


**LAL ION EXCHANGE
AND CHEMICALS (P) LTD.**

FACTORY PLOT NO. 10-A, SECTOR-1 INDUSTRIAL AREA,
GOVINDPURA, BHOPAL-462 023 9300814112, 9301239586
Regd. Office S-7, Jaideep Complex, Zone-II, M.P. Nagar, Bhopal
Email : lalionexchange@yahoo.com



To, Mansarovar Dental College Opposite Bimakunj, Kolar Road Bhopal (M.P.)	INVOICE No.	LIECL/17-18/Se-001			
	Date	01.09.2017			
	P.O. No.	By Agreement			
	Date of Order				
	GSTin No.	23AAACL6750D1ZW			
	Party GSTin				
	Pan No.	AAACL6750D			
o.	PARTICULARS	QTY.	Unit	Rate/Unit	Amount (In Lacs)
1.	Supply, Design, Errection & Commission of Water Treatment Plants (WTP)	02	Nos.	400000/-	400000.00
	Bank Name - HDFC	Total Amount			400000.00
	Branch - Ashoka Garden, Bhopal	GST 18%			Inclusive
	Account No. - 50200024672392	Round off			0.00
	IFSC Code - HDFC0009020	Total Amount			400000.00
	A/C Name - Lal Ion Exchange & Chemicals (P) Ltd.				
Rs. Four Lakhs Only					

for **LAL ION EXCHANGE AND CHEMICALS (P) Ltd.**

Lal Ion Exchange and Chemicals (P) Ltd.

Authorized Signatory

Authorized Signatory

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Date: 28/3/2017

Agreement

This agreement has been made between Lal Ion Exchange And Chemicals (P) Ltd. , Bhopal

& M/S Mansarovar Group of Institutions, Kolar Road, Bhopal, M.P.

For water recycling Plant. Following condition are mutually agreed by both.

Cost of Plant: - Rs. 4 Lacs Inclusive All Taxes.

Advance Payment: - Rs. 2.40 Lacs. (Means 60% Advance)

Balance Payment Details:-

1. 40% After Installation of PLANT.

Delivery : within 45 days.

For Mansarovar Group of Institutions

Bhopal

Party - 1



Authorised Signatory

(our quotations (2 separate for ETP & STP) dated 20/3/17 are part of this agreement regarding technical & other details)

Lal Ion Exchange and Chemicals (P) Ltd. G.C. Harode
9826681939

Authorised Signatory

For Lal Ion Exchange & Chemicals (P) Ltd.

Lal Ion EXCHANGE AND CHEMICALS (P) LTD
Bhopal

Party - 2

Authorised Signatory

Authorised Signatory

**Lal ION EXCHANGE
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10A, I - SECTOR, INDUSTRIAL AREA, GOVINDPURA,
BHOPAL - 462023 (M.P.) INDIA PH. No 0755-4002960-64,
AN ISO 9001 : 2008 CERTIFIED COMPANY



20.03.2017

TO,
MANSAROVER COLLEGE
BHOPAL

SUBJECT: - OFFER FOR WASTE WATER TREATMENT PLANT 17 KLD BASED
ON MOVING BED BIO FILM REACTOR (MBBR)
MODLARTECHNOLOGY.

Dear Sir,

We are pleased to introduce ourselves as professionally managed company engaged in the field of WATER & WASTE WATER TREATMENT PLANT. We have our manufacturing unit at 10A, Sector I, Industrial Area Govindpura Bhopal. We are engaged in the field of water treatment since 15 Years & executed many projects successfully.

OUR STRENGTH :-

FABRICATION FACILITIES :-

We have complete setup of fabrication, including testing facilities of equipment in our campus

TOOL ROOM :-

We have well equipped tool room with all required machines i.e Lathes, Horizontal Milling Machine, Vertical Milling Machine, Shapers, drill machines surface grinders, presses etc.

WATER TESTING LAB :-

Our lab has the facilities to test different parameters i.e pH, TDS, Alkanity, BOD, COD Microbiological Load & others.


WATER :-

Water contains mainly three types of impurities as follows.

Suspended impurities :- These are the impurities available in suspension form i.e mud, foreign particles.

Dissolved impurities :- These are various chemicals which are in dissolved form in the water like silica, sodium, chloride etc.

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Microbiological impurities :- These are different bacteria's & impurities available in the water.

SEWAGE TREATMENT PLANT :- (MBBR TECHNOLOGY)

Sewage is generated from the houses & it contains all the above mentioned impurities i.e suspended, dissolved & microbiological. The system is designed to control various parameters i.e pH, Total Dissolved Solids, Biological oxygen Demand, Chemical oxygen Demand, Total suspended solids & oil / grease etc. The system is designed to treat sewage water in three stages.

Primary Treatment
Secondary Treatment
Tertiary Treatment

TREATMENT STEPS :-

BAR SCREEN CHAMBER :- It is required to remove & stop heavy particle from the sewage water.

OIL & GREASE REMOVAL SYSTEM :- This system removes available grease & oil by density separation method .


EQUILISATION CUM COLLECTION TANK :- The Sewage water will be collected in this tank.

MOVIND BED BIO REACTOR TANK (MBBR – 1) :- This tank contains specified quantity of Bio Media made of light weight plastic to enhance surface area for the growth of Bio culture. The bottom of the system is equipped with fine bubble diffusers to supply air which enhance oxygen quantity in the water & help to grow bio culture speedily.

SECONDARY TUBE SETTLER :- This is conical tank in which PVC tube settler media is filled to control speed of water & to increase surface area which results in better separation of sludge & suspended impurities.

CLEAR/FILTER FEED TANK :- Here dosing of sodium hypo chlorite is done to disinfectant the water.

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PRESSURE SAND FILTER :- This is vertical vessel filled with the required quantity of pebbles, bevels, sand. The bottom plate is fitted with strainers/pipes. There will be Arrangement inside the vessel to distribute water properly on the bed of media. Different operations like service, Back wash, Rinsing etc will be done with the help of

Multiport valve or multivalve arrangement. Inlet & outlet pressure gauges indicate the efficiency of system.

ACTIVATED CARBON UNIT :- This is vertical vessel filled with the required quantity of activated carbon. The bottom plate is fitted with strainers/pipe. There will be arrangement inside the vessel to distribute water properly on the bed of carbon . Different operations like service ,Back wash, Rinsing etc will be done with the help of multiport valve or multivalve arrangement. Inlet & outlet pressure gauges indicate the efficiency of system.

TREATED WATER STORAGE TANK :-

Here finally treated water is collected & the same water is pumped as per requirement i,e for Gardening & Flushing.

SLUDGE DRYING BEDS :-

Here the excess sludge from MBBR TANK, SECONDARY SETTLING TANK, Backwash water of pressure sand filter and Activated Carbon Filter will be transferred. The overflow of SDB will be collected to Equalization cum collection tank to make the whole system as ZERO DISCHARGE Further the available sludge from the sludge Drying Beds will be used as Manure.

PROCESS :-

PRIMARY TREATMENT :-

The sewage water is passed through bar screen followed by Oil Removal System & collected to Equalization cum collection Tank. Fine bubble air diffusers are fitted on the bottom to mix the water properly. It also affect BOD / COD. Auto Dosers to dose certain chemicals like Alum, and caustic are installed here.

SECONDARY TREATMENT :-

The water from equalization tank will be pumped to MBBR Tank where specified quantity of Bio Media is filled to increase surface area & results to develop bio culture. The bottom of this system is equipped with fine air bubble diffusers to enhance oxygen for bio culture. The over flow of MBBR will be transferred to secondary settling tank by gravity .SST is also filled with PVC tube media to provide effective removal of excess sludge & suspended impurities

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TERTIARY TREATMENT :-

Now the overflow of SST will be transferred to CLEAR WATER TANK/FILTER FEED TANK which is equipped with Auto Doser to dose sodium Hypo chlorite .

This disinfected water will be pumped to Multi Grade Sand Filter & Activated carbon Plant for further removal of suspended & microbiological impurities.

Now this water is ready to be used as per requirement.

TECHNICAL DETAILS OF THE PROPOSED STP:

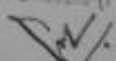
Total flow = 17000 Ltr / Day.
Flow rate = 2500 Ltr./hrs (max)

Domestic Sewage from Housing Colony.		
pH	:	6.5 - 8
S Solids	:	250 - 350 Mg/L
BOD	:	250 - 400 Mg/L
COD	:	Up-to 450 Mg/L
Oil & Grease	:	50 Mg/L

Treated Water Quality		
pH	:	6.5 - 8.5
S Solids	:	Less Than 20 Mg/L
BOD	:	Less Than 30 Mg/L
COD	:	Less Than 110 Mg/L
Oil & Grease	:	Less Than 1 Mg/L

Mono Block Pump		
Location	:	Equalizing Tank
Quantity	:	1 No.
Capacity	:	3 m ³ / hrs
Head	:	12 - 15 mtr
Solid handling cap.	:	Min. 28 mm
Make	:	Kirloskar / Lubi / Eqv.

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Air Blower

Location	:	Near Eq. Tank and MBBR Tank
Quantity	:	1 Nos
Capacity	:	Inside Plant Submersible
Pressure	:	0.5 Kg/cm ²
Make	:	CRI

Filter Feed Pump

Location	:	Near Clear/Filter Feed tank
Type	:	Centrifugal Transfer pump
Capacity	:	3 m ³ /hrs
Head	:	30-35 Mtr
Quantity	:	1 No
Make	:	Kirloskar

Multigrade Pressure Sand Filter & Activated Carbon

Location	:	Near Clear/Filter Feed tank
Quantity	:	1 No
Capacity	:	3 m ³ /hrs
Size of Filter	:	600 mm X 1200 mm High
Make	:	LIECL

BAR SCREEN

Location	:	Near Equilisation Tank
Quantity	:	1 No
Capacity	:	For 10 m ³ /hrs
Size of Filter	:	0.5 mtr X 0.5mtr X 0.5 mtr
Make	:	LIECL

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ANNEXURE - A

MECHANICAL EQUIPMENT FOR ADVANCE MBBR MODULAR TECHNOLOGY

Sr No	Description Of Item	SIZE	Qty.	MOC
1.	Rotary Type air Blower	Submersible	01	Vinayaka/ std
2.	Equalization pump	3 m ³ / hrs 12-15 Head	01	Kirloskar/ taxmo/std
3.	Dosing systems for chemicals	0.5 LPH	01	LMI/std
4.	Pressure feed pump	5 m ³ / hrs 30-35 Head	02	Kirloskar/ taxmo/std
5.	Multi Grade Sand Filter with All attachments	600x 1200mm HOS	01	LIECL MS
6.	Interconnecting pipes & Fitting of all tanks	SUITABLE	01 Lot	ISI PIPES
7.	PVC/UPVC Pipe line drainage of WTP & others	As SUITABLE SIZE	1Lot	Std
8.	Electric wire / Panel	AS REQUIRED & Standard Make Items	01 Lot	Std

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OTHER MECHANICAL ITEMS:-

- | | |
|--|-------|
| 1. Primary settling tank (M.S. FRP) - | 1 No. |
| 2. Aeration Tank (M.S.FRP) - | 1 No |
| 3. Secondary Settling Tank (M.S. FRP) - | 1 No |

Price: - ~~2.75 Lacs (Rs. Two Lacs and Seventy-Five Thousand Only)~~

(RS 2.65 LACS Inclusive all the taxes)

Terms and condition:

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Payment: 60% value of the equipments in advance along with the order & 35% against Performa Invoice before dispatched, 5% after completion of work.

SALES TAX: Sales tax or commercial tax will be charged extra as applicable at the time of delivery at present commercial tax will be 15 %.

TRANSPORTATION - Extra as actual

DELIVERY: The delivery will be made within 4 - 8 weeks from the date of receipt of technically cleared and firmed order along with advance payment.

VALIDITY: Our offer will remain valid for a period of 30 days from the date of this quotation and is subject to confirmation thereafter.

GUARANTEE: The equipment offered carries the manufacturers guarantee. This guarantee will be valid for a period of 12 months and will commence from the date of dispatch of the equipment.

EXCLUSION:

1. Civil Plat form to install plant (L15 Ft *W 6 Ft * H 6 Inch)
2. Sludge Bed (Brick work will be done by client) (2000 Cap. In ltr.)
3. Treated Water Tank
4. Septic tank
5. Pipe work for septic tank.

For Lal Ion Exchange & Chemical (p) Ltd.

Lal Ion Exchange and Chemicals (P) Ltd.
R.K. Ravi
M.D.
9300814112
Authorised Signatory

Lal Ion Exchange and Chemicals (P) Ltd.
Authorised Signatory

G.L. Harode
9826681939

Certificate of Membership

Date : .03/.05/2022..

This is to certify that M/s *Mansarovar Dental College (Sri Sai Gramathan samiti), Bhoapl*
has completed formalities for taking membership of Unique Eco Recycle. We are pleased
to acknowledge your Membership No. *uer/xen/E-waste/C-143/2022.....*

Now you are liable to give e-waste to our company as per schedule plan. Your membership
comes in effect from *.01/05/2022 and exipre.31/04/2025..*

Membership is granted for disposed off e-waste in scientific and eco friendly manner.



For UNIQUE ECO RECYCLE

A handwritten signature in black ink, appearing to read "Pravin", written over a horizontal line.

Authorised Signatory



INDIA WASTE MANAGEMENT PVT. LTD.

(CIN : U37200MP2015PTC034692)

Regd. office : A-14, Janki Nagar, Chuna Bhati Bhopal (M.P.) 462016

Regd. Plant Add. : Plot No. E-3 New Industrial Area Phase-2 (Ward-14) Mandideep, District-Raisen (M.P.)

Mob.: 9926909297, E-mail : indiawastemanagement@outlook.com

GSTIN : 23AADC19166K1Z9

CERTIFICATE

This is to certify that **India Waste Management Pvt. Ltd.** is running a Common Bio-Medical Waste Treatment Facility (CBWTF). Which is authorized by M.P. Pollution Control Board as "CBWTF".

Further certified that India Waste Management Pvt. Ltd. has entered into an agreement with **Mansarovar Dental College**
Ward No. 84, Rani Awanti Marg, Kolar Road, Bhopal

for Collection, Transport, Storage, Treatment & Final disposal of Bio-Medical Waste of the above institution.

This agreement is valid :

For 250 Chair

From 01 August 2022 to 31 March 2023

This certificate is given, to enable the institution, to apply for Fresh / Renewal of authorisation under Bio-medical Waste Rules 2016.

This Certificate No.

755

Expires on **31 March 2023**

Authorized Signatory