

BEFORE THE NATIONAL GREEN TRIBUNAL,
EASTERN ZONE BENCH, KOLKATA

IN THE MATTER OF:

ORIGINAL APPLICATION No. 172/2016/ EZ

SAJAY LALOO

.....Applicant

- Versus -

STATE OF MEGHALAYA AND ORS.

.....Respondents

**An Affidavit filed on behalf of Respondent No.2 (Meghalaya State
Pollution Control Board)**

I, Smt. Maureen Jannie A. Sangma, wife of Shri. J.F.K. Marak, aged about 48 years, resident of Khliehshnong, Pynthorumkhrah, Golflinks, Shillong - 793001, Meghalaya do hereby solemnly affirm and state on oath as under:-

1. That I am the Member Secretary of the Meghalaya State Pollution Control Board, Respondent No. 2, and I am aware of the facts and circumstances of the above case hence I am authorized and competent to swear to the contents of this affidavit.

2. That the Hon'ble Tribunal vide its order dated 07.07.2021 was pleased to direct the respondents to inform the Hon'ble Tribunal on the action taken report for enforcement of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 in the Jowai Municipal Board area and the water quality of the river Myntdu. In compliance of the said order the deponent begs to submit and state as under.

3. That the deponent begs to submit that the answering Respondent had undertaken water quality test analysis for the Myntdu River and its tributaries in Jaintia Hills during the month of July, 2021 and an

Sl. Instrument No 66
Date 13/09/2021

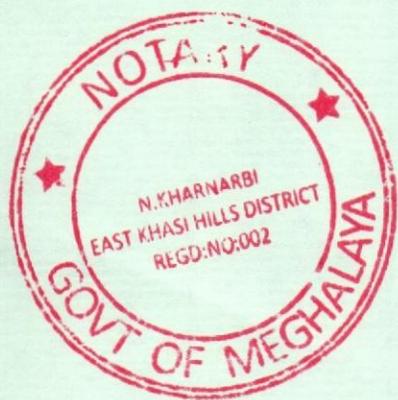


MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

Inspection and Analysis Report in that regard was prepared with monitoring data of test results. Samples of water were taken at seven (7) different points from upstream of the river and analyzed on various parameters, viz., total coliform, biological oxygen demand, acidity and heavy metals.

A report on status of water quality of upstream Myntdu river during July, 2021 is annexed herewith and marked as ANNEXURE-1.

4. That the deponent begs to submit that based on the findings of the Analysis Report it was indicated that river water quality was satisfactory. It was also observed in the Report that the satisfactory water quality may be attributable either to the dilution effect of rainwater or adoption of remedial measures by the polluting units.
5. That this affidavit is made bonafide for the ends of justice.
6. That the statements made in this affidavit are true to my knowledge and belief supported by relevant records which I believe to be true and the rest are my humble submissions before this Hon'ble Tribunal.
7. That the deponent seeks liberty to file an additional affidavit in addition to the present, if so required by this Hon'ble Tribunal.



Solemnly Affirmed before me this Day
On 13/09/2021 The deponent is identified
By A. N. Syreem
I Certify that the content of the Affidavit
are read over and Explained to the Deponent
who verified the same before me

13/09/2021
NELSON KHARNARBI
NOTARY
East Khasi Hills District
Government of Meghalaya

Md
DEPONENT

MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

VERIFICATION

I, Smt. Maureen Jannie A. Sangma, do hereby verify at Shillong on this 13^u day of September, 2021 that the contents of my reply affidavit are true and correct to the best of my knowledge and belief. No part of the same is false and nothing material has been concealed there from.

DEPONENT
MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong


13/9/2021

Law Officer
Meghalaya State Pollution Control Board,
Shillong

(Identified by)

A REPORT

ON

**STATUS OF WATER QUALITY OF THE UPSTREAM STRETCH OF
MYNTDU RIVER WEST JAINTIA HILLS DISTRICT, JOWAI DURING JULY 2021**



MEGHALAYA STATE POLLUTION CONTROL BOARD

'ARDEN', LUMPYNGGAD

SHILLONG – 793014

STATUS OF WATER QUALITY OF MYNTDU RIVER

Based on the monitoring data for the month of July 2021, an attempt has been made to describe the water quality of the Myntdu River at different sampling locations with respect to Total Coliform, Biological Oxygen Demand, Acidity and Heavy metals. Station wise discussion on water analysis of Myntdu River is as follows:

A. Water Quality Status of Myntdu River (Water Quality data at Annexure)

1. River Myntdu at Pynthorneiñ:

- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The dissolved Oxygen content was recorded to be 7.4mg/l
- **Total Coliforms:** The Total Coliform count was observed to be 50 MPN/100ml
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was observed to be 1.4 mg/l
- **Acidity:** The acidity was recorded to be NIL during the monitoring period.
- **Heavy Metal:** It was observed that all Metals tested viz. Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr) and Nickel (Ni), Zinc (Zn), and Manganese(Mn) were below detectable limits
The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

1. River Myntdu at Chahtngait:

- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The dissolved Oxygen content was recorded to be 8.4mg/l
- **Total Coliforms:** The Total Coliform was recorded to be 250 MPN/100ml.
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was observed to be 2.8 mg/l.
- **Acidity:** The acidity was recorded to be NIL.
- **Heavy Metal:** Among the metals analysed, only Manganese was detected. However it was observed that other Metals tested viz Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr) , Nickel (Ni) and Zinc (Zn) were below detectable limits
The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

2. River Myntdu at Treiongriang

- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The concentration of dissolved Oxygen content was recorded to be 7.8 mg/l

- **Total Coliforms:** It was observed that the Total Coliform count was 50 MPN/100ml
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was observed to be 1.2 mg/l.
- **Acidity:** The acidity was recorded to be NIL during both the monitoring period.
- **Heavy Metal:** Among the metals analyzed only Manganese (Mn) was detected. However it was observed that the concentration of other Metals tested viz Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr), Nickel (Ni) and Zinc (Zn) was below detectable limits.

The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

3. River Myntdu at Urkhla

pH: pH was observed to be within the criteria.

- **Dissolved Oxygen:** The concentration of dissolved Oxygen content was 7.5 mg/l
- **Total Coliforms:** It was observed that the Total Coliform count was 75 MPN/100ml
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was recorded to be 2.2 mg/l.
- **Acidity:** The acidity was recorded to be NIL during both the monitoring period.
- **Heavy Metal:** Among the metals analysed only Manganese (Mn) was detected. However it was observed that the concentration of other Metals tested viz. Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr), Nickel (Ni) and Zinc (Zn), was below detectable limits.

The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

4. River Myntdu at Mochuriaw:

- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The concentration of dissolved Oxygen content was 7.2 mg/l.
- **Total Coliforms:** The Total Coliform count was recorded to be 540 MPN/100ml.
- **Bio-chemical Oxygen Demand:** The analytical data revealed a concentration of Bio-chemical Oxygen Demand of 2.9 mg/l.
- **Acidity:** The acidity was recorded to be NIL during both the monitoring period.
- **Heavy Metal:** Among the metals analyzed only Manganese was detected. However it was observed that the concentration of other Metals tested viz. Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr) Nickel (Ni) and Zinc (Zn) was below detectable limits.

The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

5. **River Myntdu at Archaka (Umchangpung)**

- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The concentration of dissolved Oxygen was recorded to be 7.5 mg/l
- **Total Coliforms:** The Total Coliform count was observed to be 250 MPN/100ml
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was observed to be 1.2 mg/l.
- **Acidity:** The acidity was recorded to be NIL during both the monitoring period.
- **Heavy Metal:** Among the metals analyzed only Manganese (Mn) was detected. However it was observed that the concentration of other Metals tested viz Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr), Nickel (Ni) and Zinc (Zn) was below detectable limits

The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

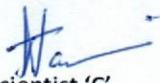
6. **River Myntdu at lalong, Deinyarngam:**

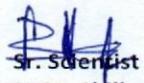
- **pH:** pH was observed to be within the criteria.
- **Dissolved Oxygen:** The analytical data revealed a concentration of Dissolved Oxygen content to be 7.8 mg/l.
- **Total Coliforms:** It was observed that the Total Coliform Count was recorded to be 75 MPN/100ml.
- **Bio-chemical Oxygen Demand:** The concentration of Bio-chemical Oxygen Demand was recorded to be 1.9 mg/l.
- **Acidity:** The acidity was recorded to be NIL during both the monitoring period.
- **Heavy Metal:** Among the metals analyzed only Manganese (Mn) was detected .However it was observed that the concentration of other Metals tested viz. Copper (Cu), Lead (Pb), Cadmium (Cd), Chromium (Cr), Nickel (Ni) and Zinc (Zn), was below detectable limits.

The water quality was satisfactory with reference to the water quality criteria (pH 6.5 – 8.5, BOD <3.0mg/l, DO>4mg/l, TC<5000MPN/100ml) stipulated by Central Pollution Control Board, Delhi.

CONCLUSION

River water quality data indicated that the water quality of Myntdu River is satisfactory which may be attributed either to the dilution effect of rainwater or adoption of remedial measures by the polluting units.


Scientist 'C'
MSPCB, Shillong


Sr. Scientist
MSPCB, Shillong

WATER QUALITY DATA OF MYNTDU RIVER, WEST JAINTIA HILLS DISTRICT, JOWAI

Name of the sampling location Parameters ↓	PYNTHORNEIÑ	CHAHTNGAIT	TREIONGRIANG	URKHLA	MOOCHURIAW	AR- CHAKA	IALONG DEINYARNGAM
pH	7.0	7.2	7.0	6.9	7.1	6.8	6.8
Dissolve Oxygen mg/L	7.4	8.0	7.8	7.5	7.2	7.5	7.8
Bio-Chemical Oxygen Demand mg/L	1.4	2.8	1.2	2.2	2.9	1.2	1.9
Total Coliform (MPN/100ml)	50	250	50	75	540	250	75
Acidity mg/L	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Chromium mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese mg/L	0.05	0.07	0.07	0.06	0.08	0.08	0.08


Scientist 'C'
MSPCB, Shillong


Sr. Scientist
MSPCB, Shillong