



G-22, Old M.I.D.C., Satara-415004  
 Ph.: 02162-244600mob.: 9422603512  
 Email: metallicawatereng@gmail.com  
 Website : www.metallicawater.com

TAX INVOICE					
<b>M/S. ARVIND GAVALI COLLEGE OF ENGINEERING, A/P PANMALEWADI, TAL: &amp; DIST: SATARA.</b>		INVOICE NO. 1032		DATE : 08/09/2023	
		CHALAN NO. 132		DATE : 08/09/2023	
		P.O NO. VERBAL			
		GST NO. -----			
SR.NO	PARTICULARS	HSN/SAC CODE	QTY	RATE	AMOUNT
1	1000 LPH AUTOMATIC WATER FILTRATION PLANT	8421	1 SET	57500/-	57500/-
<b>SUB TOTAL</b>					<b>57500/-</b>
CGST 9%					5175/-
SGST 9%					5175/-
<b>TOTAL</b>					<b>67850/-</b>
<b>Tax Amount subject to Reverse Charges</b>					
For METALLICA WATER ENGINEERING					
Authorized Signatory					
<b>SUBJECT TO SATARA JURISDICTION</b> <b>This is a Computer Generated Invoice</b>					

[Signature]

12/9/23



**SAMARTH EDUCATIONAL TRUST**  
**ARVIND GAVALI COLLEGE OF ENGINEERING**

NAAC Accredited  
Approved by AICTE, New Delhi, Recognised by Govt. Of Maha. DTE Mumbai & Affiliated to  
Dr. Babasaheb Ambedkar Technological University (BATU), Lonere.  
Website: - www.agce.edu.in

\* Address : Al Panmatewad, Post - Satara,  
Tal & Dist - Satara - 415 015 (Maharashtra)  
\* Phone : 02162 - 261122 , 200100  
\* e-mail : agcenggsatara@gmail.com  
\* Institute Code : Engg. DTE EN-6545  
\* Poly Code : DTE DN-6545  
\* Poly. MSBTE-1617

Ref No.: AGCE/AUGUST - 2023/ No - 296

Date : 31 AUG 2023

**PURCHASE ORDER**

To,

METALLICA Water Engineering SATARA.

Kind Attn - Mr. Ashtosh Joshi - METALLICA Water Engineering SATARA.

Subject: - Purchase order of Water Purifier.

Dear Sir,

We are Pleased to inform you that yours quotations No.MWE/125/23 for central Store finalized by purchase committee on following conditions.

Sr.No	Particulars	Quantity	Rate	Amount
1	R.O Plant 1000 LPH (with auto MPV for auto back wash & renis & auto on / off of system) <ul style="list-style-type: none"><li>1 year AMC (Per Month filter Cleaning ,After 3 month 0.5 Micron Filter changing &amp; After 1 Year 0.2 Micron filter changing</li></ul>	01 Set	60000/-	60000/-
			Discount	2500/-
			GST 18%	10350/-
			<b>Net Payment</b>	<b>67850/-</b>

Terms & Conditions :- 1) Quality of Dispatched should exactly match with the Quotation provided. 2) All Legal matters subject to Satara Jurisdiction.

Store Incharge

Registrar

Principal

Secretary



Add: G-22, Old MIDC, Satara - 4  
Ph: +91 - 2162 - 244600  
Web: www.metallicawater.com  
Email: sales@metallicawater.com

Ref no: - MWE /125/23

27/07/2023.

To,

THE PRINCIPAL  
ARVIND GAVALI COLLEGE OF ENGINEERING  
PANMALEWADI, VARYE, TAL: & DIST: SATARA.

**SUB: YOU'RE REQUIREMENT OF FILTRATION PLANT 1000 LPH FOR DRINKING PURPOSE.**

Dear Sir

We refer to our telephonic discussion with you regarding your requirement of **R.O PLANT 1000 LPH.**

The following enclosures form an integral part of our offer.

- Annexure I : Design philosophy
- Annexure II : Technical Details
- Annexure III : Schedule of Exclusion
- Annexure IV : Price & Commercial Terms.

We trust you will find above in accordance to your requirement. In case you wish to have any further confirmation /clarification, please feel free to contact us.

Thanking you and assuring you the best of services at all times, we remain.

Yours faithfully,  
For **Metallica Water Engineering**

[Ashutosh Joshi]

*Avij HOD*

*VAH*

*Temp of water  
Hard - 150-250, Fair - 250-300  
Soft - 200-250*

*pH of water -> 6.5 - 8.5  
Hardness of water - Below 75 - soft water  
76 - 150 - moderate  
151 - 300 - Hard water*

*Recommended  
All design is for Hard  
water. So it will give  
up better result.*

*24/8/2023*

## Annexure I

### Design Philosophy

Flow : 1000 LPH

#### DESIGN BASIS.

The plant is designed to treat the required quantity and quality of water based on the following raw water quality assuming that the supply is from the well water supply source.

#### Raw water Analysis considered for Design.

##### Water Characteristics

P.H	7.0 TO 7.5
HARDNESS	200 PPM.
TDS	350 PPM.
BACTERIA	NOT CHECK
IRON	NOT CHECK
TURBIDITY	NOT CHECK
TSS	NOT CHECK

Max Temperature	30 DEG.C
Free Chlorine, Oil,	Nil.
Iron, Manganese.Etc.	Nil.

Turbidity.

Less than 10 ntu.

## Annexure II

### **WATER TREATMENT PLANT SCHEME**

As per your requirement, we are design the following Water treatment Plant scheme with technical data for you to give the required treated water quality & quantity for the end use.

#### **1. PRESSURE SAND FILTER**

		<b>M.W.E.</b>
M.O.C		<b>FRP</b>
Service flow	m <sup>3</sup> /hr	2.0
Max. Working pressure	kg/cm <sup>2</sup>	3.5
Min. Working pressure	kg/cm <sup>2</sup>	1.5
Under Bed Material	Pebbles Sand,	
Pipe Size	25 NB	
Vessel volume	100 liters.	
Sand qty	75 k.g	

#### **Specification & Scope of Supply:**

- One : 1354 size FRP Pressure Star lite make
- One : **Set of PVC frontal pipe work complete with Auto Multi port Valve.**
- One : Initial Charge of Under Bed Material Activated carbon & filter sand media.
- One : Pressure Gauges.

#### **2. MICRON FILTRATION SYSTEM: - 2 nos**

This unit consists of PP Vessel having 5 Micron cartridge filter system. Which prevent the turbidity up to 5 Micron & 0.2 MICRON



### 3. UV Sterilization System 1 no.

To eliminate microbial count if any from the water.

- SS 316 Shell, electro polished housing
- Shell will have clamps for easy dismantling and cleaning.
- Quartz Jacket, UV Lamps with electrical control unit, indicators,
- There shall be 1 UV lamps of 10" size each. The lamp will be of 11 watts.
- The UV lamps wavelength shall be 2537 angstrom units. Ultraviolet Light Dosage shall be greater than 30,000 microwatts secs per sq.cm. The life of the lamp shall be 5000 hours.
- The complete disinfection efficiency shall be 99.9%.

### 4. TECHNICAL DATA M.W.E. - .

1)	Model	MWE - 1000
2)	Raw water pump	ALGO 2000 LPH @ 20 meter head make.
3)	Panel	Designed to ensure fail safe operation will provided with high low pressure switches. Remote monitoring panel is also available with on demand Make ASTER
4)	Pipeline	Astm Astral /Finolex
5)	Plant Skid	s.s 304 material for rust free operation.
6)	Max. Flow of Pure water	1200 LPH.
7)	Level switch	2 nos for raw water & treated water

### Annexure III

#### Schedule of Exclusion

**(Equipments & Services to be provided by purchaser)**

All civil work including design and construction of foundations, drains, drains sumps, supports of all types platforms, drain channels, plant building and mass concreting of units (if required), (We shall only provide load data)

All electrical works like power supply, cables, cabling cable trays, underground earthing, motor/local control centers, starter's push button station and plant lighting including materials

Unloading, storage and security of equipment at site. Skilled, unskilled labor, supervisory staff, tools and tackles for erection and commissioning of the plant. We shall provide supervision of erection & commissioning of the plant by our engineer on the terms and conditions mentioned in our offer.

Laboratory facilities including necessary instruments. Chemicals and staff.  
Lubricants, oils and grease including the first charges.

Erection & commissioning

Mechanical erection & commissioning of the equipment.  
Final commissioning i.e. output trial of the R.O. plant will be done by us.

### Annexure IV

#### Price, Commercial Terms & Conditions

Our prices for Design, Engineering & supply of the filtration units offered by us as per Scope of supply is

SR. NO	MATERIAL	QTY	PRICE
1)	1000 LPH FILTRATION PLANT WITH AUTO ON/OFF & AUTO BACKWASH & RENIS	1 SET	60000/-

#### PLANT OPERATING MATERIAL COST.

SR.NO	MATERIAL	QTY	PRICE
1)	20" MICRON FILTER 5 MICRON SIZE	2 NOS	1500/-
2)	0.2 MICRON FILTER 20"	1 NOS	2000/-

All plumbing work in your scope

Electrical supply to unit in your scope

Raw water tank 1000 liters & treated water tank 1000 liters required for system

will be in your scope

Safety shade require for system in your scope

**TRANSPORTATION = AT OUR SCOPE**

Payment Term : 50% ADVANCE & 40 % WITH 100% TAXES AGAINST PERFORMA INVOICE &  
10% AFTER COMPLITE THE WORK

GST : 18% EXTRA ON ABOVE PRICE

Delivery Period : 1 weeks. After receive confirm p.o & Payment.

Validity : Our offer is valid for a period of 45 days from date of  
This offer.

Guarantee : The units supplied by us are guaranteed against  
manufacturing Defects for a period of  
12 months from the date of Invoice.

Guarantee only for electrical, electronics & mechanical parts. Not for filters,  
micron filters they are consumable

*Ref kindly take all details of working pattern  
Dr. Manuendra Sir  
Jodhpur  
Subin Choudhary*