



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Project	:	Shiga Energy Pvt. Ltd. (2 x 48.5 MW)	Type of Project	:	Hydro Electric Project
Address	:	Power House Tashiding, Hydro Electric Project, Kagaythang, P.O. - Kagaythang, Geyzing, Yangtey, West Sikkim - 737111	Sampling Date	:	06.06.2023
			Period of Analysis	:	07.06.2023 - 17.06.2023
			Date of Issue	:	19.06.2023
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Water Sample (Drinking Water)
Location	:	Kagaythang Power House Complex	Report No.	:	ENV/213/June/TR(W)/M(ii)/22-23

PARAMETERS		METHOD	UNIT	RESULTS	LIMIT (IS:10500-2012)	
					Acceptable	Permissible
1.	Colour	IS 3025 (Part 4) : 2021	Hazen	1.0	5.0	15.0
2.	Odour	IS 3025 (Part 5) : 2018	--	Odourless	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 4) : 2021	--	Acceptable	Agreeable	Agreeable
4.	pH	IS 3025 (Part 11) : 2022	--	7.28	6.5-8.5	No Relaxation
5.	Total Hardness	IS 3025 (Part 21) : 2019	mg./l	13.0	200.0	600.0
6.	Calcium	IS 3025 (Part 40) : 2019	mg./l	4.0	75.0	200.0
7.	Magnesium	IS 3025 (Part 46) : 2019	mg./l	<1.0	30.0	100.0
8.	Chloride	IS 3025 (Part 32) : 2019	mg./l	5.0	250.0	1000.0
9.	Cadmium	IS 3025 (Part 41) : 2019	mg./l	<0.002	0.003	No Relaxation
10.	Total Arsenic	IS 3025 (Part 37) : 2019	mg./l	<0.01	0.01	No Relaxation*
11.	Turbidity	IS 3025 (Part 10) : 2017	NTU	<1.0	1.0	5.0
12.	Fluoride	IS 3025 (Part 60) : 2019	mg./l	<0.1	1.0	1.5
13.	Phenolic Compound	IS 3025 (Part 43) : 1992 : 2014	mg./l	<0.01	0.001	0.002
14.	Sulphate	IS 3025 (Part 24) Sec.1 : 2022	mg./l	6.50	200.0	400.0

Remarks : a) The (*) marked limit are as per IS:10500-2012 - Drinking Water Specification (Amendment No.1, June'2015) (Second Revision).

b) N.A. means Not Available.

c) Result relates only to the sample tested.

Reviewed By: DURBADAL CHAKRABORTY

[Signature]

Dy. Quality Manager

Approved By:

[Signature]

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical



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			Period of Analysis	:	07.06.2023 - 08.06.2023
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Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Water Sample (Drinking Water)
Location	:	Kagaythang Power House Complex	Report No.	:	ENV/213/June/TR(W)/M(ii)/22-23

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS:10500-2012)
1. Total Coliform	9222 B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml. sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml. sample

Remarks : a) <1.0 indicates "Absent", No Colony developed, i.e. No Coliform Found.

b) CFU indicates Colony Forming Unit.

c) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY

Dy. Quality Manager

Approved By :

Priyanka Mukherjee

PRIYANKA MUKHERJEE
Technical Manager, Microbiology

<End of Report>

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Name of the Project	: Shiga Energy Pvt. Ltd.	Type of Project	: Hydro Electric Project
Address	: Barrage, Sedang, West Sikkim - 737111	Sampling Date	: 06.06.2023
		Period of Analysis	: 07.06.2023 - 17.06.2023
		Date of Issue	: 19.06.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Water Sample (Drinking Water)
Location	: Kagaythang Power House Complex	Report No.	: ENV/213A/June/TF(W)/M(ii)/22-23

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b) N.A. means Not Available.

c) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY

Dy. Quality Manager

Approved By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical