

**PROPOSAL
TO
PALLAVI TECHNO-FOODS PVT. LTD.
FOR
20 KLD ETP**

marcuras

SUBMITTED BY
Marcuras Water Treatment (I) Pvt. Ltd.
Plot No. W-194B, 'S' Block, MIDC, Bhosari,
Pune, Maharashtra, India
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1.0 DESIGN PHILOSOPHY

Design Capacity:

Effluent treatment Plant:

Sr. No.	Description	Capacity
1	Total volume of effluent to be treated	20 m ³ / day
3	Operation hours	20 hours

Raw Effluent Analysis:

We have considered the following raw sewage characteristics for design:

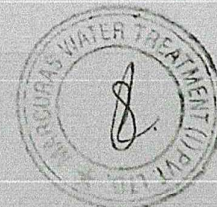
Sr. No	Parameter	Unit	Inlet Water Quality
1.	pH	-	4.0-7.0
2.	COD	Mg/l	7000-10000
3.	BOD	Mg/l	3000-5000
4.	TDS	Mg/l	5000-7000
5.	TSS	Mg/l	1000-1000
6.	Oil and grease	Mg/l	50

Treated Effluent analysis (After ACF Unit)

Sr. no	Parameter	Unit	Treated water outlet quality
1.	pH	-	7.0 – 7.5
2.	COD	Mg/l	<200
3.	BOD	Mg/l	50
4.	TDS	Mg/l	200
5.	TSS	Mg/l	<5
6.	Oil and grease	Mg/l	<10

Note: The treated sewage quality is subject to the following conditions.

- The treated water quality and quantity may vary if the incoming feed sewage analysis varies.
- The raw sewage quality being not worse than the quality indicated in the offer
- The plant must be operated and maintained strictly in accordance with our operation and maintenance manual
- Our scope does not cover reduction of any other parameter except the parameters mentioned above.
- Aeration blower must be operated for 24 hours.



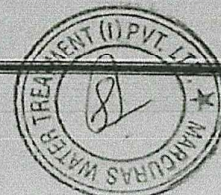
Reaction Tank	
Quantity	01 no.
Tank MOC	RCC - By client
Size	0.8 m X 0.8 m X 2.8 m SWD + 0.5 FB.
Volume	1.8 m ³
Agitator for flash mixture	01 no.
MOC of impeller	SS-304
Make	Marcuras
Accessories	Agitator, Shaft, peddle
Alum Dosing System	
Quantity	01 no.
Pump MOC	PP
Pump Make	E-dose/ Equivalent
Pump Capacity	0-6 LPH
Tank MOC	LDPE
Capacity	100 Ltr.
Agitator	1 no.
FeCl₃ Dosing System	
Quantity	01 no.
Pump MOC	PP
Pump Make	E-dose/ Equivalent
Pump Capacity	0-6 LPH
Tank MOC	LDPE
Capacity	100 Ltr.
Agitator	1 no.
Poly Dosing System	
Quantity	01 no.
Pump MOC	PP
Pump Make	E-dose/ Equivalent
Pump Capacity	0-6 LPH
Tank MOC	LDPE
Capacity	100 Ltr.
Agitator	1 no.
Primary Sedimentation Tank	
Quantity	1 no.
Tank MOC	RCC - By client
Tank volume	3.9 m ³
Size	1.3 X 1.0 X 3.0 m + 0.5 m FB
Accessories	Tube media- By Marcuras

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MOC	PP
Size	55x55 mm ² , 750 mm inclined height
Sludge Recirculation Pump	
Quantity	1 No.
Capacity	1.0 m ³ /hr
Head	20 mwc
MOC	CI
Make	KBL / Equivalent
Type	Non clog, self priming
Filter Feed Tank	
Quantity	1 no.
Tank MOC	RCC- by client
Tank volume considering SWD	2.5 M ³
Size	1.0 X 1.0 X 2.5 m + 0.3 m FB
Filter Feed Pump	
Quantity	2 no. (1w+1s)
Capacity	1.0 m ³ /hr @ 30 m Head
MOC	CI
Type	Horizontal, monoblock
Make	KBL / Equivalent
Pressure Sand Filter	
Quantity	1 No.
Type	Down flow
Flow rate	1.0 m ³ /hr
Size of vessel	13"X54"
MPV	25 NB
Filtration Media	Sand & Supporting pebbles
MOC	FRP
Make	Pentair
Valves & Piping	UPVC- 25 NB
Activated Carbon Filter (ACF)	
Quantity	1 Set
Model	Down flow
Flow rate	1.0 m ³ /hr
Size of vessel	13"X54"
BFV	25 NB
Filtration Media	Activated Carbon, Sand & Supporting pebbles
MOC	FRP

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Submerged water piping	UPVC/CI/MSEP
Valves	as required
Miscellaneous	
Hardware	1 set, nut bolts, gaskets
Nut bolts in overall plant	1 set, MOC-MS

NOTE:-

- All process tanks will be in RCC. Pumps and blower will install on common RCC plinth make on ground.
- Interconnecting piping and fitting from treated water storage tank to client receiver will be in client scope.
- Equipment room ventilation and lighting will be in client scope.



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4.0 Commercial terms and Conditions

	Amount Rs.
Basic Price for 20 KLD ETP as per above scope of supply	Rs. 10,90,000/-
Packaging and forwarding	Extra @ actual to your account
Price of plant	Ex-Our works @ Bhosari, Pune.
Freight	Extra @ actual to your account
Local Body Tax/ Entry Tax	To be borne by you at actual, wherever applicable
Transit Insurance	Extra @ actual to your account
Taxes and Duties	
	Sales Tax GST 18% Extra
Supervision of E & C charges	Extra @ actual to your account depending upon site location and conditions To and Fro Travel charges, lodging & boarding, local conveyance to be reimbursed by customer at actuals
Payment Terms	50% against advanced payment 40% against prior to dispatch 10% against after commissioning
Delivery Schedule	8 to 10 weeks from the date of receipt of requisite advance and order acceptance from Marcuras.
Warranty	18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier against any manufacturing defect in the plant or spares supplied by Marcuras
Jurisdiction	Any legal dispute arising out of resultant contract shall be subject to the jurisdiction of Pune Courts in case the same is not settled mutually.
Validity	30 days from the date of the offer

