

## **Supplementary Report**

In

National Green Tribunal (CZ)

**O.A. 94 of 2022 Order dated 7.12.2022**

In the matter of

Sambhar Salt Lake

V/s

AVVNL

### **Committee members**

1. Shri Shrawan Kumar Verma, IFS, Deputy Inspector General of Forests - Representative of Director General Forests, MoEF&CC, Govt. of India
2. Dr. Sanjay Deshmukh, Professor of Life Sciences, University of Mumbai Representative, National Wetlands Committee, MoEF&CC, Govt. of India
3. Shri Piyush Samaria, IAS, Collector, Nagaur- Representative of the Chief Secretary, State of Rajasthan
4. Shri Sunil Kumar Meena, Scientist 'D', Central Pollution Control Board (CPCB) (Nodal Agency), Bhopal, Madhya Pradesh- Representative of Nodal agency

## Supplementary Report

(In compliance of NGT O.A. 94 of 2022 order dated 7.12.2022)

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(P Jagan)

Regional Director  
Central Pollution Control Board  
Regional Directorate, Bhopal (M.P.)

## SUPPLEMENTARY REPORT

### In NGT O.A. 94 of 2022 order dated 7.12.2022 IN THE MATTER OF SAMBHAR SALT LAKE VS AVVNL

In compliance of the Hon'ble NGT order dated 7.12.2022 in O.A. 94 of 2022, the waste (sludge) samples analysis report is submitted as under:-

Waste (Sludge) samples were collected from 04 locations of Nawa tehsil of Nagaur district is as stated below:

S. No.	Location	Geo-coordinates
1.	Bhagwati camfood, near railway siding, Nawa, Nagaur	27.028746, 74.990747
2.	Amarnath Foods Pvt Ltd, Jaipur Road, Govindi village, Nawa, Nagaur	27.044827, 75.091844
3.	Pragati Salt Pvt Ltd, Jaipur Road, Rajash village, Nawa, Nagaur	27.035896, 75.051981
4.	Sambhar Salt Limited, Nawa City, Nawa, Nagaur	27.006600, 74.990663

The analysis of the samples were carried out for 13 parameters i.e. Copper, Lead, Cadmium, Zinc, Iron, Sodium, Potassium, Nickel, Manganese, Chromium, Calcium, Magnesium & Sulphate. The analysis report as furnished by Rajasthan State Pollution Control Board (RSPCB) is enclosed as

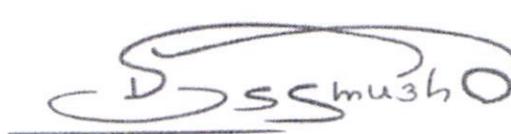
#### Annexure-I

The results of the waste collected from 4 locations is as tabulated below:

S. No.	Parameters (in mg/l)	Sampling location				Concentration limits as per Schedule-II of HOWM Rule, 2016
		Bhagwati Chem Food Pvt. Ltd. Nawa City	Amarnath Foods Pvt. Ltd.	Pragati Salt Pvt. Ltd.	Sambhar Salt Limited, Nawa	
1.	Copper as Cu	0.18	0.12	0.14	0.11	25
2.	Lead as Pb	0.47	0.46	0.47	0.33	5.0
3.	Cadmium as Cd	0.18	0.15	0.15	0.17	1.0
4.	Zinc as Zn	0.11	0.10	0.13	0.07	250
5.	Iron as Fe	0.63	0.44	0.47	0.59	-
6.	Sodium as Na	13175	15425	13175	15925	-
7.	Potassium as K	6.5	5.5	6.5	4.5	-
8.	Nickel as Ni	0.73	0.63	0.63	0.73	20.0
9.	Manganese as Mn	0.53	6.75	0.41	0.36	10.0
10.	Chromium as Cr	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	5.0
11.	Calcium	252.63	491.23	364.91	70.18	-
12.	Magnesium	76.74	123.63	306.95	251.53	-
13.	Sulphate	3571.43	6464.28	8514.28	610.71	-

The table presents the results of waste collected from four different locations, along with the concentration limits as per Schedule-II of HOWM (Hazardous and Other Wastes Management) Rule, 2016. The parameters analyzed include various heavy metals (Copper, Lead, Cadmium, Zinc, Nickel, Manganese, Chromium), as well as Iron, Sodium, Potassium, Calcium, Magnesium, and Sulphate.

The concentration reported for the all the 04 samples for prescribed parameters i.e. Copper, Lead, Cadmium, Zinc, Nickel, Manganese, Chromium are below the concentration limits scheduled under Schedule-II of HOWM Rule, 2016.

 04/07/2023 <b>(SHRAWAN KUMAR VERMA, IFS)</b> Deputy Inspector General of Forests IRO, MoEFCC, Jaipur	 <b>(PROF. DR. SANJAY DESHMUKH)</b> University of Mumbai Member- National Wetlands Committee
 <b>(PIYUSH SAMARIA, IAS)</b> District Collector, Nagaur State of Rajasthan	 <b>(SUNIL KUMAR MEENA, SCIENTIST-D)</b> Central Pollution Control Board Bhopal



## TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&amp;S)

JDA/UDH

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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

### TEST REPORT

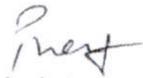
Report No./ULR No. :	110000082	Date :	27-04-2023
Issued To :	M/S Rajasthan State Pollution Control Board Jhalana Institutional Area, Jaipur (Rajasthan),	Type of Unit :	Government Department
Type of sample / Discipline :	Toxicity Characteristic Leaching Procedure (TCLP) / Chemical	Date of Sample Collection/Monitoring :	13-04-2023
Point of Collection :	1. Bhagwati Chem Food Pvt. Ltd. Nawa City	Date of Receipt :	13-04-2023
Date of Test/Analysis :	13-04-2023 to 25-04-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Unit's Representative
Unit's representative :	Mr O.P. Gupta	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Copper as Cu [mg/l]	0.18	USEPA 1311
2	Lead as Pb [mg/l]	0.47	
3	Cadmium as Cd [mg/l]	0.18	
4	Zinc as Zn [mg/l]	0.11	
5	Iron as Fe [mg/l]	0.63	
6	Sodium as Na [mg/l]	13175	
7	Potassium as K [mg/l]	6.5	
8	Nickel as Ni [mg/l]	0.73	
9	Manganese as Mn [mg/l]	0.53	
10	Chromium as Cr [mg/l]	BDL(<0.01)	
11	Calcium [mg/l]	252.63	
12	Magnesium [mg/l]	76.74	
13	Sulphate [mg/l]	3571.43	

**Notes :-**

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
 Senior Analyst  
 Puran Mal Yogi

  
 Authorized Signatory  
 Rajesh Chohan  
 (Report No: 110000082)



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	110000083	Date :	27-04-2023
Issued To :	M/S Rajasthan State Pollution Control Board Jhalana Institutional Area, Jaipur (Rajasthan).	Type of Unit :	Government Department
Type of sample / Discipline :	Toxicity Characteristic Leaching Procedure (TCLP) / Chemical	Date of Sample Collection/Monitoring :	13-04-2023
Point of Collection :	2. Sambhar Salt Limited, Nawa	Date of Receipt :	13-04-2023
Date of Test/Analysis :	13-04-2023 to 25-04-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Unit's Representative
Unit's representative :	Mr O.P. Gupta	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Copper as Cu [mg/l]	0.11	USEPA 1311
2	Lead as Pb [mg/l]	0.33	
3	Cadmium as Cd [mg/l]	0.17	
4	Zinc as Zn [mg/l]	0.07	
5	Iron as Fe [mg/l]	0.59	
6	Sodium as Na [mg/l]	15925	
7	Potassium as K [mg/l]	4.5	
8	Nickel as Ni [mg/l]	0.73	
9	Manganese as Mn [mg/l]	0.36	
10	Chromium as Cr [mg/l]	BDL(<0.01)	
11	Calcium [mg/l]	70.18	
12	Magnesium [mg/l]	251.53	
13	Sulphate [mg/l]	610.71	

Notes :-

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Senior Analyst **Mal Yogi**

  
Authorized Signatory  
**Rakesh Maheshwari**  
(Report No. 110000083)



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	110000084	Date :	27-04-2023
Issued To :	M/S Rajasthan State Pollution Control Board Jhalana Institutional Area, Jaipur (Rajasthan),	Type of Unit :	Government Department
Type of sample / Discipline :	Toxicity Characteristic Leaching Procedure (TCLP) / Chemical	Date of Sample Collection/Monitoring :	13-04-2023
Point of Collection :	3. Amamath Foods Pvt. Ltd.	Date of Receipt :	13-04-2023
Date of Test/Analysis :	13-04-2023 to 25-04-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Unit's Representative
Unit's representative :	Mr O.P. Gupta	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Copper as Cu [mg/l]	0.12	USEPA 1311
2	Lead as Pb [mg/l]	0.46	
3	Cadmium as Cd [mg/l]	0.15	
4	Zinc as Zn [mg/l]	0.10	
5	Iron as Fe [mg/l]	0.44	
6	Sodium as Na [mg/l]	15425	
7	Potassium as K [mg/l]	5.5	
8	Nickel as Ni [mg/l]	0.63	
9	Manganese as Mn [mg/l]	6.75	
10	Chromium as Cr [mg/l]	BDL(<0.01)	
11	Calcium [mg/l]	491.23	
12	Magnesium [mg/l]	123.63	
13	Sulphate [mg/l]	6464.28	

Notes :-

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Senior Analyst

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(Report No: 110000084 )



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**TEST REPORT**

Report No./ULR No. :	110000085	Date :	27-04-2023
Issued To :	M/S Rajasthan State Pollution Control Board Jhalana Institutional Area, Jaipur (Rajasthan),	Type of Unit :	Government Department
Type of sample / Discipline :	Toxicity Characteristic Leaching Procedure (TCLP) / Chemical	Date of Sample Collection/Monitoring :	13-04-2023
Point of Collection :	4. Pragati Salt Pvt. Ltd	Date of Receipt :	13-04-2023
Date of Test/Analysis :	13-04-2023 to 25-04-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Unit's Representative
Unit's representative :	Mr O.P. Gupta	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Copper as Cu [mg/l]	0.14	USEPA 1311
2	Lead as Pb [mg/l]	0.47	
3	Cadmium as Cd [mg/l]	0.15	
4	Zinc as Zn [mg/l]	0.13	
5	Iron as Fe [mg/l]	0.47	
6	Sodium as Na [mg/l]	13175	
7	Potassium as K [mg/l]	6.5	
8	Nickel as Ni [mg/l]	0.63	
9	Manganese as Mn [mg/l]	0.41	
10	Chromium as Cr [mg/l]	BDL(<0.01)	
11	Calcium [mg/l]	364.91	
12	Magnesium [mg/l]	306.95	
13	Sulphate [mg/l]	8514.28	

Notes :-

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