

मेव जर्यत

Certificate No. Certificate Issued Date Account Reference Unique Doc. Reference Purchased by Description of Document **Property Description** Consideration Price (Rs.)

First Party Second Party Stamp Duty Paid By Stamp Duty Amount(Rs.)

INDIA NON JUDICIAL Government of Uttarakhand

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IN-UK93700048728013S 22-Oct-2020 01:45 PM

- NONACC (SV)/ uk1319304/ DEHRADUN/ UK-DH
- SUBIN-UKUK131930490588191761755S :
- MEDICAL POLLUTION CONTROL COMMITTEE
 - Article Miscellaneous
 - NA
 - 0
 - (Zero)
 - NA
 - MEDICAL POLLUTION CONTROL COMMITTEE
 - MEDICAL POLLUTION CONTROL COMMITTEE
 - 100 (One Hundred only)



......Please write or type below this line-----

BIOMEDICAL WASTE MANAGEMENT SERVICES AGREEMENT

BY AND BETWEEN



SEEMA DENTAL COLLEGE AND HOSPITAL, RISHIKESH

AND



MEDICAL POLLUTION CONTROL COMMITTEE

Page 1 of 11

- Statutory Alert: The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid. The onus of checking the legitimacy is on the users of the certificate.

- 3 In case of any discrepancy please inform the Competent Authority.

This Bio-medical Waste Management Services Agreement ("Agreement") is executed on 1st April 2021 by and between SEEMA DENTAL COLLEGE AND HOSPITAL, RISHIKESH, Uttarakhand (hereinafter referred to as "FIRST PARTY").

AND

Medical Pollution Control Committee, a Non-Government Organisation incorporated under the laws of India and having it's registered office at H.O. 21, E-Block, Kalpi Road, Panki, Kanpur, Uttar Pradesh 208020 (hereinafter referred to as "**SECOND PARTY**").

First party and Second party may be here in after individually referred to a "Party" and collectively as "Parties".

WHEREAS,

- A. First party is Dental Collage & Hospital located at Veerbhadra Road, Pashulok, Near Aiims , Rishikesh- 249203 Uttarakhand
- B. Second party is engaged in the bio-medical waste management providing requisite services for collection, transportation, reception, storage, treatment & disposal and has requisite experience, competence and ability in providing the said bio-medical waste management services.
- C. Second party is duly authorised by the Uttarakhand Environment Protection and Pollution Control Board (now known as Uttarakhand Pollution Control Board) to establish and operate its Common Bio-medical Waste Treatment Facility at Khasra No. 242&244, Village Mandawar, Bhagwanpur, Haridwar, Uttarakhand 247167.
- D. Second party is in compliance with the Revised Guidelines for Common Bio-medical Waste Treatment facilities, 2016 issued by CPCB and is equipped with double-chambered Incinerator with capacity of 100 kg/hour with automatic Italian burner & PLC based panel; Stand-by Incinerator with capacity of 100kg/hour; Autoclave with capacity of 500 litres/hour; Chemical treatment capacity with capacity 400 kg/hour; Effluent Treatment Plant of 10 kl; 30m Stack with retention time 2 seconds in Secondary Chamber; Mist Eliminator, Activated Carbon Chamber and Venturi-Scrubber to ensure permissible limits of PCDDs (dioxins) & PCDFs (furans) through Online Emission Flue Gas Monitoring System.

Shredder, Sharp Pit/Encapsulation, Deep Burial Pit for emergency, Secured Land Fill; Storage rooms for treated and untreated bio-medical waste respectively; Disinfectant Tanks; Genset Room, Maintenance Room & Office; Laboratory; Fire Extinguishers, Green Belt etc.

E. The parties have entered into this agreement for the Term of Validity (as defined below).





This Bio-medical Waste Management Services Agreement ("Agreement") is executed on 01st December 2020 by and between SEEMA DENTAL COLLEGE AND HOSPITAL, RISHIKESH, Uttarakhand (hereinafter referred to as "FIRST PARTY").

AND

Medical Pollution Control Committee, a Non-Government Organisation incorporated under the laws of India and having it's registered office at H.O. 21, E-Block, Kalpi Road, Panki, Kanpur, Uttar Pradesh 208020 (hereinafter referred to as "**SECOND PARTY**").

First party and Second party may be here in after individually referred to a "Party" and collectively as "Parties".

WHEREAS,

- A. First party is a Medical Collage & Hospital with 150 Dental Chairs and 10 Bedded Hospital located at Veerbhadra Road, Pashulok, Near Aiims, Rishikesh- 249203 Uttarakhand
- B. Second party is engaged in the bio-medical waste management providing requisite services for collection, transportation, reception, storage, treatment & disposal and has requisite experience, competence and ability in providing the said bio-medical waste management services.
- C. Second party is duly authorised by the Uttarakhand Environment Protection and Pollution Control Board (now known as Uttarakhand Pollution Control Board) to establish and operate its Common Bio-medical Waste Treatment Facility at Khasra No. 242&244, Village Mandawar, Bhagwanpur, Haridwar, Uttarakhand 247167.
- D. Second party is in compliance with the Revised Guidelines for Common Bio-medical Waste Treatment facilities, 2016 issued by CPCB and is equipped with double-chambered Incinerator with capacity of 100 kg/hour with automatic Italian burner & PLC based panel; Stand-by Incinerator with capacity of 100kg/hour; Autoclave with capacity of 500 litres/hour; Chemical treatment capacity with capacity 400 kg/hour; Effluent Treatment Plant of 10 kl; 30m Stack with retention time 2 seconds in Secondary Chamber; Mist Eliminator, Activated Carbon Chamber and Venturi-Scrubber to ensure permissible limits of PCDDs (dioxins) & PCDFs (furans) through Online Emission Flue Gas Monitoring System.

Shredder, Sharp Pit/Encapsulation, Deep Burial Pit for emergency, Secured Land Fill; Storage rooms for treated and untreated bio-medical waste respectively; Disinfectant Tanks; Genset Room, Maintenance Room & Office; Laboratory; Fire Extinguishers, Green Belt etc.

E. The parties have entered into this agreement for the Term of Validity (as defined below).



NOW THEREFORE, IN CONSIDERATION OF THE COVENANTS HEREIN CONTAINED, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. DEFINITIONS:

1.1. In this agreement, the following terms shall have the following meanings assigned to them here in below

"Applicable Laws" shall mean and include Bio-Medical Waste Management Rules, 2016, Revised Guidelines for Common Bio-Medical Waste Treatment Facilities, 2016; amended 2018 & 2019, The Water Act, 1974, The Air Act, 1981, EP Act, 1986, Guideline for Handling, Treatment and Disposal of Waste Generated During Treatment/ Diagnosis/ Quarantine of COVID-19 Patients, March 2020 and as amended thereof;

"Bio-Medical Waste" shall mean all the waste generated during diagnosis and treatment including all categories covered under the relevant Applicable Laws;

"Invoice" shall have the meaning ascribed to such term in Clause 5.2 below;

"Services" shall collectively mean and refer to the gamut of bio-medical waste management to be provided by the Second party and shall include the collection, transportation, reception, storage, treatment and disposal of bio-medical waste;

"Service Charge" shall have the meaning ascribed to such term in Clause. 5.1.

"Term" shall have the meaning ascribed to such term in Clause. 6.1.

1.2 INTERPRETATON:

1.2.1. The reference to Recitals, Clauses and Schedules are to the recitals, clauses and schedules of this agreement.

1.2.2. Headings are for convenience only and shall not affect the interpretation of the covenants hereof.

1.2.3. Words imposing the singular shall include plural and vice versa and words denoting one gender include the other gender.



2. APPOINTMNENT OF BIO-MEDICAL WASTE MANAGEMENT SERVICES

- 2.1. The Second party shall render its services for management of bio-medical waste generated by the First party.
- 2.2. The Second party hereby represents that it has valid authorisations, licences, consents and registrations from relevant government authority for providing services in accordance with Applicable Laws.

3. OBLIGATIONS OF THE FIRST PARTY

- 3.1. Ensure compliance of BMWM Rules, 2016 as amended thereof and CPCB guidelines for implementation of BMW Management Rules;
- 3.2. Collect and store properly segregated biomedical waste separately in dedicated storage room prior to handing over the same to the Second party.
- 3.3. Maintain proper records of waste generated from each unit.
- 3.4. Collect used PPEs such as goggles, face-shield, splash proof apron, Plastic Coverall, Hazmet suit, nitrile gloves into Red polybag.
- 3.5. Collect used mask (including Triple layer mask, N95 mask etc.), head cover/cap, shoecover, disposable linen Gown, non-plastic or semi-plastic coverall in Yellow polybags.
- 3.6. Ensure pre-treatment of viral transport media, plastic vials, vacutainers, eppendorf tubes, plastic cryovials, pipette tips as per BMWM Rules, 2016 and collect in Red polybag.
- 3.7. Provide training to their waste handlers about proper segregation of bio-medical waste, infection prevention measures such as Hand hygiene, use of appropriate PPE, etc.
- 3.8. Ensure the use of bar-coded, non-chlorinated, virgin LLDP polybags with thickness more than 50 microns.
- 3.9. Shall make a provision to ensure no secondary handling and pilferage of recyclables.



4. OBLIGATIONS OF THE SECOND PARTY

- 4.1. Ensure that all the bio-medical waste is collected, stored, treated & disposed in accordance and in compliance with the Applicable Laws.
- 4.2. Shall ensure regular sanitization of workers involved in handling and collection of biomedical waste.
- 4.3. Shall maintain proper record for collection, treatment and disposal of the bio-medical waste.
- 4.4. Provide training to Waste handlers on infection prevention measures, hand hygiene, respiratory etiquettes, social distancing, and use of PPE etc.
- 4.5. To provide collection of properly segregated bio-medical waste stored in nonchlorinated, virgin LLDP, bar-coded coloured polybags.
- 4.6. To inform the Uttarakhand Pollution Control Board in case of unsegregated biomedical waste is handed over by the First party for transportation, treatment and disposal.
- 4.7. If and when an accident occurs during collection, transportation, handling or treatment, the Second party shall report the prescribed authorities about the same.

5. SERVICE CHARGE, PAYMENT TERMS AND CONDITIONS

- 5.1. For the Services provided under this agreement, the First party shall pay to the Second party ("Service Charge") at the rate INR 47,000.00 per month.
- 5.2. Up to 400 grams of waste after which a rate of INR 41.00 per Kg for Yellow Category waste and INR 8.20 per Kg for Red Category waste shall be applicable.
- 5.3.20% of the total bio-medical waste generated shall be considered as Yellow Category.
- 5.4. For the Handling material provided, the First party shall pay at the rates mentioned in Annexure-I.
- 5.5. The Handling material shall be supplied to the First party only on demand by the Second party. The demand order shall be placed in at least 15 days advance for timely delivery by the Second party.



- 5.6. The Second party shall raise an invoice ("**Invoice**") on the First party for the services provided and handling materials supplied by the 7th day of every calendar month and that the First party shall within 45 (forty five) days of receipt of an invoice; pay the amounts due under the invoice to the Second party.
- 5.7. The invoice raised for services provided shall be Inclusive of GST as Services provided by a CBWTF Operator are EXEMPTED from Taxation under Central GST Act, 2017.
- 5.8. The First party shall pay the amounts due under the invoice for the services provided to the Second party through an account payee Cheque or any online modes of payment in favour of the account details mentioned below:

Account Name:MEDICAL POLLUTION CONTROL COMMITTEEBank Name:Punjab National BankBranch Address:I.M.A., Ballupur Road, Dehradun (Uttarakhand)Account No.:4086002100004366IFSC Code:PUNB0408600

- 5.9. Rates are required to be revised annually based on WPI/CPI or shall be incremented by 10% for every financial year.
- 5.10. Second party may discontinue its services in case the First party defaults in payment of the amounts due for a succeeding period of maximum 90 (ninety) days. Thereafter, a charge of 18% interest rate per month would be applicable.

6. TERM OF VALIDITY

6.1. Term

- 6.1.1. This Agreement shall come in force from 01st December, 2020 and shall be valid and in force for a period of 5 (Five) years i.e. up till 30th November, 2025. ("**Term**").
- 6.1.2. Any renewal of the Agreement shall be by mutual written agreement and shall be for such additional periods.



7. GOVERNING LAW, DISPUTE RESOLUTION AND JURISDICTION

- 7.1. In the event any dispute arises between the Parties out of or in connection with this Agreement, including the validity thereof, the Parties hereto shall endeavour to settle such disputes amicably in the first instance.
- 7.2. The attempt to bring about an amicable settlement shall be treated as having failed as soon as one of the Parties hereto, after reasonable attempts, which shall continue for not less than 15 (Fifteen) days, gives a notice to this effect, to the other Party in writing.
- 7.3. In case of such failure, the dispute shall be referred to the advisory committee of the Second party.
- 7.4. In the event the Parties are unable to resolve the dispute mutually, the courts in Dehradun shall have exclusive jurisdiction on any matter arising out of this Agreement.

8. MISCELLANEOUS

8.1. Amendment

This Agreement may not be amended or modified except by an instrument in writing signed by the Parties hereto.

8.2. Neither Party shall be entitled to assign or transfer any of its right or obligations under this Agreement except with prior written consent of the other Party concerned.



IN WITNESS WHEREOF THE PARTIES HERETO HAVE EXECUTED THIS AGREEMENT ON THE DATE HEREIN ABOVE FIRST MENTIONED.

SIGNED AND DELIVERED BY SEEMA DENTAL COLLEGE AND HOSPITAL, RISHIKESH, AS FIRST PARTY



(Stamp & Signature)

Seema Dental College and Hospital

Designation:

Witness Name & Signature:

SIGNED AND DELIVERED BY MEDICAL POLLUTION CONTROL COMMITTEE, AS SECOND PARTY



(Stamp & Signature) Dr. Vishal Singh M.P.C.C., Uttarakhand Witness Name and Sign:

ANNEXURE-I

<u>S.No.</u>	<u>Category</u>	Description	<u>Rates</u>
1.	COLOUR CODED BAGS Size (in inches): (i) 36*48 (ii) 33*36 (iii) 20*20	 51 microns thickness Non-chlorinated 100% VIRGIN LLDPE Colored and printed, as per Schedule IV (1&2) of BMWR-2016 Available in RED, YELLOW and BLUE colors. 	(in INR) • 132.00 per Kg
2.	ZIP TIES	Size: 6 inchesVirgin PVC -	• 0.60 per piece
3.	BARCODED PUNCTURE PROOF CONTAINERS	 Standard white LLDPE Grade Available in 1 Lt. and 5 Lts. 	 1 Lt.: 33.00 per piece 5 Lt.: 204.00 per piece
4.	BAR-CODES	 Size: 60 mm x 40 mm Digital Printing through dedicated Bar-code Printers 	• 00.00
5.	MACHINERY and MANPOWER	 Weighing Scale App based mobile Bar- code Scanner Manpower for Scanning and weighing of BMW generated 	• 28.00 per Kg



6.	BAR-CODE WASTE MANAGEMENT SYSTEM	 Log-in access to Cloud based Bar-code Waste Management System 	• 141.00 per Kg
		• Unique ID & Password	
		• Daily Online waste receipts	
		• Daily Online logbook maintenance	
		 Data Maintenance and Output formats 	
		 Quarterly and Annual Reports 	
7.	Others	Manual Logbooks	• 00.00
		 Posters and Stickers 	

- (i) The Handling material shall be supplied to the First party only on demand by the Second party. The demand order shall be placed in at least 15 days advance for timely delivery by the Second party.
- (ii) The First party shall pay the amounts due under the invoice for the handling materials provided to the Second party through an account payee Cheque or any online modes of payment in favour of the account details mentioned below:

Account Name:MEDICAL POLLUTION CONTROL COMMITTEEBank Name:Punjab National BankBranch Address:I.M.A., Ballupur Road, Dehradun (Uttarakhand)Account No.:4086002100009088IFSC Code:PUNB0408600

(iii) The Second party shall raise an invoice on the First party for the handling materials supplied on the day of delivery and that the First party shall pay immediately, the amounts due under the invoice to the Second party.



Third Party Funds Transfer

Congratulations, your RTGS/N completed successfully! You've won yourself a Special Offer .		SPECIAL OFFER
Avail now	*T&C apply	Starrat Off



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	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	

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 <u>click here</u>

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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

पांजाता लेशनल तोंक 🔰 punjab national bank

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

 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, Srinegar Garhwal Virbhadra Road, Post Office : Pashulok Rishikesh-249 203 (Ultarakhand) Phones: 0135-2453465, 2453725, 2453726 Fax : 91-135-2453743 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

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.

1

Scope of Work



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 Virbhadra Road, Post Office : Pashulok Rishikesh-249 203 {Uttarakhand} Phones: 0135- 2453465, 2453725, 2453726 Fax : 91-135-2453743 E-mail : sdchquery@rediffmail.com Web : www.seemadentalcollege.org

 Affiliated to: HNB Garhwal University, Srinagar Garhwal

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 Narapar
MGF Feed Pump	JOHNSON	CI
ACF	ION EXCHANE	MSEP
Screw Pump	UT/Roto	
Filter Press	Water to people/ Pharmtech	* AISMIKESB *
Butterfly valve	CRANE/ Audco.	CI
Pressure qauqe	H GURU / Gluke	
Pipe	JINDAL/TATA- B class /SUPREME	MS/PVC
Electrical panel-	MCB, switch qear etc Siemens/ L&	T/ Havels



Recognized by: Dental Council of India vide Govt. Gazette Notification No. V-1201/48/2001-DE dated 25/06/2008

HNB Garhwal University, Srinagar Garhwal

Virbhadra Road, Post Office : Pashulok Rishikesh-249 203 (Uttarakhand) Phones: 0135- 2453465, 2453725, 2453726 Fax: 91-135-2453743 E-mail : sdchquery@rediffmail.com Web : www.seemadentalcollege.org

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.

· Affiliated to:

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.
- a) 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:

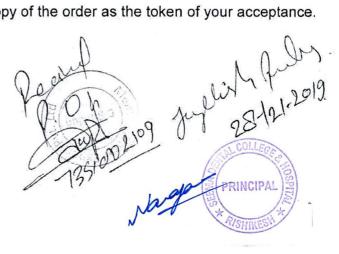
The work is to be completed with 20 days after the civil work is completed.

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.





AN ISO 9001:2015 CERTIFIED CO.

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

Dated-8th /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 Process Details Annexure III Technical Details of Electrometrical & Civil work Annexure IV Annexure V Make and Material of Construction Price and Commercial terms& Exclusions Annexure VI

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.

102/2018

7351011038

Arvind Chauhan







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, Nawali road Near Haldwani Public school, Haldwani, Dist- Nainital (UK) Branch Office : Shop No-4, Lovely Complex, Near-Govt. High School, Hallo Majra Chandigarh, 0135 - 1752445 , 7551002102 , Chandigarh - 07551011035,09592911035 🖂 sales@mentorwater.in, support@mentorwater.in,mentorwaterexperts@yaboo.com /gmail.com www.mentorwater.in



ANNEXURE - I

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

DESIGN BASIS

Design Capacity 80 m^{3 /day}

Operating Hours 20

Design flow rate

4 m3/hr

Sewage Characteristics	Raw Sewage	Treated Water	CPCB Norms
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.....

Auth. Channel Partners





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

 Corporate Office : Cubic Tower, 65 Ballupur, Chakrata Road Near Hotel Ramada Dehradun 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,

 0135 - 1752445, 7551002102, Chandigarh - 07551011033,09592911033

 www.mentorwater.in
 Sales@mentorwater.in, support@mentorwater.ia,mentorwaterexperts@yahoo.com /gmail.com



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.

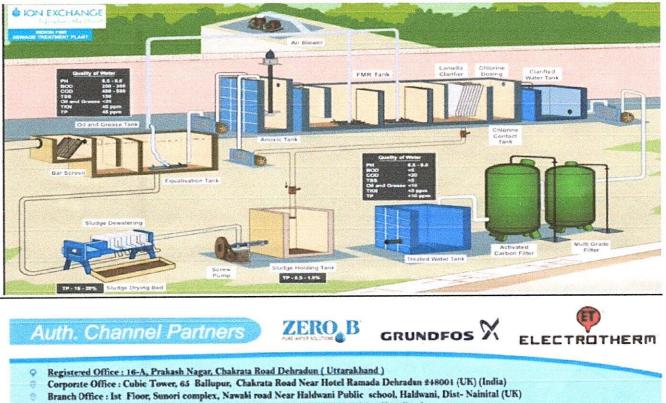
The FMR process refers to the operation of activated sludge tanks in various configurations in a combination of suspended biomass, MLSS (mixed liquid suspended solids) and attached biomass, which is attached to the FMR media.

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





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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

3

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I) Decentralized compact sewage treatment plants for Residential complexes, Hotels , Commercial Centers , Office Premises , Industries and Rural Communities.

II) Industrial wastewater treatment from: any kind of factories after COD removal





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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

TECHNICA	DETAILS	OF MECHI	NICAL EQUIPMENTS	
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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 Arrengements	1 Nos.



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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.		
Lieunual panel- MUD, Switch gear etc	Siemens/ L&T/ Haveis/ 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

Ph-0135-2621387/6543777, Mo-9412950122, 7351002100

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Vendar Name	MENTOR WATER EXPERTS PVT_LTD				
Full Address	16-A Prakash Nagar Chakrata Road Dehradun				
Contact Person	Raiender Chamoli				
Designation	Director				
State	UTTARAKHAND	State			
Oity	DEHRADUN				
COUNTRY	INDIA	Ref No			
Pin Code	248001				
Phone No	0135-2621387	Fax no			
Pan No. (Copy To Be Attached)	AAHCM1789Q	GSTIN NO (Copy To Be Asactised)	05AAHCM1789Q120		
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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 (Caroalise Chague Leaf To Be Attached)	120931100000797				
Branch Name IFSC Code	Rajpur Road Dehradun ANDB0001209				
Bank contact Details	PH-0135-2740017				

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