



MACFAST™
Igniting wisdom since 2001

MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA
(MACFAST)

Thiruvalla - 689101

WASTE WATER RECYCLING



WASTE WATER RECYCLING

The college installed an odour-free, eco-friendly Sewage Treatment Plant in the premises of the boys' hostel for treatment, recycling and reusing of waste water. Bio-filtration, aeration and oxidation are the major stages of treatment. The tank capacity is 25,000 litres and the treated water is used for gardening purpose.



SEWAGE TREATMENT PLANT



Thiruvalla, Kerala, India
9HFJ+6W6, Thukalassery, Thiruvalla, Kerala 689101, India
Lat 9.372082°
Long 76.683637°
04/02/22 02:17 PM



Waste recycling system

The college has installed a Sewage Treatment Plant in the premises of the boy's hostel, which helps in treatment, recycling and reusing of waste water. The water treatment is odour free and eco-friendly. The treated water is used for gardening.

Source - Wastewater from bathrooms and kitchen

Treatment procedure - 3 stages – Bio filtration, Aeration and Oxidation

Screening procedure - Primary treatment, Chemicals used (Caustic soda and Chlorine)

Outcome - Filtered water

Tank capacity - 25000 liters

Implementation cost - Rupees 18 lakhs

Purpose - Conservation of water



WASTE WATER MANAGEMENT

The college has installed a Sewage Treatment Plant (STP) in the premises of the boy's hostel, through which the waste water is processed and the treated water is used for gardening.

Source	Wastewater from bathrooms and kitchen
Purpose	Conservation of water
Treatment procedure	3 stages ➤ Bio filtration ➤ Aeration ➤ Oxidation
Screening procedure	Primary treatment, Chemicals used (Caustic soda and Chlorine)
Outcome	Filtered water
Tank capacity	25000 liters
Implementation cost	Rupees 18 lakhs



TAX INVOICE

MINERAL MAX 9/427A, EARVADY BUILDING CHEERANCHIRA P O CHANGANASSERY KOTTAYAM 686106 MOBILE:9744907385,9072913020 E-Mail:mineralmax.in@gmail.com GSTIN/UIN:32DECP0341C176	Invoice No. 3123	Dated 20-SEP-2010
	Delivery Note	Mode/Terms Of Payment IMMEDIATE
	Suppliers Reference	Other References
	Buyers Order No.	Dated
BUYER M/s MACFAST COLLEGE THUKALASSERY THIRUVALLA 689101	Despatch Document No.	Delivery Note Date
	Despatched Through Kl. 33 D 6636	Destination THUKALASSERY
	Terms Of Delivery TO PAY	

Sl. No	Description of Goods	HSN/SAC	GST Rate	Qty	Rate	Per	Disc %	Amount
1	Revamping of STP Servicing of pumps panels, tubing etc		9%	1	14068.00	LOT		14068.00
	CGST		9%					1266
	SGST							1266
TOTAL								₹ 116,600

Amount Chargeable(in words) : SIXTEEN THOUSAND AND SIX HUNDRED ONLY

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
84212190	14068.00	9%	1266	9%	1266	2532
TOTAL			1266		1266	2532

Tax amount (in words): TWO THOUSAND FIVE HUNDRED AND THIRTY TWO ONLY


Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct	Company's Bank Details Bank Name : Account No : Branch : IFS Code :
Customers Seal and Signature	Prepared by _____ Verified by _____ Authorized Signatory Mineral Max 9/427A, Earvady Building Cheeranchira P.O., Changanassery Kottayam-686 106

This is a Computer Generated Invoice

Phone: 100227

(Work Completed)

True Copy





KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/PTA/ECO/118/2014

Date of issue :26/09/2018

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : ECO/PTA/87/R1/2018

Ref : 1. CONSENT NO-ECO/PTA/87/2014,ISSUED ON-20/06/2014,VALID UPTO-31/12/2016

2. APPLICATION NO-6668464,SUBMITTED ON-2/08/2018

The 'Integrated Consent to Operate' issued as per reference above to M/s Mar Athanasios College of Advanced Studies (MACFAST) Boy's Hostel, Tholassery, Thiruvalla Pathanamthitta is hereby renewed up to 31/12/2023 and issued to M/s Mar Athanasios College of Advanced Studies (MACFAST) Boy's Hostel, Tholassery, Thiruvalla Pathanamthitta The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	1.1. Validity	31/12/2023
2	1.1.a. Month and year of renewal	30/09/2023
3	1.10.Category	ORANGE
	1.12 Fee Slab/Fee Remitted	Rs.26000/- Rs.195000/-
5	1.13.Capital Investment	200 LAKHS

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

1. This consent is granted based on the application, affidavit and particulars submitted by the applicant and subject to the power of the Board to review and make variation in or revoke the conditions as the Board deems fit.

2. The Consent unless withdrawn earlier and subject to condition no.1 shall be valid up to 31/12/2023. For renewal of consent, online application in the prescribed form shall be submitted to the Board on or before 30/09/2023 along with copy of this consent. Late applications will be accepted only with a fine/late fee as per norms.

3. The sewage treatment plant shall be operational at all times.

4. The treated sewage shall be disposed through dispersion/soak pit arrangements.

5. The unit shall fully comply with the provisions of the Water (Prevention & Control of Pollution), Act, 1974; the Air (Prevention & Control of Pollution) Act, 1981 ; the Environment (Protection) Act, 1986, the Environment (Protection) Rules, 1986; the Solid Waste Management Rules, 2016; the E-Waste (Management) Rules, 2016; the Plastic Waste Management Rules, 2016, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; the Construction and Demolition Waste Management Rules, 2016 and the Batteries (Management and Handling) Rules, 2001 as amended till date and as applicable to the unit.

6. Condition no. II of this consent is deleted.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

DATE :26/09/2018

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER, District Office,
Pathanamthitta



To

CHERIAN JOHN
KOTTAYIL
PERUMPETTY
PATHANAMTHITTA
PIN-689592

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent

MACFAST BOYS HOSTEL

1	24M
2	23M
3	26M
4	14M
5	15M
6	25M
7	30M
8	18M
9	25M
10	70M
11	65M
12	55M
13	60M

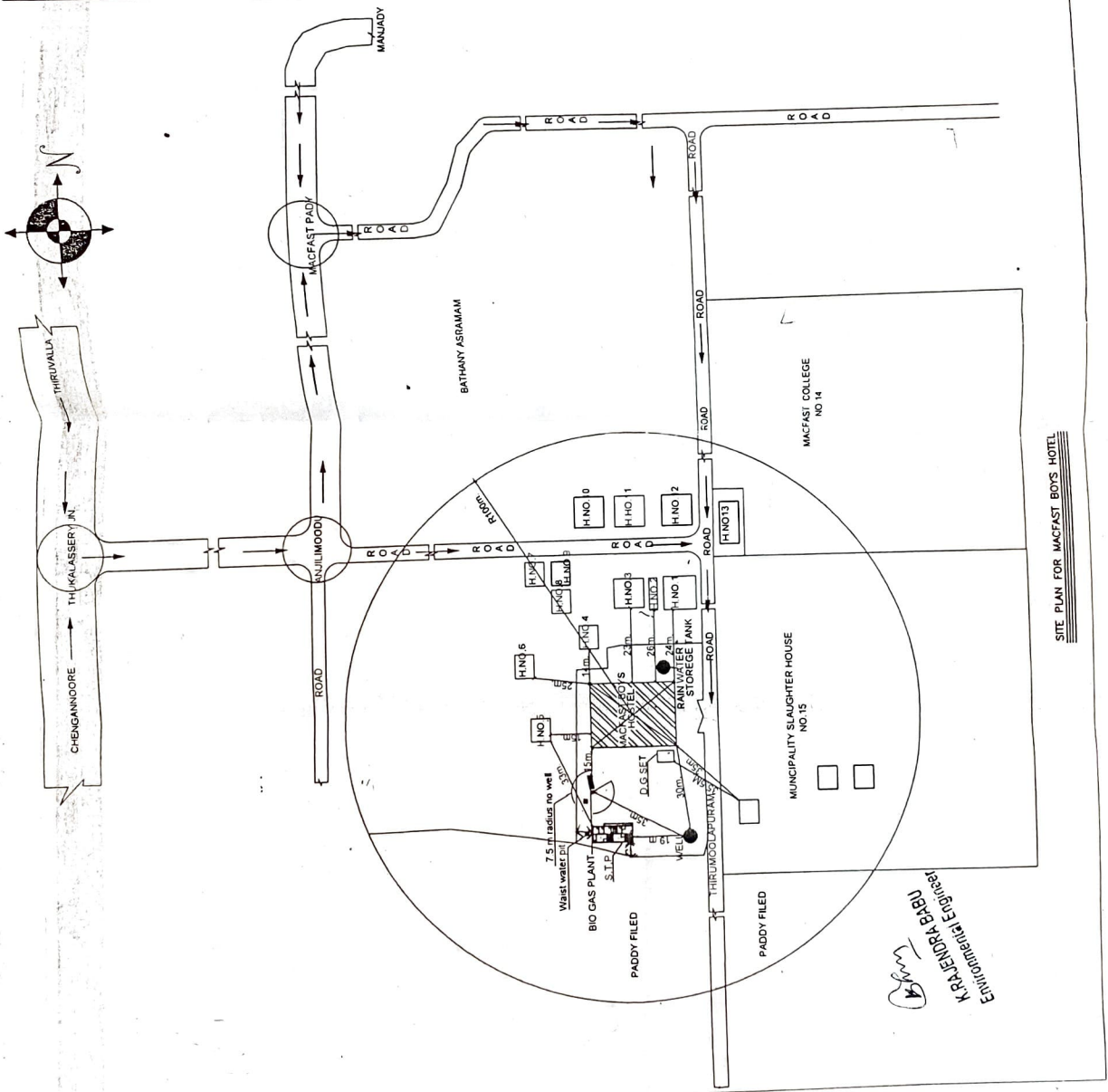
S.S.P TANK DETAILS

Sl.No	Description	Dimension in (m)		
		Length	Width	Height
01	Hopper bottom millling	2.4	2.0	3.0
02	Mixer tank	4.0	2.5	2.6
03	Evaporation tank	2.4	2.5	2.6
04	Primary Milling tank	1.5	2.5	2.6
05	Oil Crude tank	1.5	2.5	2.6
06	Riser Feed Sluice	1.5	2.5	2.6
07	Chlorine contact chamber	1.5	2.5	2.6
08	Heated water tank	1.5	2.5	2.6
09	Hot water tank	1.5	2.5	2.6
10	Electric generator tank	4.4	2.5	2.6
11	Sludge tank	1.0	1.0	0.6
12	Box screen chamber 1	1.0	1.0	0.6
13	Box screen chamber 2	1.0	1.0	0.6

M/S MACFAST BOYS HOTEL
THIRUVALLA 689101
PATHANAMTHITTA

TITLE
SITE PLAN FOR MACFAST BOYS HOSTEL

RESURVEY NO 8296-1 8296-1-1 8296-2
KUTTAPOZZHA VILLAGE



K.PAJENDRA BABU
Environmental Engineer

SITE PLAN FOR MACFAST BOYS HOSTEL