

J&K LAKES AND WATERWAYS DEVELOPMENT AUTHORITY.

Research & Monitoring Division, Miskeen Bagh, Srinagar.

Physico-chemical analysis report of different STPs as on 25-02-2021.

Parameters	Units	Hazratbal		Habak		Laam		Brarinambal LDA		Brarinambal UEED		Nallah Amir Khan		Norms as per NGT	Permissible limits as per CPCB
		Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final		
Air Temperature	°C	13.0		12.9		15.0		14.9		14.9		14.7		--	--
W. Temp.	°C	11.9	11.9	11.1	10.9	11.4	11.3	11.4	11.2	12.0	11.8	11.9	11.3	--	5°C above receiving water body
pH	--	7.2	7.6	7.1	7.5	7.3	7.7	7.1	7.8	7.1	7.4	7.4	7.8	5.5-9.0	5.5-9.0
Dissolved Oxygen	mg/l	0.2	4.0	0.4	4.2	1.0	5.2	0.4	6.0	0.2	3.4	0.4	5.8		--
Ammonical Nitrogen	mg/l	17.9	16.4	22.2	17.9	14.8	12.2	15.1	3.1	15.2	15.0	18.3	5.9	TOTAL NITROGEN : 10	50
Total Phosphorous	mg/l	3.8	1.5	3.6	1.2	2.8	0.9	3.2	0.6	3.1	2.5	2.8	0.7	1.0 as T.P	5.0
T.S.S	mg/l	295	37	267	38	146	45	448	20	210	142	413	18	--	100
Fecal Coliform	Col/100 ml	-	950	-	950	-	650	--	550	--	3600	-	600	Desirable =100 Permissible =230	-

Note: - Samples for BOD Estimation under incubation.

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Parameters	Units	Hazratbal		Habak		Laam		Brarinambal LDA		Brarinambal UEED		Nallah Amir Khan		Norms as per NGT	Permissible limits as per CPCB
		Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final		
Air Temperature	°C	13.0		13.3		12.9		12.1		12.4		12.7		--	--
W. Temp.	°C	12.2	12.5	11.6	11.8	11.2	11.4	10.9	11.1	11.7	11.4	11.7	11.5	--	5°C above receiving water body
pH	--	7.0	7.5	7.2	7.4	7.3	7.6	7.2	7.9	7.2	7.4	7.5	7.8	5.5-9.0	5.5-9.0
Dissolved Oxygen	mg/l	0.8	4.0	0.2	4.0	0.6	4.4	0.8	6.2	0.8	3.0	0.8	5.6		--
Ammonical Nitrogen	mg/l	18.9	15.5	24.8	20.8	13.4	11.6	17.5	2.7	19.8	14.0	18.4	3.2	TOTAL NITROGEN : 10	50
Total Phosphorous	mg/l	3.5	1.4	3.1	0.9	2.2	0.8	3.3	0.7	3.2	2.6	2.9	0.8	1.0 as T.P	5.0
T.S.S	mg/l	328	39	297	44	183	28	294	19	258	146	285	18	--	100
Fecal Coliform	Col/100 ml	-	1150	-	1000	-	650	--	600	--	3800	-	550	Desirable =100 Permissible =230	-

Note: - Samples for BOD Estimation under incubation

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		Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final	Raw	Final		
Air Temperature	°C	NA		2.5		2.5		2.0		2.0		3.6		--	--
W. Temp.	°C	NA	NA	9.9	9.6	9.9	10.1	10.0	10.3	10.2	10.1	10.9	10.3	--	5°C above receiving water body
pH	--	NA	NA	7.0	7.3	7.1	7.6	7.1	7.7	7.0	7.3	7.4	7.6	5.5-9.0	5.5-9.0
Dissolved Oxygen	mg/l	NA	NA	0.4	4.0	0.8	5.2	0.6	5.8	0.6	3.2	0.8	5.2		--
Ammonical Nitrogen	mg/l	NA	NA	13.7	11.8	10.8	10.6	15.6	2.1	14.1	14.0	17.2	2.2	TOTAL NITROGEN : 10	50
Total Phosphorous	mg/l	NA	NA	2.8	1.1	1.5	0.7	2.6	0.6	2.9	2.5	2.7	0.7	1.0 as T.P	5.0
T.S.S	mg/l	NA	NA	298	64	393	29	298	16	362	256	414	21	--	100
Fecal Coliform	Col/100 ml	-	NA	-	700	-	550	--	500	--	2500	-	500	Desirable =100 Permissible =230	-

Note: - Samples for BOD Estimation under incubation
Drop in air temperature due to snowing/raining throughout the day.