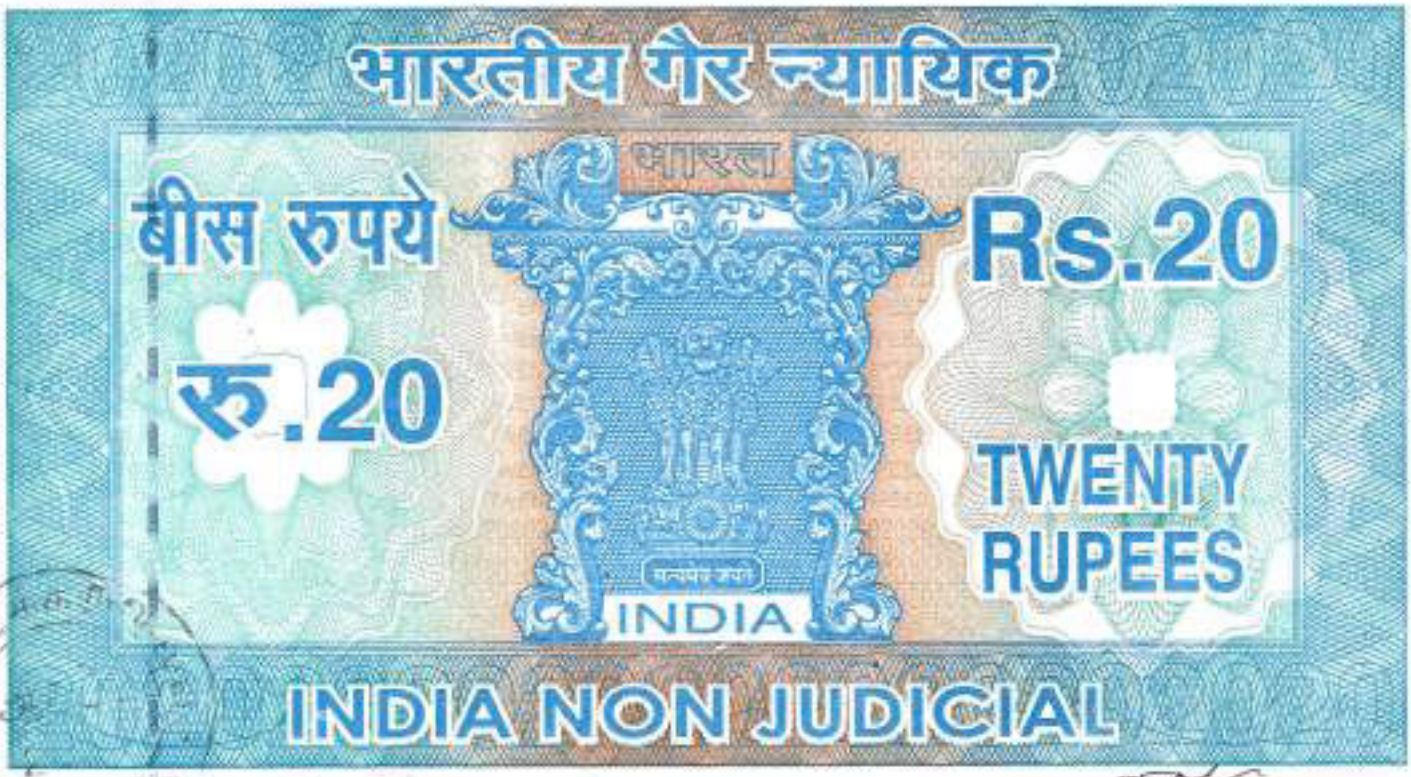

தமிழ்நாடு तमिलनाडु TAMIL NADU

27 SEP 2023

GJ MULTICLAVE (INDIA) PVT. LTD.
Old No:20, New No: 37, Teachers Colony,
Kamarajar Avenue Adyar,
Chennai - 600 020. Ph: 2445 1683.

24AC 714990
S. AYATH BASHA
STAMP VENDOR
L.NO.3 / 3 / 2000
No: 43, SEETHAMMAL ROAD,
TEYNAMPET, CHENNAI - 18.
Phone: 9841640594

AGREEMENT

FOR COLLECTION, TRANSPORTATION, TREATMENT AND DISPOSAL OF BIOMEDICAL WASTES

This Agreement made and entered into at Chennai on this **1st April 2024** BETWEEN **M/s. G. J MULTICLAVE (INDIA) PVT. LTD,** incorporated under the Companies Act, 1956 having it's Registered Office at New No.37, Old No.20, Teachers Colony, Adyar, Chennai - 600 020 represented by its General Manager, **Mr.P.SIVAKUMAR,** S/o. Sri.P.Pauldurai, hereinafter called the **FIRST PARTY.**

AND

TAGORE MEDICAL COLLEGE & HOSPITAL, Rathinamangalam, Chennai - 600 127, represented by its Dean, **DR.J.MUTHUKUMARAN,** hereinafter called the **SECOND PARTY.**

For GJ Multiclave (India) Pvt. Ltd.

General Manager

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

WHEREAS the **FIRST PARTY** has set up a Common Off-site Biomedical Waste Treatment Facility for Chennai in accordance with the standards prescribed in Biomedical Waste (Management & Handling) Rules, 2016 as amended to date for treatment and disposal of Biomedical Wastes generated by various Health Care Establishments in and around Chennai.

WHEREAS the **SECOND PARTY** is a Health Care Establishment, engaged in the service of providing various types of Health Care treatment facilities and generates Biomedical Wastes as defined under the Biomedical Waste (Management & Handling) Rules, 2016 in the course of such medical services to people.

WHEREAS the **SECOND PARTY** is enrolled with the **FIRST PARTY** for collection, transportation, treatment and final disposal by the **FIRST PARTY**, of such Biomedical Wastes generated in the **SECOND PARTY's** Health Care Facility.

WHEREAS now the **SECOND PARTY** enters into an Agreement with the **FIRST PARTY** as per the following terms and conditions:-

1. The **SECOND PARTY** declares that its bed strength operational is 720 Beds.

2. The **SECOND PARTY** will segregate the Biomedical Wastes as per Schedule II of the Biomedical Waste (Management & Handling) Rules, 2016 at the point of generation in its Health Care Facility and store such segregated Medical Wastes in designated Colour Coded Containers/Bags prior to collection, transportation, treatment and final disposal by the **FIRST PARTY**.

3. The **SECOND PARTY** shall also label the Bio-Medical Waste consumable bags and containers with the service providers name with BAR CODE according to Schedule III of Biomedical Waste (Management & Handling) Rules, 2016.

4. The **FIRST PARTY** shall collect the Biomedical Wastes from **SECOND PARTY** everyday at a specified time to suit the convenience of collection mechanism of the **FIRST PARTY** and the **SECOND PARTY** shall render all assistance to the **FIRST PARTY** in this regard.

5. The **SECOND PARTY** agrees to pay a Service Charge of **Rs.140000/- per month (12% GST Additional)** for the waste collected by the **FIRST PARTY.**

6. Both the parties agree that the rate of service charges mentioned in Clause 5 above will be in force for a period of 1 year from the date of this agreement and thereafter the rate shall be revised by mutual consent after deliberations with Indian Medical Association Nursing Home Board.

7. The SECOND PARTY Shall also agrees for the yearly rate hike of 7.5% Approved by Indian Medical Association.

8. Notwithstanding the above, the **SECOND PARTY** agrees to consider an increase in the rate if and when there is an increase in the fuel tariff by more than 20% over the prevailing rate. **The prevailing rate now is Rs.94.24per litre for diesel.**

9. The **SECOND PARTY** has paid an amount of **Rs.99600/-** interest free advance for the service charges payable by it. Such advance amount shall not be adjusted against the recurring service charges payable by **SECOND PARTY** to the **FIRST PARTY** and shall remain intact during the period of the agreement.

For GJ Multiclave (India) Pvt. Ltd.

General Manager

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

10. The **FIRST PARTY** shall submit its bills towards Service Charges referred in Clause 5 above on a monthly basis to the **SECOND PARTY** at the end of each month and the SECOND PARTY shall pay the same before or on the 5th of the following months.

SECOND PARTY agrees to permit such authorised person/persons of the **FIRST PARTY** duly indicated in writing as and when the **FIRST PARTY** demands visual inspection of the segregated wastes stored in its premises before the same is collected by the **FIRST PARTY** from the said premises of the **SECOND PARTY**.

The **FIRST PARTY** agrees to provide Training on segregation of Biomedical Wastes to the **SECOND PARTY** Free of cost.

This agreement is subject to **force majeure** i.e. –

i. war invasion, mobilization, requisition or embargo;
ii. rebellion, revolution, insurrection or military or usurped power, or civil war;
iii. Government orders restrictions, riots, fire, epidemics, sabotage, act of God like earthquake, floods, accidents, breakdown of machinery or any other reasons whatsoever beyond the reasonable control of **FIRST PARTY**.

If any force majeure event outside the control of both parties arises during the currency of this agreement, which renders it impossible or unlawful for the **FIRST PARTY** to fulfil its agreement obligations, the **SECOND PARTY** shall not seek any remedy - legal or financial from the **FIRST PARTY**. However, the terms of this agreement shall be restored as far as both the parties are concerned, once the force majeure events cease to exit.

This Agreement shall be in force initially for **valid upto 31st March 2025** and can be renewed thereafter for such period and on such terms and conditions as the parties mutually agree thereon.

If any dispute arises between the parties herein, or if any controversies or difference of opinion arises out of or in connection with the recitations of this agreement, the same shall be settled amicably. The jurisdiction shall be restricted to **CHENNAI ONLY.**

IN WITNESS WHEREOF the parties herein set out their hands on the day, date and place above written.

For GJ Multiclave (India) Pvt. Ltd.

General Manager

FIRST PARTY

SECOND PARTY

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

WITNESSETH:

1. A Jabamoli
Teachers Colony,
Adyar, Chennai - 20.
2. M. Gurunathan
East Tambaram Ch-59

AK ENTERPRISES
E-Waste Recyclers

No. 12, Chakrapani Street,
Velachery, Chennai – 600 032
akenter06@gmail.com
www.akep.co.in
GSTIN : 33ASVPK3292K1Z5

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") dated 01st APRIL 2023 is by and between:

AK ENTERPRISES, a Company registered under the Companies Act, 1956, having its GST NO 33ASVPK3292K1Z5 and registered office located at 12 Chakrapani road, Guindy, Chennai Dist., Tamilnadu-600032 (referred to as "Service Provider").

And

ANCHOR LEATHERS, having its Registered Office at 57,Thiruneermalai Road,Nagalkeni, Chennai, Tamil Nadu, 600044. And its affiliates (referred to as "Client").

Throughout this MOU, the Client and Service Provider are individually referred to as a "Party" and together as the "Parties."

RECITALS

A. WHEREAS the Client wishes to dispose and recycle its E-waste collected in accordance with the relevant rules.

B. WHEREAS the Service Provider has agreed to provide its services to dispose and recycle E-waste in accordance with the terms and conditions of this MOU.

NOW THEREFORE, TO RECORD THE TERMS OF THE UNDERSTANDING BETWEEN THEM, THE PARTIES HERETO AGREE AS FOLLOWS:

1. Scope of the MOU

In accordance with the terms and conditions mentioned in this MOU, Service Provider shall provide disposal and recycling services to Client for its E-waste.

2. Service Provider's obligations

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

i. Service Provider shall, plan a visit to Client specified location to inspect the E-waste quantity and/ or weight.
ii. Service Provider shall ship the E-waste from Client's location to Service Provider's processing unit.
iii. Service Provider shall dispose and recycle the E-waste collected in accordance with the relevant rules.
iv. Service Provider shall pay a mutually agreed amount to Client for each E-waste collected post evaluation of the condition of the E-waste. For each E-waste category, which is adjudged for payment, Service Provider shall make such payments within 3 working days of such confirmation to the Client.
v. The EWASTE Materials consist of all kinds of ELECTRICAL AND ELECTRONIC materials Such as IT Materials, Air conditions , UPS and Batteries.

3. CLIENT's obligations

i. Client shall inform Service Provider of the pick-up at their location with adequate notice period and allow Service Provider to inspect the E-waste to be collected at its premises, when necessary.
ii. Client shall maintain and share with Service Provider the information of the make, model and type of each of the E-waste collected prior to shipping.
iii. Client shall pack the e-Waste according to the types and in order to prevent any mixture or damage.
iv. All relevant transport documentation including Invoices shall be provided for transportation.
v. Client shall collect and store the E-waste in accordance with the relevant rules.

4. Term and termination

This MOU shall be effective from 01st April 2023 and shall be valid till 02nd May 2024, unless terminated earlier by either Party with at least 30 days notice to the other Party in writing. All other relevant clause shall remain effective even after termination.

5. Payment Terms

The price shall be determined according to the nature of e-waste from time to time.
we give our offer for the EWASTE materials as a kilo basis @ RS.20/KG which inclusive of all taxes.

6. Other Terms

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Chennai-600 127.

Both Parties shall indemnify each other for all claims (including but not limited to breach of obligations by themselves, causing bodily injury or property damage due to negligence or misconduct of their respective organization or its personnel) which may arise out of this MOU.

Post termination, Service Provider shall honor all obligations with regard to recycling, payments (if applicable) for shipped materials from Client's location on or prior to such termination date.

Both the parties maintain confidentiality of the transactions for a period of at least 3 years from the termination of the MOU.

IN WITNESS WHEREOF, the Parties have caused this MOU to be executed by their duly Authorized Representatives as of the date first set forth above.

AK ENTERPRISES

By: _____

Name: A. Kanakeshan
Designation: Proprietor
Date: 18.04.2023
Place: Kundoy

ANCHOR LEATHERS

By: _____

Name: R. Arun
Designation: Manager
Date: 22.04.2023
Place: Nagalkeni

Witnesses:

1. S. Anil Injur. (System Analyst)
2. R. Muniasamy (System admin)

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

Red Sea Eco Solutions & Instruments (P) Ltd.

THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 09.05.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for April 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of April 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.

S.No	Observation	Recommendation	Scope
1.	MS-STP – Standby Air blower not working (3rd Blower)	To be replaced with the new one.	To be Discuss with the Client for the further process
2.	MS-STP - Sludge recirculation pump not Working	Need to be serviced for the operation and necessary replacement of Pipes & Fittings to be done.	To be Discuss with the Client for the further process
3.	MS-STP – inlet flow meter reading mismatch problem MS-STP – outlet flow meter not working due to electrical issues (storm water stagnant)	Inlet flow metre need to be serviced & calibrated. The Electrical issue to be resolved and if required outlet flow meter need to be serviced and calibrated.	To be Discuss with Client for the further process
4.	MS-STP - UF system not in working condition UF treated sintex tank damaged and separate toilet flushing plumbing pipeline is not available	UF programming need to be done and necessary service for the operation to be provided. Tank to be replaced and separate Toilet flushing line with Pump & Plumbing Pipe lines to be done for the utilization of treated water.	To be Discuss with Client for the further process

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

B1, West Mogappair Industrial Estate, 5th Street, Reddypalayam Road,
Mogappair West, Chennai – 600 037.Phone: 044 26258330
E-Mail – redseaesi@gmail.com

Red Sea Eco Solutions & Instruments (P) Ltd.

Please find our observation and recommendation for your reference. RCC			
S.No	**Observation**	**Recommendation**	**Scope**
5.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
6.	Both RCC & MS plant - The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
7.	Garden Area There is insufficient area for the disposal of treated sewage on the premises. Currently, it is being disposed to the nearby land areas in the MS STP plant.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process

DEAN
TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

Please find our observation and recommendation for your reference			
S.No	**Observation**	**Recommendation**	**Scope**
1.	ETP – Outlet flow meter in not available	We need to be install new outlet flow meter	To be Discuss with Client
2.	ETP-RO – rotate meter is damaged	We need to be replaced new one	To be Discuss with Client
3.	Pre- Treatment plant: The pre-treatment process is specifically designed for oil separation from canteen wastewater. The Sewage mixing with the Canteen leads to operational issue.	As per the treatment process we need to separate Collection tank for pre-treatment process to remove the oil and other inorganic compounds from the canteen water. Then it can be mixed with the existing STP for the further treatment.	Client scope

B1, West Mogappair Industrial Estate, 5th Street, Reddypalayam Road,
Mogappair West, Chennai – 600 037.Phone: 044 26258330
E-Mail – redseaesi@gmail.com

4.	Electrical issues in pre-treatment panel board Existing Electrical connection is not meeting the current load requirement	Installation of new cables with suitable accessories to meet the excess load capacity.	Work Under Progress
5.	The Chemical Storage area / Rack and Operator room for ETP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client

Monthly Report For Trated water reading in STP MS plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-04-2024	119077.9	119247.6	169.7
02-04-2024	119247.6	119417.5	169.9
03-04-2024	119417.5	119579.7	162.2
04-04-2024	119579.7	119744	164.3
05-04-2024	119744	119909	165
06-04-2024	119909	120075.7	166.7
07-04-2024	120075.7	120237.2	161.5
08-04-2024	120237.2	120397.2	160
09-04-2024	120397.2	120556.2	159
10-04-2024	120556.2	120721.7	165.5
11-04-2024	120721.7	120890.4	168.7
12-04-2024	120890.4	121054.1	163.7
13-04-2024	121054.1	121219	164.9
14-04-2024	121219	121383.5	164.5
15-04-2024	121383.5	121546.9	163.4
16-04-2024	121546.9	121717.4	170.5
17-04-2024	121717.4	121886.7	169.3
18-04-2024	121886.7	122049.3	162.6
19-04-2024	122049.3	122207.8	158.5
20-04-2024	122207.8	122375.2	167.4
21-04-2024	122375.2	122535.9	160.7
22-04-2024	122535.9	122696.6	160.7
23-04-2024	122696.6	122859	162.4
24-04-2024	122859	123023	164
25-04-2024	123023	123188.3	165.3
26-04-2024	123188.3	123352.6	163.4
27-04-2024	123352.6	123512.6	164.3
28-04-2024	123512.6	123676.8	160
29-04-2024	123676.8	123841.2	164.2
30-04-2024	123841.2	124005.6	164.4
	Total Reading		4926.7

Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP RCC plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-04-2024	50799.7	50882.1	82.4
02-04-2024	50882.1	50966.2	84.1
03-04-2024	50966.2	51051.3	85.1
04-04-2024	51051.3	51131.9	80.6
05-04-2024	51131.9	51212.2	80.3
06-04-2024	51212.2	51292.4	80.2
07-04-2024	51292.4	51372.5	80.1
08-04-2024	51372.5	51457.1	84.6
09-04-2024	51457.1	51542.2	85.1
10-04-2024	51542.2	51625.8	83.6
11-04-2024	51625.8	51707	81.2
12-04-2024	51707	51789.5	82.5
13-04-2024	51789.5	51874.6	85.1
14-04-2024	51874.6	51956.9	82.3
15-04-2024	51956.9	52040.1	83.2
16-04-2024	52040.1	52120.7	80.6
17-04-2024	52120.7	52203.1	81.2
18-04-2024	52203.1	52286.8	82.4
19-04-2024	52286.8	52368.4	83.7
20-04-2024	52368.4	52449	81.6
21-04-2024	52449	52529.1	80.6
22-04-2024	52529.1	52611.2	80.1
23-04-2024	52611.2	52693	82.1
24-04-2024	52693	52775.2	81.8
25-04-2024	52775.2	52857.4	82.2
26-04-2024	52857.4	52938.8	81.4
27-04-2024	52938.8	53021.2	82.4
28-04-2024	53021.2	53103.4	82.2
29-04-2024	53103.4	53186.5	83.1
30-04-2024	53186.5	53267.9	81.4
	Total Reading		2467.2

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E-Mail – redseaesi@gmail.com

Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in ETP plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-04-2024	1078.5	1082.4	3.9
02-03-2024	1082.4	1086.2	3.8
03-03-2024	1086.2	1090.4	4.2
04-03-2024	1090.4	1096.7	6.3
05-03-2024	1096.7	1101.8	5.1
06-03-2024	1101.8	1106.8	5
07-03-2024	1106.8	1110.6	3.8
08-03-2024	1110.6	1114.3	3.7
09-03-2024	1114.3	1118.5	4.2
10-03-2024	1118.5	1124.1	5.6
11-03-2024	1124.1	1129.3	5.2
12-03-2024	1129.3	1133.8	4.5
13-03-2024	1133.8	1138.9	5.1
14-03-2024	1138.9	1142.9	4
15-03-2024	1142.9	1149.9	7
16-03-2024	1149.9	1154.5	4.6
17-03-2024	1154.5	1157.7	3.2
18-03-2024	1157.7	1160.7	3
19-03-2024	1160.7	1163.9	3.2
20-03-2024	1163.9	1167	3.1
21-03-2024	1167	1171	4
22-03-2024	1171	1174.2	3.2
23-03-2024	1174.2	1177.3	3.1
24-03-2024	1177.3	1180.3	3
25-03-2024	1180.3	1183.1	2.8
26-03-2024	1183.1	1186	2.9
27-03-2024	1186	1188.8	2.8
28-03-2024	1188.8	1190.6	1.8
29-03-2024	1190.6	1196.2	5.6
30-03-2024	1196.2	1202.7	6.5
	Total Reading		124.2

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Red Sea Eco Solutions & Instruments (P) Ltd.

THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 01.03.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for February 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of February 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.			
S.No	**Observation**	**Recommendation**	**Scope**
1.	MS-STP – Standby Air blower not working (3rd Blower) MS-STP – Second Standby Air blower not working (2nd Blower) MS-STP – Blower I in operation , the belt has got damaged	To be replaced with the new one. To be serviced for the operation. The damaged belt to be replaced for the operation	To be Discuss with the Client for the further process
2.	MS-STP - Sludge recirculation pump not Working	Need to be serviced for the operation and necessary replacement of Pipes & Fittings to be done.	To be Discuss with the Client for the further process
3.	MS-STP – inlet flow meter reading mismatch problem MS-STP – outlet flow meter not working due to electrical issues (storm water stagnant)	Inlet flow metre need to be serviced & calibrated. The Electrical issue to be resolved and if required outlet flow meter need to be serviced and calibrated.	To be Discuss with Client for the further process
4.	MS-STP - Filter Backwash Pump not working	To be serviced or replaced with new pump	To be Discuss with Client for the further process

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Mogappair West, Chennai – 600 037.Phone: 044 26258330
E-Mail – redseaesi@gmail.com

5.	MS-STP - UF system not in working condition UF treated sintex tank damaged and separate toilet flushing plumbing pipeline is not available	UF programming need to be done and necessary service for the operation to be provided. Tank to be replaced and separate Toilet flushing line with Pump & Plumbing Pipe lines to be done for the utilization of treated water.	To be Discuss with Client for the further process
6.	MS-STP – UV System not available	To meet one of the TNPCB standard of Fecal Coliform and Total Coliform, UV to be installed in the STP.	To be Discuss with Client for the further process

Please find our observation and recommendation for your reference. RCC

S.No	Observation	Recommendation	Scope
7.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
8.	RCC-STP - Filter feed pump leakage problem	General services is required for the Filter feed pump	To be Discuss with the Client for the further process
9.	RCC-STP - UV system is not in working condition	We need to be services UV system	To be Discuss with Client
10.	Both RCC & MS plant - The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
11.	Electrical load capacity not meeting the existing setup due to the installation of Garden pump with the Higher capacity. (10 HP).	The current load capacity need to be calculated and proper electrical modification has to be done for the operation.	Client scope

DEAN
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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

	It leads to frequent stoppage at the time of Garden pump in operation.		
12.	Garden Area There is insufficient area for the disposal of treated sewage on the premises. Currently, it is being disposed to the nearby land areas in the MS STP plant.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process

PUMP REQUIREMENTS FOR THE BELOW LOCATION:

The pump required for the following locations:

RCC -STP Plant Sewage Collection Tank Locations:	MS- STP Plant Sewage Collection Tank Locations:
1.MBBS Girl's Hostel	1.Staff Quarters
	2.ICU

Apart from the above requirement, we need the stand by pumps for the below locations to manage the emergency situation considering their sewage inlet generation.

RCC -STP Plant Sewage Collection Tank Locations:	MS- STP Plant Sewage Collection Tank Locations:
1.Canteen collection tank	3.ICU collection tank
2.Girl hostel collection tank	

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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

Please find our observation and recommendation for your reference

S.No	Observation	Recommendation	Scope
1.	ETP – Outlet flow meter in not available	We need to be install new outlet flow meter	To be Discuss with Client
2.	ETP-RO – rotate meter is damaged	We need to be replaced new one	To be Discuss with Client
3.	Pre- treatment plant: The pre-treatment process is specifically designed for oil separation from canteen wastewater. The Sewage mixing with the Canteen leads to operational issue.	As per the treatment process we need to separate Collection tank for pre-treatment process to remove the oil and other inorganic compounds from the canteen water. Then it can be mixed with the existing STP for the further treatment.	Client scope
4.	Electrical issues in pre-treatment panel board Existing Electrical connection is not meeting the current load requirement	Installation of new cables with suitable accessories to meet the excess load capacity.	Work Under Progress
5.	The Chemical Storage area / Rack and Operator room for ETP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP MS plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-02-2024	108643.1	108811.6	168.5
02-02-2024	108811.6	108976	164.4
03-02-2024	108976	109137.5	161.5
04-02-2024	109137.5	109298.8	161.3
05-02-2024	109298.8	109464.6	165.8
06-02-2024	109464.6	109628.4	163.8
07-02-2024	109628.4	109793.4	165
08-02-2024	109793.4	109955	161.6
09-02-2024	109955	110117.4	162.4
10-02-2024	110117.4	110277.8	160.4
11-02-2024	110277.8	110437.8	160
12-02-2024	110437.8	110592.8	155
13-02-2024	110592.8	110746.7	153.9
14-02-2024	110746.7	110913.5	166.8
15-02-2024	110913.5	111078.5	165
16-02-2024	111078.5	111245	166.5
17-02-2024	111245	111405.6	160.6
18-02-2024	111405.6	111566.3	160.7
19-02-2024	111566.3	111732.1	165.8
20-02-2024	111732.1	111888.5	156.4
21-02-2024	111888.5	112040.7	152.2
22-02-2024	112040.7	112192.7	152
23-02-2024	112192.7	112351.2	158.5
24-02-2024	112351.2	112515.6	164.4
25-02-2024	112515.6	112677.6	162
26-02-2024	112677.6	112843.5	165.9
27-02-2024	112843.5	113011.4	167.9
28-02-2024	113011.4	113174.7	163.3
29-02-2024	113174.7	113338.8	164.1
	Total Reading		4695.7

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP RCC plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-02-2024	46037.9	46118.4	80.5
02-02-2024	46118.4	46198.6	80.2
03-02-2024	46198.6	46280	81.4
04-02-2024	46280	46360.4	80.4
05-02-2024	46360.4	46437.2	76.8
06-02-2024	46437.2	46516	78.8
07-02-2024	46516	46595.5	79.5
08-02-2024	46595.5	46675.6	80.1
09-02-2024	46675.6	46757	81.4
10-02-2024	46757	46835.4	78.4
11-02-2024	46835.4	46912.5	77.1
12-02-2024	46912.5	46990.6	78.1
13-02-2024	46990.6	47073.7	83.1
14-02-2024	47073.7	47155.2	81.5
15-02-2024	47155.2	47233.6	78.4
16-02-2024	47233.6	47304.1	70.5
17-02-2024	47304.1	47378.6	74.5
18-02-2024	47378.6	47453.7	75.1
19-02-2024	47453.7	47531.8	78.1
20-02-2024	47531.8	47611.2	79.4
21-02-2024	47611.2	47686.6	75.4
22-02-2024	47686.6	47759.7	73.1
23-02-2024	47759.7	47838.1	78.4
24-02-2024	47838.1	47916	77.9
25-02-2024	47916	47991.1	75.1
26-02-2024	47991.1	48065.9	74.8
27-02-2024	48065.9	48141	75.1
28-02-2024	48141	48219.4	78.4
29-02-2024	48219.4	48299.8	80.4
	Total Reading		2261.9

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in ETP plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-02-2024	760.6	768.5	7.9
02-02-2024	768.5	777.1	8.6
03-02-2024	777.1	785.1	8
04-02-2024	785.1	791.9	6.8
05-02-2024	791.9	796.9	5
06-02-2024	796.9	804.1	7.2
07-02-2024	804.1	810.5	6.4
08-02-2024	810.5	816.1	5.6
09-02-2024	816.1	822.6	6.5
10-02-2024	822.6	827.8	5.2
11-02-2024	827.8	833.2	5.4
12-02-2024	833.2	837.7	4.5
13-02-2024	837.7	842	4.3
14-02-2024	842	846.5	4.5
15-02-2024	846.5	851.3	4.8
16-02-2024	851.3	855.8	4.5
17-02-2024	855.8	860.8	5
18-02-2024	860.8	866.2	5.4
19-02-2024	866.2	871	4.8
20-02-2024	871	875.2	4.2
21-02-2024	875.2	879.5	4.3
22-02-2024	879.5	883.7	4.2
23-02-2024	883.7	889.5	5.8
24-02-2024	889.5	895	5.5
25-02-2024	895	899.3	4.3
26-02-2024	899.3	904.4	5.1
27-02-2024	904.4	909.6	5.2
28-02-2024	909.6	915.2	5.6
29-02-2024	915.2	922.7	7.5
	Total Reading		162.1

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THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 02.02.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for January 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of January 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.

S.No	Observation	Recommendation	Scope
1.	MS-STP – Standby Air blower not working (3rd Blower) MS-STP – Second Standby Air blower not working (2nd Blower) MS-STP – Blower I in operation , the belt has got damaged	To be replaced with the new one. To be serviced for the operation. The damaged belt to be replaced for the operation	To be Discuss with the Client for the further process
2.	MS-STP - Sludge recirculation pump not Working	Need to be serviced for the operation and necessary replacement of Pipes & Fittings to be done.	To be Discuss with the Client for the further process
3.	MS-STP – inlet flow meter reading mismatch problem MS-STP – outlet flow meter not working due to electrical issues (storm water stagnant)	Inlet flow metre need to be serviced & calibrated. The Electrical issue to be resolved and if required outlet flow meter need to be serviced and calibrated.	To be Discuss with Client for the further process
4.	MS-STP - Filter Backwash Pump not working	To be serviced or replaced with new pump	To be Discuss with Client for the further process

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5.	MS-STP - UF system not in working condition UF treated sintex tank damaged and separate toilet flushing plumbing pipeline is not available	UF programming need to be done and necessary service for the operation to be provided. Tank to be replaced and separate Toilet flushing line with Pump & Plumbing Pipe lines to be done for the utilization of treated water.	To be Discuss with Client for the further process
6.	MS-STP – UV System not available	To meet one of the TNPCB standard of Fecal Coliform and Total Coliform, UV to be installed in the STP.	To be Discuss with Client for the further process

Please find our observation and recommendation for your reference. RCC

S.No	Observation	Recommendation	Scope
7.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
8.	RCC-STP - Filter feed pump leakage problem	General services is required for the Filter feed pump	To be Discuss with the Client for the further process
9.	RCC-STP - UV system is not in working condition	We need to be services UV system	To be Discuss with Client
10.	Both RCC & MS plant - The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
11.	Electrical load capacity not meeting the existing setup due to the installation of Garden pump with the Higher capacity. (10 HP).	The current load capacity need to be calculated and proper electrical modification has to be done for the operation.	Client scope

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	It leads to frequent stoppage at the time of Garden pump in operation.		
12.	Garden Area There is insufficient area for the disposal of treated sewage on the premises. Currently, it is being disposed to the nearby land areas in the MS STP plant.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process

PUMP REQUIREMENTS FOR THE BELOW LOCATION:

The pump required for the following locations:

RCC -STP Plant Sewage Collection Tank Locations:	MS- STP Plant Sewage Collection Tank Locations:
1.MBBS Girl's Hostel	1.Staff Quarters
	2.ICU

Apart from the above requirement, we need the stand by pumps for the below locations to manage the emergency situation considering their sewage inlet generation.

RCC -STP Plant Sewage Collection Tank Locations:	MS- STP Plant Sewage Collection Tank Locations:
1.Canteen collection tank	3.ICU collection tank
2.Girl hostel collection tank	

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Please find our observation and recommendation for your reference			
S.No	**Observation**	**Recommendation**	**Scope**
1.	ETP – Outlet flow meter in not available	We need to be install new outlet flow meter	To be Discuss with Client
2.	ETP-RO – rotate meter is damaged	We need to be replaced new one	To be Discuss with Client
3.	Pre- treatment plant: The pre-treatment process is specifically designed for oil separation from canteen wastewater. The Sewage mixing with the Canteen leads to operational issue.	As per the treatment process we need to separate Collection tank for pre-treatment process to remove the oil and other inorganic compounds from the canteen water. Then it can be mixed with the existing STP for the further treatment.	Client scope
4.	Electrical issues in pre-treatment panel board Existing Electrical connection is not meeting the current load requirement	Installation of new cables with suitable accessories to meet the excess load capacity.	Work Under Progress
5.	The Chemical Storage area / Rack and Operator room for ETP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client

Last Month Problems Rectified:

1. Civil STP Plant Sewage Collection Tank Locations:
    - Identified Problem: Filter feed pump leakage
    - Problem rectified : after that Filter feed pump problem rectified

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Monthly Report For Electromagatic Flow Meter [Outlet] For STP in MS plant			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-01-2024	104139.7	104285.5	145.8
02-01-2024	104285.5	104420.9	135.4
03-01-2024	104420.9	104562.4	141.5
04-01-2024	104562.4	104702.9	140.5
05-01-2024	104702.9	104788.3	85.4
06-01-2024	104788.3	104930.9	142.6
07-01-2024	104930.9	105071.5	140.6
08-01-2024	105071.5	105216.4	144.9
09-01-2024	105216.4	105352	135.6
10-01-2024	105352	105501	149
11-01-2024	105501	105654.1	153.1
12-01-2024	105654.1	105805.1	151
13-01-2024	105805.1	105957.2	152.1
14-01-2024	105957.2	106110.3	153.1
15-01-2024	106110.3	106255.5	145.2
16-01-2024	106255.5	106406.5	151
17-01-2024	106406.5	106556.4	149.9
18-01-2024	106556.4	106706.8	150.4
19-01-2024	106706.8	106856.2	149.4
20-01-2024	106856.2	107007	150.8
21-01-2024	107007	107159.4	152.4
22-01-2024	107159.4	107308.4	149
23-01-2024	107308.4	107457.1	148.7
24-01-2024	107457.1	107607.6	150.5
25-01-2024	107607.6	107757.8	150.2
26-01-2024	107757.8	107907.5	149.7
27-01-2024	107907.5	108062.6	155.1
28-01-2024	108062.6	108207.9	145.3
29-01-2024	108207.9	108366.4	158.5
30-01-2024	108366.4	108510.8	144.4
31-01-2024	108510.8	108644	133.2
	Total Reading		4504.3

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Monthly Report For Electromagatic Flow Meter [Outlet] For STP in RCC plant			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-01-2024	43784.8	43850.1	65.3
02-01-2024	43850.1	43920.4	70.3
03-01-2024	43920.4	43980.6	60.2
04-01-2024	43980.6	44035.9	55.3
05-01-2024	44035.9	44097.1	61.2
06-01-2024	44097.1	44167.2	70.1
07-01-2024	44167.2	44229.6	62.4
08-01-2024	44229.6	44299.8	70.2
09-01-2024	44299.8	44373.3	73.5
10-01-2024	44373.3	44451.7	78.4
11-01-2024	44451.7	44528.6	76.9
12-01-2024	44528.6	44607	78.4
13-01-2024	44607	44681.7	74.7
14-01-2024	44681.7	44758.1	76.4
15-01-2024	44758.1	44828.4	70.3
16-01-2024	44828.4	44901.6	73.2
17-01-2024	44901.6	44978.4	76.8
18-01-2024	44978.4	45052.7	74.3
19-01-2024	45052.7	45129	76.3
20-01-2024	45129	45203.2	74.2
21-01-2024	45203.2	45280	76.8
22-01-2024	45280	45355.9	75.9
23-01-2024	45355.9	45430.4	74.5
24-01-2024	45430.4	45505.8	75.4
25-01-2024	45505.8	45582.3	76.5
26-01-2024	45582.3	45655.2	72.9
27-01-2024	45655.2	45729.7	74.5
28-01-2024	45729.7	45803.5	73.8
29-01-2024	45803.5	45880.2	76.7
30-01-2024	45880.2	45958	77.8
31-01-2024			79.4
	Total Reading		2252.6

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Monthly Report For Electromagatic Flow Meter [Inlet] For ETP plant			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-01-2024	590.8	594.5	3.7
02-01-2024	594.5	598.7	4.2
03-01-2024	598.7	602.4	3.7
04-01-2024	602.4	610.1	7.7
05-01-2024	610.1	616.8	6.7
06-01-2024	616.8	623.2	6.4
07-01-2024	623.2	627.7	4.5
08-01-2024	627.7	632.5	4.8
09-01-2024	632.5	636.8	4.3
10-01-2024	636.8	641.6	4.8
11-01-2024	641.6	646.5	4.9
12-01-2024	646.5	651.1	4.6
13-01-2024	651.1	657.3	6.2
14-01-2024	657.3	662.5	5.2
15-01-2024	662.5	666.9	4.4
16-01-2024	666.9	671.7	4.8
17-01-2024	671.7	677.3	5.6
18-01-2024	677.3	684.7	7.4
19-01-2024	684.7	692	7.3
20-01-2024	692	698.7	6.7
21-01-2024	698.7	704.7	6
22-01-2024	704.7	710.3	5.6
23-01-2024	710.3	715.1	4.8
24-01-2024	715.1	720.8	5.7
25-01-2024	720.8	725.9	5.1
26-01-2024	725.9	730.3	4.4
27-01-2024	730.3	736.1	5.8
28-01-2024	736.1	742.1	6
29-01-2024	742.1	747.8	5.7
30-01-2024	747.8	753.2	5.4
31-01-2024	753.2	761.8	8.6
	Total Reading		171

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Red Sea Eco Solutions & Instruments (P) Ltd.

THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 19.08.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for July 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of July 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.

S.No	Observation	Recommendation	Scope
1.	MS-STP – Standby air blower not working (3rd Blower)	To be replaced with a new one.	To be discussed with the client for further process.
2.	MS-STP – Currently, we have a 3.0 HP pump, which is insufficient. It needs to be replaced with a 5.0 HP pump	To be replaced with the new one (5.0 hp pump)	To be Discuss with the Client for the further process
3.	MS-STP – Facing issues with leakage and seepage in MS skied partition and bottom area.	The leakage in the MS partition needs to be arrested to avoid sludge escaping from the settling tank to the filter feed tank.	To be Discuss with the Client for the further process
4.	MS-STP – Sludge recirculation pump not Working	Needs to be serviced for pump, and necessary replacement of pipes and fittings should be done.	To be Discuss with the Client for the further process
5.	MS-STP – During sludge drying, sludge escapes and is not properly deposited	Replace sludge bed media for proper filtration	To be discussed with the client for further process.
6.	MS-STP – Inlet flow meter reading mismatch problem. MS-STP – Outlet flow meter not working due to electrical issues (storm water stagnant).	The inlet flow meter needs to be serviced and calibrated. Electrical issues should be resolved, and if required, the outlet flow meter should also be serviced and calibrated.	To be Discuss with Client for the further process
7.	MS-STP – UF system not in working condition. UF treated Sintex tank damaged, and a separate toilet flushing plumbing pipeline is not available.	UF programming needs to be done, and necessary service for operation should be provided. The tank should be replaced, and a separate toilet flushing line with pump and plumbing pipelines should be installed for the utilization of treated water.	To be discussed with the client for further process.

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Please find our observation and recommendation for your reference. RCC			
S.No	**Observation**	**Recommendation**	**Scope**
1.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
2.	RCC-STP – Standby air blower not working (2rd Blower)	Needs to be serviced Air Blower	To be discussed with the client for further process.
3.	RCC-STP – Sludge recirculation pump not Working	Needs to be serviced for pump, and necessary replacement of pipes and fittings should be done.	To be Discuss with the Client for the further process
4.	RCC-STP Mechanical clarifier not working	Needs to be serviced mechanical clarifier	To be Discuss with the Client for the further process

Please find our observation and recommendation for your reference. RCC, MS & ETP			
S.No	**Observation**	**Recommendation**	**Scope**
1.	Both RCC & MS plant The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
2.	Both RCC & MS plant Garden Area There is insufficient area for the disposal of treated sewage on the premises.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process
3.	Chemical Storage Area/Rack and Operator Room for ETP Plant	The required rack and storage area for chemicals need to be installed, and an operator room needs to be constructed as per the requirement.	To be Discuss with the Client for the further process

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Red Sea Eco Solutions & Instruments (P) Ltd.

Please find our observation and recommendation for your reference			
S.No	**Observation**	**Recommendation**	**Scope**
1.	Pre- Treatment plant for STP The pre-treatment process is specifically designed for oil separation from canteen wastewater. Mixing sewage with canteen wastewater leads to operational issues.	Separation civil work completed and still the Collection Tank Cleaning work pending	Client scope
2.	ETP – sludge pump not available	Install a new one	Client scope
3.	ETP – Outlet flow meter is not available	Install a new outlet flow meter	To be Discuss with Client
4.	ETP - RO – Rota meter is damaged	Replace with a new one	To be Discuss with Client
5.	ETP – plant The flash mixer tank currently has no provision to transfer effluent to the next process. The filtration feed pump is not operational	Fix the pipeline for further treatment processes.	-
6.	ETP – RO Plant The RO system is not operational. There are no storage tanks or RO permeate transfer pumps	Service the system and install the necessary transfer pump	To be Discuss with Client

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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP MS plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-07-2024	133283.7	133449.4	165.7
02-07-2024	133449.4	133608.6	159.2
03-07-2024	133608.6	133777.9	169.3
04-07-2024	133777.9	133938.5	160.6
05-07-2024	133938.5	134102.3	163.8
06-07-2024	134102.3	134264.8	162.5
07-07-2024	134264.8	134425.7	160.9
08-07-2024	134425.7	134588.7	163
09-07-2024	134588.7	134756.3	167.6
10-07-2024	134756.3	134920.3	164
11-07-2024	134920.3	135085.2	164.9
12-07-2024	135085.2	135254.5	169.3
13-07-2024	135254.5	135424.2	169.7
14-07-2024	135424.2	135589.7	165.5
15-07-2024	135589.7	135754.7	165
16-07-2024	135754.7	135913	158.3
17-07-2024	135913	136078.5	165.5
18-07-2024	136078.5	136248.3	169.8
19-07-2024	136248.3	136419.8	171.5
20-07-2024	136419.8	136583.5	163.7
21-07-2024	136583.5	136746.8	163.3
22-07-2024	136746.8	136916.5	169.7
23-07-2024	136916.5	137085.4	168.9
24-07-2024	137085.4	137251	165.6
25-07-2024	137251	137420.5	169.5
26-07-2024	137420.5	137588.1	163.5
27-07-2024	137588.1	137756.2	167.6
28-07-2024	137756.2	137921.9	168.1
29-07-2024	137921.9	138089.4	165.7
30-07-2024	138089.4	138256.9	167.5
31-07-2024	138256.9	138422.4	165.5
	Total Reading		5134.7

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP RCC plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-07-2024	581991.1	58280.2	82.2
02-07-2024	58280.2	58360.6	80.4
03-07-2024	58360.6	58439	78.4
04-07-2024	58439	58519.1	80.1
05-07-2024	58519.1	58601.2	82.1
06-07-2024	58601.2	58682.8	81.6
07-07-2024	58682.8	58762.9	80.1
08-07-2024	58762.9	58844.3	81.4
09-07-2024	58844.3	58926.7	82.4
10-07-2024	58926.7	59008.1	81.4
11-07-2024	59008.1	59092.3	84.2
12-07-2024	59092.3	59173.5	81.2
13-07-2024	59173.5	59258	84.5
14-07-2024	59258	59342.3	84.3
15-07-2024	59342.3	59422.6	80.3
16-07-2024	59422.6	59503	80.4
17-07-2024	59503	59584.6	81.4
18-07-2024	59584.6	59666.7	81.6
19-07-2024	59666.7	59746.8	82.1
20-07-2024	59746.8	59829.1	80.1
21-07-2024	59829.1	59910.5	82.3
22-07-2024	59910.5	59999.1	81.4
23-07-2024	59999.1	60079.2	88.6
24-07-2024	60079.2	60159.4	80.1
25-07-2024	60159.4	60239.6	80.2
26-07-2024	60239.6	60321	81.4
27-07-2024	60321	60401.5	80.5
28-07-2024	60401.5	60483.9	82.4
29-07-2024	60483.9	60565.3	81.4
30-07-2024	60565.3	60647.7	82.4
31-07-2024	60647.7	60730.1	82.4
	Total Reading		2533.3

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Monthly Report For Trated water reading in ETP plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-07-2024	1497	1505.5	4.5
02-07-2024	1505.5	1506	4.5
03-07-2024	1506	1510.4	4.4
04-07-2024	1510.4	1520	9.6
05-07-2024	1520	1526.7	6.7
06-07-2024	1526.7	1532.9	6.2
07-07-2024	1532.9	1535.8	2.9
08-07-2024	1535.8	1539.8	4
09-07-2024	1539.8	1544.6	4.8
10-07-2024	1544.6	1549.6	5
11-07-2024	1549.6	1554.4	4.8
12-07-2024	1554.4	1561.6	7.2
13-07-2024	1561.6	1566.6	5
14-07-2024	1566.6	1569.7	3.1
15-07-2024	1569.7	1573.7	4
16-07-2024	1573.7	1576.7	3
17-07-2024	1576.7	1579.7	3
18-07-2024	1579.7	1586.2	6.5
19-07-2024	1586.2	1591.4	5.2
20-07-2024	1591.4	1597.6	6.2
21-07-2024	1597.6	1598.6	1
22-07-2024	1598.6	1603.3	4.7
23-07-2024	1603.3	1608.5	5.2
24-07-2024	1608.5	1613	4.5
25-07-2024	1613	1617.7	4.7
26-07-2024	1617.7	1628.9	11.2
27-07-2024	1628.9	1637.4	8.5
28-07-2024	1637.4	1640.7	3.3
29-07-2024	1640.7	1645.4	4.7
30-07-2024	1645.4	1649.8	4.4
31-07-2024	1649.8	1656.7	6.9
	Total Reading		159.7

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Red Sea Eco Solutions & Instruments (P) Ltd.

THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 04.04.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for March 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of Mach 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.

S.No	Observation	Recommendation	Scope
1.	MS-STP – Standby Air blower not working (3rd Blower)	To be replaced with the new one.	To be Discuss with the Client for the further process
2.	MS-STP - Sludge recirculation pump not Working	Need to be serviced for the operation and necessary replacement of Pipes & Fittings to be done.	To be Discuss with the Client for the further process
3.	MS-STP – inlet flow meter reading mismatch problem MS-STP – outlet flow meter not working due to electrical issues (storm water stagnant)	Inlet flow metre need to be serviced & calibrated. The Electrical issue to be resolved and if required outlet flow meter need to be serviced and calibrated.	To be Discuss with Client for the further process
4.	MS-STP - UF system not in working condition UF treated sintex tank damaged and separate toilet flushing plumbing pipeline is not available	UF programming need to be done and necessary service for the operation to be provided. Tank to be replaced and separate Toilet flushing line with Pump & Plumbing Pipe lines to be done for the utilization of treated water.	To be Discuss with Client for the further process

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Please find our observation and recommendation for your reference. RCC			
S.No	**Observation**	**Recommendation**	**Scope**
5.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
6.	RCC-STP - Filter feed pump leakage problem	General services is required for the Filter feed pump	To be Discuss with the Client for the further process
7.	RCC-STP - UV system is not in working condition	We need to be services UV system	To be Discuss with Client
8.	Both RCC & MS plant - The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
9.	Garden Area There is insufficient area for the disposal of treated sewage on the premises. Currently, it is being disposed to the nearby land areas in the MS STP plant.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process

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Please find our observation and recommendation for your reference			
S.No	**Observation**	**Recommendation**	**Scope**
1.	ETP – Outlet flow meter in not available	We need to be install new outlet flow meter	To be Discuss with Client
2.	ETP-RO – rotate meter is damaged	We need to be replaced new one	To be Discuss with Client
3.	Pre- Treatment plant: The pre-treatment process is specifically designed for oil separation from canteen wastewater. The Sewage mixing with the Canteen leads to operational issue.	As per the treatment process we need to separate Collection tank for pre-treatment process to remove the oil and other inorganic compounds from the canteen water. Then it can be mixed with the existing STP for the further treatment.	Client scope
4.	Electrical issues in pre-treatment panel board Existing Electrical connection is not meeting the current load requirement	Installation of new cables with suitable accessories to meet the excess load capacity.	Work Under Progress
5.	The Chemical Storage area / Rack and Operator room for ETP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP MS plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-03-2024	113338.8	113505.8	167
02-03-2024	113505.8	113666.6	160.8
03-03-2024	113666.6	113828.1	161.5
04-03-2024	113828.1	113986.8	158.7
05-03-2024	113986.8	114138.8	152
06-03-2024	114138.8	114298.4	159.6
07-03-2024	114298.4	114460.8	162.4
08-03-2024	114460.8	114622.8	162
09-03-2024	114622.8	114780.4	157.6
10-03-2024	114780.4	114933.4	153
11-03-2024	114933.4	115086.2	152.8
12-03-2024	115086.2	115244.4	158.2
13-03-2024	115244.4	115406.8	162.4
14-03-2024	115406.8	115487.7	80.9
15-03-2024	115487.7	115653.8	166.1
16-03-2024	115653.8	115808.8	155
17-03-2024	115808.8	115967.1	158.3
18-03-2024	115967.1	116132.1	165
19-03-2024	116132.1	116298	165.9
20-03-2024	116298	116463.2	165.2
21-03-2024	116463.2	116632.8	169.6
22-03-2024	116632.8	116801.4	168.6
23-03-2024	116801.4	116969.2	167.8
24-03-2024	116969.2	117137.6	168.4
25-03-2024	117137.6	117306.3	168.7
26-03-2024	117306.3	117472.2	165.9
27-03-2024	117472.2	117640.5	168.3
28-03-2024	117640.5	117810.6	170.1
29-03-2024	117810.6	117982.3	171.7
30-03-2024	117982.3	118149.9	167.6
31-03-2024	118149.9	118316.3	166.4
	Total Reading		4977.5

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Monthly Report For Trated water reading in STP RCC plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-03-2024	48302.8	48380.9	78.1
02-03-2024	48380.9	48460.7	79.8
03-03-2024	48460.7	48541.2	80.5
04-03-2024	48541.2	48620.6	79.4
05-03-2024	48620.6	48699	78.4
06-03-2024	48699	48776.8	77.8
07-03-2024	48776.8	48852	75.2
08-03-2024	48852	48924.4	72.4
09-03-2024	48924.4	49002.8	78.4
10-03-2024	49002.8	49079	76.2
11-03-2024	49079	49157.4	78.4
12-03-2024	49157.4	49236.7	79.3
13-03-2024	49236.7	49316.8	80.1
14-03-2024	49316.8	49399.1	82.3
15-03-2024	49399.1	49482.7	83.6
16-03-2024	49482.7	49561.1	78.4
17-03-2024	49561.1	49641.2	80.1
18-03-2024	49641.2	49723.2	82
19-03-2024	49723.2	49804.8	81.6
20-03-2024	49804.8	49887.1	82.3
21-03-2024	49887.1	49970.1	83
22-03-2024	49970.1	50055.2	85.1
23-03-2024	50055.2	50137.5	82.3
24-03-2024	50137.5	50219.1	81.6
25-03-2024	50219.1	50302.3	83.2
26-03-2024	50302.3	50383.3	81
27-03-2024	50383.3	50465.7	82.4
28-03-2024	50465.7	50549.3	83.6
29-03-2024	50549.3	50633.6	84.3
30-03-2024	50633.6	50717.7	84.1
31-03-2024	50717.7	50799.8	82.1
	Total Reading		2497

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Monthly Report For Trated water reading in ETP plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-03-2024	922.7	930.2	7.5
02-03-2024	930.2	935.1	4.9
03-03-2024	935.1	939.2	4.1
04-03-2024	939.2	945.5	6.3
05-03-2024	945.5	950.7	5.2
06-03-2024	950.7	955.9	5.2
07-03-2024	955.9	963.1	7.2
08-03-2024	963.1	968	4.9
09-03-2024	968	973.4	5.4
10-03-2024	973.4	977.9	4.5
11-03-2024	977.9	982.8	4.9
12-03-2024	982.8	987.9	5.1
13-03-2024	987.9	992.1	4.2
14-03-2024	992.1	997.5	5.4
15-03-2024	997.5	1003.5	6
16-03-2024	1003.5	1007.7	4.2
17-03-2024	1007.7	1011.5	3.8
18-03-2024	1011.5	1015.8	4.3
19-03-2024	1015.8	1020.3	4.5
20-03-2024	1020.3	1025.1	4.8
21-03-2024	1025.1	1029.7	4.6
22-03-2024	1029.7	1035.5	5.8
23-03-2024	1035.5	1040.1	4.6
24-03-2024	1040.1	1045	4.9
25-03-2024	1045	1051.3	6.3
26-03-2024	1051.3	1055.2	3.9
27-03-2024	1055.2	1060.8	5.6
28-03-2024	1060.8	1066.8	6
29-03-2024	1066.8	1070.3	3.5
30-03-2024	1070.3	1074.8	4.5
31-03-2024	1074.8	1079.4	4.6
	Total Reading		156.7

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Red Sea Eco Solutions & Instruments (P) Ltd.

THE MONTHLY REPORT FOR THE SITE OF – TAGORE MEDICAL

TO

Date: 04.06.2024

M/S – **Tagore Medical College & Hospital**
Rathinamangalam, Melakottaiyur,
Chennai,
Tamil Nadu 600127

Subject:

STP / ETP Monthly Report for May 2024 and Equipment Issues with Pending Approvals – Reg

Please find attached the operational and maintenance observations report for the Sewage Treatment Plant (STP) and Effluent Treatment Plant (ETP) at Tagore Groups site for the month of May 2024.

1. MAINTENANCE ISSUES FOR STP IN RCC & MS

Please find our observation and recommendation for your reference.

S.No	Observation	Recommendation	Scope
1.	MS-STP – Standby Air blower not working (3rd Blower)	To be replaced with the new one.	To be Discuss with the Client for the further process
2.	MS-STP - Sludge recirculation pump not Working	Need to be serviced for the operation and necessary replacement of Pipes & Fittings to be done.	To be Discuss with the Client for the further process
3.	MS-STP – inlet flow meter reading mismatch problem MS-STP – outlet flow meter not working due to electrical issues (storm water stagnant)	Inlet flow metre need to be serviced & calibrated. The Electrical issue to be resolved and if required outlet flow meter need to be serviced and calibrated.	To be Discuss with Client for the further process
4.	MS-STP - UF system not in working condition UF treated sintex tank damaged and separate toilet flushing plumbing pipeline is not available	UF programming need to be done and necessary service for the operation to be provided. Tank to be replaced and separate Toilet flushing line with Pump & Plumbing Pipe lines to be done for the utilization of treated water.	To be Discuss with Client for the further process

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TAGORE MEDICAL COLLEGE & HOSPITAL
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Chennai-600 127.

Red Sea Eco Solutions & Instruments (P) Ltd.

Please find our observation and recommendation for your reference. RCC			
S.No	**Observation**	**Recommendation**	**Scope**
5.	RCC-STP – Both Inlet and outlet flow meter not working due to electrical issues & rain water stagnant (storm water stagnant in RCC plant electrical room)	Flow meter need to be serviced & calibrated.	To be Discuss with the Client for the further process
6.	Both RCC & MS plant - The Chemical Storage area / Rack and Operator room for STP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client
7.	Garden Area There is insufficient area for the disposal of treated sewage on the premises. Currently, it is being disposed to the nearby land areas in the MS STP plant.	Separate area to be identified for treated water disposal for gardening	To be Discuss with the Client for the further process

Please find our observation and recommendation for your reference			
S.No	**Observation**	**Recommendation**	**Scope**
1.	Pre- Treatment plant for STP The pre-treatment process is specifically designed for oil separation from canteen wastewater. The Sewage mixing with the Canteen leads to operational issue.	Collection Tank Cleaning work pending	Client scope
2.	ETP – Outlet flow meter in not available	We need to be install new outlet flow meter	To be Discuss with Client
3.	ETP - RO – rotate meter is damaged	We need to be replaced new one	To be Discuss with Client

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4.	ETP – plant The flash mixer tank currently has no provision to transfer effluent to the next process. The filtration feed pump is not operational.	We need to Fix the pipeline for further treatment processes.	-
5.	ETP – RO Plant The RO system is not operational. There are no storage tanks or RO permeate transfer pumps.	Service the system and install the necessary transfer pump	To be Discuss with Client
6.	The Chemical Storage area / Rack and Operator room for ETP Plant Maintenance	The required rack and storage area for chemical need to be done and operator room to be constructed as per the requirement	To be Discuss with Client

Monthly Report For Trated water reading in ETP plant [Approximate]

Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-05-2024	1202.7	1208.6	5.9
02-05-2024	1208.6	1212.5	3.9
03-05-2024	1212.5	1218.4	5.9
04-05-2024	1218.4	1221.9	3.5
05-05-2024	1221.9	1225.3	3.4
06-05-2024	1225.3	1229.3	4
07-05-2024	1229.3	1233	3.7
08-05-2024	1233	1239.1	6.1
09-05-2024	1239.1	1242.6	3.5
10-05-2024	1242.6	1246.7	4.1
11-05-2024	1246.7	1251	4.3
12-05-2024	1251	1254	3
13-05-2024	1254	1257.1	3.1
14-05-2024	1257.1	1260.1	3
15-05-2024	1260.1	1268.5	8.4
16-05-2024	1268.5	1275.3	6.8
17-05-2024	1275.3	1281.5	6.2
18-05-2024	1281.5	1288.5	7
19-05-2024	1288.5	1292.4	3.9
20-05-2024	1292.4	1297.3	4.9
21-05-2024	1297.3	1304.3	7
22-05-2024	1304.3	1309.3	5
23-05-2024	1309.3	1316	6.7
24-05-2024	1316	1320.7	4.7
25-05-2024	1320.7	1325.4	4.7
26-05-2024	1325.4	1328.1	2.7
27-05-2024	1328.1	1333.6	5.5
28-05-2024	1333.6	1334.9	1.3
29-05-2024	1334.9	1339.8	4.9
30-05-2024	1339.8	1344	4.2
31-05-2024	1344	1349.9	5.9
	Total Reading		147.2

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP MS plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-05-2024	123285.5	123449	163.5
02-05-2024	123449	123614.7	165.7
03-05-2024	123614.7	123778.6	163.9
04-05-2024	123778.6	123948.3	169.7
05-05-2024	123948.3	124114.2	165.9
06-05-2024	124114.2	124283.6	169.4
07-05-2024	124283.6	124451.1	167.5
08-05-2024	124451.1	124617.6	166.5
09-05-2024	124617.6	124781.7	164.1
10-05-2024	124781.7	124947.3	165.6
11-05-2024	124947.3	125112.2	164.9
12-05-2024	125112.2	125278.4	166.2
13-05-2024	125278.4	125447.7	169.3
14-05-2024	125447.7	125617	169.3
15-05-2024	125617	125783.3	166.3
16-05-2024	125783.3	125950	166.7
17-05-2024	125950	126119.4	169.4
18-05-2024	126119.4	126291.1	171.7
19-05-2024	126291.1	126454.6	163.5
20-05-2024	126454.6	126617.4	162.8
21-05-2024	126617.4	126782.6	165.2
22-05-2024	126782.6	126945.8	163.2
23-05-2024	126945.8	127107.9	162.1
24-05-2024	127107.9	127272.5	164.6
25-05-2024	127272.5	127439.8	167.3
26-05-2024	127439.8	127604.3	163.3
27-05-2024	127604.3	127768.8	164.5
28-05-2024	127768.8	127931.1	164.5
29-05-2024	127931.1	128094.3	162.3
30-05-2024	128094.3	128257.5	163.2
31-05-2024	128257.5	128414.2	156.7
	Total Reading		5128.8

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Red Sea Eco Solutions & Instruments (P) Ltd.

Monthly Report For Trated water reading in STP RCC plant [Approximate]			
Date	*Electromagnetic flow meter [Opening]*	*Electromagnetic flow meter [closing]*	*Total Treated Capacity*
01-05-2024	53266.8	53347	80.2
02-05-2024	53347	53427.5	80.5
03-05-2024	53427.5	53511.7	84.2
04-05-2024	53511.7	53593.1	81.4
05-05-2024	53593.1	53673.2	80.1
06-05-2024	53673.2	53755.6	82.4
07-05-2024	53755.6	53839.2	83.6
08-05-2024	53839.2	53921.5	82.3
09-05-2024	53921.5	54002.8	81.3
10-05-2024	54002.8	54085.1	82.3
11-05-2024	54085.1	54166.7	81.6
12-05-2024	54166.7	54251.2	84.5
13-05-2024	54251.2	54333.6	82.4
14-05-2024	54333.6	54417.7	84.1
15-05-2024	54417.7	54499.1	81.4
16-05-2024	54499.1	54581.2	82.1
17-05-2024	54581.2	54663.6	81.3
18-05-2024	54663.6	54745	82.4
19-05-2024	54745	54826.5	81.4
20-05-2024	54826.5	54908.6	81.5
21-05-2024	54908.6	54991.7	82.1
22-05-2024	54991.7	55074.9	83.1
23-05-2024	55074.9	55157.5	83.2
24-05-2024	55157.5	55240.9	82.6
25-05-2024	55240.9	55324.3	83.4
26-05-2024	55324.3	55406.7	82.4
27-05-2024	55406.7	55486.8	80.1
28-05-2024	55486.8	55569.1	82.3
29-05-2024	55569.1	55652.2	83.1
30-05-2024	55652.2	55734.3	82.1
	55734.3	55815.4	81.1
	Total Reading		2546.5

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