

Data Report
Water Quality Survey -1

Report, Data and Photos

* Note: All the raw data are compiled in the soft copy.

Kindly refer to the data file.



Engineering Project Consultants, GIS & Survey

PAN No. - ACZPP0929J
Service Tax No. - ACZPP0929JST001
TAN No. - BLRP08312D

ANALYSIS REPORT OF WATER QUALITY - SAMPLE 1

1. Name of the Location : SBR Intake
2. Name of the Project : **Bangalore Water Supply and Sewerage Project Phase III,**
3. Sample Collected by : M/ s. Environmental Health and Safety Research & Development Centre, Bangalore - 560 010.
4. Date of Collection : 24.11.2016
5. Particulars of Sample Collected : SBR Intake Water, Grab Sampling
6. Date of Sample Receipt : 25.11.2016
7. Sample Number : EHSRDC/ AEC/ W/ 16/ 11/ 9687
8. Analysis started on : 25.11.2016
9. Analysis Completed on : 01.12.2016
10. Report to be Sent : 01.12.2016
11. Page No : 1 of 2
12. Protocol : APHA, 22nd Edition/ IS: Standard

Sl.No	Parameters	Test Methods	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					DL	PL
1.	pH	4500H ⁺ B	-	8.39	6.5-8.5	
2.	Colour	IS 3025(Part 4):1983	Hazen	<1	5	15
3.	Odour	IS 3025(Part 5):1983	--	Unobjectionable	Unobjectionable	
4.	Conductivity	2510 B	µmho / cm	427	--	
5.	Turbidity	2130 B	NTU	0.55	1	5
6.	Temperature	APHA 2550 B	°C	25	--	
7.	Total Dissolved Solids	2540 C	mg/ L	292	500	2000
8.	Total Hardness	2340 C	mg/ L	88.0	200	600
9.	Calcium as Ca	3500-Ca	mg/ L	16.0	75	200
10.	Magnesium as Mg	3500 Mg B	mg/ L	11.66	30	100
11.	Sulphate as SO ₄	4500-SO ₄ ²⁻	mg/ L	10.32	200	400
12.	Fluoride as F	4500FD	mg/ L	0.34	1.0	1.5
13.	Nitrate as NO ₃	4500-NO ₃ E	mg/ L	1.57	45	
14.	Chloride as Cl	4500-Cl B	mg/ L	23.65	250	1000
15.	Iron as Fe	3500-Fe B	mg/ L	0.12	0.3	
16.	Nitrite - Nitrogen	4500-NO ₂ E	mg/ L	BDL	--	

2037, 7th Main, 'D' Block, Rajajinagar 2nd Stage, Bangalore-560 010. INDIA.

Tel/Fax : +91-80-23322352 +91-80-23320747 Mobile : +91-9448049367

E-mail : ajitabel@gmail.com contact@aecinfa.com Website : www.aecinfa.com


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17.	Alkalinity	2320 B	mg/ L	128	200	600
18.	Ammonia	IS 3025 (part 34)	mg/ L	BDL	0.5	
19.	Aluminium as Al	3111 D	mg/ L	BDL	0.03	0.2
20.	Mercury as Hg	3112 B	mg/ L	BDL	0.001	
21.	Total Chromium	3500 Cr B	mg/ L	0.001	0.05	
22.	Lead as Pb	3111 B	mg/ L	0.001	0.01	
23.	Cadmium as Cd	3111 B	mg/ L	BDL	0.003	
24.	Selenium as Se	3114 B	mg/ L	0.001	0.01	
25.	Arsenic as As	3114 B	mg/ L	0.001	0.01	0.05
26.	Cyanide as CN	4500-CN D	mg/ L	BDL	0.05	
27.	Zinc as Zn	3111 B	mg/ L	0.015	5	15
28.	Copper as Cu	3111 B	mg/ L	0.006	0.05	1.5
29.	Manganese as Mn	3111 B	mg/ L	0.042	0.1	0.3
30.	Anionic Detergents	5540 C	mg/ L	Not Detected	0.2	1.0
31.	Polynuclear Aromatic Hydrocarbons	APHA 22 nd EDITION	mg/ L	BDL	0.0001	
32.	E-Coli	IS 15185:2002	MPN/ 100ml	Absent	Absent	
33.	Total Coliform	IS 15185:2002	MPN/ 100ml	<1.8	Absent	
34.	Chlorine Demand Test	2350B	mg/ L	Not Detected	--	
35.	Jar Test with Coagulant					
a.	Potash Alum	IS 3025 (Part-50):2004	mg/ L	0.015	--	
b.	Hydrated Lime	IS 3025 (Part-50):2004	mg/ L	0.005	--	
36.	Sedimentation Test	In- House Method	mg/ L	75.0	--	
DL – Desirable Limit. PL – Permissible Limit. BDL: Below Detectable Limit.						

DL - Desirable Limit, PL - Permissible Limit, BDL: Below Detectable Limit.

INFERENCE	As per IS 10500:2012(Second Revision), Report Status: - The measured values for the above parameters for those standards have been specified were observed to be within the said standards.
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End of Report

2037, 7th Main, 'D' Block, Rajajinagar 2nd Stage, Bangalore-560 010. INDIA.

Tel/Fax : +91-80-23322352 +91-80-23320747 Mobile : +91-9448049367

E-mail : ajitabel@gmail.com contact@aecinfracom Website : www.aecinfracom



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ANALYSIS REPORT OF WATER QUALITY - SAMPLE 2

1. Name of the Location : SBR Intake
2. Name of the Project : **Bangalore Water Supply and Sewerage Project Phase III,**
3. Sample Collected by : M/ s. Environmental Health and Safety Research & Development Centre, Bangalore - 560 010.
4. Date of Collection : 08.12.2016
5. Particulars of Sample Collected : SBR Intake Water, Grab Sampling
6. Date of Sample Receipt : 09.12.2016
7. Sample Number : EHSRDC/ AEC/ W/ 16/ 12/ 10331
8. Analysis started on : 09.12.2016
9. Analysis Completed on : 13.12.2016
10. Report to be Sent : 14.12.2016
11. Page No : 1 of 2
12. Protocol : APHA, 22nd Edition/ IS Standard

Sl.No	Parameters	Test Methods	Unit	Result	Std. IS 10500:2012 (Second Revision)	
					DL	PL
1.	pH	4500H ⁺ B	-	8.14	6.5-8.5	
2.	Colour	IS 3025(Part 4):1983	Hazen	<1	5	15
3.	Odour	IS 3025(Part 5):1983	--	Unobjectionable	Unobjectionable	
4.	Conductivity	2510 B	μs/ cm	497	--	
5.	Turbidity	2130 B	NTU	0.69	1	5
6.	Temperature	APHA 2550 B	°C	25	--	
7.	Total Dissolved Solids	2540 C	mg/ L	362	500	2000
8.	Total Hardness	2340 C	mg/ L	164	200	600
9.	Calcium as Ca	3500-Ca	mg/ L	40.0	75	200
10.	Magnesium as Mg	3500 Mg B	mg/ L	15.55	30	100
11.	Sulphate as SO ₄	4500-SO ₄ ²⁻	mg/ L	11.97	200	400
12.	Fluoride as F	4500F D	mg/ L	0.66	1.0	1.5
13.	Nitrate as NO ₃	4500-NO ₃ E	mg/ L	1.91	45	
14.	Chloride as Cl	4500-Cl B	mg/ L	24.50	250	1000
15.	Iron as Fe	3500-Fe B	mg/ L	0.05	0.3	
16.	Nitrite - Nitrogen	4500-NO ₂ E	mg/ L	BDL	--	

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 TAN No. - BLRP08312D

Sample Number: EHSRDC/ AEC/ W/ 16/ 12/ 10331

2 of 2

17.	Alkalinity	2320 B	mg/ L	144	200	600
18.	Ammonia	IS 3025 (part 34)	mg/ L	0.03	0.5	
19.	Aluminium as Al	3111 D	mg/ L	0.098	0.03	0.2
20.	Mercury as Hg	3112 B	mg/ L	BDL	0.001	
21.	Total Chromium	3500 Cr B	mg/ L	0.003	0.05	
22.	Lead as Pb	3111 B	mg/ L	0.003	0.01	
23.	Cadmium as Cd	3111 B	mg/ L	0.002	0.003	
24.	Selenium as Se	3114 B	mg/ L	0.001	0.01	
25.	Arsenic as As	3114 B	mg/ L	0.008	0.01	0.05
26.	Cyanide as CN	4500-CN D	mg/ L	BDL	0.05	
27.	Zinc as Zn	3111 B	mg/ L	0.016	5	15
28.	Copper as Cu	3111 B	mg/ L	0.015	0.05	1.5
29.	Manganese as Mn	3111 B	mg/ L	0.022	0.1	0.3
30.	Anionic Detergents	5540 C	mg/ L	BDL	0.2	1.0
31.	Polynuclear Aromatic Hydrocarbons	APHA 22 nd EDITION	mg/ L	BDL	0.0001	
32.	<i>E-Coli</i>	IS 15185:2002	MPN/ 100ml	Absent	Absent	
33.	Total Coliform	IS 15185:2002	MPN/ 100ml	Absent	Absent	
34.	Chlorine Demand Test	2350B	mg/ L	Not Detected	--	
35.	Jar Test with Coagulant					
a.	Potash Alum	IS 3025 (Part-50):2004	mg/ L	0.006	--	
b.	Hydrated Lime	IS 3025 (Part-50):2004	mg/ L	0.002	--	
36.	Sedimentation Test	In- House Method	mg/ L	16.0	--	
DL – Desirable Limit. PL – Permissible Limit. BDL: Below Detectable Limit.						

DL - Desirable Limit, PL - Permissible Limit, BDL: Below Detectable Limit.

INFERENCE	As per IS 10500:2012(Second Revision), Report Status: - The measured values for the above parameters for those standards have been specified were observed to be within the said standards.
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End of Report

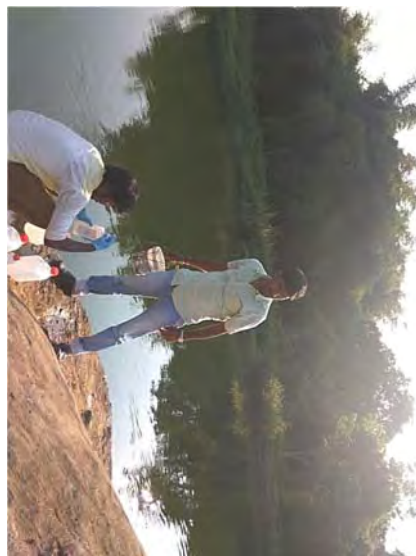
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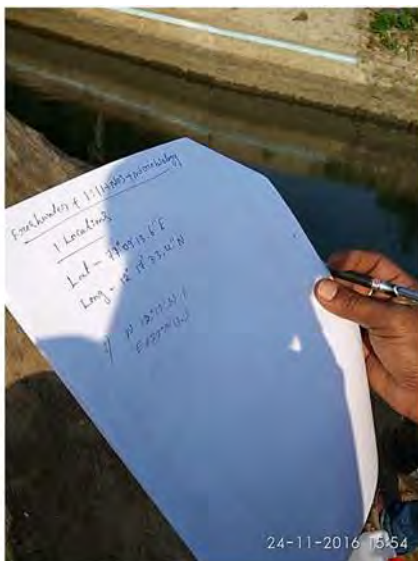
JAR TEST								
Sample 1								
Description	Water Sample 1						TSS	
Turbidity, pH	3.71, 8.23						Others	
Sample	1	2	3	4	5	6	7	8
Quantity	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml
PAC Concentration	1%	1%	1%	1%	1%	1%	1%	1%
Dosing Quantity ml	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Dosing Rate mg/l	1	2	3	4	5	6	7	8
Agitator Speed	180/40	180/40	180/40	180/40	180/40	180/40	180/40	180/40
Stirring time	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10
Settling Time mins	20	20	20	20	20	20	20	20
Temperature	28	28	28	28	28	28	28	28
Supernatent								
pH	8.06	8.04	8.03	7.96	7.92	7.87	7.86	7.84
Supernatent Turbidity	3.48	3.92	4.29	4.77	5.03	5.45	5.48	5.96
Filtered Turbidity	0.86	0.91	1.09	1.2	0.95	0.76	0.64	0.98

JAR TEST								
Sample 2								
Description	Water Sample 2				TSS			
Turbidity, pH	3.75, 8.25				Others			
Sample	1	2	3	4	5	6	7	8
Quantity	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml
PAC Concentration	1%	1%	1%	1%	1%	1%	1%	1%
Dosing Quantity ml	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Dosing Rate mg/l	3	4	5	6	7	8	9	10
Agitator Speed	180/40	180/40	180/40	180/40	180/40	180/40	180/40	180/40
Stirring time	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10
Settling Time mins	20	20	20	20	20	20	20	20
Temperature	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
Supernatant								
pH	8.17	8.19	8.17	8.15	8.18	8.2	8.2	8.2
Supernatant Turbidity	1.7	1.77	2.2	2.15	1.78	1.76	1.75	1.73
Filtered Turbidity	0.97	0.81	0.61	0.59	0.63	0.49	0.45	0.4











1st Sampling 24 Nov. 2016



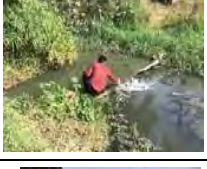
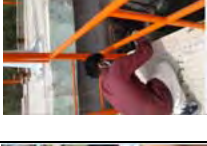


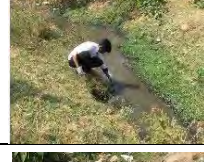
Data Report
Water Quality Survey -2

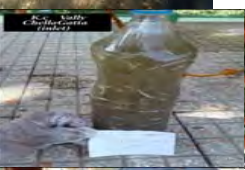
Report, Data and Photos

* Note: All the raw data are compiled in the soft copy.

Kindly refer to the data file.

No	Job Order No.	STP No.	Sample Particulars	Date & Time of Collection	Date & Time of Analysis	Description	Amb.Te mp, °C	Sample.T emp, °C	pH	Turbidity,NT U	TSS	COD	BOD	Amm- N	Total P	DO	Total N	Nitrate N	Coliform Organisms/100ml	Photo of Sample	Photo of Sampling Point	Location of Sampling
1	ED/2016/11/0247	STP No.5	STP Water from Hagadur STP-5, Belandur Lake	09/11/2016 10.45am	2016/11/11	Almost colourless liquid have slight odour and little ss	26	25	7.47	18	14	89.9	27.6	33.7	2.7	<1.0	45.2	<0.1	9.E+06			Hagadur STP-5
2	ED/2016/11/0248	STP No.6	STP Water from Naganathapura Doddanagamangala Bus Stop	09/11/2016 1.10pm	2016/11/11	Almost colourless liquid having objectionable odour with ss	28	27	7.21	104.5	44	376.1	210	54.2	5.6	<1.0	78.9	15.1	2.E+07			Naganathapura STP-6
3	ED/2016/11/0249	STP No.7	STP Water from Pillaganahalli SK Garden, Bangalore	09/11/2016 2.25pm	2016/11/11	Almost colourless turbid liquid having objectionable odour with ss	29	28	7.53	166.5	78	599.6	290	102.3	7.8	<1.0	140.9	<0.1	3.E+07			Pillaganahalli STP-7
4	ED/2016/11/0250	Ex. STP K&C Valley	STP Inlet Water from Chellagatta K&C Valley 30 MLD	09/11/2016 5.00pm	2016/11/11	Almost colourless liquid having objectionable odour with tss	28	27	7.19	125	132	474.2	240	42.7	2.6	<1.0	84.2	31.3	2.E+07			K&C valley STP-Inlet
5	ED/2016/11/0251	Ex. STP K&C Valley	STP Outlet Water from Chellagatta K&C Valley 30 MLD,	09/11/2016 5.10pm	2016/11/11	Almost colourless liquid having slight odour	28	27	7.70	0.6	2	9.1	2.4	1.2	1.3	5	1.9	<0.1	5.E+04			K&C valley STP-Outlet
6	ED/2016/11/0538	Ex. STP Raja Canal	STP Inlet Water from Raja Canal 40 MLD BWSSB, Hennur Main Road, Guddahalli	16/11/2016 12.30pm	17/11/2016	Almost colourless liquid having sediments with objectionable odour	28	26	7.41	131.5	80	370	195	53	10	<1.0	78.3	19.3	5.E+07			Raja Canal STP-Inlet
7	ED/2016/11/0539	Ex. STP Raja Canal	STP Outlet Water from Raja Canal 40 MLD BWSSB, Hennur Main Road, Guddahalli	16/11/2016 12.45pm	17/11/2016	Almost colourless liquid	27	26	7.78	1.7	6.0	14.0	3.3	5.7	0.73	6.8	9.81	2.7	9.E+04			Raja Canal STP-Outlet
8	ED/2016/11/0540	STP No.4	STP Water from Bileshivale Lake, Bhairathi Road	16/11/2016 1.15pm	17/11/2016	Almost colourless liquid having sediments with slight odour	27	26	7.35	40.8	34	189.2	105	42.7	2.8	<1.0	66.2	13.8	4.E+07			Bileshivale STP-4
9	ED/2016/11/0541	STP No.1	STP Water from Kogilu Lake	16/11/2016 3.00pm	17/11/2016	Almost colourless liquid having sediments with slight odour	28	26	7.49	40.8	26	156.3	98	34.9	2.9	<1.0	48.7	7.8	2.E+08			Kattigenahalli STP-1
10	ED/2016/11/0542	STP No.2?	Lake Water -Left Side- from Kenchanahalli,Doddaballapur Road	16/11/2016 4pm	17/11/2016	Almost colourless liquid having green sediments & suspended solids	27	26	8.3	279	220	419.4	67.5	58.4	0.79	4.4	95.2	30.1	2.E+06			Yelahankakere (Inlet) STP-2
11	ED/2016/11/0543	STP No.2?	Lake Water -Right Side, from Kenchanahalli,Doddaballapur Road	16/11/2016 4.15pm	17/11/2016	Almost colourless liquid having green sediments & suspended solids	27	26	8.82	194	80	275	34.3	6.6	0.64	8.7	51.2	28.3	2.E+05			Yelahankakere (Outlet) STP-2

No	Job Order No.	STP No.	Sample Particulars	Date & Time of Collection	Date & Time of Analysis	Description	Amb.Te mp, °C	Sample.T emp, °C	pH	Turbidity,NT U	TSS	COD	BOD	Amm- N	Total P	DO	Total N	Nitrate N	Coliform Organisms/100ml	Photo of Sample	Photo of Sampling Point	Location of Sampling
12	ED/2016/11/0657	STP No.8	STP Water from Thalagattapura Road Police Station Pipeline	18/11/2016 9.50am	21/11/2016	Almost colourless liquid having objectionable odour with tss	26	26	8.39	153.8	140	452.3	270	54.7	4.7	<1.0	75.6	1.5	2.E+07			Talghattapura STP-8
13	ED/2016/11/0658	STP No.9	Lake Water from Sompura Lake, BDA Layout, Banashankari 6th Stage	18/11/2016 11am	21/11/2016	Almost colourless liquid having slight odour	27	26	8.38	21	18	25.3	6	<0.5	0.05	5.6	15.9	11.8	5.E+03			Sompura STP-9
14	ED/2016/11/0659	STP No.10	STP Inlet Water from Varhasandra Lake, Varhasandra Main Road	18/11/2016 11.23am	21/11/2016	Almost colourless liquid having slight odour	28	26	8.21	20	20	78.1	39.6	17.1	1.5	<0.1	25	1.5	2.E+06			Hemmigepura STP-10
15	ED/2016/11/0660	STP No.11	STP Water from Hemmigepura Main Road	18/11/2016	21/11/2016	Almost colourless liquid having objectionable odour with ss	28	26	8.36	62.5	80	238.5	96	29.9	3.1	<1.0	47.4	0.9	4.E+09			Hemmigepura STP-11
16	ED/2016/11/0661	STP No.14	STP Water from Kodigehalli, Tumkur Road	18/11/2016	21/11/2016	Almost colourless liquid having objectionable odour with ss	28	26	8.38	140	120	476.9	260	24.7	3.4	<1.0	50.3	1.5	2.E+05			Herohalli STP-14
17	ED/2016/11/0662	STP No.15	STP Water from Kachohalli, Near HP Petrol Bunk	18/11/2016 1pm	21/11/2016	Almost colourless turbid liquid having objectionable odour with suspended solids	27	25	8.3	237.5	472	756.6	300	57.6	5.9	<1.0	93.8	1.5	2.E+06			Hosahalli STP-15
18	ED/2016/11/0663	STP No.13	STP Water from Karihobanahalli, Tumkur Road	18/11/2016 1.30pm	21/11/2016	Almost colourless turbid liquid having slight odour with suspended solids	26	25	8.45	232.5	960	589.4	230	56.4	6.1	<1.0	58.5	1.5	2.E+07			Karibovanahalli STP-13
19	ED/2016/11/0664	STP No.12	STP Water from Narasimhaya Layout, Tirumala Grama, Thippenahalli	18/11/2016 2pm	21/11/2016	Almost colourless liquid having slight odour with suspended solids	27	25	8.41	80.5	40	176.8	84	43.5	2.6	<1.0	83.8	1.5	2.E+07			Doddabidrukallu STP-12
20	ED/2016/11/0665	STP No.16	STP Water from Chikkabanavara Lake	18/11/2016 4.30pm	21/11/2016	Almost colourless liquid having slight odour with suspended solids	27	26	8.55	231.3	532	123.4	30	47	3.5	4	57.3	0.9	2.E+07			Chikkabanavara STP-16
21	ED/2016/11/0666	STP No.3	STP Water from Attur Village, Yelahanka Lake	18/11/2016 5.00pm	21/11/2016	Almost colourless liquid having slight odour with suspended solids	27	26	8.35	34.5	20	86.4	42	32.3	2.3	4.4	37.3	0.3	9.E+05			Doddabettahalli STP-3

No	Job Order No.	STP No.	Sample Particulars	Date & Time of Collection	Date & Time of Analysis	Description	Amb. Temp, °C	Sample Temp, °C	pH	Turbidity, NTU	TSS	COD	BOD	Amm-N	Total P	DO	Total N	Nitrate N	Coliform Organisms/100ml	Photo of Sample	Photo of Sampling Point	Location of Sampling
1	ED/2016/12/0838	STP No.5	STP Water from Hagadur STP-5, Belandur Lake	23/12/2016 12.00pm	24/12/2016	Plae yellow colored liquid having sediments	27	26	7.43	7.4	17	53.6	20	38.3	1.4	2.8	65.9	18	2.E+05			Hagadur STP-5
2	ED/2016/12/0871	STP No.6	STP Water from Naganathapura Doddanagamangala Bus Stop	24/12/2016 11.45am	26/12/2016	Almost colourless turbid liquid having slight odour	20	23	7.65	162.5	388	65.9	9.3	44.9	11.5	5.6	59.5	7.9	2.E+07			Naganathapura STP-6
3	ED/2016/12/0872	STP No.7	STP Water from Pillaganahalli SK Garden, Bangalore	24/12/2016 12.30pm	26/12/2016	Almost colourless turbid liquid having objectionable odour	19	23	7.82	30.2	140	238.9	117	76.5	5.3	<1.0	89.9	7.9	5.E+07			Pillaganahalli STP-7
4	ED/2016/12/0971	Ex. STP K&C Valley	STP Inlet Water from Chellagatta K&C Valley 30 MLD	28/12/2016 1.30pm	29/12/2016	Almost colourless liquid having objectionable odour with suspended solids	21	23	7.49	84.1	390	527	255	45	6	3.3	100.7	6.7	5.E+07			K&C valley STP-Inlet
5	ED/2016/12/0972	Ex. STP K&C Valley	STP Outlet Water from Chellagatta K&C Valley 30 MLD,	28/12/2016 1.30pm	29/12/2016	Almost colorless, odourless liquid	21	24	7.75	1	<1.0	12	3	3.3	0.06	8.7	22.8	13.4	2.E+04			K&C valley STP-Outlet
6	ED/2016/12/0839	Ex. STP Raja Canal	STP Inlet Water from Raja Canal 40 MLD BWSSB, Hennur Main Road, Guddahalli	23/12/2016 1.30pm	24/12/2016	Almost colourless oily liquid having suspended solids	30	29	7.45	141.5	120	5603	1000	109.4	8.2	<1.0	178.1	52.3	2.E+07			Raja Canal STP-Inlet
7	ED/2016/12/0840	Ex. STP Raja Canal	STP Outlet Water from Raja Canel 40 MLD BWSSB, Hennur Main Road, Guddahalli	23/12/2016 1.40pm	24/12/2016	Almost colourless liquid	30	29	7.62	1.7	6.0	4.8	1.5	7.5	0.15	4.7	22.9	13.5	2.E+05			Raja Canal STP-Outlet
8	ED/2016/12/0841	STP No.4	STP Water from Bileshivale Lake, Bhairathi Road	23/12/2016 2.25pm	24/12/2016	Almost colourless liquid having objectionable odour with sediments	30	29	7.29	25.6	82	197.8	98	53.9	4.9	<1.0	63.5	6.6	2.E+07			Bileshivale STP-4
9	ED/2016/12/0842	STP No.1	STP Water from Kogilu Lake	23/12/2016 3.30pm	24/12/2016	Almost colourless liquid having sediments	30	28	7.33	19.5	41	131.8	67.5	50.9	1.8	<1.0	59.9	5.4	2.E+07			Kattigenahalli STP-1
10	ED/2016/12/0844	STP No.2	Lake Water -Left Side- from Kenchanahalli,Doddaballapur Road	23/12/2016 4.15pm	24/12/2016	Almost colourless liquid having slight odour with SS and sediments	29	27	8.53	46.3	72	94.8	9	47.9	<0.05	7	56.3	4.8	5.E+03			Yelahankakere (Inlet) STP-2
11	ED/2016/12/0843	STP No.2	Lake Water -Right Side, from Kenchanahalli,Doddaballapur Road	23/12/2016 4.00pm	24/12/2016	Almost colourless liquid having sediments & suspended solids	28	26	8.2	47	74	103	16.8	53.9	0.44	6.7	66.6	3.6	2.E+05			Yelahankakere (Outlet) STP-2

No	Job Order No.	STP No.	Sample Particulars	Date & Time of Collection	Date & Time of Analysis	Description	Amb. Temp, °C	Sample Temp, °C	pH	Turbidity, NTU	TSS	COD	BOD	Amm-N	Total P	DO	Total N	Nitrate N	Coliform Organisms/100ml	Photo of Sample	Photo of Sampling Point	Location of Sampling
12	ED/2016/112/0873	STP No.8	STP Water from Thalagattapura Road Police Station Pipeline	24/12/2016 1.30am	26/12/2016	Almost colourless turbid liquid having slight objectionable odour	20	25	7.81	10.5	80	148.3	60	63.2	3.3	1.2	82	7.3	2.E+07			Talghattapura STP-8
13	ED/2016/12/0874	STP No.9	Lake Water from Sompura Lake, BDA Layout, Banashankari 6th Stage	24/12/2016 1.50pm	26/12/2016	Almost colourless liquid	24	25	7.85	46.5	14	28.8	9.9	1.2	0.13	4.1	8.5	5.5	5.E+04			Sompura STP-9
14	ED/2016/12/0875	STP No.10	STP Inlet Water from Varhasandra Lake, Varhasandra Main Road	24/12/2016 2.00pm	26/12/2016	Almost colourless liquid having slight odour	25	27	7.74	6	8	82.4	29	13.9	1.2	2.3	26.7	8.5	2.E+07			Hemmigepura STP-10
15	ED/2016/12/0876	STP No.11	STP Water from Hemmigepura Main Road	24/12/2016 2.45pm	26/12/2016	Almost colourless turbid liquid having objectionable odour	22	25	7.55	81.5	292	420.2	210	42.5	3.2	<1.0	66.2	7.3	2.E+07			Hemmigepura STP-11
16	ED/2016/12/0877	STP No.14	STP Water from Kodigehalli, Tumkur Road	24/12/2016 3.20pm	26/12/2016	Almost colourless turbid liquid having objectionable odour	28	30	7.6	141	320	469.7	246	32.8	3	<1.0	48	5.5	9.E+06			Herohalli STP-14
17	ED/2016/12/0878	STP No.15	STP Water from Kachohalli, Near HP Petrol Bunk	24/12/2016 3.40pm	26/12/2016	Almost colourless turbid liquid having objectionable odour	20	25	7.71	68	112	354.3	168.7	42.5	4.3	<1.0	67.4	10.9	5.E+06			Hosahalli STP-15
18	ED/2016/12/0879	STP No.13	STP Water from Karihobanahalli, Tumkur Road	24/12/2016 4.10pm	26/12/2016	Almost colourless turbid liquid having objectionable odour & grey coloured sediments	22	24	7.81	1024	2520	4944	2300	86.3	5.1	<1.0	120.3	14.6	2.E+05			Karibovanahalli STP-13
19	ED/2016/12/0880	STP No.12	STP Water from Narasimhaya Layout, Tirumala Grama, Thippenahalli	24/12/2016 4.30pm	26/12/2016	Almost colourless liquid having slight odour	23	25	7.69	40.3	148	140.1	45	42.5	1.8	2.9	59.5	6.7	4.E+07			Doddabidrukallu STP-12
20	ED/2016/12/0846	STP No.16	STP Water from Chikkabanavara Lake	23/12/2016 6.00pm	24/12/2016	Almost colourless liquid having slight odour with brown suspended	25	23	7.64	81.5	74	115.4	28.5	34.8	1.1	<1.0	56.9	4.2	2.E+07			Chikkabanavara STP-16
21	ED/2016/12/0845	STP No.3	STP Water from Attur Village, Yelahanka Lake	23/12/2016 5.30pm	24/12/2016	Almost colourless liquid having objectionable odour with black sediments	27	26	7.34	82.5	213	395.5	150	35.4	2.9	<1.0	60.5	6.6	2.E+07			Doddabettahalli STP-3

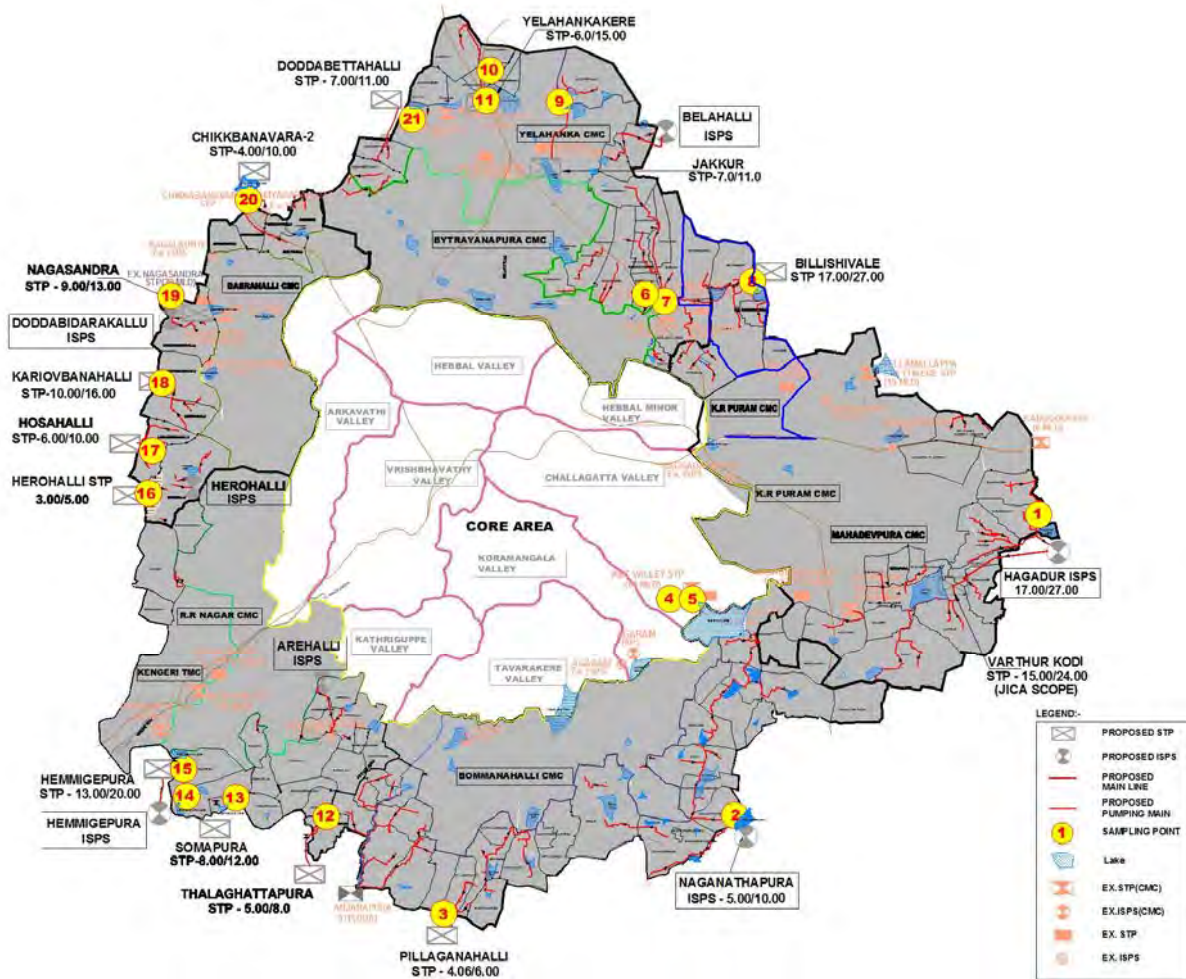


Figure 8.2.5 Locations of Water Sampling Points

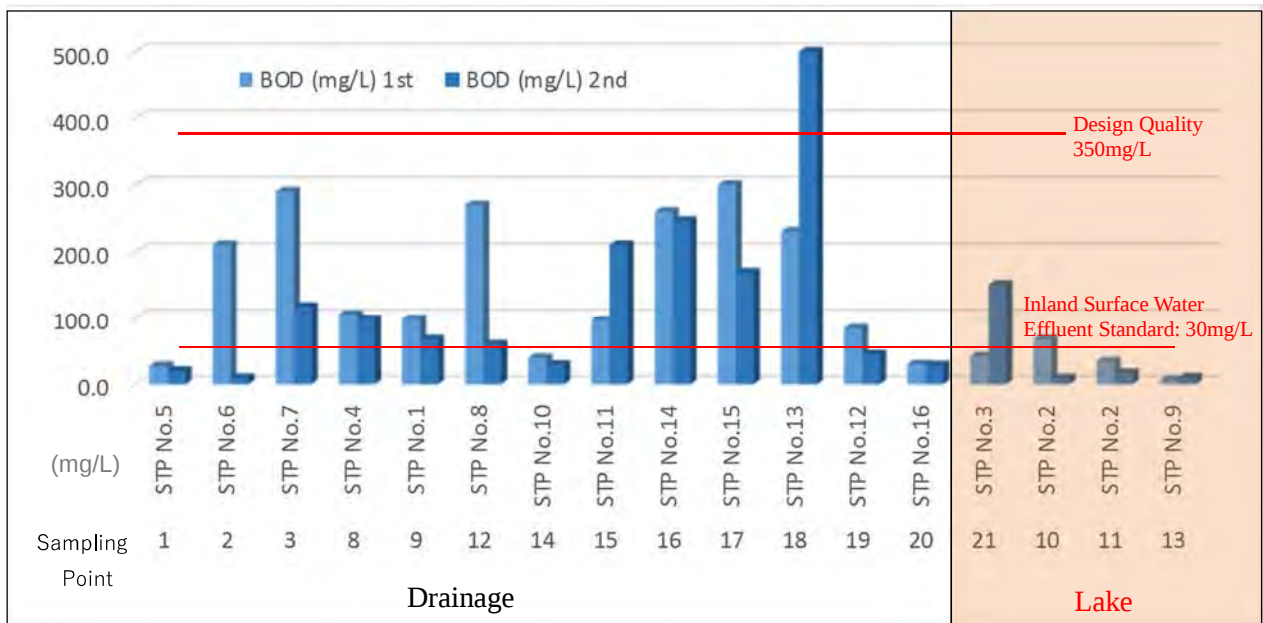


Figure 8.2.6 Results for BOD Concentration at Sampling Points

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Report No. : ED/2016/11/0247	Report Date : 18/11/2016
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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0247
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Hagadur STP-5, Belandur Lake, Customer Ref.No: No.5,DOS: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 10.45 AM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour with little suspended solids.		
1	pH	7.47 @ 26.1°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	25	--	IS:3025 (P 9)
3	Turbidity, NTU	18.0	Max.2	IS: 3025 (P10)
	Total Suspended solids, mg/L	14.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	89.9	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	27.6	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	33.7	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	2.7	---	IS: 3025 (P 38)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P 34)
10	Total Nitrogen, as N, mg/L	45.2	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	< 0.1	--	IS: 3025(P 34)

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0247
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Hagadur STP-5, Belandur Lake, Date of Sampling: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 10.45 AM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	9200000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY

(LAVINA M FERNANDES Dty. Mgr.-Microbiology)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0248
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Naganathapura, Doddanagamangala Bus Stop, Bangalore, Customer Ref.No:
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 1.10 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having objectionable odour with suspended solids.		
1	pH	7.21 @ 26.1°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	27	—	IS: 3025 (P 9)
	Turbidity, NTU	104.5	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	44.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	376.1	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	210.0	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	54.2	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	5.6	—	IS : 3025 (P 31)
9	Dissolved oxygen, mg/L	< 1.0	—	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	78.9	—	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	15.1	—	IS: 3025(P 34)

ANALYST

AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sampling Collected By: Our representative	Job Order No. : ED/2016/11/0248
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Naganathapura, Doddanagamangala Bus Stop, Bangalore, DOS: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 1.10 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	22000000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(LAVINA M FERNANDES Dty. Mgr.-Microbiology)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0249
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Pillaganahalli, SK Garden, Bangalore, Customer Ref.No: No.7,DOS: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 2.25 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless turbid liquid having objectionable odour with suspended solids.		
1	pH	7.53 @ 26.1°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	28	--	IS:3025 (P 9)
3	Turbidity, NTU	166.5	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	78.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	599.6	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	290.0	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	102.3	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	7.8	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	---	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	140.9	---	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	< 0.1	---	IS: 3025(P 34)

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0249
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Pillaganahalli, SK Garden, Bangalore, Date of Sampling: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 2.25 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	28000000		IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

AUTHORIZED SIGNATORY

(LAVINA M FERNANDES Dty. Mgr.-Microbiology)

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TEST REPORT

Report No. : ED/2016/11/0250	Report Date : 18/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 09/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Inlet Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0250
Sample Collected by : Our representative	Sample Particulars : STP Inlet Water from Chellagatta K&C Valley 30 MLD, Date of Sampling: 09/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 09/11/2016
	Time of Collection : 5.00 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having objectionable odour with suspended solids.	
1	pH	7.19 @ 25.8°C	IS: 3025 (P11)
2	Temperature, deg C	27	IS:3025 (P 9)
3	Turbidity, NTU	125.0	IS: 3025 (P10)
4	Total Suspended solids, mg/L	132.0	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	474.2	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	240.0	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	42.7	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	2.6	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	84.2	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	31.3	IS: 3025(P 34)

ANALYST

AUTHORIZED SIGNATORY

(S. JYOTHI LAKSHMI-Deputy Manager)

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Format No. BTH/QF/191

Revision Status : R1 Issue Dt. : 16-09-2016



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 Ph.: 23356415, 23385979, 23502684, 23388895, Fax: 080-23502689
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TEST REPORT

Report No. : ED/2016/11/0250	Report Date : 18/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 09/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Inlet Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0250
Sample Collected by : Our representative	Sample Particulars : STP Inlet Water from Chellagatta K&C Valley 30 MLD, Date of Sampling: 09/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 09/11/2016
	Time of Collection : 5.00 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	MICROBIOLOGICAL TESTS :		
1	Coliform organisms/100ml	17000000	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
 (LAVINA M FERNANDES Dty. Mgr.-Microbiology)

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TEST REPORT

Report No. : ED/2016/11/0251	Report Date : 18/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 09/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Outlet Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0251
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Outlet Water from Chellagatta K&C Valley 30 MLD, Customer Ref.No: EX,DOS: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 5.10 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour.		
1	pH	7.70 @ 25.9°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	27	—	IS:3025 (P 9)
3	Turbidity, NTU	0.6	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	2.0	Max.30	IS: 3025 (P 17)
	Chemical Oxygen Demand, mg/L	9.1	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	2.4	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	1.2	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	1.3	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	5.0	---	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	1.9	---	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	< 0.1	---	IS: 3025(P 34)

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0251	Report Date : 18/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 09/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 10/11/2016
Sample Nature/ Name : STP Outlet Water	Date of Start of Test : 11/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 18/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0251
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Outlet Water from Chellagatta K&C Valley 30 MLD, Date of Sampling: 09/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 09/11/2016
	Time of Collection : 5.10 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	54000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY

(LAVINA M FERNANDES Dty. Mgr.-Microbiology)

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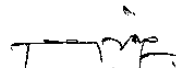
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Page : 1 of 2			
Report No. : ED/2016/11/0538		Report Date : 24/11/2016	
Issued to : NJS Engineers (India) Pvt Ltd		Customer Reference: Data Sheet, Date: 16/11/2016	
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.		Date of Receipt : 16/11/2016	
Sample Nature/ Name : STP Inlet Water		Date of Start of Test : 17/11/2016	
Sample Condition on receipt : Satisfactory		Date of Completion of Test : 24/11/2016	
Sample Qty. : 2ltr		Job Order No. : ED/2016/11/0538	
Sample Collected by : Our representative		Sample Particulars : STP Inlet Water from Raja Canel 40 MLD BWSSB, Hennur Main Road, Guddahalli, Bangalore -77. Customer Ref.No: No.EX,DOS: 16/11/2016	
Reference to Sampling Procedure : BTH/WI/800		Date of Collection : 16/11/2016	
		Time of Collection : 12.30 PM	

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having objectionable odour with sediments.	
1	pH	7.41 @ 25.2°C	IS: 3025 (P11)
2	Temperature, deg C	26	IS:3025 (P 9)
3	Turbidity, NTU	131.5	IS: 3025 (P10)
4	Total Suspended solids, mg/L	80.0	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	370.0	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	195.0	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	53.0	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	10.0	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	78.3	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	19.3	IS: 3025(P 34)


ANALYST


AUTHORIZED SIGNATORY
(NAGARAJU.U-Asst. Manager)

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TEST REPORT

Report No. : ED/2016/11/0538	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Inlet Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0538
Sample Collected by : Our representative	Sample Particulars : STP Inlet Water from Raja Canel 40 MLD BWSSB, Hennur Main Road, Guddahalli, Bangalore -77. Customer Ref.No: No.EX,DOS: 16/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 16/11/2016
	Time of Collection : 12.30 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	MICROBIOLOGICAL TESTS :		
1	Coliform organisms/100ml	54000000	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
 (A.YAMUNA Asst. Mgr.-Microbiology)

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TEST REPORT

Report No. : ED/2016/11/0539	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Outlet Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0539
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : from Raja Canel 40 MLD BWSSB, Hennur Main Road, Guddahalli, Customer Ref.No: No.EX
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 12.45 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid .		
1	pH	7.78 @ 24.4°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	26	--	IS:3025 (P 9)
3	Turbidity, NTU	1.7	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	6.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L :	14.0	Max.250	APHA
3	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	3.3	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	5.7	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	0.73	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	6.8	--	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	9.81	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	2.7	--	IS: 3025(P 34)

ANALYST

AUTHORIZED SIGNATORY
(NAGARAJU.U-Asst. Manager)

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TEST REPORT

Report No. : ED/2016/11/0539	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Outlet Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0539
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : from Raja Canal 40 MLD BWSSB, Hennur Main Road, Guddahalli, Customer Ref.No: No.EX
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 12.45 PM

Sl. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	92000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

(Signature)
AUTHORIZED SIGNATORY
 (A.YAMUNA Asst. Mgr.-Microbiology)

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TEST REPORT

Report No. : ED/2016/11/0540	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0540
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Belishevelli Lake, Bhirathi Road, Bangalore. Customer Ref.No: No.4,DOS: 16/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 01.15 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour with sediments .		
1	pH	7.35 @ 24.4°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	26	--	IS:3025 (P 9)
3	Turbidity, NTU	40.8	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	34.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	189.2	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	105.0	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	42.7	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	2.8	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	66.2	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	13.8	--	IS: 3025(P 34)

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(NAGARAJU.U-Asst. Manager)

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TEST REPORT

Report No. : ED/2016/11/0540	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sampling Collected By: Our representative	Job Order No. : ED/2016/11/0540
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Belishevelli Lake, Bhirathi Road, Bangalore. Customer Ref.No: No.4,DOS: 16/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 01.15 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	35000000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
(A.YAMUNA Asst. Mgr.-Microbiology)

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Report No. : ED/2016/11/0541	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0541
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Kogile Lake, Bangalore. Customer Ref. No: No.1 DOS: 16/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 03.00 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour with sediments.		
1	pH	7.49 @ 24.6°C	6.0 - 9.0	IS: 3025 (P11)
2	Temperature, deg C	26	--	IS:3025 (P 9)
3	Turbidity, NTU	40.8	Max.2	IS: 3025 (P10)
4	Total Suspended solids, mg/L	26.0	Max.30	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	156.3	Max.250	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	98.0	Max.20	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	34.9	Max.50	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	2.9	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	48.7	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	7.8	--	IS: 3025(P 34)

ANALYST

AUTHORIZED SIGNATORY
(NAGARAJU.U-Asst. Manager)

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Report No. : ED/2016/11/0541	Report Date : 24/11/2016
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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 24/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0541
Reference to Sampling Procedure : BTH/WI/800	Sample Particulars : STP Water from Kogile Lake, Bangalore. Customer Ref.No: No.1 DOS: 16/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 16/11/2016
	Time of Collection : 03.00 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	161000000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
 (A.YAMUNA Asst. Mgr.-Microbiology)

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Report No. : ED/2016/11/0542	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : Lake Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0542
Sample Collected by : Our representative	Sample Particulars : Lake Water -Left Side- from Kenchana Halli, Doddaballapur Road, Customer Ref.No: No.2,DOS: 16/11/2016
Reference to Sampling Procedure : BTH/WW/800	Date of Collection : 16/11/2016
	Time of Collection : 04.00 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having green sediments & suspended solids.	
1	pH	8.30 @ 24.8°C	IS: 3025 (P11)
2	Temperature, deg C	26	IS:3025 (P 9)
3	Turbidity, NTU	279.0	IS: 3025 (P10)
4	Total Suspended solids, mg/L	220.0	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	419.4	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	67.5	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	58.4	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	0.79	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	4.4	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	95.2	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	30.1	IS: 3025(P 34)

[Signature]
 ANALYST

[Signature]
 AUTHORIZED SIGNATORY
 (NAGARAJU.U-Asst. Manager)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : Lake Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0542
Sample Collected by : Our representative	Sample Particulars : Lake Water -Left Side- from Kenchanaahalli, Doddaballapur Road, Customer Ref.No: No.2,DOS: 16/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 16/11/2016
	Time of Collection : 04.00 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	MICROBIOLOGICAL TESTS :		
1	Coliform organisms/100ml	2400000	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(A.YAMUNA Asst. Mgr.-Microbiology)

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Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : Lake Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0543
Sample Collected by : Our representative	Sample Particulars : Lake Water -Right Side, from Kenchanaahalli, Doddaballapur Road, Yelahanka, Bangalore. Customer Ref.No: No.3 DOS: 16/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 16/11/2016
	Time of Collection : 04.15 PM

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having green sediments & suspended solids.	
1	pH	8.82 @ 24.9°C	IS: 3025 (P11)
2	Temperature, deg C	26	IS:3025 (P 9)
3	Turbidity, NTU	194.0	IS: 3025 (P10)
4	Total Suspended solids, mg/L	80.0	IS: 3025 (P 17)
5	Chemical Oxygen Demand, mg/L	275.0	APHA
6	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	34.3	IS: 3025 (P 44)
7	Ammoniacal Nitrogen, as N, mg/L	6.6	IS: 3025 (P34)
8	Total Phosphorus, as P, mg/L	0.64	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	8.7	IS: 3025 (P 38)
10	Total Nitrogen, as N, mg/L	51.2	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	28.3	IS: 3025(P 34)

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(NAGARAJU.U-Asst. Manager)

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TEST REPORT

Report No. : ED/2016/11/0543	Report Date : 24/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 16/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 16/11/2016
Sample Nature/ Name : Lake Water	Date of Start of Test : 17/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 24/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0543
Sample Collected by : Our representative	Sample Particulars : Lake Water -Right Side, from KenchanaHalli, Doddaballapur Road, Yelahanka, Bangalore. Customer Ref.No: No.3 DOS: 16/11/2016
Reference to Sampling Procedure : BTH/WI/800	Date of Collection : 16/11/2016
	Time of Collection : 04.15 PM

SL. No.	PARAMETERS	RESULTS	Test Method
1	MICROBIOLOGICAL TESTS :		
2	Coliform organisms/100ml	170000	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(A.YAMUNA Asst. Mgr.-Microbiology)

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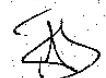
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TEST REPORT

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Report No. : ED/2016/11/0657	Report Date : 28/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
	Date of Start of Test : 21/11/2016
Sample Nature/ Name : STP Water	Date of Completion : 28/11/2016
	Job Order No. : ED/2016/11/0657
Sample Condition on receipt : Satisfactory	Sample Particulars : STP Water from Thalagattapura Road Police Station Pipeline, Customer Ref.No: No.8.
Sampling Collected By Our representative	Sample Qty. : 2ltr
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Date of Collection : 18/11/2016
	Time of Collection : 9.50 AM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless turbid liquid having objectionable odour with suspended solids.		
1	Temperature, deg C	26	--	IS:3025 (P 9)
2	pH	8.39 @ 25°C	6.0 - 9.0	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	140.0	Max.30	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	452.3	Max.250	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	270.0	Max.20	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	54.7	Max.50	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	153.8	Max.2	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	4.7	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	75.6	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	1.5	--	IS: 3025(P34) 1988 RA 2014



ANALYST


AUTHORIZED SIGNATORY
(S. JYOTHI LAKSHMI-Deputy Manager)

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Report No. : ED/2016/11/0657	Report Date : 28/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan , BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 28/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0657
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Thalagattapura Road Police Station Pipeline, Customer Ref.No: No.8.
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 9.50 AM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	17000000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
(A.YAMUNA Asst. Mgr.-Microbiology)

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Report No. : ED/2016/11/0658	Report Date : 28/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : Lake Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 28/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0658
Sample Collected by : Our representative	Sample Particulars : Lake Water from Sompura Lake, BDA Layout, Banashankari 6th Stage, Customer Ref.No: No.9 DOS: 18/11/2016
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Date of Collection : 18/11/2016
	Time of Collection : 11.00 AM

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having slight odour.	
1	Temperature, deg C	26	IS:3025 (P 9)
2	pH	8.38 @ 25°C	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	18.0	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	25.3	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	6.0	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	< 0.5	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	21.0	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	0.05	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	5.6	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	15.9	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	11.8	IS: 3025(P34) 1988 RA 2014

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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 Ph.: 23356415, 23385979, 23502684, 23388895, Fax: 080-23502689
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TEST REPORT

Report No. : ED/2016/11/0659	Report Date : 28/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Inlet Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 28/11/2016
Sample Qty. : 2ltr	Job Order No. : ED/2016/11/0659
Sample Collected by : Our representative	Sample Particulars : STP Inlet Water from Varhasandra Lake, Varhasandra Main Road. Customer Ref.No: No.10,DOS: 18/11/2016
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Date of Collection : 18/11/2016
	Time of Collection : 11.23 AM

SL. No.	PARAMETERS	RESULTS	Test Method
	Description :	Almost colourless liquid having slight odour.	
1	Temperature, deg C	26	IS:3025 (P 9)
2	pH	8.21 @ 24.9°C	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	20.0	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	78.1	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	39.6	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	17.1	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	20.0	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	1.5	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	25.0	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	1.5	IS: 3025(P34) 1988 RA 2014

ANALYST

AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0662	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0662
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Kachohalli, Near HP Petrol Bunk, Customer Ref.No: No.15 DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 1.00 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description	Almost colourless turbid liquid having objectionable odour with suspended solids.		
1	Temperature, deg C	25	--	IS:3025 (P 9)
2	pH	8.30 @ 24.7°C	6.0 - 9.0	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	472.0	Max.30	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	756.6	Max 250	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	300.0	Max.20	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	57.6	Max.50	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	237.5	Max.2	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	5.9	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	93.8	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	1.5	--	IS: 3025(P34) 1988 RA 2014

ANALYST

(Signature)
AUTHORIZED SIGNATORY
(S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0664	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0664
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : from Narasimhaya Layout, Tirumala Grama, Thippenahalli, Customer Ref.No: No.12 DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 2.00 PM

SL No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour with little suspended solids.		
1	Temperature, deg C	25	--	IS:3025 (P 9)
2	pH	8.41 @ 25°C	6.0 - 9.0	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	40.0	Max.30	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	176.8	Max.250	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	84.0	Max.20	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	43.5	Max.50	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	80.5	Max.2	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	2.6	--	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	< 1.0	--	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	83.8	--	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	1.5	--	IS: 3025(P34) 1988 RA 2014

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0665	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0665
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Chikkabanavara Lake, Customer Ref.No: No.16,DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 4.30 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless turbid liquid having slight odour with little suspended solids.		
1	Temperature, deg C	26	--	IS:3025 (P 9)
2	pH	8.55 @ 25.1°C	6.0 - 9.0	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	532.0	Max.30	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	123.4	Max.250	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	30.0	Max.20	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	47.0	Max.50	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	231.3	Max.2	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	3.5	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	4.0	--	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	57.3	---	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	0.9	---	IS: 3025(P34) 1988 RA 2014

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0665	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference : Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0665
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Chikkabanavara Lake, Customer Ref.No: No.16,DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 4.30 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	24000000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

[Signature]
ANALYST

[Signature]
AUTHORIZED SIGNATORY
(A.YAMUNA Asst. Mgr.-Microbiology)

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TEST REPORT

Report No. : ED/2016/11/0666	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0666
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Attur Village, Yalahanka Lake. Customer Ref.No.:No.17 DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 5.00 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
	Description :	Almost colourless liquid having slight odour with little suspended solids.		
1	Temperature, deg C	26	--	IS:3025 (P 9)
2	pH	8.35 @ 25.3°C	6.0 - 9.0	IS:3025 (P11) 1983 RA 2012
3	Total Suspended solids, mg/L	20.0	Max.30	IS: 3025 (P 17) 1984 RA 2012
4	Chemical Oxygen Demand, mg/L	86.4	Max.250	APHA
5	Biochemical Oxygen Demand, mg/L (for 3 days at 27Deg C)	42.0	Max.20	IS: 3025 (P44) 1993 RA 2014
6	Ammoniacal Nitrogen, as N, mg/L	32.3	Max.50	IS: 3025 (P34) 1988 RA 2014
7	Turbidity, NTU	37.5	Max.2	IS: 3025 (P10) 1984 RA 2012
8	Total Phosphorus, as P, mg/L	2.3	---	IS : 3025 (P31)
9	Dissolved oxygen, mg/L	4.4	--	IS: 3025 (P38) 1989 RA 2014
10	Total Nitrogen, as N, mg/L	37.3	---	IS: 3025 (P 34)
11	Nitrate Nitrogen, as N, mg/L	0.3	--	IS: 3025(P34) 1988 RA 2014

ANALYST

(Signature)
 AUTHORIZED SIGNATORY
 (S. JYOTHI LAKSHMI-Deputy Manager)

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TEST REPORT

Report No. : ED/2016/11/0666	Report Date : 26/11/2016
Issued to : NJS Engineers (India) Pvt Ltd	Customer Reference: Data Sheet, Date: 18/11/2016
Project Office: 9th Floor, BWSSB Building, K.G. Road, Cauvery Bhavan, BANGALORE - 560009.	Date of Receipt : 19/11/2016
Sample Nature/ Name : STP Water	Date of Start of Test : 21/11/2016
Sample Condition on receipt : Satisfactory	Date of Completion of Test : 26/11/2016
Sampling Collected By Our representative	Job Order No. : ED/2016/11/0666
Reference to Sampling Procedure : BTH/WI/800 & BTH/WP/709	Sample Particulars : STP Water from Attur Village, Yalahanka Lake. Customer Ref.No.:No.17 DOS: 18/11/2016
	Sample Qty. : 2ltr
	Date of Collection : 18/11/2016
	Time of Collection : 5.00 PM

SL. No.	PARAMETERS	RESULTS	LIMITS AS PER KSPCB	Test Method
MICROBIOLOGICAL TESTS :				
1	Coliform organisms/100ml	920000	--	IS: 1622 - 1981

Note: All the above tests are conducted in Location 2 (D-98).

ANALYST

AUTHORIZED SIGNATORY
 (A.YAMUNA Asst. Mgr.-Microbiology)

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1st Sampling, Nov. 2016



1st Sampling, Nov. 2016



1st Sampling, Nov. 2016



1st Sampling, Nov. 2016



1st Sampling, Nov. 2016



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20161118_140126



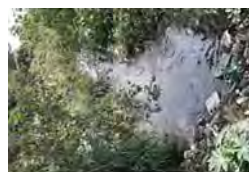
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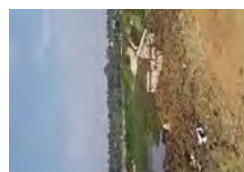
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20161118_103330



20161118_103445



20161118_103624



20161118_103628



20161118_103710



20161118_103731



20161118_105812



20161118_110005



20161118_110010



20161118_110040



20161118_110046



20161118_110116



20161118_110126

1st Sampling, Nov. 2016



20161118_110158



20161118_110220



20161118_110225



20161118_111832



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20161118_114106



20161118_114418



20161118_114623



20161118_123327



20161118_123329



20161118_123333



20161118_123336



20161118_123343



20161118_123348



20161118_124733



20161118_124736



20161118_125028



20161118_125031



20161118_125044



20161118_125046



20161118_125050

1st Sampling, Nov. 2016



20161118_125106



20161118_125454



20161118_133923



20161118_133925



20161118_133928



20161118_133930



20161118_133932



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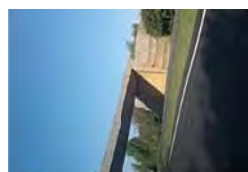
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060843



060849



061008



061013



061016



061537



061605



061626



061631



061634



061644



061704



061707



061739



061742



061746



061748



061750



061946



062310



062314



062326



121107



121112

				
121125	121131	121139	121602	121604
				
121606	121609	121614	122332	122342
				
122345	122351	122357	122453	122455
				
122457	122458	122500	122506	125343
				
125648	125653	125733	125736	125738
				
125747	125749	135144	135148	135151
				
135223	135302	135312	135314	135316



135318



135324



212455

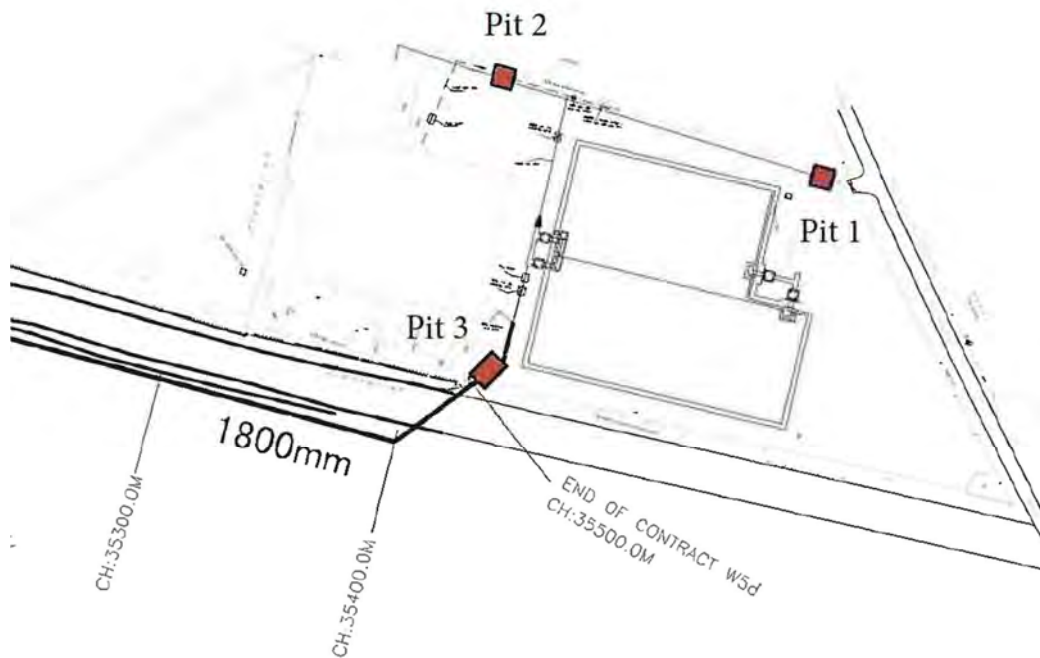
Data Report
Test Pit Survey

Report, Data and Photos

* Note: All the raw data are compiled in the soft copy.

Kindly refer to the data file.

Test Pit Survey at GKV GLR



PIT No. 1 at GKVK GLR

1. Date of Excavation : 07-Feb-2017
2. Location of Test Pit : Latitude: 13° 5' 27.991" N
Longitude: 77° 33' 31.026" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : 1000mm
 - b. Material : MS
 - c. Depth of Pipe Top From Ground Level : 2.1m
 - d. Depth of Pipe Bottom From Ground Level : 3.1m
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A
6. Photographs



PIT No. 2 at GKV K GLR

1. Date of Excavation : 07-Feb-2017
2. Location of Test Pit : Latitude: 13° 5' 24.968" N
Longitude: 77° 33' 30.804" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : 1000mm
 - b. Material : MS
 - c. Depth of Pipe Top From Ground Level : 2.3m
 - d. Depth of Pipe Bottom From Ground Level : 3.3m
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A
6. Photographs



PIT No. 3 at GKVK GLR

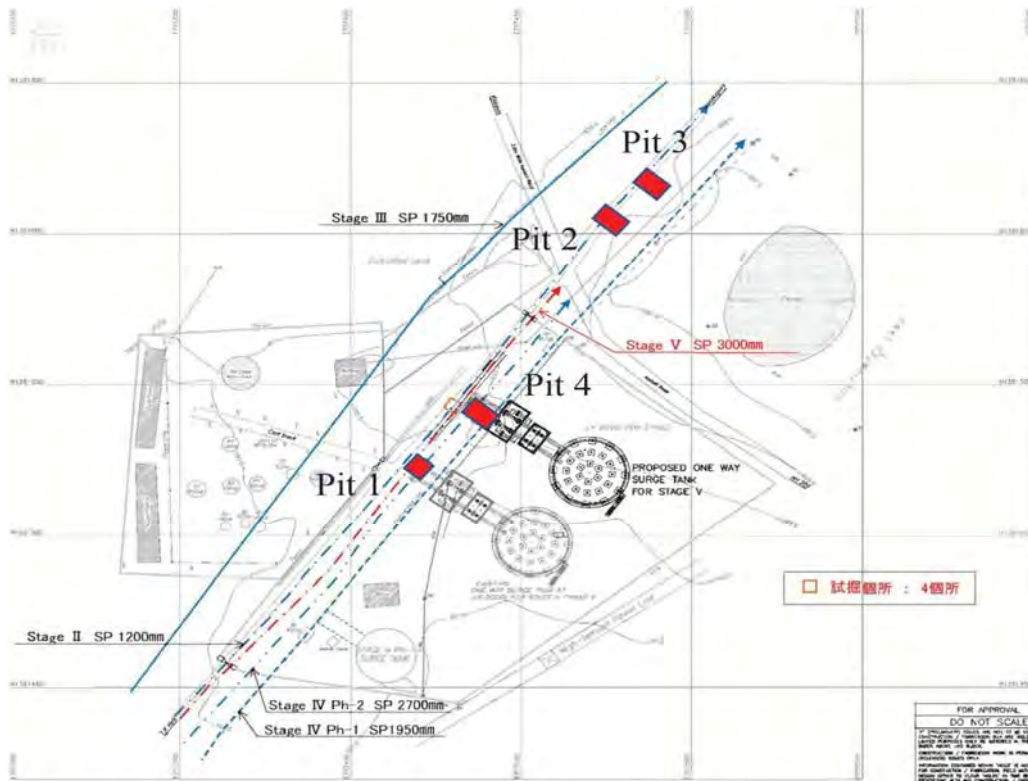
1. Date of Excavation : 07-Feb-2017
2. Location of Test Pit : Latitude: 13° 5' 25.19" N
Longitude: 77° 33' 34.698" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : N/A
 - b. Material : N/A
 - c. Depth of Pipe Top From Ground Level : N/A
 - d. Depth of Pipe Bottom From Ground Level : N/A
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A

Encountered Top of Trust Block at 3.1m below ground level and hence it is presumed that the pipe is more than 3m below ground level.

6. Photographs



Test Pit Survey at J G Doddi Surge Tank



PIT No. 1 at J G Doddi

1. Date of Excavation : 11-Feb-2017
2. Location of Test Pit : Latitude: 12° 29' 12.882" N
Longitude: 77° 22' 6.048" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : N/A
 - b. Material : N/A
 - c. Depth of Pipe Top From Ground Level : N/A
 - d. Depth of Pipe Bottom From Ground Level : N/A
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A

Encountered Top of Trust Block at 1m below ground level and hence it is presumed that the pipe is more than 1m below ground level. The BWSSB Engineer in charge at Site informed that Thrust Block has been provided through the pipeline inside the Compound.

6. Photographs



PIT No. 2 at J G Doddi

1. Date of Excavation : 11-Feb-2017
2. Location of Test Pit : Latitude: 12° 29' 17.16" N
Longitude: 77° 22' 9.762" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : N/A
 - b. Material : N/A
 - c. Depth of Pipe Top From Ground Level : N/A
 - d. Depth of Pipe Bottom From Ground Level : N/A
5. Utilities
 - e. Type : N/A
 - a. Diameter : N/A
 - b. Material : N/A
 - c. Depth : N/A

No Pipe was Encountered until a depth of 3.6m. Hence, next Pit No. 3 was dug on the same pipe line around 30m downstream.

6. Photographs



PIT No. 3 at J G Doddi

1. Date of Excavation : 11-Feb-2017
2. Location of Test Pit : Latitude: 12° 29' 17.76" N
Longitude: 77° 22' 10.362" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : 1750mm
 - b. Material : MS
 - c. Depth of Pipe Top From Ground Level : 2.1m
 - d. Depth of Pipe Bottom From Ground Level : 3.85m
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A
6. Photographs



PIT No. 4 at J G Doddi

1. Date of Excavation : 11-Feb-2017
2. Location of Test Pit : Latitude: 12° 29' 13.17" N
Longitude: 77° 22' 7.29" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : 2700mm
 - b. Material : MS
 - c. Depth of Pipe Top From Ground Level : 0.8m
 - d. Depth of Pipe Bottom From Ground Level : 3.5m
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A
6. Photographs



Test Pit Survey at SINGHAPUR GLR

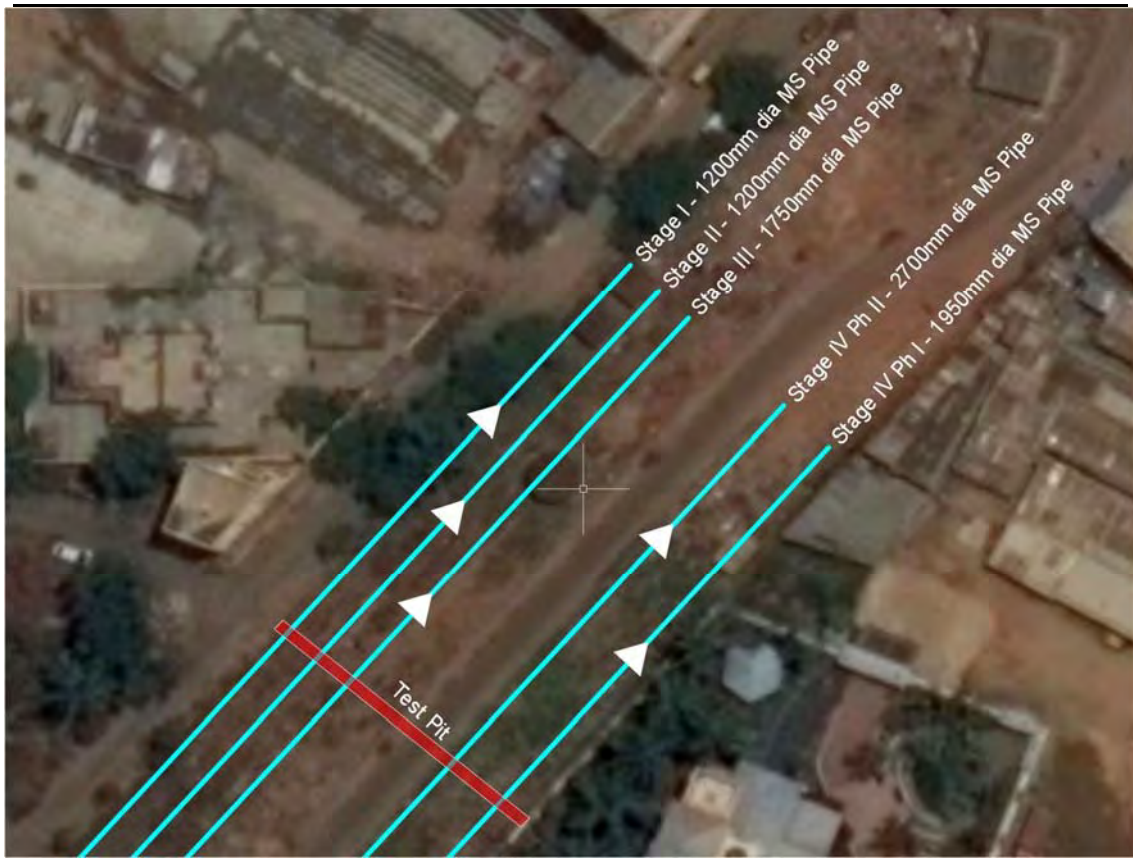


PIT No. 1 at Singhapur GLR

1. Date of Excavation : 07-Feb-2017
2. Location of Test Pit : Latitude: 13° 4' 53.996" N
Longitude: 77° 32' 25.224" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line
 - a. Diameter : 800mm
 - b. Material : MS
 - c. Depth of Pipe Top From Ground Level : 1.67m
 - d. Depth of Pipe Bottom From Ground Level : 2.47m
5. Utilities
 - a. Type : N/A
 - b. Diameter : N/A
 - c. Material : N/A
 - d. Depth : N/A
6. Photographs



Test Pit Survey at VAJARAHALLI



PIT at Vajarahalli

1. Date of Excavation : 10-Feb-2017
2. Location of Test Pit : Latitude: 12° 52' 26.562" N
Longitude: 77° 32' 11.148" E
3. Geological and Ground Water Condition : Did not encounter any ground water table within 3 meters of digging.
4. Details of Existing Water Supply Line

Stage I

- a. Diameter : 1200mm
- b. Material : MS
- c. Depth of Pipe Top From Ground Level : 2.29m
- d. Depth of Pipe Bottom From Ground Level : 3.49m

Stage II

- a. Diameter : 1200mm
- b. Material : MS
- c. Depth of Pipe Top From Ground Level : 1.07m
- d. Depth of Pipe Bottom From Ground Level : 2.27m

Stage III

- a. Diameter : 1750mm
- b. Material : MS
- c. Depth of Pipe Top From Ground Level : 0.3m
- d. Depth of Pipe Bottom From Ground Level : 2.05m

Stage IV Ph II

- a. Diameter : 2700mm
- b. Material : MS
- c. Depth of Pipe Top From Ground Level : 1.37m
- d. Depth of Pipe Bottom From Ground Level : 4.07m

Stage IV Ph I

- a. Diameter : 1950mm
- b. Material : MS
- c. Depth of Pipe Top From Ground Level : 1.21m
- d. Depth of Pipe Bottom From Ground Level : 3.16m

5. Utilities

- a. Type : N/A
- b. Diameter : N/A
- c. Material : N/A
- d. Depth : N/A

6. Photographs





