

 Recognized by: Dental Council of India
 vide Govt. Gazette Notification No.
 V-12017/49/2001-DE dated 25/06/2008

Awarded As The Best Dental College

Virbhadra Road, Post Office : Pashulok Rishikesh-249 203 (Uttarakhand)

Mobile: +91-9837087627 E-mail: sdchquery@gmail.com Web: www.seemadentalcollege.org

Ref.: SDCH/WO/2022-23/01

Date: 23 January 2023

Er Pravesh Gupta (Project Director)
Toza India Pvt Enterprise,
229 - Neelkanth Arcade, 43 Rajpur
Road, Dehradun -Uttarakhand,
www.tozaindia.com; info@tozaindia.com,

(M) - 9058002121, 9758828989

Subject: Work Order for Rainwater Harvesting

Dear Mr Gupta,

We are pleased to place the Rain Water Harvesting system order at Seema Dental College & Hospital, Rishikesh.

We have received your quotation of Rs. 6,37,193/- (inclusive of GST) for the same. TDS will be deducted from the above-mentioned amount as per Income Tax Act.

50% payment on total cost i.e., Rs 3,18,600/- will be released along with this work order, the next 30% i.e., Rs 1,91,200/- will be released after the complete material is reached at the site and the remaining amount will be released after successful completion of the project.

We will need a proper invoice bill soon after paying the advance along with a complete project drawing.

The project will be serviced/maintained by you for one year from the date of commissioning and in case of any expenses incurred on the smooth running of the project, the same will be borne by you.

For Seema Dental College & Hospital,

Vivek Sang

### **Toza India Pvt Enterprise**

GSTIN: - 05AIDPG0568N1Z7

भारतं विश्वगुरुः सदा हरितः भव

### Office Address:-

229-Neelkanth Arcade,

43-Rajpur Road Dehradun-Uttarakhand,

(M) 9758828989; 9058002121 Email: info@TozaIndia.com Web: www.TozaIndia.com

\_\_\_\_\_\_\_

### Billing Details for Rainwater Harvesting - Rishikesh

Seema dental College and Hospital Virbhadra Road, Post Office: Pashulok Rishikesh – Uttarakhand - 249203 GST – 05AAAAD1330P2ZY (PH) 9837087627

Invoice No   RST/03/2023/00056	Invoice Date 14/03/2023	l	Payment Terms Advance + After Bill	l	<b>Due Date</b> 20/03/2023
Description	Rates	CGST@ 9%	SGST @ 9%	Qty	Total (Rs)
1 - DebriSep Screen Chamber	Included				
2 - XitaPure Precast First flush	39999/-	3600/-	3600/-	01	47199/-
3 - Precast Desalting unit	99999/-	9000/-	9000/-	01	117999/-
4 - RWH BioCompaQ SoilSox Syatem	99999/-	9000/-	9000/-	03	353997/-
5 – Orta Purifix Borewell Filter	99999/-	9000/-	9000/-	01	117999/-
6 – Drain line PVC 4 inch Up to 50 f	Included			50 F	

Total Cost - Rs 637194/-

Cost Of Project = Rs- 539994/-

Total GST Value - = Rs-97200/-(CGST - 48600/- + SGST- 48600/- ]

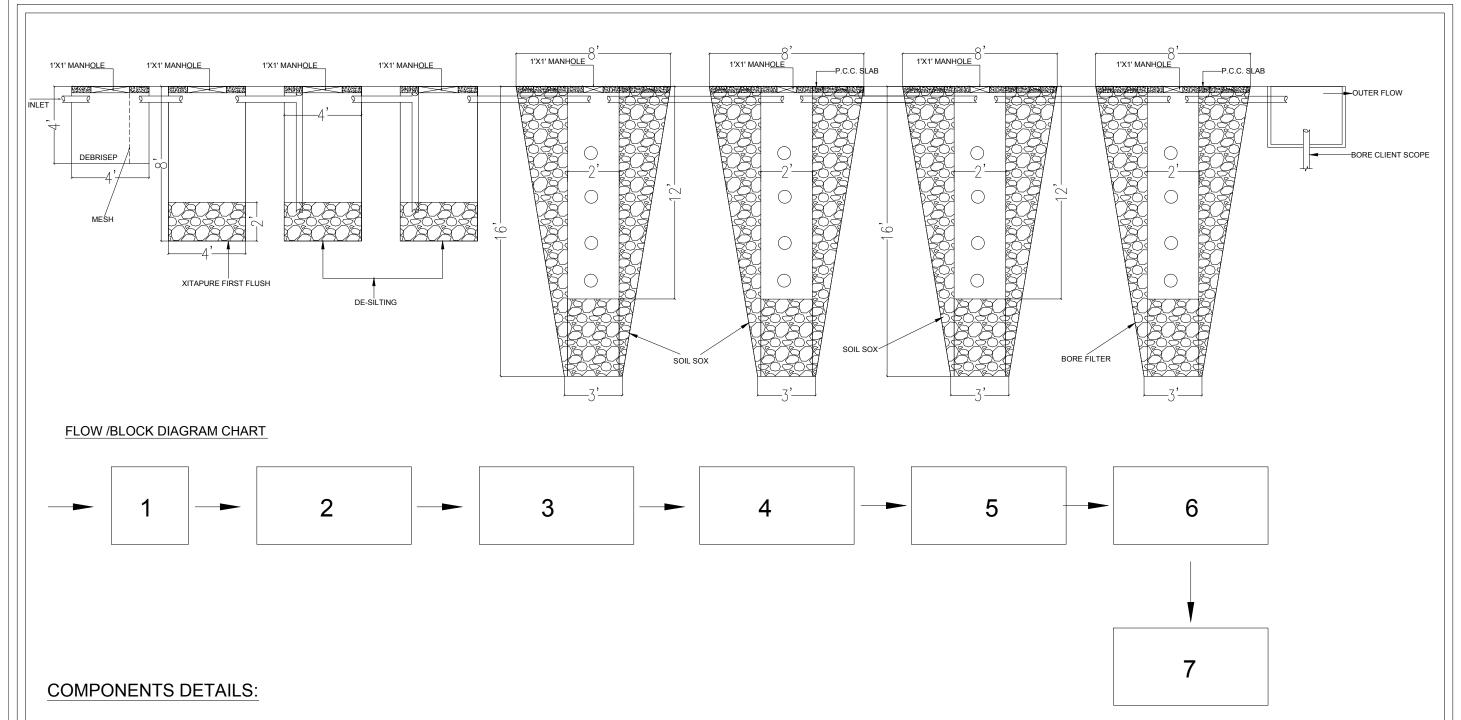
Total bill value (Rate + GST) = Rs- 637194/-

Advance Paid = Rs- 312228/- + 186200/- = Total - 498428/

Balance to be paid = Rs -138766/-

For Toza India Pvt Enterprise

Er P k Gupta



- 1. R.C.C. PRECAST DEBRISEP CHAMBER (SIZE 04 FEET DIA, LENGTH 04 FEET.)
- 2. R.C.C. PRECAST XITAPURE FIRST FLUSH CHAMBER (SIZE 04 FEET DIA, LENGTH 08 FEET.)
- 3. R.C.C. PRECAST DE-SILTING UNIT (SIZE 04 FEET DIA, LENGTH 08 FEET, TWO COMPARTMENTS.)
- 4. FIRST SOILSOX PRECAST RCC PIT FOR PASSIVE RECHARGE (SIZE 08 FEET DIA, 16 FEET.)
- 5. SECOND SOILSOX PRECAST RCC PIT FOR PASSIVE RECHARGE (SIZE 08 FEET DIA, 16 FEET.)
- 6. THIRD SOILSOX PRECAST RCC PIT FOR PASSIVE RECHARGE (SIZE 08 FEET DIA, 16 FEET.)
- 7. FILTER FOR BORE WELL (8 FEET X 16 FEET)

#### PROJECT TITLE:-

RAINWATER HARVESTING SYSTEM AT SEEMA DENTAL COLLEGE, RISHIKESH, UTTRAKHAND

ı	DATE	REV. NO	DETAILS
	06-04-2023	R0	COMPANY NAME
	DRWAN BY	ANIL	TOZA INDIA DEHRADUN
	EMAIL ID. er.pkgupta1967	@gmai.com	WWW.TOZAINDIA.COM 9058002121,9758828989



# Seema Dental College and Hospital

(First Post Graduate Dental College of The State)

- Recognized by: Dental Council of India
   vide Govt. Gazette Notification No.
   V-1201/48/2001-DE dated 25/06/2008
- Affiliated to: HNB Garhwal University, Srinagar Garhwal

Virbhadra Road, Post Office: Pashulok Rishikesh-249 203 (Uttarakhand) Phones: 0135-2453465, 2453725, 245372

Fax: 91-135-2453743

E-mail: sdchquery@rediffmail.com Web: www.seemadentalcollege.org



#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Heron India Pvt Ltd, has successfully installed & commissioned A. O Smith Heat Pump Model CAHP10 HP in quantity 02 with Two SS-304 hot water tank of 5000Ltr capacity at our premises Seema Dental College, Rishikesh, UttraKhand. Total Billing amount is Rs 2180000/- (Twenty One Lakh Eighty Thousand only)

We are fully satisfied with the quality and the performance of AO Smith products, as well as services offered to our organization by AO Smith service team.

Thanks & Regards

Vivek Sang

(Executive Director)





05th July, 2019.

Mr. Vivek Sang Seema Dental College & Hospital Rishikesh, Uttrakhand

Project: Commercial for Water heating for Hospital

Dear Sir,

As per the discussion of Mr. Raman sending you the payment details of hot

water system in your hospitalk as follows:-

S.No	MATERIAL	PAYMENT	
1	ADVANCE FOR PROCUREMENT	400000	
2 .	MATERIAL DELIVERED	400000	
3	INSTALLATION AND COMMESIONNING	300000	
	TOTAL	1100000	

#### **FOR PURCHASE ORDER:-**

HERON INDIA PVT LTD **14 OLD SURVEY ROAD** DEHRADUN

**GSTIN: 05AADCH806982ZS** 

#### **BANK DETAILS:-**

**HERON INDIA PVT LTD** A/C NO 0674002190421318 IFSC CODE: PUNB0067400 **BRANCH: GHAZIABAD** 

In case of any Clarifications please feel free to contact us.

Thanking you and assuring you of our best services at all times.

For, Heron India Pvt. Ltd.

**Prashant Sagar** 





#### Terms & Conditions:-

- 1. 50% Advance with P.O, 40% against PI before dispatch of material, 10% after installation and commissioning.
- 2. Wiring /cabling for heat pump till control panel under our scope.
- 3. Lifting Inclusive.
- 4. Plumbing work of heat pump to tank would be under our scope.
- 5. Warranty for hot water system would be for 1 yrs.
- 6. Civil work for Heat Pump would be provided by customer.
- 7. Transportation Inclusive
- 8. Tax of 18% GST Extra on total system.
- 9. Time of completion for total hot water system would be 30-45 days from the date of P.O and Advance.

For Heron India Pvt. Ltd.

Prashant Sagar

#### Tax Invoice

	Laurica No.	Dated
Heron India Pvt. Ltd.	Involce No.	
11 West Floor Navyog Market	HIPL/18-19/29	4-Sep-2018
	Delizery Note	Mode/Terms of Payment
at the	Supplier's Ref.	Other Reference(s)
and the transfer of the commendation.		
	Buyer's Order No.	Dated
Problem		
Seema Dental College & Hospital	Despatch Document No.	Delivery Note Date
Virpur Khurd	Despatch Docoment 140.	Bonvory 1101
Rishikesh		Destination
	Testal thed through	Liestination
	e to 'Dedyelv	
and the stage of stage and stage and		
Seema Dental College & Hospital		
Virpur Knurd		
Rishikesh		
PAAAADT COPYYY		
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Description of	HSN/SAC	Quantity	Rate	per	Amount
Goods and Services	And the second s	e -village, plansk van de roomer (1994 - 1869) e skriver (1904)			
A,O. Smith Heat Pump (N)	84186100	1 pcs	4,50,000.00	pcs	4,50,000.0
Hot Water Tank	8421	1 pcs	3,45.850.00	pcs	3,45,850.0
PUND FOS PUMPS	51.3	2 pcs	26 000.00	pcs	52,000.0
Lies towar Elements with Control Panel			52 000.00		32,000.0
CPVC Pipes	9987	1 set	35,000.00	sel	35,000.0 <b>20,000</b> .0
Installation & Commissioning	2301			-	9,34,850.0
IGS	e T				1,65,153.0
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	lai	1	1	1	₹ 11,00,003.

INR Eleven Lakh Three Only

AADCH8069A

for Heron India Pvt. Ltd.

the particular same true and correct

Authorised Signatory

E. & O.E

## Seema Dental College & Hospital (2018-2019) A Unit of Dr B.S.G.M.C.Society

A Unit of Dr B.S.G.M.C.Society Virbhadra Road, PO-Pashulok Rishikesh-249203 (Uttarakhand)

### M/s Heron India Pvt.Ltd.

Ledger Account

71,3rd Floor, Navyug Market, Ghaziabad

1-Apr-18 to 31-Mar-19

Date		Particulars	\			Page 1
0.4			Vch Type	Vch No.	Debit	Credit
3-Aug-18 4-Sep-18	Cr Dr	PNB-3714000110074475 (SDCH) Plant & Machinery		BANK TRF.	4,00,000.00	
7-Sen-18	Cr	DND 27442224	Journal	HIPL-29		11,00,000.00
16-Oct-18	Cr	PNB-3714000110074475 (SDCH)	Payment	BANK TRF.	4,00,000.00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
10- Jan 10	C	PNB-3714000110074475 (SDCH)	Payment	BANK TRF.	2,00,000.00	
10-5411-19	Cr	PNB-3714000110074475 (SDCH)	Payment	NBANK TRF.	1,00,000.00	
					11,00,000.00	11,00,000.00

#### Third Party Funds Transfer

Congratulations, your RTGS/NEFT transaction is completed successfully!

You've won yourself a Special Offer.

\*T&C apply

\*T&C apply



Your request has been successfully taken for onward processing and debiting your account . Please ensure that Adequate Funds are available in your account to process this transaction.

#### To Other Bank (RTGS)

STEP	STEP 2	STEP 3
ENTER DETAILS	CONFIRM TRANSACTION	ACKNOWLEDGEMENT
Reference Number	RRR0132013255370	
From Account	50100125828813	
Beneficiary Name	Mentor Water Experts Pvt Ltd	
Beneficiary IFSC Code	ANDB0001209	
Beneficiary Account Number	120931100000797	
Bank Name	ANDHRA BANK	
Transfer Amount	540,760.00	
Transfer Description	SDCH	
Make Another Transfer		

#### Note:

- The actual time taken to credit the account depends on the time taken by the Payee's Bank to process the payment.
- The money will reach the Payee's bank within the time stipulated by the Reserve Bank of India.
- HDFC Bank is not responsible for any charges / commission of any kind levied/charged by the Beneficiary Bank.
- For details on safe NetBanking practices please click here

1 of 1 13/01/2020 11:22

Reference ID: 5035707849

Transaction Type: RTGS Payment

Debit Account Number: 3714009300660384

Beneficiary Nickname: Mentor Water Experts Pvt Ltd

Beneficiary Bank Name: ANDHRA BANK IFSC Code: ANDB0001209

Amount: INR 5,00,000.00

Transaction Date:(dd-MM-yyyy): 14-01-2020

Frequency Type: One Time

Remark: SDCH



Reference ID:

5027427300

Transaction Type:

RTGS Payment

Debit Account Number:

3714000110074475

Beneficiary Nickname:

Mentor Water Experts Pvt Ltd

Beneficiary Bank Name:

ANDHRA BANK

IFSC Code:

ANDB0001209

Amount:

INR 5,20,380.00

Transaction Date:(dd-MM-yyyy):

26-02-2019

Frequency Type:

One Time

Remark:

Seema Dental College





### Seema Dental College and Hospital

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E-mail: sdchquery@rediffmail.com Web: www.seemadentalcollege.org

Ref.:SDCH/PO/2019/02

Date: February 26, 2019

M/s Mentor Water Experts Pvt Ltd. Cubic Tower, Charata Road Dehradun

Sir,

Please find attached work contract for Supply installation testing & commissioning (SITC) of Sewage Treatment plant Capacity of 80 KLD as under

#### Scope of Work

S. No.	Details of Mechanical work	Quantity
1	S. S. Bar Screen 10mm	1 No.
2	Sewage Feed Pumps from EQ to STP Type- Non Submersible self priming Flow rate - 4 m3/Hr Head - 10 meter HP/RPM- 2/2900	2 Nos. (one working + standby)
3	Air Blowers for Aeration in STP and EQT Capacity — 120 m3/hr HP/RPM- 3 /1500	2 Nos.
4	Membrane Diffusers for EQ Sizes — 1 Meter DIA - 3 Inch	1 Lots.
5	Membrane Diffusers for STP Sizes - 1 Meter DIA - 3 Inch	1 Lots for each ZONE
6	Diffuser Lines for EQ and STP	1 Lots.
7	FMR/MBBR/ Media	3 m3 _
8	Lamella/ Tube Settler modules with plates	1 Nos.
9	Filter Feed Pumps Flow Rate – 8 m3/hr @ 25 M. Head HP/RPM - 2/2900	2 Nos. (one working + one standby)
10	Multi Grade Filter Capacity –8 m3/hr DIA- 600mm HOS-1875 mm	1 No
11	Activated Carbon Filter Capacity – 8m3/hr DIA-600mm HOS-1875 mm	1 No.
12	Sludge Transfer Pump from SHT to Filter Press/Centrifuge Type- Sewage Pump Flow rate - 1 m3/hr HP/RPM- 1.5/1500	1 No.
13	Filter Press Plates- 14 Size - 12"x12"	1 No.
14	Agitator for Anoxic Chamber With all accessories and mounting Arrangements	COLLEG 1 Nos.



Pipe

Electrical panel-

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15.	Electrical Control panel having sufficient drives, along with all pumps automation and control level switches.	1 No.
16.	Complete set of Architectural Drawing for STP Plan, Drawing of P& I, Drawings Sections.	1 Set
17	Complete Set of DPR of STP for submission with PCB	1 Set
18.	Supervision of Civil Work during execution of civil works by Client	1Job
19.	Supervision of O&M during Stabilization Period of STP	1 Job
20.	Training of O&M Staff/s – One Time Training during Commissioning Training Includes – General Operation of STP and ETP, General Troubleshooting of STP and ETP Operational Problems, General Preventive Maintenance of Mechanical and Electrical Equipments. Log Books Preparation and maintenance of O&M of STP.	1 Job

#### MAKE & MATERIAL OF CONSTRUCTION

Description	Make	MOC
Feed pump	JOHNSON	CI
Bar Screen	ION EXCHANGE	SS
Aeration Tank/Reactor	CIVIL TANKS	RCC
FMR Media	ION EXCHANGE	PP
Diffuser (Tube Type)	EDI, USA	Rubber (EPDM)
Blower	EVEREST	CI
Secondary Clarifier Tank	CIVIL	RCC
Lamella Boxes	ION EXCHANGE	MSFRP
Chlorination tank	CIVIL	RCC
Chlorine dosing pump	IEIL/Asia LMI/ Milton ray	HOPE Tank/ LOPE tank
MGF	ION EXCHANGE	MSEP Magar
MGF Feed Pump	JOHNSON	CI
ACF	ION EXCHANE	MSEP
Screw Pump	UT/Roto	CI (PRINCIPAL)
Filter Press	Water to people/ Pharmtech	* AUSHIKESH X
Butterfly valve	CRANE/ Audco.	Cl
Pressure qauqe	H GURU / Gluke	

JINDAL/TATA- B class /SUPREME

MCB, switch gear etc Siemens/ L&T/ Havels

MS/PVC



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#### 5 KLD ETP Related:

- Drawing to be provide by you.
- Civil/PVC tank will be provided by us.
- Dosing pumps and agitators will be purchased by us as per your recommendation.
- Commissioning and general operation of ETP will be done by you.

#### We will be providing you

- a) All Kind of Civil works, Foundations for Equipments etc.
- b) Sewer lines into Bar Screen Chamber.
- c) Ventilation Duct for underground STP.
- d) Safety & Security of material at site.
- e) Approach Road to STP site.
- f) Fresh Water Line up to STP Area.
- g) Sump and Sump pump for Underground STP.
- h) Irrigation line and Pump to carry out treated water.
- i) 3 Phase Electrical cable up to the Control Panel (Plant Room) of STP.
- i) Earthing Pits for earthing of STP Electrical Equipments.
- k) Free Water & Electricity during Erection and commissioning.

Total Cost of 80 KLD STP Rs 17,70,000/- (Inclusive of 18% GST & Freight). TDS will be deducted on actual payment made.

#### **PAYMENT TERMS:**

30% of total value already transferred after deducting TDS (copy enclosed).

60% against Performa invoice.

5% on delivery of the plant.

5% within 15days of handover of the plant.

Architecture Drawings: Architectural Drawing will be provided by you within 1-2 days of receiving of purchase order.

#### **DELIVERY:**

The work is to be completed with 20 days after the civil work is completed.

28/21/2019. Kindly acknowledge and return the signed copy of the order as the token of your acceptance.

For Seema Dental College & Hospital,

Vivek Sang

**Executive Director** 

Encl.: As above.



### Mentor Water Experts Pvt. Ltd. Mer

AN ISO 9001:2015 CERTIFIED CO.



Ref: MWEPL/STP/2018-19/Feb017 /Revised(18th Feb19)

Dated-8<sup>th</sup> /Feb/2019

To, The Chairman, Seema Dental College, Rishikesh

Subject :: Offer for Packaged Type Modular Sewage Treatment Plant of 80 KLD

Dear Sir,

Refer to your requirement of Sewage Treatment Plants of Cap.80 KLD based on same we are pleased to submit our proposal for 80 KLD for your kind consideration and approval.

We are authorized channel partner of M/s- Ion Exchange (I) Ltd.- which is world leader in water & waste water for the last 60 years.

Our offer consists of the following Annexure:

Annexure I

Design Basis

Annexure II

Introduction

Annexure III

Process Details

Annexure IV

Technical Details of Flectrometrical & Civil work

Annexure V

Make and Material of Construction

Annexure VI

Price and Commercial terms& Exclusions

We hope the above is in line with your requirement. Please revert for any further information / clarifications.

Thanking you,

FOR MENTOR WATER EXPERTS PVT. LTD.

7351011038

Auth. Channel Partners







Registered Office : 16-A, Prakash Nagar, Chakrata Road Dehradun ( Uttarakhand )

Corporate Office : Cubic Tower, 65 Ballupur, Chakrata Road Near Hotel Ramada Dehradan 248001 (UK) (India)

Branch Office : Ist Floor, Sunori complex, Nawabi road Near Haldwani Public school, Haldwani, Dist-Nainital (UK)

Branch Office: Shop No-4, Lovely Complex, Near-Govt. High School, Hallo Majra Chandigarh,

6 0135 - 4752445 , 7351002102 , Chandigarh - 07351011033,09592911033
⊕ www.mentorwater.in
⋈ sales@mentorwater.in, support

🖂 sales@mentorwater.in, support@mentorwater.in,mentorwaterexperts@yaboo.com/gmail.com



### Mentor Water Experts Pvt. Ltd. Men

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#### ANNEXURE - I

PACKAGE SEWAGE TREATMENT PLANT USING FLUIDISED MEDIA REACTOR (FMR) TECHNOLOGY.

**DESIGN BASIS** 

**Design Capacity** 

 $80 \text{ m}^{3/\text{day}}$ 

Operating Hours

20

Design flow rate

4 m3/hr

Sewage Characteristics	Raw Sewage	Treated Water	<b>CPCB Norms</b>
BOD (ppm)	250 -450	5 PPM	<30
COD (ppm)	500-700	20 PPM	<250
TSS (ppm)	250-450	<5 PPM	<100
Oil and Grease	< 50	<10 PPM	<10
Temperature	Ambient		
Inflow time	24 hours		
Peak factor	3		
Color		5 hazen unit	
Odor		Unobjectionable	
Taste		Agreeable	

#### Use of treated water:

For low end purposes such as gardening ,car washing ,flushing and other low end uses like construction .etc....







- Registered Office: 16-A, Prakash Nagar, Chakrata Road Dehradun (Uttarakhand)
- Corporate Office: Cubic Tower, 65 Ballupur, Chakrata Road Near Hotel Ramada Dehradan 248001 (UK) (India)
- Branch Office : Ist Floor, Sunori complex, Nawabi road Near Haldwani Public school, Haldwani, Dist-Nainital (UK)
- Branch Office : Shop No-4, Lovely Complex, Near-Govt. High School, Hallo Majra Chandigarh,
- 6 0135 1752445 , 7551002102 , Chandigarh 07551011033,09592911033
- www.mentorwater.in
- 🖂 sales@mentorwater.in, support@mentorwater.ia,mentorwaterexperts@yahoo.com/gmail.com



### Mentor Water Experts Pvt. Ltd. Ment

AN ISO 9001:2015 CERTIFIED CO.



#### **ANNEXURE -II**

#### INTRODUCTION FMR - FLUDISED MEDIA REACTOR

Conventional waste water treatment technologies like submerged aerated fixed film (SAFF) reactor, Trickling filters or other activated sludge processes have inherent disadvantages of large area of operation, higher power inputs and constant operator attention.

In line with our endeavor to introduce latest technologies related to Water & Waste water treatment, Ion Exchange (I) Ltd. has developed FMR a Fluidized Media Reactor using attached growth process for Waste water treatment. As compared to conventional Technologies FMR media reactors are compact, energy efficient and user friendly.

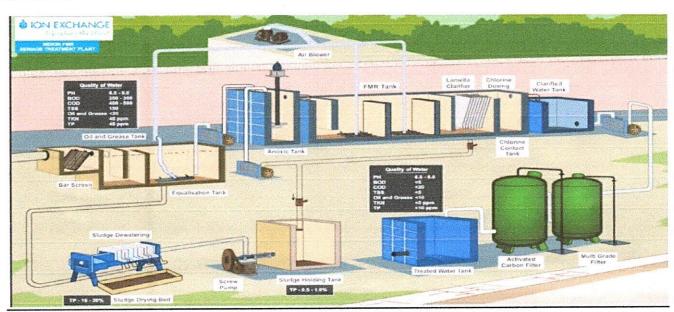
The FMR process refers to the operation of activated sludge tanks in various configurations in a combination of suspended biomass, MLSS (mixed liquid suspended solids) and attached biomass, which is attached to the FMR media.

This technology is based on MBBR /FAB technology.

#### Basic principle

Flock forming organism's form clusters or attach to available surfaces. The FMR carrier material allows high biomass concentrations per cubic meter of material, which Increases the specific volumetric capacity of activated sludge tanks Controls biomass activity Reduces operating cost

#### **FMR SCHEME:**



#### Auth. Channel Partners



GRUNDFOS X



- Registered Office: 16-A, Prakash Nagar, Chakrata Road Dehradun ( Uttarakhand )
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- Branch Office: Shop No-4, Lovely Complex, Near-Govt. High School, Hallo Majra Chandigarh,
- 0135 1752445 , 7551002102 , Chandigarh 07351011033,09592911033
- www.mentorwater.in
- sales@mentorwater.in, support@mentorwater.is,mentorwaterexperts@yahoo.com / gmail.com



### Mentor Water Experts Pvt. Ltd. Me

AN ISO 9001:2015 CERTIFIED CO.



The FMR technology is a single tank design unit, incorporating

A Oil grease trapper, Specially designed tanks with synthetic media, A lamella settler, and A chlorine contact tank

The bar screen removes larger floating matter and suspended particles. Screened sewage flows into the FMR tank, which contains the FMR media. The FMR media significantly increases the surface area for bacterial growth. Air is supplied through fine diffusers. Bacteria oxidize the organic matter present in the sewage oxidized sewage overflows in the lamella settler. Suspended particles in the treated wastewater settle, with a part of the settled sludge sliding back to the aeration tank.

The lamella plates provide larger surface areas, thus reducing the settling tank size. Treated water overflows into a chlorine contact tank, wherein the treated water is disinfected by dosing hypochlorite solution through an electronic dosing system.

Advantages using FMR

Significant reduction in space requirement due to high surface area & loading rate of FMR media.

Reduced power and operating costs

No Sludge recycle

No moving parts, less maintenance

FMR is best suitable when:

Designing a new waste water treatment plants when operating cost & space are constraints Upgrading of existing waste water treatment plants Operate plants in low temperature areas Reduce bulking problems in existing treatment plants

#### Applications of FMR

- I) Decentralized compact sewage treatment plants for Residential complexes, Hotels , Commercial Centers , Office Premises , Industries and Rural Communities.
- Industrial wastewater treatment from: any kind of factories after COD removal

Auth. Channel Partners







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#### ANNEXURE - III

#### PROCESS DETAILS

#### Bar Screen:

Raw sewage from the source is usually received into the bar screen chamber by gravity. Screen provided will remove all floating and big size matter such as plastic bottles, polythene bags, glasses, stones, etc., which may otherwise choke the pipeline and pumps.

#### **Equalization Tank**

Usually, sewage generation is more during morning hours and evening hours. Visually no sewage is generated during night hours. Any biological system needs constant feed for bacteria to work efficiently. Hence, it is important to put an equalization tank to collect the excess flow during peak hours and feed sewage in lean hours. A typical equalization tank has a capacity of 8 – 12 hours of average flow rate. The tank is generally of civil construction by client. Provision of air grid is to be made for thoroughly mixing the sewage to make it of homogenous quality and to keep the suspended matter in suspension and to avoid septic conditions.

#### Transfer of Sewage

Our scope starts from transfer of sewage from Equalization Tank to FMR tank. The distance of transfer should not exceed beyond 20 meter. The transfer pump can be either submersible or non-submersible type for this application. However we have considered centrifugal non-submersible type. The layout shall be as per our standard.

#### Fluidised Media Reactor (FMR)

Fluidised Media Reactor (FMR) as the name indicates consists of floating media of various shapes and sizes. The main objective of adding this media is to make available more surface area for bacteria to grow on, thereby maintaining and retaining maximum possible bacterial population in a limited volume. The FMR media material allows biomass Concentration of 20 – 40 Kgs/m3 material. Thus, FMR consists of combination of biomass in attached as well as suspended form. High concentration of biomass enables reduction of aeration tank and in turn reduction in overall cost. Volume of the media shall vary from 6 to 25 % based on the concentration of organic matter.

Another main feature of the FMR is its compactness. The FMR consists of biological system for removal of organic matter (BOD, COD), lamella for clarification and chlorine contact tank for disinfection. As all units are placed inside a single tank, it saves space and also increases operational ease.

In FMR, raw sewage enters at the top of the tank. Air is introduced at the bottom of the tank through fine bubble diffusers. Media will be in suspension because of the turbulence created by the air. The bacteria required for the oxidation of the organic matter is attached to the media and some part is suspended in the tank. After oxidation, the bacteria grow in number and need to be separated from the aeration tank liquor. The lamella section inside the FMR helps in clarification and separation of the bacteria (sludge) and clear overflow flows into chlorine contact tank. Lamella plates helps in increasing the settling area and removing the particles effectively in a smaller plan area.

In chlorine contact tank, Sodium hypo Chlorite (NaOCI) is added for disinfecting the clarified sewage Baffle plates are provided to make better contact. The chlorinated treated sewage then flows out of FMR either for further treatment or for disposal.







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#### Chlorination tank

After settling tank chlorine shall be dosed to remove bacterial effects at Chlorination tank by chlorine dosing pump.

#### Break water tank

The clarified water shall be stored in break water tank to feed in Filtration plant and carbon filter for final treatment.

#### Multi Grade Filtration Plant

After Break water tank it will be pumped to filtration plant to treat further

#### Activated carbon Filter

After Filtration plant filtered water shall be pass through ACF to remove chlorine and smell and colour .

#### Final treated water tank

Final treated water shall be stored in final tank for further re- uses and other low end applications.

#### Sludge:

The sludge from the Clarifier to be transfer from the bottom of the Clarifier once in a week by gravity/pump to SHT and it will be pumped to Filter press through screw pumps to final dewatering. Final solid shall be used as manure and water shall be re-circulated to EQ.







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#### **ANNEXURE - IV**

TECHNICAL DETAILS OF MECHNICAL FOLLIPMENTS

S.	Details of Mechanical work	Quantity
<b>No.</b>	S. S. Bar Screen 10mm	1 No.
2	Sewage Feed Pumps from EQ to STP	2 Nos.
	Type- Non Submersible self priming	(one working + standby)
	Flow rate – 4 m3/Hr	
	Head – 10 meter	
2	HP/RPM- 2/2900 Air Blowers for Aeration in STP and EQT	0.11
3	Capacity – 120 m3/hr	2 Nos.
	HP/RPM- 3 /1500	
4	Membrane Diffusers for EQ	1 Lots.
	Sizes – 1 Meter	1 2010.
	DIA - 3 Inch	
5	Membrane Diffusers for STP	1 Lots for each ZONE
	Sizes - 1 Meter	
	DIA - 3 Inch	
6	Diffuser Lines for EQ and STP	1 Lots.
7	FMR/MBBR/ Media	3 m3
8	Lamella/ Tube Settler modules with plates	1 Nos.
9	Filter Feed Pumps	2 Nos.
	Flow Rate – 8 m3/hr @ 25 M. Head	(one working + one
	HP/RPM - 2/2900	standby)
10	Multi Grade Filter	1 No
	Capacity –8 m3/hr	
	DIA- 600mm	
4.4	HOS-1875 mm	1 No.
11	Activated Carbon Filter Capacity – 8m3/hr	I NO.
	DIA-600mm	
	HOS-1875 mm	
12	Sludge Transfer Pump from SHT to Filter Press/Centrifuge	1 No.
-	Type- Sewage Pump	1
	Flow rate - 1 m3/hr	
	HP/RPM- 1.5/1500	
13	Filter Press	1 No.
	Plates- 14	
	Size - 12"x12"	
14	Agitator for Anoxic Chamber	1 Nos.
	With all accessories and mounting Arrengements	







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15.	Electrical Control panel having sufficient drives, along with all pumps automation and control level switches.	1 No.
16.	Complete set of Architectural Drawing for STP Plan, Drawing of P& I, Drawings Sections.	1 Set
17	Complete Set of DPR of STP for submission with PCB	1 Set
18.	Supervision of Civil Work during execution of civil works by Client	1Job
19.	Supervision of O&M during Stabilization Period of STP	1 Job
20.	Training of O&M Staff/s – One Time Training during Commissioning Training Includes – General Operation of STP and ETP, General Troubleshooting of STP and ETP Operational Problems, General Preventive Maintenance of Mechanical and Electrical Equipments.  Log Books Preparation and maintenance of O&M of STP.	1 Job







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#### Exclusions -

- a) Sewer lines into Bar Screen Chamber.
- b) Safety & Security of material at site.
- c) Approach Road to STP site.
- d) Fresh Water Line up to STP Area.
- e) Water & Electricity up to STP.

#### ANNEXURE - V

#### MAKE & MATERIAL OF CONSTRUCTION

Description	Make	MOC
Feed pump	JOHNSON/KIRLOSKAR/KSB	CI
Bar Screen	ION EXCHANGE	SS
Aeration Tank/Reactor	CIVIL TANKS	RCC
FMR Media	ION EXCHANGE	PP
Diffuser (Tube Type)	EDI, USA	Rubber (EPDM)
Blower	EVEREST	CI
Secondary Clarifier Tank	CIVIL	RCC
Lamella Boxes	ION EXCHANGE	MSFRP
Chlorination tank	CIVIL	RCC
Chlorine dosing pump	IEIL/Asia LMI/ Milton ray	HDPE Tank / LDPE tank
MGF	ION EXCHANGE	MSEP
MGF Feed Pump	KIRLOSKAR / JOHNSON	CI
ACF	ION EXCHANE	MSEP
Screw Pump	UT/Roto	CI
Filter Press	Water to people/ Pharmtech	
Butterfly valve	CRANE / Audco / Eqvt.	CI
Pressure gauge	H GURU / Gluke / Eqvt.	
Pipe	JINDAL/TATA - B class /SUPREME	MS/PVC
Electrical panel- MCB, switch gear etc	Siemens/ L&T/ Havels/ Eqv.	







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#### PRICE & COMMERCIAL TERMS

Basic Price For 80 KLD STP in Civil = Rs. 15,00,000.00

GST on Basic Price @ 18% = Rs. 2,70,000.00

Net Amount for SITC of STP of 80 KLD in Civil = Rs. 17,70,000.00 (Rupees Seventeen Lac and Seventy Thousand Only).

#### **BASIS OF PRICE:**

GST - 18% Extra.

Freight - As per Actual from our Ex Works Hosur (TN) to your site.

#### **PAYMENT TERMS:**

30% of total value as advance along with order.

60% against Performa invoice prior to dispatch (On Readiness of Material at Hosur (TN) Factory.

5% on delivery of the plant.

5% within 15days of handover of the plant.

#### **DELIVERY:**

Within 10-12 weeks after receipt of advance along with technically and commercially clear purchase order and E/C Time 10-15 days.

Note :- Early Delivery is possible and depends on the Progress of Civil Work at Site).

Architecture Drawings: "Good for Working" Architectural Drawing for above work will be provided with 2-4 Days from Confirmation of PO.

#### WARRANTY

The plant supplied by us will remain under warranty for a period of 12 months from the date of commissioning against any Manufacturing defects.

PLACEMENT OF ORDER you are requested to place your order in favor of M/s- Mentor Water Experts Pvt, Ltd.

Add- 16-A, Prakash Nagar, Chakrata Road, Dehradun

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Vendar Name	MENTOR WATER EXPERTS PVT_LTD			
Full Address	16-A Prakash Nagar Chakrata Road Dehradun			
Contact Person	Rajender Chamoli			
Designation	Director			
State	UTTARAKHAND	State		
City	DEHRADUN	The state of the s		
Courtry	INDIA	Ref No		
Pin Code	248001			
Phone No.	0135-2621387	Fax no		
Pan No. (Copy To Be Attached)	AAHCM1789Q	GSTIN NO (Copy To the Attached)	05AAHCM1789Q1ZQ	
Legal form of Vendor (Put tick melt)		Company		
email id	mentorwaterexperts@yahoo.com/gmas.com			
Service Tax	AAHCM1789QSD001			
Contact Person	Rajender Chamoli			
Mobile No.	7351002100			
Designation	Executive Director			
Bank Name	ANDHRA BANK RAJPUR ROAD DEHRADUN BRANCH			
Bank Account No (Carosited Chargue Leaf To Be Attached)	120931100000797			
Branch Name	Raipur Road Dehradun			
IFSC Code	ANDB0001209			
Bank contact Details	PH-0135-2740017			

FOR MENTOR WATER EXPERTS PVT LTD

FINANCIAL MANAGER







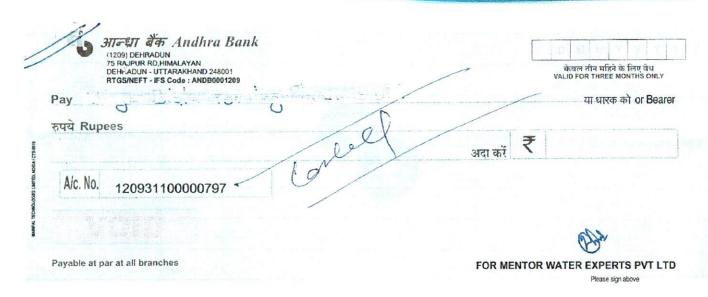
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