7	245	19.13	7.19	6.6	36.0	5.0	0.42	4.2	140	0.5	0.91	40	19.6	29.2		cl	29.2		
11.12.2020	19.97	7.01	28.1	192	416	236	189.3	38.08	20.5	3.8	235	17.21	7.35	6.0	36.0	7.0	0.28	4.1	140	0.6	0.97	45	20.2	28.7		cl	28.7		
12.12.2020	20.02	7.18	25.1	192	404	236	189.3	38.08	20.5	3.8	235	19.13	7.41	6.6	40.0	6.0	0.42	4.1	145	0.9	0.98	40	19.0	28.6		cl	28.6		
13.12.2020	20.02	7.11	25.1	192	404	236	189.3	38.08	20.5	3.8	235	19.13	7.41	6.6	40.0	6.0	0.42	4.1	145	0.9	0.98	40	19.0	28.6		cl	28.6		
14.12.2020	19.97	7.11	25.1	192	404	236	189.3	38.08	20.5	3.8	235	19.13	7.41	6.6	40.0	6.0	0.42	4.1	145	0.9	0.98	40	19.0	28.6		cl	28.6		
15.12.2020	20.02	7.11	25.1	192	404	236	189.3	38.08	20.5	3.8	235	19.13	7.41	6.6	40.0	6.0	0.42	4.1	145	0.9	0.98	40	19.0	28.6		cl	28.6		
16.12.2020	19.72	6.88	28.7	192	296	262	191.5	34.5	24.7	3.8	235	17.20	7.29	6.0	40.0	6.0	0.28	5.5	135	0.6	0.97	50	19.5	29.4		cl	29.4		
17.12.2020	20.00	7.19	24.1	186	404	244	185.4	38.0	28.5	3.9	225	19.51	7.28	6.6	32.0	8.0	0.42	4.8	130	0.5	1.0	40	19.0	28.9		cl	28.9		
18.12.2020	20.05	7.09	25.0	192	392	252	194.0	38.6	29.72	4.2	240	18.38	7.17	6.6	32.0	6.0	0.28	4.2	140	0.6	1.0	40	19.0	28.9		cl	28.9		
19.12.2020	19.05	6.92	27.4	192	404	256	194.1	38.0	24.7	3.6	225	19.52	7.31	6.6	36.0	6.0	0.28	5.0	140	0.4	0.98	40				cl			
20.12.2020	20.00	7.15	25.1	186	288	236	189.3	38.0	24.7	3.4	230	16.34	7.35	7.2	36.0	6.0	0.28	4.0	140	0.6	0.98	45	18.6	28.8		cl	28.8		
21.12.2020	20.00	6.92	25.4	186	408	236	189.3	38.0	24.7	3.4	230	16.34	7.35	7.2	36.0	6.0	0.28	4.0	140	0.6	0.98	45	18.6	28.8		cl	28.8		
22.12.2020	19.00	7.06	24.8	198	392	236	189.3	38.6	29.72	4.2	240	18.38	7.17	6.6	32.0	6.0	0.28	4.2	140	0.6	1.0	40	19.0	28.9		cl	28.9		
23.12.2020	19.54	6.89	25.1	198	416	248	190.9	38.6	29.72	4.2	240	18.38	7.17	6.6	32.0	6.0	0.28	4.2	140	0.6	1.0	40	19.0	28.9		cl	28.9		
24.12.2020	20.00	7.08	24.9	186	392	252	191.5	38.5	28.5	3.4	215	19.54	7.24	6.6	36.0	6.0	0.28	4.1	140	0.5	1.0	40				cl			
25.12.2020	19.55	6.97	28.2	198	400	244	185.4	40.3	29.5	3.7	230	18.59	7.32	6.6	32.0	7.0	0.28	5.6	145	0.6	1.1	40				cl			
26.12.2020	19.46	6.87	24.8	204	408	252	194.1	38.6	29.72	4.2	240	18.38	7.17	6.6	32.0	6.0	0.28	4.0	145	0.5	1.0	45	18.8	28.7		cl	28.7		
27.12.2020	19.54	6.90	28.7	204	416	256	194.5	42.0	29.6	3.2	235	18.80	7.34	6.6	36.0	7.0	0.28	5.5	140	0.5	1.0	45	19.2	28.9		cl	28.9		
28.12.2020	17.41	7.05	24.6	210	420	252	189.0	41.5	32.4	3.5	235	16.47	7.26	6.6	36.0	7.0	0.28	5.0	135	0.5	1.1	40	18.7	28.7		cl	28.7		
29.12.2020	18.81	6.91	28.1	210	416	244	185.4	41.4	29.7	3.5	230	17.97	7.34	6.6	32.0	5.0	0.42	4.6	145	0.6	1.1	40	18.8	28.6		cl	28.6		
30.12.2020	18.60	7.03	28.5	198	412	256	194.1	43.1	30.5	3.6	235	17.97	7.46	6.6	32.0	5.0	0.42	4.6	145	0.6	1.1	40	18.8	28.6		cl	28.6		
31.12.2020																													
Cumulative Flow	MLD											MLD																	
Average Flow	MLD											MLD																	
Peak Inlet Flow	MLD											MLD																	



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU
providing the elements

FLOW AND LAB ANALYSIS REPORT for the month of February - 2021

BANGALORE WATER SUPPLY AND SEWERAGE BOARD																														
Inlet Parameters													Outlet Parameters										DEWATERED SLUDGE				SIGNATURE			
Date	Parameters	Avg. Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Moisture	Remarks	Plant Chemist	Plant Manager	Assistant Engineer	
Range		20	5.5-7.5	24-27	350	800	450	380	70	45	7	370	30	6.5-8	435	1250	530	53	mg/L	mg/L	mg/L	mg/L	MPN/100ml	215	75%					
Unit		MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
01.02.2021	20.00	7.09	24.8	192	404	204	154.0	41.4	30.5	3.6	215	1940	7.31	7.8	36.0	8.0	0.41	5.2	135	0.5	1.1	40	18.4	77.9						
02.02.2021	20.00	7.17	24.4	192	410	212	159.0	45.68	33.04	3.6	245	1932	7.41	7.2	40.0	9.0	0.28	4.1	140	0.6	1.0	40	18.8	78.2						
03.02.2021	19.15	6.94	24.3	184	388	204	157.8	40.3	31.9	3.4	235	1852	7.38	7.2	40.0	8.0	0.41	4.0	130	0.5	1.1	40	18.6	79.7						
04.02.2021	20.00	7.11	24.5	192	412	208	158.0	43.6	30.8	3.2	235	1868	7.41	7.1	40.0	7.0	0.28	4.2	135	0.6	1.1	40	18.9	78.5						
05.02.2021	20.00	6.98	24.0	186	392	216	166.3	42.5	31.9	3.9	225	1943	7.54	7.3	36.0	8.0	0.28	4.0	130	0.5	1.0	45	18.1	78.0						
06.02.2021	19.11	7.09	24.1	192	392	208	156	43.6	33.0	4.1	230	1950	7.38	7.2	40.0	6.0	0.41	5.2	145	0.6	1.1	40								
07.02.2021	20.04	7.12	24.8	192	388	212	161.1	42.5	33.0	4.1	240	1951	7.43	6.6	40.0	7.0	0.28	5.5	145	0.6	1.0	45	18.0	78.8						
08.02.2021	19.06	6.93	24.4	192	396	204	157.0	43.6	30.80	4.3	230	1888	7.35	7.2	40.0	7.0	0.41	5.2	140	0.6	1.0	45	18.5	78.2						
09.02.2021	19.30	7.06	24.0	204	400	208	160.1	43.1	31.3	4.5	235	1965	7.38	7.2	36.0	7.0	0.28	4.8	145	0.5	1.0	35	18.1	78.6						
10.02.2021	20.24	7.12	24.4	192	396	212	163.4	43.6	33.0	4.2	230	1965	7.38	7.2	36.0	7.0	0.28	4.8	140	0.5	1.1	45	18.0	77.9						
11.02.2021	20.00	6.98	24.6	192	388	220	169.4	44.2	36.11	4.4	240	1970	7.45	6.6	40.0	6.0	0.28	5.0	150	0.6	1.1	45	18.0	77.9						
12.02.2021	20.00	7.12	24.6	192	388	220	169.4	44.2	36.11	4.4	240	1970	7.45	6.6	40.0	6.0	0.28	5.0	150	0.6	1.1	45	18.0	77.9						
13.02.2021	20.07	6.97	24.0	192	392	220	169.4	44.2	36.11	4.0	235	1971	7.38	7.2	40.0	7.0	0.41	4.8	145	0.5	1.0	35	18.6	78.4						
14.02.2021	20.04	6.94	24.4	198	392	208	160.1	43.1	33.04	4.4	245	1935	7.36	7.2	40.0	7.0	0.41	4.8	145	0.5	1.0	40	19.1	78.6						
15.02.2021	19.63	7.19	24.1	198	408	268	183.6	43.68	33.31	4.1	240	1961	7.41	7.2	40.0	6.0	0.28	4.2	140	0.6	1.1	40	18.8	78.7						
16.02.2021	20.01	7.12	24.4	204	412	256	194.1	42.0	30.80	4.5	230	1947	7.36	6.6	40.0	5.0	0.41	4.0	135	0.5	1.0	40	18.8	78.5						
17.02.2021	20.00	7.09	24.0	198	404	252	187.0	44.2	31.9	4.3	230	1947	7.36	6.6	40.0	5.0	0.28	4.0	135	0.5	1.0	40	18.8	78.5						
18.02.2021	20.10	7.10	24.1	198	404	252	187.0	44.2	31.9	4.5	230	1947	7.36	6.6	40.0	5.0	0.28	4.2	135	0.5	1.1	45	18.6	79.9						
19.02.2021	18.48	7.08	24.4	198	416	232	181.7	41.4	31.3	4.5	235	1953	7.46	7.2	40.0	6.0	0.28	5.0	150	0.6	1.1	45	18.6	79.9						
20.02.2021	20.01	7.05	24.4	198	420	236	181.7	42.5	33.04	4.5	240	1953	7.46	6.6	40.0	6.0	0.28	5.0	150	0.6	1.1	45	18.6	79.9						
21.02.2021	20.01	6.93	24.1	186	424	252	189.7	42.5	33.04	4.3	235	1953	7.46	6.6	40.0	6.0	0.28	4.9	145	0.5	1.1	45	18.6	79.9						
22.02.2021	19.51	7.14	24.0	198	408	240	188.8	43.68	33.04	4.3	235	1953	7.46	6.6	40.0	6.0	0.28	4.9	145	0.5	1.1	45	18.6	79.9						
23.02.2021	20.00	7.06	24.0	198	408	240	188.8	43.68	33.04	4.3	235	1953	7.46	6.6	40.0	6.0	0.28	4.9	145	0.5	1.1	45	18.6	79.9						
24.02.2021	20.00	7.06	24.0	198	408	240	188.8	43.68	33.04	4.3	235	1953	7.46	6.6	40.0	6.0	0.28	4.9	145	0.5	1.1	45	18.6	79.9						
25.02.2021	19.10	6.97	24.0	198	396	252	183.6	43.6	30.5	4.5	245	1852	7.38	7.2	40.0	8.0	0.41	4.9	140	0.5	1.0	45	18.0	78.5						
26.02.2021	19.22	7.03	24.0	204	400	220	192.1	44.2	33.31	4.1	235	1854	7.38	7.2	40.0	5.0	0.42	5.0	145	0.6	1.1	40								
27.02.2021	19.45	6.98	24.5	186.0	416	232	189.0	43.1	31.9	4.0	240	1854	7.36	6.6	40.0	5.0	0.42	5.0	145	0.6	1.1	40								
28.02.2021	19.02	7.09	24.4	192.0	400	236	181.7	42.5	33.04	4.3	235	1854	7.36	6.6	40.0	5.0	0.42	5.0	145	0.6	1.1	40								
Cumulative flow		MLD											MLD																	
Average flow		MLD											MLD																	
Peak Inlet flow		MLD											MLD																	
KEC - WATERLEAU (IV)																														
PLANT CHEMIST																														
PLANT MANAGER																														
ASSISTANT ENGINEER																														
ASSISTANT EXECUTIVE ENGINEER																														



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU
proven in the elements

FLOW AND LAB ANALYSIS REPORT for the month of May-2021

FLOW AND LAB ANALYSIS REPORT for the month of May-2021																								DEWATERED SLUDGE					
Date	Inlet Parameters											Outlet Parameters											TSS	Maximum Sludge VSS / TSS	Remarks	SIGNATURE			
	Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform							
Parameters	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml							
Range	20	6.5-7.5	24-27	350	800	450	380	30	45	7	370	20	6.5-8	5.15	1250	530	5.3	5.50	270	5.1	< 1	< 200	≥ 15	≥ 5%					
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml							
01.05.2021	10.44	7.19	25.3	210	404	244	185.4	49.8	40.6	4.1	275	9.86	7.17	7.8	36.0	6.0	0.23	4.9	195	0.5	1.0	35	18.4	78.2		CL	PL	AE	
02.05.2021	18.80	7.30	25.1	204	420	251	191.5	49.8	39.2	4.0	265	18.55	7.21	6.6	40.0	5.0	0.42	4.7	180	0.5	1.1	30	18.7	78.5		CL	PL	AE	
03.05.2021	19.51	7.39	25.4	216	412	260	197.6	49.1	40.3	4.2	290	19.01	7.19	7.2	36.0	7.0	0.28	5.1	195	0.5	1.0	40	18.2	78.4		CL	PL	AE	
04.05.2021	19.51	7.16	25.3	210	416	257	194.5	48.7	39.4	4.2	275	19.02	7.22	6.6	40.0	6.0	0.28	5.2	185	0.6	1.0	30	18.3	78.3		CL	PL	AE	
05.05.2021	17.01	7.44	26.4	204	404	260	200.2	47.6	35.8	4.3	260	16.52	7.25	7.2	36.0	6.0	0.28	4.8	175	0.4	1.0	40	18.0	78.6		CL	PL	AE	
06.05.2021	18.61	7.36	26.0	204	424	264	198.0	45.9	38.9	4.2	265	18.10	7.13	7.2	40.0	5.0	0.28	5.1	180	0.5	1.0	40	18.5	78.8		CL	PL	AE	
07.05.2021	19.21	7.42	26.1	216	412	248	190.7	43.6	30.5	4.1	270	18.71	7.11	6.6	36.0	6.0	0.28	4.7	170	0.5	1.1	35	18.1	78.5		CL	PL	AE	
08.05.2021	19.12	7.45	26.5	198	420	240	180.0	43.3	35.8	4.4	275	18.60	7.26	6.6	40.0	6.0	0.42	4.2	180	0.6	1.1	30	18.4	78.7		CL	PL	AE	
09.05.2021	19.01	7.35	26.7	210	412	252	194.0	43.0	35.5	4.1	280	18.53	7.14	6.6	40.0	6.0	0.42	4.8	180	0.4	1.0	30	18.5	78.1		CL	PL	AE	
10.05.2021	19.23	7.18	25.4	210	412	252	189.0	48.1	40.6	4.2	275	18.74	7.29	7.2	36.0	6.0	0.28	4.7	190	0.6	1.0	40	18.4	78.7		CL	PL	AE	
11.05.2021	19.34	7.38	26.1	204	420	260	197.6	47.6	38.6	4.0	270	18.61	7.21	7.2	32.0	5.0	0.28	4.7	190	0.6	0.9	45	18.3	78.5		CL	PL	AE	
12.05.2021	19.26	7.30	26.1	210	412	260	200.2	48.1	38.6	4.0	275	18.56	7.12	7.2	36.0	6.0	0.28	5.2	185	0.5	0.9	45	18.3	78.1		CL	PL	AE	
13.05.2021	19.14	7.36	26.1	210	412	260	200.2	48.1	38.6	4.2	265	18.65	7.12	7.2	40.0	5.0	0.42	5.0	195	0.4	1.0	35	18.6	78.4		CL	PL	AE	
14.05.2021	19.24	7.38	26.1	210	404	256	197.1	49.2	39.1	4.2	260	18.52	7.12	7.2	36.0	6.0	0.28	4.9	180	0.5	0.9	45	18.7	78.2		CL	PL	AE	
15.05.2021	19.16	7.33	25.1	210	404	256	197.1	49.2	39.1	4.2	260	18.52	7.12	7.2	36.0	6.0	0.28	4.9	180	0.5	0.9	45	18.7	78.2		CL	PL	AE	
16.05.2021	19.09	7.29	25.9	210	416	261	200.6	48.7	36.9	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
17.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
18.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
19.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
20.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
21.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
22.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
23.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
24.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
25.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
26.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
27.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
28.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
29.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
30.05.2021	19.21	7.21	25.4	216	424	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	0.8	45	18.1	78.8		CL	PL	AE	
31.05.2021	19.12	7.26	25.5	210	416	260	200.2	49.8	37.5	4.4	275	18.63	7.15	7.2	36.0	6.0	0.28	4.8	180	0.6	1.0	35	18.1	78.8		CL	PL	AE	
Cumulative flow	MLD																												
Average flow	MLD																												
Peak inlet flow	MLD																												
BANGALORE WATER SUPPLY AND SEWERAGE BOARD																								Assistant Executive Engineer					
KEC - WATERLEAU (IV)																								Assistant Engineer					

KEC - WATERLEAU (VI)

PLANT CHEMIST

PLANT MANAGER

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE



RAW SEWAGE AND TREATED EFFLUENT ANALYSIS
FLOW AND LAB ANALYSIS REPORT for the month of June - 2021

DATE	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE				SIGNATURE			
	Avg. Daily Flow	pH	Temp	BOD	COO	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily Flow	pH	BOD	COO	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks	Plant Chemist	Plant Manager	Assistant Engineer		
Range	20	6.5-7.5	24-27	350	800	450	380	70	45	7	120	20	6.5-8	115	5-250	130	5-1	5-10	2-70	5-1	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L				
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	mg/L	mg/L					
01.06.2021	19.29	7.39	25.4	198	420	252	194.0	49.8	41.1	4.1	275	18.60	7.21	7.2	36.0	6.0	0.28	5.2	195	0.5	1.0	40	17.9	78.1		CL	PL	SE		
02.06.2021	19.05	7.34	25.1	210	416	256	197.1	49.8	40.0	4.2	280	18.55	7.21	6.4	36.0	6.0	0.41	4.9	180	0.5	1.0	40	17.5	78.3		CL	PL	SE		
03.06.2021	19.01	7.39	25.7	204	400	260	190.1	49.1	38.6	4.3	280	18.51	7.11	7.2	40.0	6.0	0.28	4.7	185	0.6	1.0	35	18.0	78.4		CL	PL	SE		
04.06.2021	19.26	7.38	25.4	210	412	248	186.0	48.4	38.4	4.4	270	18.62	7.19	7.2	36.0	5.0	0.56	4.3	190	0.6	0.9	40	18.4	78.6		CL	PL	SE		
05.06.2021	19.09	7.26	25.3	198	420	244	187.5	49.3	38.6	4.4	275	18.53	7.09	7.3	40.0	6.0	0.28	5.3	185	0.5	1.0	45	17.9	78.1		CL	PL	SE		
06.06.2021	19.12	7.24	25.8	204	404	252	191.5	49.8	39.7	4.0	285	18.54	7.11	6.0	36.0	5.0	0.42	4.9	195	0.5	1.0	35	-	-		CL	PL	SE		
07.06.2021	19.12	7.24	25.8	204	404	252	191.5	49.8	39.7	4.0	285	18.54	7.11	6.0	36.0	5.0	0.42	4.9	195	0.5	1.0	35	18.1	77.8		CL	PL	SE		
08.06.2021	18.83	7.21	25.1	216	424	260	195.0	49.8	39.4	4.2	275	18.04	7.14	7.8	40.0	7.0	0.18	5.3	185	0.6	1.0	35	18.5	78.1		CL	PL	SE		
09.06.2021	19.14	7.20	25.4	210	416	268	206.3	48.1	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
10.06.2021	19.64	7.19	25.8	210	404	248	183.4	48.1	37.5	4.3	270	18.60	7.24	7.2	36.0	6.0	0.42	5.1	180	0.5	0.8	40	17.7	78.1		CL	PL	SE		
11.06.2021	19.50	7.19	25.8	210	392.0	256	194.5	44.0	37.5	4.1	270	18.60	7.24	7.2	36.0	6.0	0.42	4.8	195	0.4	0.9	40	17.9	77.6		CL	PL	SE		
12.06.2021	19.35	7.28	25.9	204	412	240	182.5	45.9	36.6	4.0	270	18.53	7.12	6.6	36.0	5.0	0.42	4.8	195	0.6	0.9	35	17.6	77.5		CL	PL	SE		
13.06.2021	14.02	7.21	25.4	204	424	244	187.8	47.0	37.5	4.2	280	18.70	7.14	6.6	40.0	6.0	0.42	5.1	175	0.5	0.8	45	-	-		CL	PL	SE		
14.06.2021	19.30	7.36	25.4	204	412	252	189.0	45.9	38.6	4.0	270	18.83	7.24	7.2	36.0	5.0	0.42	4.8	165	0.5	0.9	30	18.1	78.2		CL	PL	SE		
15.06.2021	19.30	7.36	25.4	204	412	252	189.0	45.9	38.6	4.0	270	18.83	7.24	7.2	36.0	5.0	0.42	4.8	165	0.5	0.9	30	18.1	78.2		CL	PL	SE		
16.06.2021	19.11	7.29	25.5	210	396	260	200.2	47.0	37.2	4.5	260	18.62	7.17	6.6	32.0	7.0	0.42	5.2	170	0.6	0.9	35	17.5	77.8		CL	PL	SE		
17.06.2021	18.83	7.46	25.0	216	408	268	203.6	45.3	36.6	4.3	255	18.22	7.12	7.8	40.0	6.0	0.28	5.2	155	0.5	1.0	35	17.5	77.8		CL	PL	SE		
18.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
19.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
20.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
21.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
22.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
23.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
24.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
25.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
26.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
27.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
28.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
29.06.2021	19.51	7.28	25.8	210	416	268	206.3	47.7	38.0	4.3	280	18.41	7.06	7.2	32.0	5.0	0.28	4.8	195	0.4	0.9	35	18.0	77.8		CL	PL	SE		
30.06.2021	19.12	7.33	26.4	204	412	260	197.8	42.5	35.8	4.5	270	17.21	7.20	6.6	36.0	6.0	0.42	5.5	135	0.5	0.8	40	-	-		CL	PL	SE		
												MLD																		
												MLD																		
												MLD																		
Cumulative Flow																														
Average Flow																														
Peak Inlet Flow																														
KEC - WATERLEAU (JV)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD																		
PLANT CHEMIST												PLANT MANAGER												ASSISTANT ENGINEER				ASSISTANT EXECUTIVE ENGINEER		



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU
providing the 4 elements

FLOW AND LAB ANALYSIS REPORT for the month of August - 2021

Date	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE				SIGNATURE		
	Avg. Daily flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg. Daily flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks				
Unit	MLD		°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MLD		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MPN/100ml	g/g	%					
01.08.2021	19.34	7.29	25.2	204	411	252	194.0	40.8	36.9	4.0	230	18.55	7.15	7.2	44.0	5.0	0.42	5.0	130	0.6	0.9	35	-	-		CL	KE	End	
02.08.2021	19.21	7.33	25.4	204	404	268	201.0	41.4	36.6	4.2	225	18.41	7.24	6.6	42.0	5.0	0.54	5.4	120	0.5	0.7	40	17.6	77.8		CL	KE	End	
03.08.2021	19.45	7.24	25.6	198	426	260	197.6	42.0	37.5	4.3	225	18.24	7.19	7.8	40.0	6.0	0.28	5.3	130	0.4	0.9	30	17.3	77.4		CL	KE	End	
04.08.2021	19.64	7.19	25.3	204	412	244	185.4	41.4	37.5	4.6	220	18.36	7.14	7.8	40.0	5.0	0.28	5.1	120	0.5	0.8	40	17.2	77.8		CL	KE	End	
05.08.2021	19.39	7.26	26.1	198	416	260	193.6	40.8	36.9	4.4	230	17.70	7.14	6.6	36.0	6.0	0.41	5.0	120	0.5	0.7	45	17.4	77.3		CL	KE	End	
06.08.2021	18.63	7.24	25.8	198	400	252	194.0	39.7	36.1	4.2	225	16.29	7.12	7.2	40.0	5.0	0.28	5.3	105	0.5	0.8	40	17.9	77.6		CL	KE	End	
07.08.2021	19.04	7.28	26.3	204	420	248	186.0	41.8	37.8	4.4	235	18.52	7.13	7.8	40.0	5.0	0.42	5.5	115	0.6	0.7	40	17.2	77.9		CL	KE	End	
08.08.2021	19.55	7.31	26.4	204	412	252	194.0	41.4	37.5	4.5	200	18.05	7.11	7.8	40.0	6.0	0.42	5.0	110	0.5	0.8	35	-	-		CL	KE	End	
09.08.2021	19.51	7.26	25.7	204	428	244	183.0	42.9	38.0	4.2	210	17.32	7.20	6.6	36.0	6.0	0.38	5.1	135	0.6	0.9	30	17.4	78.2		CL	KE	End	
10.08.2021	19.44	7.20	25.2	198	416	264	203.2	44.2	37.8	4.1	220	18.66	7.15	6.6	36.0	5.0	0.28	5.3	130	0.4	0.8	35	17.6	78.1		CL	KE	End	
11.08.2021	19.17	7.24	25.3	198	416	256	194.0	41.4	36.6	4.4	210	18.25	7.18	7.8	40.0	5.0	0.42	5.2	115	0.4	0.9	35	17.5	77.8		CL	KE	End	
12.08.2021	19.19	7.29	25.3	204	420	256	194.0	41.4	36.6	4.6	215	18.65	7.04	7.8	36.0	5.0	0.28	5.4	125	0.5	0.8	40	17.2	77.9		CL	KE	End	
13.08.2021	19.39	7.36	25.4	204	408	260	200.2	45.2	37.4	4.6	205	18.54	7.21	7.8	40.0	6.0	0.56	5.4	115	0.5	0.8	40	17.3	77.9		CL	KE	End	
14.08.2021	19.47	7.33	25.0	204	420	268	203.6	46.4	39.4	4.5	215	18.69	7.23	7.2	44.0	6.0	0.42	5.2	110	0.5	0.9	35	17.3	77.9		CL	KE	End	
15.08.2021	19.34	7.29	25.4	198	404	260	200.2	45.2	38.6	4.3	225	17.71	7.14	6.6	40.0	6.0	0.28	5.4	115	0.5	0.8	45	-	-		CL	KE	End	
16.08.2021	19.27	7.21	25.2	198	424	252	194.0	43.6	36.9	4.2	205	18.69	7.18	7.2	40.0	5.0	0.42	5.1	100	0.4	0.8	35	17.3	77.7		CL	KE	End	
17.08.2021	19.22	7.17	25.3	204	416	248	186.0	43.6	37.2	4.5	210	17.61	7.09	7.8	36.0	6.0	0.42	5.2	95	0.5	0.7	40	17.3	77.7		CL	KE	End	
18.08.2021	19.51	7.22	25.0	198	400	256	193.0	43.6	36.19	4.1	205	17.91	7.19	6.6	40.0	5.0	0.28	5.5	105	0.6	0.8	35	17.5	77.8		CL	KE	End	
19.08.2021	19.72	7.23	26.1	204	408	248	186.0	43.6	36.9	4.3	210	17.50	7.12	7.2	40.0	6.0	0.28	5.0	105	0.8	0.9	30	17.9	78.1		CL	KE	End	
20.08.2021	19.11	7.24	25.2	198	416	256	194.0	43.6	36.1	4.5	215	18.06	7.15	7.2	40.0	6.0	0.42	5.1	105	0.5	0.7	45	17.5	78.0		CL	KE	End	
21.08.2021	19.11	7.26	25.3	216	404	244	187.0	40.8	36.1	4.2	200	18.28	7.10	7.2	36.0	5.0	0.38	5.0	110	0.6	0.8	40	-	-		CL	KE	End	
22.08.2021	19.36	7.22	25.1	204	404	251	194.0	42.1	36.1	4.2	200	18.28	7.10	7.2	36.0	5.0	0.38	5.0	110	0.6	0.8	40	-	-		CL	KE	End	
23.08.2021	19.35	7.27	25.3	198	416	244	187.0	40.8	36.1	4.2	215	18.28	7.10	7.2	36.0	5.0	0.38	5.0	110	0.6	0.8	40	-	-		CL	KE	End	
24.08.2021	19.61	7.32	25.4	198	400	260	195.0	42.5	36.1	4.4	220	19.12	7.19	6.6	44.0	5.0	0.41	5.1	110	0.5	0.7	40	17.5	77.7		CL	KE	End	
25.08.2021	19.03	7.29	25.8	204	416	248	186.0	44.2	37.8	4.0	205	18.51	7.17	6.6	36.0	6.0	0.28	5.4	115	0.6	0.9	30	17.6	77.4		CL	KE	End	
26.08.2021	19.51	7.24	25.6	198	408	256	197.1	43.6	36.1	4.3	210	18.32	7.21	7.2	44.0	5.0	0.28	5.3	120	0.5	0.8	35	17.6	77.7		CL	KE	End	
27.08.2021	19.21	7.30	25.7	204	424	252	191.5	43.1	36.9	4.5	205	18.32	7.21	7.2	44.0	5.0	0.28	5.2	115	0.6	0.8	35	-	-		CL	KE	End	
28.08.2021	19.02	7.29	25.6	198	412	264	200.4	44.8	36.1	4.5	210	13.02	7.12	7.2	44.0	5.0	0.28	5.2	105	0.5	0.8	40	17.4	77.9		CL	KE	End	
29.08.2021	16.36	7.20	25.6	204	400	252	189.0	43.6	36.1	4.5	215	18.55	7.15	7.2	40.0	6.0	0.42	5.2	105	0.5	0.8	40	17.6	78.2		CL	KE	End	
30.08.2021	19.11	6.92	25.4	192	420	260	200.2	45.3	37.5	4.3	215	18.69	7.18	6.6	36.0	4.0	0.28	5.0	95	0.6	0.7	45	17.6	78.2		CL	KE	End	
31.08.2021	19.20	6.90	26.1	198	416	244	188.4	42.0	37.3	4.2	215	18.69	7.18	6.6	36.0	4.0	0.28	5.0	95	0.6	0.7	45	17.6	78.2		CL	KE	End	
Cumulative flow	MLD											MLD																	
Average flow	MLD											MLD																	
Peak inlet flow	MLD											MLD																	

PLANT CHEMIST

PLANT MANAGER

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

KEC - WATERLEAU (IV)

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

KEC - WATERLEAU (JV)

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE
RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

KEC WATERLEAU
protecting the elements

FLOW AND LAB ANALYSIS REPORT for the month of January - 2021

DATE	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE			SIGNATURE		
	Avg Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Total Coliform	TSS	Maximum Sludge VSS / TSS	Remarks	Plant Chemist	Plant Manager	Assistant Engineer
19.01.2021	19.43	6.96	25.4	198	420	248	186.0	41.4	35.0	4.1	225	18.55	7.14	7.1	44.0	4.0	0.42	5.3	140	0.5	0.6	40	16.9	76.5		CL		
19.01.2021	19.51	7.01	25.0	204	404	240	194.6	40.3	33.8	4.5	215	18.71	7.15	6.6	40.0	5.0	0.28	5.8	125	0.4	0.6	40	16.0	76.8		CL		
19.01.2021	19.51	7.04	25.4	210	412	244	183.0	42.0	35.9	4.5	219	19.03	7.19	7.8	44.0	6.0	0.42	4.8	145	0.6	0.8	35	16.4	77.2		CL		
19.01.2021	19.50	7.04	25.6	204	416	248	201.0	37.4	34.1	4.6	235	18.96	7.18	7.2	40.0	6.0	0.28	5.3	155	0.7	0.8	45	16.4	77.6		CL		
19.01.2021	19.51	6.94	25.8	210	424	244	183.0	42.5	34.1	4.2	220	18.89	7.24	6.6	44.0	6.0	0.28	5.9	145	0.5	0.7	45	17.3	77.2		CL		
19.01.2021	19.55	7.04	25.8	198	420	252	191.5	40.8	34.4	4.2	230	18.95	7.24	7.1	36.0	5.0	0.56	5.3	135	0.4	0.5	45	17.3	77.2		CL		
19.01.2021	19.01	6.94	25.4	204	396	248	189.0	42.0	32.8	4.5	240	18.53	7.15	7.3	40.0	5.0	0.42	5.0	130	0.7	0.6	40	17.1	77.7		CL		
19.01.2021	19.59	6.95	26.4	198	408	256	192.0	40.8	35.2	4.7	225	18.57	7.17	6.6	40.0	5.0	0.28	5.3	140	0.6	0.5	50	17.8	77.2		CL		
19.01.2021	19.51	7.04	25.6	204	420	252	206.4	42.5	35.8	4.4	210	18.40	7.26	7.1	40.0	4.0	0.42	4.8	130	0.6	0.5	40	17.8	77.2		CL		
19.01.2021	19.41	7.14	25.9	210	414	260	208.1	40.3	33.8	4.6	215	18.35	7.18	7.2	36.0	5.0	0.56	5.3	120	0.4	0.6	40	17.8	77.2		CL		
19.01.2021	19.31	6.95	25.4	204	420	244	183.0	42.5	34.4	4.5	220	18.25	7.18	6.6	40.0	7.0	0.28	5.2	130	0.6	0.6	40	17.1	76.8		CL		
19.01.2021	19.34	7.05	26.1	204	432	252	189.0	41.4	35.0	4.2	240	18.35	7.23	6.6	44.0	4.0	0.28	5.1	145	0.5	0.7	35	17.6	76.1		CL		
19.01.2021	19.45	7.08	26.1	198	404	264	200.5	39.4	34.4	4.5	225	18.49	7.25	7.2	40.0	6.0	0.42	5.6	120	0.7	0.7	40	17.6	77.0		CL		
19.01.2021	19.41	6.96	26.4	198	432	256	194.5	40.3	33.6	4.5	235	18.36	7.21	7.8	36.0	4.0	0.28	5.1	130	0.6	0.6	35	17.1	77.5		CL		
19.01.2021	19.41	7.08	25.4	204	420	260	200.1	41.4	34.4	4.4	225	18.81	7.19	7.2	40.0	6.0	0.42	5.5	140	0.8	0.7	45	17.4	77.2		CL		
19.01.2021	19.40	6.99	26.1	210	416	264	183.0	42.5	35.9	4.6	230	18.81	7.22	7.3	44.0	6.0	0.28	5.1	130	0.7	0.6	35	17.6	77.8		CL		
19.01.2021	19.38	7.04	25.8	204	412	268	201.0	43.5	35.8	4.7	225	18.83	7.24	7.1	36.0	5.0	0.56	5.8	140	0.7	0.6	35	17.2	77.3		CL		
19.01.2021	19.38	7.10	25.4	204	416	256	192.0	40.3	35.0	4.6	230	19.20	7.28	6.6	36.0	6.0	0.42	5.0	135	0.4	0.7	45	17.2	77.3		CL		
19.01.2021	19.30	6.84	26.1	204	408	244	184.8	41.4	35.2	4.3	220	18.71	7.23	7.3	44.0	6.0	0.28	5.5	130	0.6	0.6	40	17.9	77.5		CL		
19.01.2021	19.21	7.14	25.4	198	420	264	203.1	43.1	35.8	4.6	220	18.63	7.24	7.1	40.0	6.0	0.56	5.0	140	0.4	0.8	40	17.2	77.6		CL		
19.01.2021	19.35	6.96	25.1	204	432	252	189.0	42.0	34.4	4.2	220	18.44	7.24	6.6	44.0	5.0	0.28	5.6	130	0.6	0.6	35	17.5	77.3		CL		
19.01.2021	19.31	7.01	25.1	210	408	248	188.4	40.3	35.0	4.4	210	18.44	7.24	6.6	44.0	5.0	0.28	5.6	130	0.6	0.6	35	17.5	77.3		CL		
19.01.2021	19.31	7.04	25.8	198	420	256	192.0	43.5	35.8	4.6	225	18.77	7.35	7.2	40.0	6.0	0.56	5.1	145	0.5	0.5	40	17.9	77.2		CL		
19.01.2021	19.41	6.91	26.0	210	408	264	200.6	48.4	36.6	4.7	215	18.77	7.28	7.2	36.0	6.0	0.42	5.3	135	0.5	0.7	45	17.9	77.2		CL		
19.01.2021	19.37	6.89	25.9	204	432	248	189.0	41.4	32.6	4.3	220	18.76	7.26	7.8	44.0	5.0	0.42	5.1	140	0.6	0.7	40	17.2	77.6		CL		
19.01.2021	19.31	7.08	26.1	204	416	252	200.6	43.1	34.7	4.6	220	18.72	7.28	7.8	44.0	6.0	0.42	5.2	120	0.5	0.6	45	17.6	77.4		CL		
19.01.2021	19.31	7.06	26.0	198	420	244	189.0	43.6	35.0	4.1	225	19.11	7.17	6.6	40.0	5.0	0.56	5.0	140	0.6	0.6	40	17.7	77.0		CL		
19.01.2021	19.26	7.09	25.4	198	442	264	200.8	42.0	35.0	4.8	240	19.25	7.16	7.8	44.0	7.0	0.28	5.2	120	0.7	0.5	45	18.1	77.6		CL		
19.01.2021	19.44	6.89	26.1	204	420	232	176.3	43.6	36.6	4.3	250	18.91	7.19	6.6	34.0	5.0	0.42	5.0	130	0.5	0.6	40	17.5	77.2		CL		
19.01.2021	19.36	7.06	25.2	210	416	244	183.0	40.8	35.8	4.5	235	18.80	7.25	7.2	44.0	6.0	0.28	4.8	115	0.7	0.5	45	17.6	77.5		CL		
19.01.2021	19.39	7.04	25.4	204	408	240	184.0	48.4	34.5	4.2	215	18.73	7.29	6.6	40.0	5.0	0.42	5.4	125	0.6	0.6	35	17.6	77.5		CL		
Cumulative Flow											MLD	MLD																
Average Flow											MLD	MLD																
Peak Inlet Flow											MLD	MLD																
KEC - WATERLEAU (V)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD																
PLANT CHEMIST												PLANT MANAGER																
												ASSISTANT ENGINEER																
												ASSISTANT EXECUTIVE ENGINEER																



BANGALORE WATER SUPPLY AND SEWERAGE BOARD
20 MLD SEWAGE TREATMENT PLANT - DODDABELE

KEC WATERLEAU
protecting the elements

RAW SEWAGE AND TREATED EFFLUENT ANALYSIS

FLOW AND LAB ANALYSIS REPORT for the month of March-2022

DATE	Inlet Parameters											Outlet Parameters											DEWATERED SLUDGE				SIGNATURE						
	Avg Daily Flow	pH	Temp	BOD	COD	TSS	VSS	TKN	NH ₄ -N	Total Phosphorus	Alkalinity	Avg Daily Flow	pH	BOD	COD	TSS	NH ₄ -N	NO ₃ -N	Alkalinity	Total Phosphorus	Residual Chlorine	Fecal Coliform	TSS	Maximum Sludge VSS / TSS	Remarks	Plant Chemist	Plant Manager	Assistant Engineer					
01.03.2022	7.93	7.85	25.2	304	424	260	1950	420	36.1	4.6	220	7.32	7.71	7.8	36.0	6.0	0.28	5.7	125	0.5	0.6	40	16.8	76.2		CL	RR	MS					
02.03.2022	10.4	6.96	25.8	198	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	125	0.5	0.5	50	16.8	76.2		CL	RR	MS					
03.03.2022	0.0											0.0															CL	RR	MS				
04.03.2022	1.0	7.07	25.4	200	438	268	2036	44.8	38.3	4.7	230	0.42	7.26	7.2	40.0	5.0	0.42	5.8	115	0.5	0.6	40				CL	RR	MS					
05.03.2022	3.6	7.04	25.0	198	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	130	0.6	0.5	40	17.4	77.8		CL	RR	MS					
06.03.2022	0.49	7.15	25.9	204	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	115	0.5	0.6	40				CL	RR	MS					
07.03.2022	3.64	6.97	25.1	204	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	110	0.6	0.5	55				CL	RR	MS					
08.03.2022	1.40	7.08	25.3	210	428	268	2036	44.8	38.3	4.7	230	0.42	7.26	7.2	40.0	5.0	0.42	5.8	125	0.5	0.6	50				CL	RR	MS					
09.03.2022	7.53	7.05	25.6	198	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	115	0.5	0.6	45	16.1	76.2		CL	RR	MS					
10.03.2022	9.88	6.87	25.1	204	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	110	0.6	0.5	55				CL	RR	MS					
11.03.2022	10.64	6.98	26.2	210	428	268	2036	44.8	38.3	4.7	230	0.42	7.26	7.2	40.0	5.0	0.42	5.8	130	0.5	0.6	45	16.9	77.4		CL	RR	MS					
12.03.2022	2.25	7.08	25.3	204	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	95	0.5	0.5	55				CL	RR	MS					
13.03.2022	2.08	6.99	25.4	198	416	252	1915	436	34.3	4.2	240	1.29	7.11	7.2	44.0	5.0	0.42	5.4	110	0.7	0.7	45	14.7	76.1		CL	RR	MS					
14.03.2022	4.41	7.05	25.4	204	416	254	186	42.0	36.3	4.9	225	6.61	7.25	7.2	40	7.0	0.56	5.8	130	0.2	0.6	55	16.3	76.4		CL	RR	MS					
15.03.2022	3.51	6.87	25.2	210	420	236	179.3	44.2	35.9	4.6	245	3.10	7.18	8.4	44.0	6.0	0.42	5.2	120	0.6	0.5	50				CL	RR	MS					
16.03.2022	5.16	7.02	26.3	216	428	244	182.8	44.4	33.8	4.3	230	4.29	7.21	8.4	46.0	6.0	0.42	5.0	95	0.5	0.6	40	16.2	76.1		CL	RR	MS					
17.03.2022	1.03	6.96	26.5	204	408	252	191.2	43.1	35.0	4.8	243	0.58	7.12	7.2	36.0	6.0	0.42	5.7	115	0.4	0.5	50				CL	RR	MS					
18.03.2022	5.01	7.08	27.1	210	432	238	171.0	44.2	36.1	4.6	210	4.56	7.26	7.2	38.0	5.0	0.56	6.2	90	0.6	0.7	60	16.6	77.2		CL	RR	MS					
19.03.2022	7.21	7.04	27.3	198	442	248	188.4	48.7	34.5	4.6	220	6.04	7.25	7.2	44.0	6.0	0.48	5.3	100	0.4	0.7	45				CL	RR	MS					
20.03.2022	4.18	6.90	25.4	204	432	252	189.0	43.6	36.6	4.9	210	3.15	7.13	7.8	40.0	6.0	0.56	5.7	95	0.5	0.6	50				CL	RR	MS					
21.03.2022	3.14	7.02	25.6	210	396	260	193.6	44.2	36.6	4.5	235	3.12	7.21	7.8	40.0	5.0	0.48	4.7	115	0.6	0.7	45	17.1	76.8		CL	RR	MS					
22.03.2022	4.62	7.05	25.5	204	428	248	186.0	43.5	35.5	4.3	205	3.88	7.27	7.2	36.0	6.0	0.42	5.4	120	0.4	0.6	40				CL	RR	MS					
23.03.2022	6.18	6.94	25.8	204	408	256	194.5	43.1	36.1	4.6	215	5.22	7.11	6.4	44.0	5.0	0.48	5.6	105	0.5	0.5	50	16.9	76.3		CL	RR	MS					
24.03.2022	2.12	7.05	25.5	210	420	264	184.3	45.3	36.9	4.3	230	1.48	7.21	7.2	40.0	6.0	0.56	5.2	115	0.6	0.6	55				CL	RR	MS					
25.03.2022	1.65	6.96	25.8	210	416	260	195.0	43.6	35.8	4.3	210	0.42	7.18	7.8	40.0	5.0	0.48	5.0	125	0.7	0.6	35	16.6	76.3		CL	RR	MS					
26.03.2022	7.34	7.05	25.4	204	432	266	174.0	43.4	34.3	4.6	230	6.10	7.18	7.2	44.0	6.0	0.42	5.9	110	0.4	0.7	45				CL	RR	MS					
27.03.2022	2.44	6.95	25.7	216	428	266	200.6	43.6	36.1	4.8	235	2.10	7.09	7.8	44.0	7.0	0.23	5.6	130	0.5	0.4	50				CL	RR	MS					
28.03.2022	2.55	7.06	25.9	198	434	252	189.0	42.5	35.5	4.7	225	1.84	7.22	6.8	36.0	6.0	0.48	5.5	120	0.8	0.5	55	16.5	76.3		CL	RR	MS					
29.03.2022	7.46	7.08	26.2	210	416	236	179.3	44.2	36.9	4.4	240	8.88	7.25	6.8	40.0	4.0	0.42	5.9	110	0.6	0.6	40				CL	RR	MS					
30.03.2022	7.29	6.97	25.8	210	432	252	189.0	45.3	37.5	4.7	215	5.53	7.19	7.2	44.0	6.0	0.48	5.2	115	0.5	0.6	45	16.8	77.6		CL	RR	MS					
31.03.2022	6.42	7.10	26.6	204	408	264	199.0	44.2	38.0	4.5	225	5.63	7.24	6.6	40.0	5.0	0.42	5.5	120	0.5	0.5	50				CL	RR	MS					
Cumulative flow	MLD											MLD																					
Average flow	MLD											MLD																					
Peak inlet flow	MLD											MLD																					
KEC - WATERLEAU (JV)												BANGALORE WATER SUPPLY AND SEWERAGE BOARD																					
PLANT CHEMIST												ASSISTANT ENGINEER																					

