

**BEFORE THE NATIONAL GREEN TRIBUNAL**

**SOUTHERN ZONE, CHENNAI**

**Original Application No.131 of 2020 (SZ)**

M.Jayachandran,  
Son of Murugesan Naidu,  
Gangaiamman Kovil Street, Puliyan kannu –  
Navlock Village, Ranipet,  
Ranipet District – 632 401 & another.

...Applicants

Versus

The Ministry of Environment,  
Forests & Climate Change,  
Rep. by its Secretary,  
JoBagh, New Delhi- 110 003 & 8 others.

...Respondents

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Filed by  
Tmt. Shanmugavalli Sekar  
Advocate, Chennai



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**REPORT FILED ON BEHALF OF THE 5<sup>TH</sup> & 6<sup>TH</sup> RESPONDENTS  
TAMIL NADU POLLUTION CONTROL BOARD.**

I, J. Josephine Sahayarani, Daughter of Jesu Rajan , Christian, aged about 56 years, having office at No.76, Mount Salai, Guindy, Chennai-600 032, do hereby solemnly affirm and sincerely state as follows:-

1. I am the Joint Chief Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai and I am filing this Report on behalf of the 5<sup>th</sup> & 6<sup>th</sup> Respondents Board and as such I am well acquainted with the facts of the case as per records.

2. It is further submitted that the Hon'ble NGT (SZ), Chennai has passed common order dated 27.01.2022 and directed as follows:

*"The Tamil Nadu Pollution Control Board is directed to consider the counter affidavit filed by the 8th Respondent to the Joint Committee report filed on 13.12.2021 and submit their views on the same. As regards the installation of Online Monitoring of Industrial Emission and Effluent System (OCEMS) is concerned, they are directed to file the further report regarding the same. They are also directed to furnish the reasons for non-establishment of OCEMS earlier and report the compensation levied for the violation."*

*J. Josephine Sahayarani* 8/3/2022  
JOINT CHIEF ENVIRONMENTAL ENGINEER  
TAMIL NADU POLLUTION CONTROL BOARD  
No.76, MOUNT SALAI, GUINDY,  
CHENNAI-600 032.

3. It is respectfully submitted that in pursuance to the said NGT order, the respondent unit of M/s. Tirumalai Chemicals Limited, Ranipet was inspected on 15.02.2022. During inspection it was found that the unit has already installed Electro Magnetic Flow Meters at 17 points of ZLD system and all the EMFM have been connected to the Water Quality watch Centre, TNPCB, Chennai. The unit has also provided Online Continuous Emission Monitoring System at four stacks and the same is connected to the Care Air Centre, TNPCB, Chennai.

Now the unit has installed online continuous monitoring systems in the discharge points for the parameters pH and TDS along with surveillance camera and the same were connected to water quality watch of TNPCB portal on 10.02.2022 as per the Board direction dt.20.11.2021.

4. It is respectfully submitted that , the present status of the compliance of the conditions issued by the TNPC Board vide letter dated 20.11.2021 is as follows:

S.N.	Directions issued by TNPCB	Compliance status
1	The unit shall restrict the number of discharge points connected with outlet drains to drain the excess rainwater in and around the unit.	The unit has sealed one of the discharge points located adjacent to the SBI ATM near the Service Road. The unit has restricted the two number of discharge points connected with outlet drains to drain the excess rainwater in and around the unit (North East-Ponnai Road and South West-NH)
2	The unit shall install online continuous monitoring systems in the discharge points for the parameters TDS, TSS, PH, BOD, COD and other relevant parameters along with surveillance camera and the same shall be connected to water quality watch of TNPCB and CPCB portal for continuous monitoring.	The unit has installed online continuous monitoring systems in the discharge points for the parameters pH and TDS along with surveillance camera and the same were connected to water quality watch of TNPCB portal on 10.02.2022
3	The unit shall reuse the entire treated effluent (RO permeate and MEE condensate) in their process continuously and to ensure 100% ZLD.	All the components of ETP, RO, MEE and ATFD are under operations. No by-pass of effluent from the treatment system noticed.  During inspection the industry has recovered and stored salts within the unit premises.

*J. J. S. S.*  
8/3/2022

JOINT CHIEF ENVIRONMENTAL ENGINEER  
TAMIL NADU POLLUTION CONTROL BOARD  
No.76, MOUNT SALAI, GUINDY,  
CHENNAI-600 032.

4	The unit shall not discharge any treated/untreated effluent outside the premises and shall not be stagnated/ponding of water under any circumstances.	<p>All the components of ETP, RO, MEE and ATFD are under operations.</p> <p>RO permeate and Multiple Effect Evaporator (MEE) condensate utilize for the process.</p> <p>RO reject is sent to MEE followed by ATFD to recover salt.</p> <p>No discharge of any treated/untreated effluent outside the premises and no stagnated/ponding of water within the premises noticed..</p>
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Under the above circumstances, it is humbly prayed that this Hon'ble National Green Tribunal (Southern Zone) may be pleased to pass such order as it may deem fit and proper in this case and thus render justice.

*J. Josephine Sahayarani*  
8/13/2022

JOINT CHIEF ENVIRONMENTAL ENGINEER  
TAMIL NADU POLLUTION CONTROL BOARD  
No.76, MOUNT SALAI, GUINDY,  
CHENNAI-600 032.  
**BEFORE ME**

VERIFICATION

I, J. Josephine Sahayarani, Daughter of Jesu Rajan, working as Joint Chief Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai, do hereby verify that the contents of above report are true to the best of my knowledge through records.

*J. Josephine Sahayarani*  
8/13/2022

JOINT CHIEF ENVIRONMENTAL ENGINEER  
TAMIL NADU POLLUTION CONTROL BOARD  
No.76, MOUNT SALAI, GUINDY,  
CHENNAI-600 032.



Ameyra

Screen shot from the Cameras provided at the rainwater outlet 1



Screen shot from the Cameras provided at the rainwater outlet 2



Annexure-5

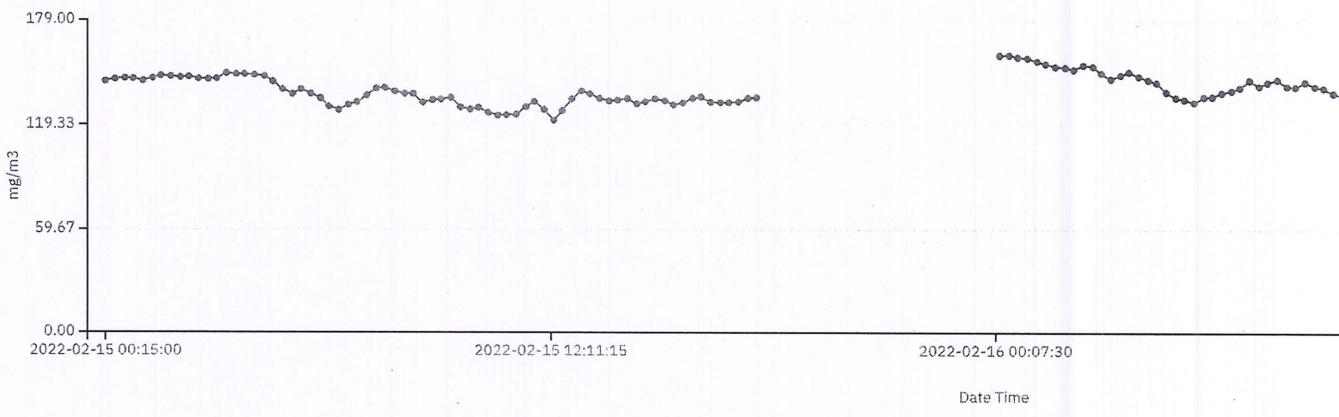
Photograph of the pH, TDS analyser provided at the rainwater outlet -1



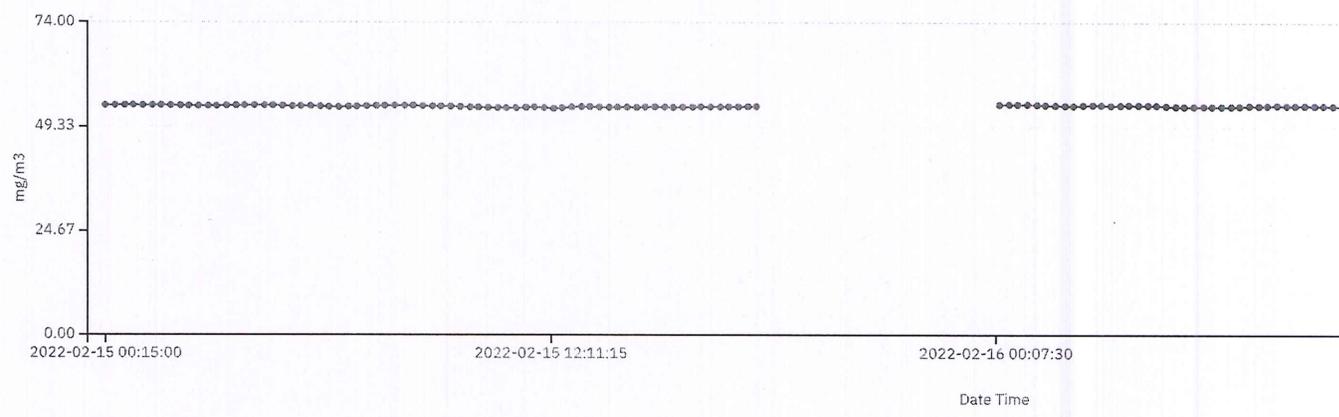
Photograph of the pH, TDS analyser provided at the rainwater outlet -2



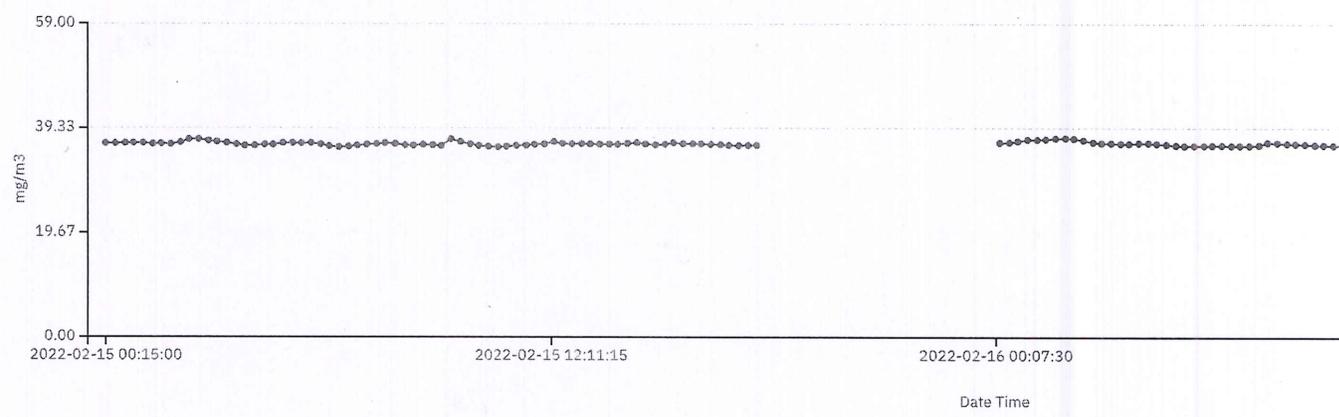
6



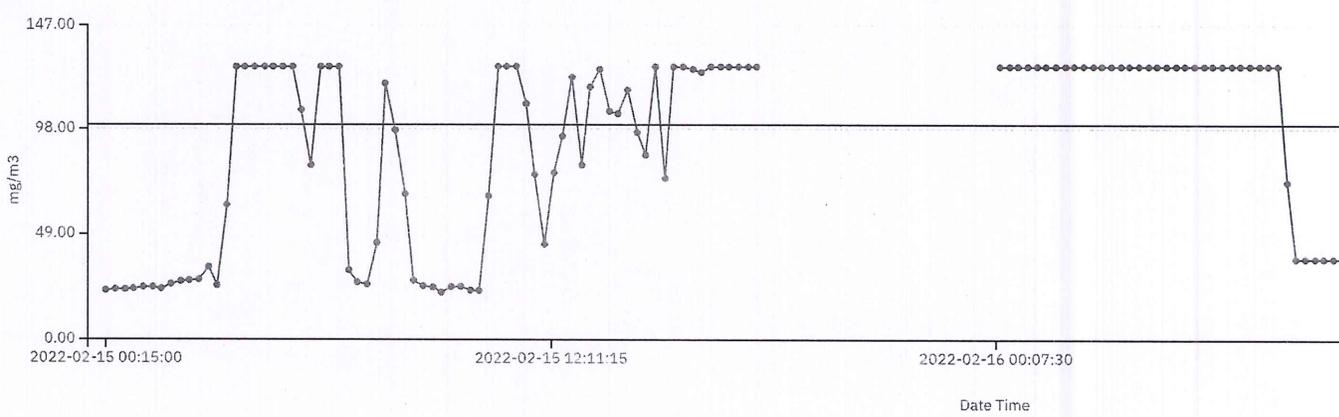
■ SO2\_STACK\_TCL-SO2 ( Threshold: 1700 mg/m3 )



■ NOX\_STACK\_TCL-NOx ( Threshold: )



■ CO\_STACK\_TCL-CO ( Threshold: )



■ PM\_STACK\_TCL-SPM ( Threshold: 100 mg/m3 )



<b>THIRUMA LAI CHEMICALS LTD.,</b>	Summary Reading From date 15-Feb-2022 To 15-Feb-2022   Interval : Dailys	<b>Total Liters Processed</b>	<b>Meter Reading</b>	15-Feb-2022 11:59PM	14-Feb-2022 11:59PM
	<b>Rain Water Outlet-II PH - Vol(pH)</b>		<b>Rain Water Outlet-II PH - Vol(pH)</b>		
	<b>Rain Water Outlet-II TDS - Vol(ppm)</b>		<b>Rain Water Outlet-II TDS - Vol(ppm)</b>		
	<b>ETP Inlet - Reading</b>		<b>ETP Inlet - Reading</b>	A334482.920	A334284.820
	<b>ETP Inlet - Vol(m<sup>3</sup>)</b>	198.1	<b>ETP Inlet - Vol(m<sup>3</sup>)</b>	198.1	
	<b>ETP Outlet - Reading</b>		<b>ETP Outlet - Reading</b>	A93841.870	A93576.870
	<b>ETP Outlet - Vol(m<sup>3</sup>)</b>	265	<b>ETP Outlet - Vol(m<sup>3</sup>)</b>	265	
	<b>MEE Steam Inlet - Reading</b>		<b>MEE Steam Inlet - Reading</b>	A1017787.2.870	A1012626.5.900
	<b>MEE Steam Inlet - Vol(Kgs)</b>	51606.97	<b>MEE Steam Inlet - Vol(Kgs)</b>	51606.97	
	<b>RO-4 Feed Inlet Flow Reading</b>		<b>RO-4 Feed Inlet Flow Reading</b>	A66118.710	A65772.460
	<b>RO-4 Feed Inlet Flow Vol(m<sup>3</sup>)</b>	346.25	<b>RO-4 Feed Inlet Flow Vol(m<sup>3</sup>)</b>	346.25	
	<b>RO-4 Permeate Flow - Reading</b>		<b>RO-4 Permeate Flow - Reading</b>	A43541.980	A43294.830

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RO-4 Permeate Flow - Vol(m <sup>3</sup> )	247.15	RO-4 Permeate Flow - Vol(m <sup>3</sup> )	247.15	
RO-4 Reject Flow - Reading		RO-4 Reject Flow - Reading	A22644.4 30	A22570.9 70
RO-4 Reject Flow - Vol(m <sup>3</sup> )	73.46	RO-4 Reject Flow - Vol(m <sup>3</sup> )	73.46	
RO-5 Feed Inlet Flow Reading		RO-5 Feed Inlet Flow Reading	A17701.0 80	A17592.6 60
RO-5 Feed Inlet Flow Vol(m <sup>3</sup> )	108.42	RO-5 Feed Inlet Flow Vol(m <sup>3</sup> )	108.42	
RO-5 Permeate Flow - Reading		RO-5 Permeate Flow - Reading	A7682.42 0	A7627.94 0
RO-5 Permeate Flow - Vol(m <sup>3</sup> )	54.48	RO-5 Permeate Flow - Vol(m <sup>3</sup> )	54.48	
RO-5 Reject Flow - Reading		RO-5 Reject Flow - Reading	A14130.0 60	A14089.1 90
RO-5 Reject Flow - Vol(m <sup>3</sup> )	40.87	RO-5 Reject Flow - Vol(m <sup>3</sup> )	40.87	
Ro-6 Feed Inlet Flow Reading		Ro-6 Feed Inlet Flow Reading	A30739.5 70	A30551.4 30
Ro-6 Feed Inlet Flow Vol(m <sup>3</sup> )	188.14	Ro-6 Feed Inlet Flow Vol(m <sup>3</sup> )	188.14	

RO-6 Permeate Flow - Reading		RO-6 Permeate Flow - Reading	A22593.6 40	A22493.2 20
RO-6 Permeate Flow - Vol(m <sup>3</sup> )	100.42	RO-6 Permeate Flow - Vol(m <sup>3</sup> )	100.42	
Ro-6 Reject Flow - Reading		Ro-6 Reject Flow - Reading	A13120.9 00	A13038.3 90
Ro-6 Reject Flow - Vol(m <sup>3</sup> )	82.51	Ro-6 Reject Flow - Vol(m <sup>3</sup> )	82.51	
WHE Steam Flow - Reading		WHE Steam Flow - Reading	A4395.01 0	A4395.01 0
WHE Steam Flow - Vol(Kgs)	0	WHE Steam Flow - Vol(Kgs)	0	
WHE Feed Flow - Reading		WHE Feed Flow - Reading	A89.600	A89.600
WHE Feed Flow - Vol(m <sup>3</sup> )	0	WHE Feed Flow - Vol(m <sup>3</sup> )	0	
MEE Feed Reading		MEE Feed Reading	A38724.3 80	A38640.5 30
MEE Feed Vol(m <sup>3</sup> )	83.85	MEE Feed Vol(m <sup>3</sup> )	83.85	
MEE Distillate - Reading		MEE Distillate - Reading	A32646.8 00	A32582.1 80
MEE Distillate - Vol(m <sup>3</sup> )	64.62	MEE Distillate - Vol(m <sup>3</sup> )	64.62	
ATFD Feed Flow - Reading		ATFD Feed Flow - Reading	A6778.97 0	A6763.86 0

<b>ATFD Feed Flow - Vol(m3)</b>	15.11	<b>ATFD Feed Flow - Vol(m<sup>3</sup>)</b>	15.11	
<b>Rain Water Outlet-I TDS - Vol(ppm)</b>	852	<b>Rain Water Outlet-I TDS - Vol(ppm)</b>	852	
<b>Rain Water Outlet-I PH - Vol(pH)</b>	11.17	<b>Rain Water Outlet-I PH - Vol(pH)</b>	11.17	

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POLLUTION CONTROL BOARD.**

**Advocate for Respondent: TNPCB  
Tmt. Shanmugavalli Sekar,  
Advocate, Chennai.**

**Date:08.03.2022.**

**Date of hearing on:09.03.2022**

