

Rajarathina Water Technologie

79/3 Samayasangili Agraharam, Pallipalayam, Namakkal, Tamil Nadu, India – 638008

www.rajarathina.com | rajarathinas@gmail.com | +91 9244442112

Certificate of Appreciation

To

Almighty Engineering

For

Successful Demonstration of Almighty Effluent Treatment Machine (AETM)

This is to certify that **Almighty Engineering** Company has successfully completed the pilot run of its fully automated **Almighty Effluent Treatment Machine (AETM)** for the treatment of dyeing effluent in our industrial dyeing facility. It has been demonstrated that the new AETM technology could significantly reduce the **cost, time, and space** compared to the existing treatment method. We express our sincere appreciation and gratitude to Almighty Engineering and extend our business support for our upcoming 1MLD and 300KLD projects. The details of the pilot run are given below:

Demo plant capacity: 6KLD

Pilot run start date: 5th May 2023

Pilot run completion date: 15th July 2023

Total operation days: 62

Total quantity of treated water (before RO): 372KLD

Date:26.09.2023

Place:Samayasangili

Enclosed: 1. Test results 2. SITRA lab report.

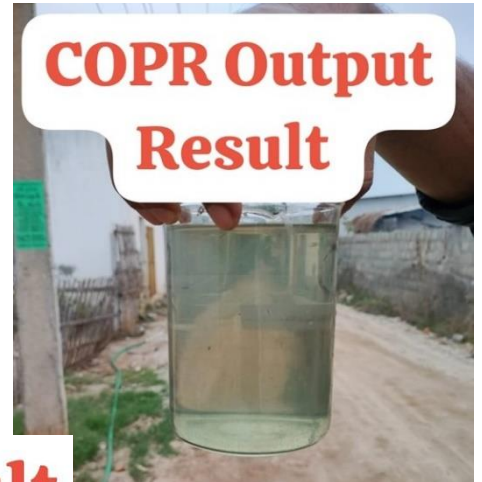
For Rajarathina Water Technologie

Proprietor

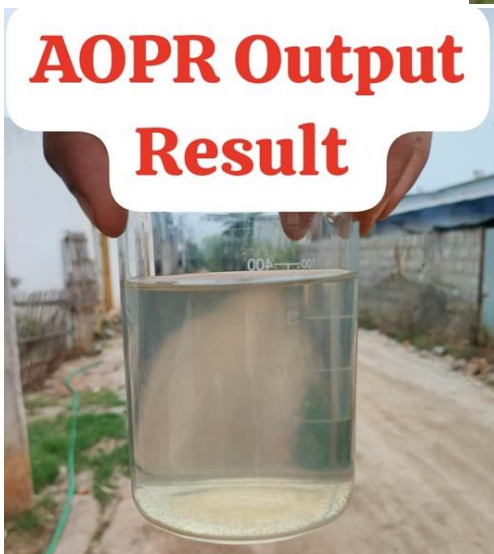
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Final UF Result



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V. Venkatesh
Proprietor

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Comparison of Conventional & AETM Test Results

Conventional ETP Results



1. Raw Dying Effluent.
2. Primary Clarifier Output: Chemical Coagulation (Lime, Ferrous, A. Poly, HCl).
3. Secondary Clarifier Output: Aeration-Biological Method.
4. After Sand, Carbon, and Ultra filtration (UF).

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AETM Test Results



1. Raw Dying Effluent.
2. COPR (color, odor, parameters removal) Output:
only 2 chemicals used (A. Poly & HCl)
3. AOPR (advanced oxidation parameters removal) Output
4. Sand and Carbon filtration output
5. Ultrafiltration (UF) output (before RO).

For Rajarathina Water Technologie
V. Venkatesh
Proprietor

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THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION SITRA TEXTILE TESTING AND SERVICE CENTRE

Dyers Association of Tirupur Building, D.No. 7/4, 2nd Floor, Pethichettipuram, 2nd Street, Rayapuram Main Road, Tirupur - 641 601

Ph: (0421) 4530443 E-mail : tprchem@sitra.org.in Website: http://www.sitra.org.in

Address all correspondence to the Director, SITRA, 13/37, Avinashi Road, Coimbatore - 641014

TEST REPORT

To

ALMIGHTY ENGINEERING

plot no.72,annamalai garden,
kovilpalayam to karuvallur road,kunnathuputhur,,
Coimbatore
Pincode : 641607
Contact No(s) : 9944786096

Test Report No : **V2300127**

Sample Received On : **25-05-2023**

Inward Date : **25-05-2023**

Tested on : **25.05.2023 TO 30.05.2023**

Report Date: **03-06-2023**

Kind Attn. : Mr.B.Assalam

Dear Sir / Madam,

This has reference to the sample(s) submitted by you for testing vide your reference : **24/5/2023**.

The results pertaining to your sample(s) are enclosed herewith.

For Rajarathina Water Technologie

V. K. K. K.
Proprietor

This is a computer generated report, hence does not require signature.

IMPORTANT

This report is strictly CONFIDENTIAL. Its use for publicity, arbitration or as evidence in legal disputes is forbidden. Reference of sample(s) given by the party. Samples are not drawn by the laboratory. The above results are related to the samples tested. The report shall not be reproduced except in full, without the written approval of the laboratory.

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Test Report No : V2300127

ALMIGHTY ENGINEERING

Report Date : 03-06-2023

Ref : 24/5/2023

Sample No : V2300127-1

Sample Description : Rajarathina Dyeing Raw Effluent

Turbidity <i>IS 3025 (Part 10)</i>	
Parameter(s)	
Turbidity (NTU)	234

Total Dissolved Solids <i>IS 3025 (Part 16)</i>	
Parameter(s)	
TDS mg/l	6220

Total Suspended Solids	
Parameter(s)	
TSS mg / l	237.6

Chemical Oxygen Demand	
Parameter(s)	
C O D mg / l	1080

– End of the Report for the Sample no : V2300127-1 –

For Rajarathina Water Technologie

V. Venkatesh
Proprietor

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Test Report No : V2300127

ALMIGHTY ENGINEERING

Report Date : 03-06-2023

Ref : 24/5/2023

Sample No : V2300127-2

Sample Description : Almighty Ro 1st Feed

Turbidity <i>IS 3025 (Part 10)</i>	
Parameter(s)	
Turbidity (NTU)	14

Total Dissolved Solids <i>IS 3025 (Part 16)</i>	
Parameter(s)	
TDS mg/l	6118

Total Suspended Solids	
Parameter(s)	
TSS mg / l	52.3

Chemical Oxygen Demand	
Parameter(s)	
C O D mg / l	228

– End of the Report for the Sample no : V2300127-2 –

For Rajarathina Water Technologie

V. V. V.
Proprietor

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Test Report No : V2300127

ALMIGHTY ENGINEERING

Report Date : 03-06-2023

Ref : 24/5/2023

Sample No : V2300127-3

Sample Description : Rajarathina Ro 1st Feed

Turbidity <i>IS 3025 (Part 10)</i>	
Parameter(s)	
Turbidity (NTU)	27

Total Dissolved Solids <i>IS 3025 (Part 16)</i>	
Parameter(s)	
TDS mg/l	5212

Total Suspended Solids	
Parameter(s)	
TSS mg / l	84.8

Chemical Oxygen Demand	
Parameter(s)	
C O D mg / l	318

– End of the Report for the Sample no : V2300127-3 –

– End of the Report –

For Rajarathina Water Technologie

V. V. V.
Proprietor