

**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  
Mob: 9764449721  
Email: proposals2@marcuras.com





QUOTATION NO: MWTIPL/2022-23/107481/SAJ/R-1

DATE: 25.07.2022

To,  
Pallavi Techno-foods Pvt. Ltd.

Dear Sir,

Subject : Revised Offer for Supply of 20 KLD ETP

Thank you for considering us for your requirement above mentioned subject.

With respect to the data given by you, we are herewith giving you our offer as per our standard for the same.

Please find enclosed herewith our offer comprising of the following for your perusal and necessary action:

1. Design Basis
2. Technical Specifications & Scope of supply
3. Schedule of Exclusions
4. Price and Other Terms & Conditions

Hope you find the same in order and look forward to the valued order at an early date.

Thanking you,

For Marcuras Water Treatment (India) Pvt. Ltd.

Mrs. Snehal Jadhav.



## 1.0 DESIGN PHILOSOPHY

Design Capacity:

Effluent treatment Plant:

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

Raw Effluent Analysis:

We have considered the following raw sewage characteristics for design:

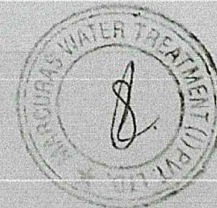
Sr. No	Parameter	Unit	Inlet Water Quality
1.	pH	-	4.0-7.0
2.	COD	Mg/l	7000-10000
3.	BOD	Mg/l	3000-5000
4.	TDS	Mg/l	5000-7000
5.	TSS	Mg/l	1000-1000
6.	Oil and grease	Mg/l	50

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.



## 6.0 Scope of supply

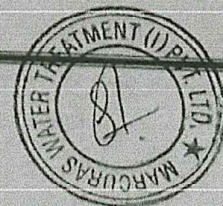
<b>Bar Screen Chamber</b>	
Quantity	1 no.
MOC	RCC – By client
Tank volume	1.0 m <sup>3</sup>
Tank size	0.6X0.6X2.5 m + 0.5 m FB
Type of Tank	Underground Tank
<b>Coarse Bar Screen</b>	
Quantity	1 no.
TYPE	5 mm spacing
MOC	SS-304
Make	Marcuras
<b>O &amp; G Chamber</b>	
Quantity	1 no.
MOC	RCC – By client
Tank volume	1.4 M <sup>3</sup>
Tank size	1.0X0.6X2.4 m + 0.5 m FB
Type of Tank	Underground Tank
<b>O &amp; G removal mechanism</b>	
Quantity	1 no.
Type	Belt type
MOC	PP belt with MS structure
Power	0.75 kw
Make	Premier/universal/potential
<b>Equalization Tank</b>	
Quantity	1 no.
MOC	RCC – By client
Tank volume considering SWD	12 M <sup>3</sup>
Tank size	2.0 X 2.0 X 3.0 m + 0.5 m FB
Type of Tank	Underground
<b>Effluent transfer pump</b>	
Quantity	02 no.(1W+1S)
Capacity	1.0 m <sup>3</sup> /hr @ 20 m head
MOC	CI
Type	Self-priming
Make	KBL / Equivalent



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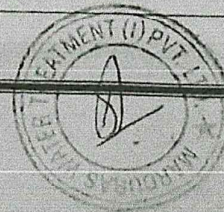
<b>Reaction Tank</b>	
Quantity	01 no.
Tank MOC	RCC - By client
Size	0.8 m X 0.8 m X 2.8 m SWD + 0.5 FB.
Volume	1.8 m <sup>3</sup>
Agitator for flash mixture	01 no.
MOC of impeller	SS-304
Make	Marcuras
Accessories	Agitator, Shaft, peddle
<b>Alum Dosing System</b>	
Quantity	01 no.
Pump MOC	PP
Pump Make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

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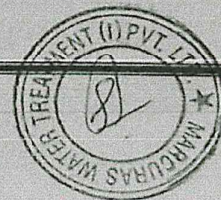


<b>Tube settler media</b>	
Quantity	1 Lot
MOC	PP
Size	55x55 mm <sup>2</sup> , 750 mm inclined height
<b>Sludge Recirculation Pump</b>	
Quantity	1 no.
Capacity	1.0 m <sup>3</sup> /hr
Head	15 mwc
MOC	CI
Make	KBL / Equivalent
Type	Non clog, self-priming
<b>Aeration Tank</b>	
Quantity	1 no.
Tank MOC	<b>RCC- by client</b>
Tank volume considering SWD	50.0 M <sup>3</sup>
Size	4.7 X 3.5 X 3.0 m + 0.5 m FB
<b>Air Grid at Aeration Tank</b>	
Quantity	1 Lot
MOC	UPVC
<b>Air Blower</b>	
Quantity	2 no. (1w+1s)
Flow	250 m <sup>3</sup> /hr
Head	4500 mmwc
Type	Twin lobe, root blower
MOC	Cast Iron
Make of blower	Akash / Everest / Equivalent.
Motor Speed	1900 rpm
Motor MOC	CI
Motor Make	CG / BB / Equivalent
<b>Secondary Sedimentation Tank</b>	
Quantity	1 no.
Tank MOC	<b>RCC- by client</b>
Tank volume considering SWD	5.0 m <sup>3</sup>
Size	1.8 X 1.0 X 2.8 m + 0.5 m FB
Accessories	Tube Settling media
Quantity	1 Lot
<b>Tube settler media</b>	
Quantity	1 Lot

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



Make	Pentair
Valves & Piping	UPVC- 25 NB
<b>Treated Water Tank</b>	
Quantity	1 no.
MOC	RCC- Client scope
Tank volume	12 M3
Tank size	2.0 X 2.0 X 3.0 m + 0.5 m FB
Type of Tank	Underground/ Above ground
<b>Sludge Drying Bed</b>	
Quantity	Client scope
Size	2 Nos.
MOC	2.0 X 2.0 X 1.5 m Each
	Brick
<b>Instruments</b>	
Pressure Gauges	1 lot, Make - wari / Equivalent
Level Switches	1 Lot, make-Aster/pune tectrol
Water transmitters	1 lot, make – Forbes marshall /Emerson/Equiv
Type	Electromagnetic
Level Transmitter	1 lot
Make	Pune tectrol/Equiv
Type	Ultrasonic type/floaty type
Pressure transmitter	1 no.
Make	Forbes marshall/Emerson/Equiv
Air Rotameter	1 lot
Make	Eureka/Equiv
<b>Electrical Panel and fittings</b>	
Type	Skid Mounted
	Non-Compartmental type
Panel Box details	As per requirement documents
Contactors	1Set
Switchgear makes	L&T / Equivalent
MCCB / MPCB	L&T / Equivalent
Push Button	Technik / Equivalent
Control & Power Cabling	1 set, Flexible Type, Polycab / KEI / eqv.
<b>Interconnecting piping &amp; valves</b>	
Quantity	One lot
Type	UPVC- Size as applicable. Interconnecting piping within the battery limits
Air blower header piping	GI



Submerged water piping	UPVC/CI/MSEP
Valves	as required
<b>Miscellaneous</b>	
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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### Civil Work excluded

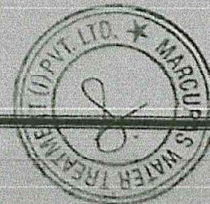
We shall provide the electromechanical Equipments for this ETP. Client to provide foundations, equalization and aeration tank civil works and clear working space for installation of STP as per our drawings. We will furnish all relevant general arrangement drawings and hydraulic level diagram during detailed engineering stage. Detailed structural drawing based on site soil condition will be in Client's scope.

Miscellaneous civil works like foundations for all equipments (pumps, blowers, etc), walkways, and stairways compound wall will be in customer's scope.

### 3.0 SCHEDULE OF EXCLUSIONS

Our supply will be restricted to the items included in the technical specification. The list of exclusions from our supply is as follows.

- ↓ Site clearance and handing over to us.
- ↓ In coming power cable to the electrical panel.
- ↓ All civil works such as storage tanks, equipments foundations, panel room, walkway, plant boundary, tank overflow and drain etc.
- ↓ Piping up to the inlet of treatment system and outlet of treatment system and piping supports within the plant area.
- ↓ Unloading and safe storage of materials at site & site security.
- ↓ Testing facility for testing raw and treated water and effluent.
- ↓ Consumables and chemicals during commissioning of the plant.
- ↓ All supplies and services not specifically mentioned as forming part of our offer.
- ↓ Power, water and air during erection & commissioning
- ↓ Drying, Storage and disposal of sludge.
- ↓ Yard Lighting / Storage yard
- ↓ Personnel safety equipment's.
- ↓ **Terminations points:**
- ↓ **For STP**
  - Effluent : At the inlet of Bar screen
  - ETP treated water : Outlet of ACF unit
  - Power supply : At the inlet of main panel.



#### 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



### 3.0 General terms and conditions

- 1 Buyer to specify the Billing and consignee address details in the Purchase Order.
- 2 Buyer to specify the Taxes and Duties terms of your company i.e. Exempted against from "H" for VAT and CTL/ARE/CT3 or NIL if not applicable for the excise duty. You will submit necessary documents in lieu of above to us along with the order.
- 3 Additional taxes and duties or change in tariff, if applicable during the execution of project due to the local conditions or governing laws to be borne by you.
- 4 Consequential damage charges will not be applicable on any contract awarded to us. Late Delivery charges will be applicable only if negotiated before order finalization and mentioned in PO. LD will not be applicable if buyer fails to adhere to payment schedule.
- 5 The price of the plant offered excludes cost of packaging. In absence of specific instructions of packing requirements of material, we follow our standard.
- 6 Buyer to arrange or nominate transporter. Approval for freight charges must be given by buyer in writing. Incidental charges if any to be borne by client.
- 7 Goods Receipt Note should be sent by you within 24 hrs after receipt of material.
- 8 Any damage to the goods dispatched by or on behalf of us must be informed to us in writing within 24 hrs of receipt of material at site. Cost of Claiming and recovery of transit insurance in case of transit damage will be to your account. You will coordinate the entire activity in such an event.
- 9 Defective or damaged material if any must be transported by you at your cost to the address informed by us for repairs or replacement as the case may be. Manufacturer's decision about the warranty replacement will be final and binding on users.
- 10 Loading of material will be done by us at our works, however safe unloading and safe storage of material at site is buyer's responsibility.
- 11 Equipment supplied must be stored in a closed shed or room, protected from sunlight, rains, dust and against theft etc. Proper access to material and approach road to be provided by client for shifting, installation.
- 12 If buyer fails to take delivery of the ordered goods, interest @ 2% will be applicable for the delay period on material ordered by us. Order once placed can not be cancelled. In case of cancellation, buyer will pay us the cost incurred for the said project. Warehousing charges will be extra at actual. Delay in project must be informed to us well in time to avoid such charges.
- 13 If buyer fails to take delivery of the ordered equipment within 30 days from the readiness, we have the right to divert the material or liquidate the same and the losses thus incurred will be payable by buyer.
- 14 Written communication from you is required for starting the erection and commissioning of the plant. Site must be made ready for the same within 30 days from the date of supply. If installation or commissioning call is delayed beyond warranty period, it would attract additional charges for supervision and/or installation.
- 15 Site preparation format provided by the Marcuras should be duly filled by the client and sent to the Marcuras. This must also be supported by photographs by client.
- 16 After confirmation of the site readiness from the client Marcuras will confirm the schedule and send the engineer for E & C activities within 8 days.
- 17 If in spite of confirmation, site is not found ready during visit of Marcuras engineer then his next visit will be charged as extra @ Rs. 3500 Per day + To and Fro charges.
- 18 User will ensure safety of our personnel at site. This includes provision of safety gear etc.
- 19 User to allocate responsible person from their side to oversee the E&C process who will be trained by us for operation and maintenance as well. User to specify the department / person who would certify our daily work and commissioning and handing over reports. Reports as and when prepared by our representative must be signed on daily basis by your representative, failing which we assume the same to be accepted by you.
- 20 Any complaint regarding the plant i.e. electrical or mechanical is to be informed to us by filling the complaint form issued by the Marcuras. Reasonable time to be provided for us to attend the problem in cost effective manner.
- 21 Client must keep updated log book of plant recording daily readings and maintenance records.
- 22 Liability:-Whilst every reasonable care is taken by supplier to ensure that the advice given to client is correct, Marcuras shall not be liable or responsible for any loss, damage or claim of whatsoever nature including pure economic loss and any consequential loss howsoever arising, occasioned by the implementation of such advice.
- 23 Force Majeure: In case of Marcuras being rendered unable by force majeure to perform any obligation required to be performed by them under the contract, the obligation of Marcuras shall be suspended for the period during which such cause lasts. The term "Force Majeure" as employed herein shall mean acts of God, war, civil riots, fire and flood directly affecting the performance of the contract.

