JaiDurga Envirocare Private Limited

www.jaidurgaenviro.in

JaiDurga Envirocare

Private Limited

VERITAS ASSURANCE

CERTIFICATE

OF REGISTRATION

This is to certify that the Management System of

Jai Durga Envirocare Private Limited

No: 732, G Block, 2nd Street, 11th Main Road, Anna Nagar, Chennai – 600 040,
Tamil Nadu, India.

has been assessed and registered by Veritas Assurance International
as conforming to the requirements of

ISO 9001:2015

Quality Management System

The Quality Management System is applicable to:

- **Supply, Construction, Commissioning, Operation and Maintenance of Effluent, Sewage and Water Treatment Plants.**
- **Supply and Commissioning of Multi Effect Thermal Evaporation System, Electrical Evaporation System, Mechanical Vapour Re-Compression Evaporation System, Accelerated Evaporation System, Zero Liquid Discharge Treatment System, Waste Water Evaporation System, Bio-Medical Waste and Organic Waste Shredder, Bio-Medical Waste Sterilize Autoclave, Bio-Medical Waste, Organic Waste and Poultry Waste Incinerator, Wet Scrubbers and Air Pollution Control Equipments etc.**
- **Solid Waste Management Services.**
- **Pollution Control Board Liassoning Works.**
- **Sewage Treatment Bio-Culture Manufacturing.**
- **Environmental Engineering Services.**

Certificate No : 321182060

Certificate issue date : 18-09-2021 | Certificate expiry date : 17-09-2022

Upon successful completion of next continuous surveillance the certificate will be reissued with an extended validity to a full three year cycle from the original issue date

UNITED ACCREDITATION FOUNDATION UAF

CB-MS-3414

UAF is a Member of IAF

Authorised Signatory
Veritas Assurance International
Accredited by : UAF (United Accreditation Foundation)
Member of IAF (International Accreditation Forum)

Registered Accreditation Office:
400 North Center DR. STE 202, Norfolk, VA 23502,
United States of America (USA)

www.veritasassurance.com

FSC www.fsc.org MIX From responsible sources FSC® C118414

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VERITAS ASSURANCE INTERNATIONAL

VERITAS

CERTIFICATE

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No: 732, G Block, 2nd Street, 11th Main Road, Anna Nagar, Chennai – 600 040,
Tamil Nadu, India.

has been assessed and registered by Veritas Assurance International
as conforming to the requirements of

ISO 14001:2015

Environmental Management System

The Environmental Management System is applicable to:

- **Supply, Construction, Commissioning, Operation and Maintenance of Effluent, Sewage and Water Treatment Plants.**
- **Supply and Commissioning of Multi Effect Thermal Evaporation System, Electrical Evaporation System, Mechanical Vapour Re-Compression Evaporation System, Accelerated Evaporation System, Zero Liquid Discharge Treatment System, Waste Water Evaporation System, Bio-Medical Waste and Organic Waste Shredder, Bio-Medical Waste Sterilize Autoclave, Bio-Medical Waste, Organic Waste and Poultry Waste Incinerator, Organic Waste Composter, Wet Scrubbers and Air Pollution Control Equipments etc.**
- **Solid Waste Management Services.**
- **Pollution Control Board Liassoning Works.**
- **Sewage Treatment Bio-Culture Manufacturing.**
- **Environmental Engineering Services.**

Certificate No : 321182147

Certificate issue date : 03-11-2021 | Certificate expiry date : 02-11-2022

Upon successful completion of next continuous surveillance the certificate will be reissued with an extended validity to a full three year cycle from the original issue date

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रिचर्डसन एण्ड
क्रुडास (1972) लिमिटेड
(भारत सरकार का उपक्रम)
इंजिनियर्स
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स्थदशा
ESTD.1858

Richardson &
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ENGINEERS
69-D, 12th Street, SIDCO INDUSTRIAL ESTATE,
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Website : www.richardsoncruddas.com
CIN : U28920MH1973GOI016389

GOLD MEDAL CERTIFICATE

Awarded to

M/s. JAIDURGA ENVIROCARE PRIVATE LIMITED

for

EXCELLENT ETP, STP, WTP, ZERO LIQUID DISCHARGE TREATMENT PLANT
REGISTERED CONTRACTOR AND ENVIRONMENTAL ENGINEERING SERVICE PROVIDER

E. BALAKRISHNAIAH,
B.Tech. Civil, M.E. Env. Engg., M.I.E.,
UNIT HEAD

Date : 24-03-2019

मुलुण्ड
एल.पी. शास्त्री मार्ग
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Website : www.richardsoncruddas.com
CIN : U28920MH1973GOI016389

Ref : R&C/2019-2020

Date : 24.05.2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. JAIDURGA ENVIROCARE PRIVATE LIMITED., Chennai - 600 040 (Previously known as Ultrasafe Environment Services Private Limited., from 2002) one of the registered class-1 contractor of our company, of Public Health Engineering and Environmental Engineering Projects and have carried out the following works for our various clients in all over India.

- ★ Zero Liquid Discharge System manufacturing, supply, commissioning operation & maintenance and existing ZLD Re-modification.
- ★ Design , construction , supply , commissioning , operation & Maintenance for ETP, STP , WTP , Ultra Filtration systems, RO systems, DM Plants, Multistage Thermal Evaporator system etc.,
- ★ Environmental monitoring & baseline environmental data generation for the parameters Ambient air quality as per NAAQ standards, Stack emission, Noise level survey, Ground & Surface water, ETP/STP samples, Soil & Sludge samples etc.,
- ★ EIA/EMP studies for various projects covering all parameters including Flora & Fauna survey and social - economic studies.
- ★ Civil & Structural works
- ★ Pollution Control Board Liasoning works etc.,

They have completed all the above works with good quality, maintaining the delivery commitments and also upto our satisfaction. They are capable of carrying out the above works for more than Rs. 50 Crores.

Their commitment to the project activities is exemplary and dedicated.

WE WISH THEM ALL SUCCESS IN THEIR FUTURE PROJECTS.

For RICHARDSON & CRUDDAS (1972) LTD.,

E. BALAKRISHNAIAH
Unit Incharge

मुलुण्ड
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Website : www.richardsoncruddas.com
CIN : U28920MH1973GOI016389

EELAB/WO/UWSS-KERALA/1999-2000 DATE : 15.06.1999

WORK COMPLETION CERTIFICATE

This is to certify that **Mr.S.Barathimohan**, Technical Advisor, Chennai have Design, Construction works executed the **12MLD Water Treatment Plant project at Killikkal for UWSS Project, Kerala**. He had completed all the above works with good quality maintaining the delivery commitment and also up to our satisfaction.

His commitment to the project activities is exemplary and dedicated.

WE WISH HIM ALL SUCCESS IN HIS FUTURE PROJECTS.

Thanking you,

For RICHARDSON & CRUDDAS (1972) LTD.,

E. BALAKRISHNAIAH
Unit Incharge

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Website : www.richardsoncruddas.com
CIN : U28920MH1973GO1016389

EELAB/WO/CMWSSB-REDHILLS/2000-2001 DATE : 06.09.2001

WORK COMPLETION CERTIFICATE

This is to certify that **Mr.S.Barathimohan**, Technical Advisor were entrusted the **Chennai Metropolitan Water Supply and Sewage Board (CMWSSB) - 300MLD water works at Redhills project**. His work includes Technical Consultation for Operation and Maintenance Execution and water quality monitoring. We are very happy to record that **Mr.S.Barathimohan** , Technical Advisor have successfully completed the above work and the quality of treated water meets the drinking water standards.

However, this completion certificate issued for the completion of following works

Technical consultation to **CMWSSB 300MLD WTP works, Redhills** for the Operation and Maintenance, Execution, Water quality, Monitoring.

Thanking you,

For RICHARDSON & CRUDDAS (1972) LTD.,
E. BALAKRISHNAIAH
Unit Incharge

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CIN : U28920MH1973GO1016389

EELAB/WO/WTP-GJ/2001-2002 DATE : 24.01.2002

WORK COMPLETION CERTIFICATE

This is to certify that **Mr.S.Barathimohan**, Technical Advisor, Chennai have Design, Construction works executed the **30MLD Water Treatment plant project at Zanore Village, Gujarat**. He had completed all the above works with good quality maintaining the delivery commitment and also up to our satisfaction.

His commitment to the project activities is exemplary and dedicated.

WE WISH HIM ALL SUCCESS IN HIS FUTURE PROJECTS.

Thanking you,

For RICHARDSON & CRUDDAS (1972) LTD.,
E. BALAKRISHNAIAH
Unit Incharge

मुलुण्ड
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6258276, 6258314, 6254464, 6356024,
6254986, 6255856.
फैक्स : 91-044-6258295 टेलिग्राम : आईरनवर्क्स
ई-मैल : r_cruddas@hotmail.com.

आर एण्ड सी
R & C
स्थापना 1858
ESTD. 1858
ISO 9001 CO.,

ISO 9001 Registered company
Certificate No. 01/043/J

Richardson &
Cruddas (1972) Ltd.
(A Government of India Undertaking)
A Subsidiary of Bharat Yantra Nigam Ltd.
ENGINEERS
69-B, 69-D, 69-E, SIDCO INDUSTRIAL ESTATE,
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6254986, 6255856.
Fax : 91-044-6258295 Grams : IRONWORKS
E-mail : r_cruddas@hotmail.com.

Our Ref: PHE/502/05

Date: 9th Dec. 2004

WORK ORDER

M/s. Ultra Safe Environment Services Private Ltd.,
No.275, 11th Street
Korattur
Chennai 600080

Kind Attn: Mr.S.Barathi Mohan
Managing Director

Dear Sir

Sub: Operation and Maintenance of Sewage Treatment Plant and Effluent Treatment Plant & DM & RDM Water Plant at BDL, Bhanur
Ref: Our Tender Enq.No: PHE/501/05 & PHE/502/05 dated 12.10.2004
Your Offer Letter dated 27.10.2004 and 30.10.2004

With reference to your quotation submitted for our above mentioned Tender on the subject matter, we are pleased to place this Work Order on you for a total value **of Rs.14,40,000/-** (Rupees Fourteen Lakhs Forty Thousand only) for one year period as per Technical Specifications, special conditions etc., mentioned in the Tender Schedule.

All the Tender documents including NIT, your quotation, special terms and conditions of the contract specification, general description of the works, subsequent negotiations and all other correspondence connected with this tender shall form part of this Work Order.

Terms & Conditions:

1. The entire work shall be carried out under the supervision of our site engineer / BDL Engineers who may be consulted for commencement / execution of work and any other assistance that you may require.
2. The Contractor has to operate the Sewage Treatment Plant in Three Shifts with their staff in addition to the Working Staff. One Engineer and One Chemist shall be deployed which will be common for ETP & STP.

Contd..2

रिचर्डसन एण्ड
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CIN : U28920MH1973GOI016389

EELAB/WO/STP-SAIL-SALEM/2015-2016 DATE : 06.12.2016

WORK COMPLETION CERTIFICATE

This is to certify that **M/s. ULTRASAFE ENVIRONMENT SERVICES PRIVATE LIMITED**, Chennai have Design, Construction work executed the **1MLD Sewage Treatment Plant project at STEEL AUTHORITY OF INDIA, Salem**. They have completed all the above works with good quality maintaining the delivery commitment and also up to our satisfaction.

His commitment to the project activities is exemplary and dedicated.

WE WISH HIM ALL SUCCESS IN HIS FUTURE PROJECTS.

Thanking you,

For RICHARDSON & CRUDDAS (1972) LTD,

E. BALAKRISHNAIAH
Unit Incharge

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Phone: 022-25611973

पंजीकृत एवं मुख्यालय
भायखला आईरन वर्क्स
सर. जेजे.रोड
मुम्बई - 400 008.
फैक्स : 022-23794003
फोन : 022-23283301

Regd. & Head Office :
Byculla Iron Works
Sir. J.J. Road,
Mumbai - 400 008.
Fax: 022-23794003
Phone : 022-23283301/2/3

नागपूर
F3, एम.आई.डी.सी इंडस्ट्रियल एस्टेट
हिंगाना रोड,
नागपूर - 440 016.
फैक्स : 07104-237693
फोन : 07104-237061

Nagpur
F3, MIDC Industrial Estate.
Hingna Road,
Nagpur - 440 016.
Fax: 07104-237693
Phone: 07104-237061

रिचर्डसन एण्ड
क्रुडास (1972) लिमिटेड
(भारत सरकार का उपक्रम)
इंजिनियर्स
69-बी, 12वाँ स्ट्रीट, सिडको इन्डस्ट्रियल एस्टेट
अम्बत्तूर, चेन्नै - 600 098.
फोन: 044-26254111, 26255856
टेलिग्राम : आईरनवर्क्स
ई-मैल: randcaccnts@gmail.com
richardsoncruddaschennai@yahoo.com
वेबसाईट: www.richardsoncruddas.com

स्थदशा
ESTD.1858

Richardson &
Cruddas (1972) Ltd.
(A Government of India Undertaking)
ENGINEERS
69-D, 12th Street, SIDCO INDUSTRIAL ESTATE,
AMBATTUR, CHENNAI - 600 098.
Phone : 044-26254111, 26255856
Grams : IRONWORKS
E-mail : randcaccnts@gmail.com
richardsoncruddaschennai@yahoo.com
Website : www.richardsoncruddas.com
CIN : U28920MH1973GOI016389

EE.LAB/WCC/CO/JD/2019-20 23-08-2019

WORK COMPLETION CERTIFICATE

This to certify that M/s. JAIDURGA ENVIROCARE PRIVATE LIMITED, Chennai, has successfully completed the Design, Supply of SS Pre-Fabricated Effluent Treatment Plant, Capacity - 230KLD/ Ultra Filtration System, Capacity - 200KLD/ Reverse Osmosis System, Capacity - 200KLD/ Multi Stage Thermal Evaporator, Capacity -60KLD.

These above Plants were supplied in Good Quality and in expected time.

Thanking You,

For RICHARDSON & CRUDDAS (1972) LTD.

E. BALAKRISHNAIAH
Unit Incharge

Kovai Pazhamudir Nilayam
SINCE 1965

M/s. JAIDURGA ENVIROCARE PRIVATE LIMITED
732, G-BLOCK, 2ND STREET,
11TH MAIN ROAD, ANNA NAGAR,
CHENNAI - 600 040.

Date: 06.10.2020

WORK COMPLETION CERTIFICATE

This is to certify that M/s. JAIDURGA ENVIROCARE PRIVATE LIMITED, Chennai, have successfully completed the Design, supply, construction, commissioning and performance studies of Sewage Treatment Plant, Capacity - 150KLD. The above work performance is excellent.

For KPN FARM FRESH PVT. LTD.,

Authorized signatory

KPN Farm Fresh Pvt Ltd.,

Corp Off : 107, Chettiyar Agaram Street, Noombal village, Vanagaram, Chennai - 77,
Reg Off : Kovai Pazhamudir Nilayam, K.G. Square Building, 33, V.K.Iyer Road, R.A. Puram, Chennai - 28
Tel : 044 - 26492844. Web : www.kovaipazhamudhir.com

INTEGRAL COACH FACTORY, CHENNAI-38.

Office of the AWM/Shell
Dt: 24/11/20.

No.S15/Contract/2020

WORK COMPLETION CERTIFICATE

This is to certify that M/s Jaidurga Envirocare Pvt. Ltd., having their office located at No.732, G-Block, 2nd st, 11th main road, Anna nagar, Chennai-600 040 engaged in quotation contract work of supply of chemicals (Hydrated lime, sodium hydroxide & Poly Electrolyte) and treatability studies and analysis in ETP plant of Shop-15 at ICF have completed all works on 22/09/20

The contract has been completed in all respects and that all the contractual obligations have been fulfilled by the contractor and that there is no due from the contractor to Railways against the contract concerned.

Senior Scientific Engineer / Shop 15 / Shell
सवारी डिब्बा कारखाना
Integral Coach Factory
Pin - Chennai - 600 038

SSE/Shop-15

AWM/Shell-II

सहायक कर्मशाला प्रबंधक / शेल
Asst. Works Manager / Shell
सवारी डिब्बा कारखाना, चेन्नै-38.
INTEGRAL COACH FACTORY, CHENNAI 38

No.S/15/Contract file/2020 dt. 05/03/2020

JaiDurga Envirocare Private Limited

The JAIDURGA ENVIROCARE PRIVATE LIMITED (previously known as Ultrasafe Environment Services Pvt. Ltd.) is ISO 9001:2015 & ISO 14001:2015 Certified company and gold medal award winner from M/s. RICHARDSON & CRUDDAS (1972) LIMITED (a government of India undertaking) and is one of the leading Global standard water purification, Industrial Effluent, Sewage treatment and re-cycling and Environmental Pollution Control Company in India. The Company was established in 2002 with an objective of providing total solution for Environmental pollution Controls. We have completed more than 500 projects all over India.

The Company entered into MOU with M/s. RICHARDSON & CRUDDAS (1972) LIMITED, (A Government of India undertaking) for Supply, Construction, Commissioning, Operation and Maintenance of Water Treatment Plant(WTP), Automatic & Semi-Automatic Effluent Treatment Plant (ETP), Automatic Zero Liquid Discharge ETP, Common ETP & STP, Automatic & Semi-Automatic Sewage Treatment Plant (STP), Automatic e-STP, Automatic Pre-Filtration System, Ultra Filtration System, Membrane Bio Re-actor (MBR), Industrial Reverse Osmosis System, Automatic De-ionization system, Automatic Multistage Thermal Evaporator with ATFD, Mechanical Vapour Re-compression Evaporation System (MVRE), Waste Water Evaporator, Electrical Evaporator, Pan Evaporator, Solar power waste water Evaporation System, Kettle Type Multistage Thermal Evaporator, Agitated Thin Film Dryer(ATFD) besides Environmental data generation monitoring and pollution control services.

The Company is involved in obtaining consent to establish, consent to operate for the industrial category and commercial ventures. Also the company is competent to obtain approval from Pollution Control Board for e- waste and hazardous waste authorization etc., We also handle the issue of solid waste management.

The core activity of our company includes regular Environment Impact Assessment (EIA) and Environmental Management Plan (EMP) studies, We are pioneer in setting up advanced global system for MICRO ALGAE BASED ECO-FRIENDLY CHEMICAL FREE AND VERY LOW POWER CONSUMPTION ZERO LIQUID DISCHARGE SYSTEM FOR RE-CYCLING ETP WITH HIGH TDS WATER ECO-FRIENDLY MICRO-ALGAE BASED EVAPORATOR AND MICRO-ALGAE BASED STP, Industrial Effluent, Sewage and Water treatment plants like ZLD system, Automatic & Semi-Automatic Pre-Filtration system, Ultra Filtration system, Industrial Reverse Osmosis system, Electro De-ionization EDI system, Industrial De-Mineralization plant, Membrane Bio Re-actor, Moving Bed Bio-Film Re-actor, Sequencial Batch Re-actor (SBR), Fluidized Bed Bio Re-actor(FBBR) based Sewage Treatment Plant, Multistage Thermal Evaporator, Mechanical Vapour Recompression Evaporation System (MVRE), Waste Water Evaporator, Waste water Electrical Evaporator, Solar Power Evaporation System, Pan Evaporator, Solar Power Steam Evaporator, Agitated Thin Film Dryer, Accelerated Evaporation system, Online Effluent Monitoring System, Online Stack and Ambient Air quality monitoring system, Bio-Gas Fired Boiler with Evaporation system, Bio-Gas Fired Multi Stage Solid waste incinerator, Waste to Renewable Energy conversion projects etc.,

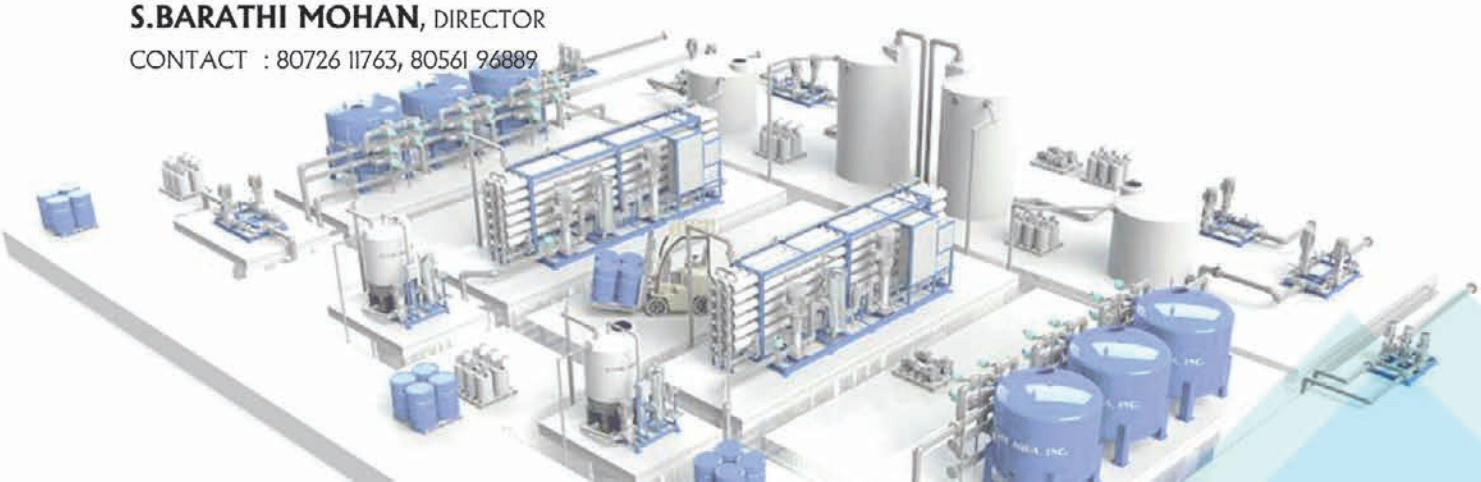
Our design and erection of plant will follow the different parameter as per design to maintain

Zero ppm and Zero Liquid Discharge which meet Environmental norms.

JAIDURGA ENVIROCARE PRIVATE LIMITED., offering globally available most advanced products and process supported by the world renowned technologies.

S.BARATHI MOHAN, DIRECTOR

CONTACT : 80726 11763, 80561 96889



DEFINITION OF ALGAE TECHNOLOGY

The effluent becomes raw material when using Algae to the effluent, so we now call the ETP as PRODUCTION UNIT-2 in our Industrial premises.

HOW THE POLLUTANTS IN THE EFFLUENT IS CONVERTED IN TO BENEFITICIAL RAW MATERIALS

By adding required amount of Algae to the effluent the pollutants are converted in to raw materials like Bio-Fertilizers, Aqua culture feed, Bio-Compost etc., and the water gets evaporated and there is no formation of sludge and now your premises becomes Zero Disposal company. We can also earn lot of money from this waste, that's why we call this Algae technology based ETP as Production unit-2 in our Industrial premises.

ADVANTAGE OF ALGAE TECHNOLOGY

By using Algae Technology in ETP/STP,

- We did not produce any waste and so that no sludge is formed or stored in our premises, Now we are Solid Waste Storage free zone.
- Power consumption will be very less (1KW power will be required for treating 5m3), instead we can also use solar panel so now it will become completely green environment.
- In leather and textile industry, the major problem is RO Reject where they have zero liquid discharge system for cleaning the waste water but when comes to re-cycling , the RO reject contains very high salt ie 30,000 to 40,000mg/l which is very toxic, So we normally use MEE (Multi-Effect Evaporator) recommended by Pollution Control Board, which is very expensive, highly energy intensive and it ends up with production of huge solid waste, that is very difficult to manage and in this case we can use this Algae technology we can easily convert this RO Reject as Zero Liquid Discharge System. By using this Algae technology we can minimize or reduce or completely avoid the sludge and we can evaporate the entire water and so we can manage the R.O reject easily without using MEE.
- We by using Algae technology we can now replace the MEE.
- Algae technology do not need much space compare with solar pond.
- Algae technology is very faster, they are robust, effective and highly adaptive.
- In summer, the Evaporation rate will be very high, in winter the evaporation rate will be moderate, eventhough the water will gets evaporated in atmosphere without LED light, it is optional, to increase the evaporation rate we can use Waterproof LED light inside the evaporation pond and we can run the evaporator for 24hours.
- If we compare the Algae technology with regular conversion technology, We can reduce 90% Of operation cost because we do not use those chemicals which we normally add to rise and reduce the pH and in every step we add chemicals, by using this algae technology we can avoid using all chemicals, correct the pH without chemical, remove the sludge without chemical and also remove the colour, odour, de-toxify and do everything without adding chemical. if we don't use chemical we can save lot of money.
- In Algae technology, the equipment is not highly sophisticated and it is cheap, the constructive material will also available locally and maintenance is very low.

JAIDURGA ENVIROCARE PRIVATE LIMITED

Can the conventional STPs be improved through algae intervention?

A sewage treatment plant ("STP") has to handle the designed quantity of sewage and deliver satisfactory quality of treated water, on a consistent, sustained basis over typically 10-15 years. This requires proper design and engineering; followed by proper operation and maintenance throughout its life. There are as many variations in the design and engineering of an STP as there are permutations and combinations of Builders/ developers, architects, Utility Consultants, Vendors. Conceptually, the process is extremely simple: A small amount of microorganisms converts a large mass of polluted water into clean water. This process also produces a co-product: A vastly reduced, compact solid biomass (the excess microorganisms produced by growth and multiplication of the original population of microorganisms).

We need an STP that

1. Achieves the desired results on a consistent and sustained basis
2. Is robust and reliable, and lasts for at least 10-15 years without major repairs
3. Needs minimum amounts of money, energy and chemicals to achieve the desired treated water Quality
4. Is easy to operate and maintain.

Benefits of a well-run STP

The primary benefits of a well-run STP are

1. Assured availability of water for various secondary uses
2. Enormous savings in fresh water costs
3. Lesser Environmental Degradation
4. Improved public Health

Parameters

Odour, BOD, COD , N and P and coliform bacteria and other harmful chemicals are to be reduced to desirable limits.

A typical STP should have the following components:

JaiDurga Envirocare Private Limited

Algae Intervention

We can improve the performance of a conventional STP by intervening with micro algae at Aeration Tank

SEWAGE TREATMENT PLANT - CONVENTIONAL

BAR SCREEN
EQUALIZATION
AERATION
SETTLING
BIO SLUDGE
GARDENING
FILTRATION
CHLORINATION → TO RE USE

SEWAGE TREATMENT PLANT - ALGAL

BAR SCREEN
EQUALIZATION
ALGAE TANK
AERATION NO NEED
SETTLING
ALGAE BIOMASS
USED TO BIO FERTILIZER, AQUA CULTURE FEED, BIO FUEL
FILTRATION
CHLORINATION → TO RE USE

BENEFITS

- Air blower not required
- Power consumption is very low
- Assured availability of water for various secondary uses
- Enormous savings in fresh water cost
- Lessor environmental degradation
- Improve public health

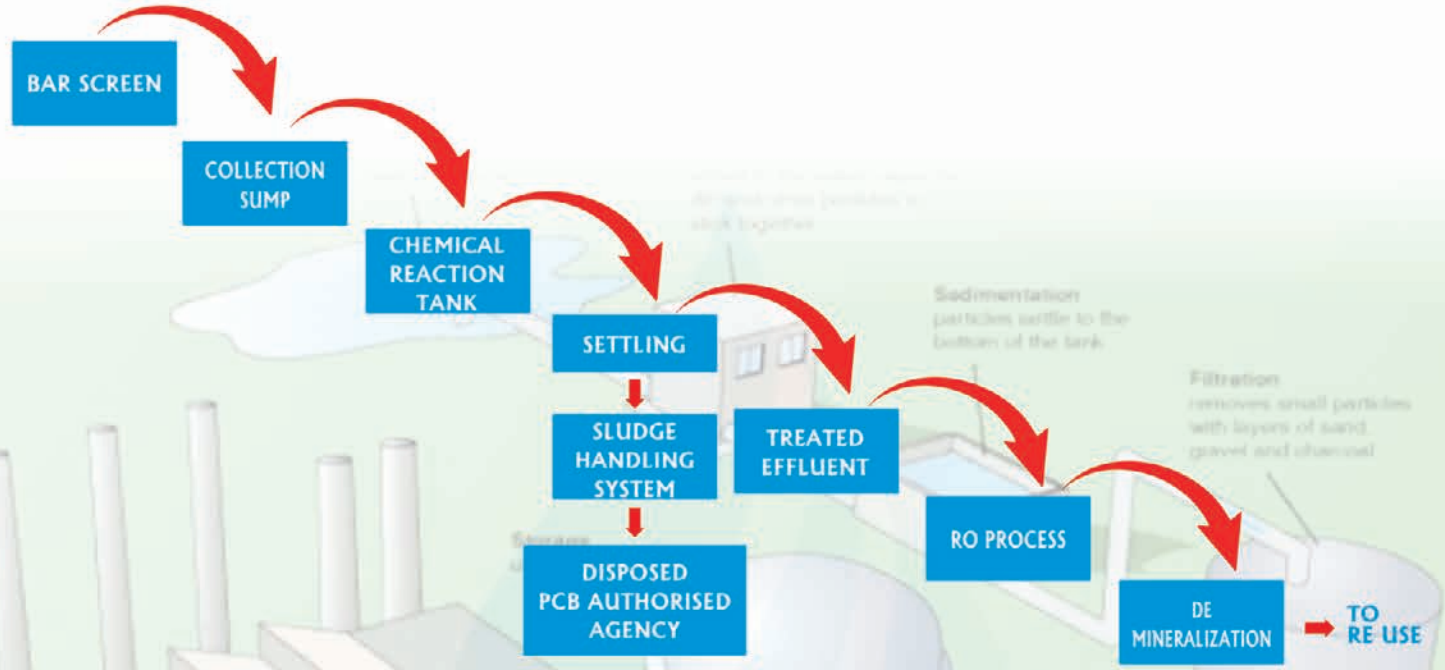
JaiDurga Envirocare Private Limited, Chennai has developed a micro algae intervention technology which works perfectly to enhance the performance of STP. Sewage treatment using micro algae has been extensively worked out by Oswald and others from 1960s (Oswald and Gotaas, 1957; Benemann et al 1980). There is a symbiotic association between micro algae and bacteria in degrading organic pollutants and further mineralization resulting in a significant reduction in the majority of critical parameters like odour, colour, total dissolved solids, biological oxygen demand, chemical oxygen demand and sludge.

JaiDurga Envirocare Private Limited

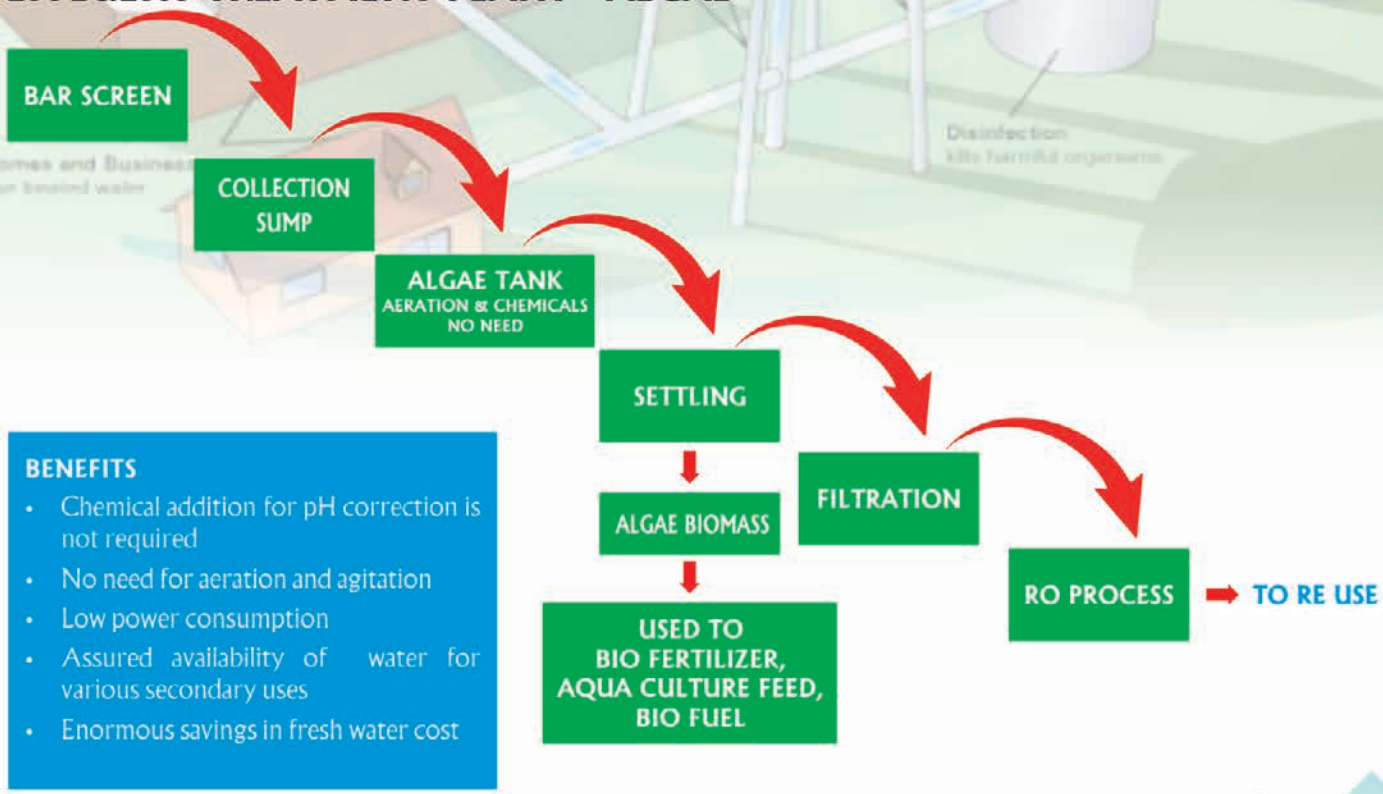
Algae Intervention

We can improve the performance of a conventional effluent by intervening with micro algae at reaction Tank

EFFLUENT TREATMENT PLANT - CONVENTIONAL



EFFLUENT TREATMENT PLANT - ALGAL



BENEFITS

- Chemical addition for pH correction is not required
- No need for aeration and agitation
- Low power consumption
- Assured availability of water for various secondary uses
- Enormous savings in fresh water cost

JaiDurga Envirocare
Private Limited

MICRO ALGAE TECHNOLOGY

- Algae effluent treatment plant
- Algae sewage treatment plant
- Algae zero liquid discharge system
- Algae lake restoration
- Algae river restoration

JaiDurga Envirocare
Private Limited

ALGAE ZERO LIQUID DISCHARGE SYSTEM

High TDS Water Natural Evaporation System

BENEFITS

- Power consumption is low
- No hazardous salt
- The evaporation unit will be convert into valuable bio product unit in our premises
- Evaporation will be continue throughout the day
- No fuel required
-

JaiDurga Envirocare Private Limited

ZERO LIQUID DISCHARGE [FULL SCALE] 30KLD

BEFORE	AFTER
+ 50KL HIGHLY ACIDIC AND HIGHLY TDS EFFLUENT GENERATION + EVAPORATION WITH 10300m^2 SOLAR POND AREA + INFLUENT TDS : 30000 - 35000PPM + SLUDGE GENERATION OF 1 - 1.5 TONS DAILY MAINLY IN ORGANIC + INFLENT p^H : 1.5 -1.6 + SPENDING OF Rs.46 LAKHS PER ANNUM FOR NEUTRALIZATION OF ACIDIC EFFLUENT	+ USE OF ALGAE TECHNOLOGY FOR 50KL INLET EFFLUENT + EVAPORATION AREA IS REDUCED TO 1875m^2 + TDS CONTROLS AND NEVER EXCEEDED OVER 6% + COMPLETE REMOVAL OF IN-ORGANIC SLUDGE + EFFLUENT IS NEUTRALIZED WITH ALGAE WITHOUT ADDING OF ANY CHEMICALS + COST SAVING OF Rs.46 LAKHS PER ANNUM + HARVESTED ALGAE CAN BE SOLD OUT AS A NUTRIENT AND FERTILIZER AND CAN GENERATE A PROFIT OF + Rs.90 LAKHS PER ANNUM + RAIN WATER HARVESTING AND ADDING SURPLUS WATER FOR 4 MONTH SUPPLY

COMPARISON OF ALGAE VS MEE

	ALGAE	MEE
CAPEX (EQUIPMENT + CIVIL)	Rs. 9 LAKH/m^3 (APPROX)	Rs.2.5 LAKH/m^3 (APPROX)
EVAPORATION	Rs.0.33LAKHS/m^3 /YEAR @Rs.100/m^3 /DAY	RS.3.3LAKH/m^3/YEAR @ Rs.1000/m^3/DAY
LAND	60m^2/m^3	NOT APPLICABLE
MAINTENANCE	REQUIRES MINOR MAINTENANCE	REQUIRES REGULAR MAINTENANCE
RAIN WATER HARVESTING @1m ANNUAL RAINFALL	SIMULTANEOUSLY RAIN WATER HARVESTING; TO PROVIDE SOURCE FOR 0.25m^3/m^3 OF EFFLUENT EVAPORATED	NOT APPLICABLE
SLUDGE FORMED	ALGAL SLUDGE FORMED CAN GIVE SIGNIFICANT BENEFITS TO CLIENTS	25.5 TONS OF SLUDGE FORMED PER m^3 PER ANNUM @ 35000PPM AND 50% SOLID CONTENT
CARBON	CONSUMES - 0.5kWh PER m^3 WILL SEQUESTER 7 TON OF CARBON PER m^3 ANNUALLY	WILL CONSUME 30KwH/m^3

JaiDurga Envirocare
Private Limited

AUTOMATIC PRESSURE SAND AND ACTIVATED CARBON FILTER

FEATURES

- Automatic / manual
- Easy maintenance

MATERIAL

- MS with rubber lining
- MS with FRP lining
- FRP
- SS-304
- SS-316

APPLICATION

- RO pretreatment

JaiDurga Envirocare
Private Limited

ULTRA FILTRATION SYSTEM

FEATURES

- Automatic
- Easy maintenance

APPLICATION

- RO pretreatment

JaiDurga Envirocare
Private Limited

INDUSTRIAL REVERSE OSMOSIS SYSTEM

FEATURES

- Automatic / maual
- Easy maintenance

APPLICATION

- Textile, Leather, Pharmaceuticals, Power, Chemical, Automotive Industries, etc.

DOMESTIC REVERSE OSMOSIS SYSTEM

FEATURES

- Automatic / mnaual
- Easy maintenance

APPLICATION

- House and corporate buildings, Hotels, Food and Beverage, Hospitals, School, College and University, IT Comapnies, Theme Park, etc.

JaiDurga Envirocare
Private Limited

INDUSTRIAL DE-MINERALIZATION PLANT

APPLICATION

- All metal finishing and other industries, etc.

MULTI EFFECT THERMAL EVAPORATOR

OTHER AVAILABLE EVAPORATOR

- MVRE
- Electrical Evaporator
- Kettle Evaporator
- Pan Evaporator

APPLICATION

- High TDS water evaporation
- ZLD

JaiDurga Envirocare
Private Limited

ACCELERATED EVAPORATION SYSTEM

APPLICATION

- High TDS water evaporation system

INDUSTRIAL STEAM BOILER

APPLICATION

- Evaporator steam feed

TYPES

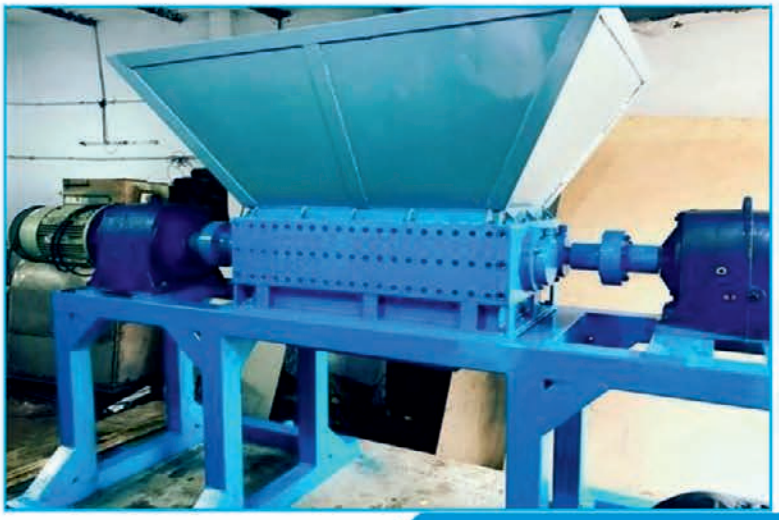
- Diesel, LPG, Furnace Oil, Wood, Coal Fired and Electrical Steam Boiler

JaiDurga Envirocare
Private Limited

CENTRIFUGE DECANTER

APPLICATION

- Organic and inorganic sludge de-watering



SHREDDER

APPLICATION

- Organic waste, In Organic Waste, Bio-Medical Waste, Textile Waste, Metal Shredding

JaiDurga Envirocare
Private Limited

BIOMEDICAL WASTE STERILIZER

APPLICATION

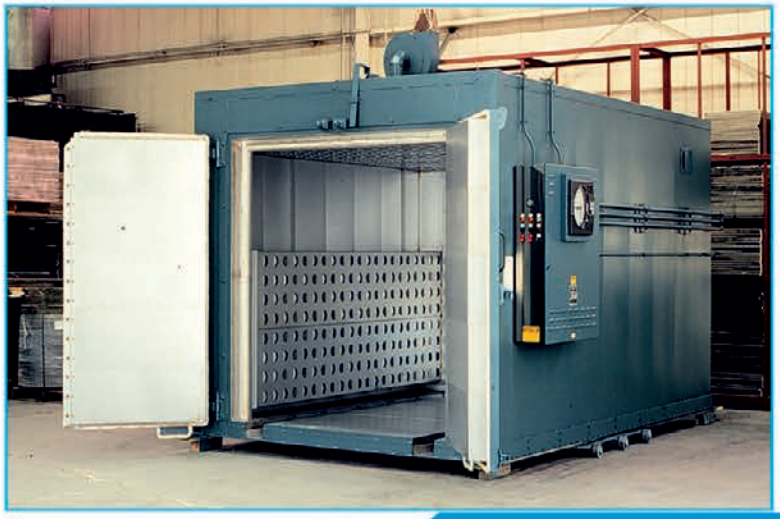
- Bio-medical waste sterlization

INCINERATOR

APPLICATION

- Farm waste
- Vegetable Waste
- Bio-Medical Waste
- Industrial Waste
- Chicken Waste Incineration

JaiDurga Envirocare
Private Limited



INDUSTRIAL OVEN

TYPE

- Industrial Electrical Oven
- Curing Oven
- Drying Oven
- Batch Oven
- Powder Curing Batch Oven
- Conveyor Oven
- Baking Oven

ORGANIC WASTE COMPOSTER

APPLICATION

- Organic Waste Compositing

JaiDurga Envirocare
Private Limited

WET SCRUBBER

APPLICATION

- Air Pollution Control

CHIMNEY STACK

APPLICATION

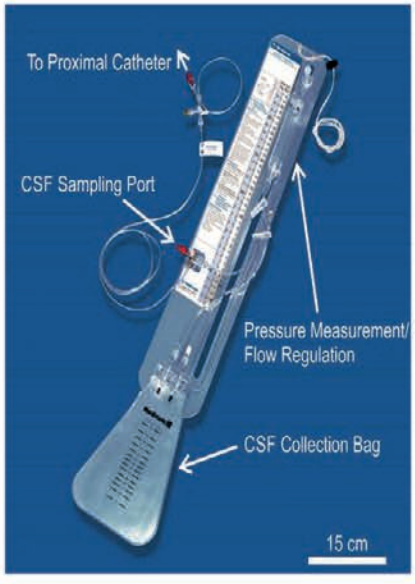
- Air Pollution Control

JaiDurga Envirocare
Private Limited

HYDROLOGY

Ground water level recorder

Continuous online effluent monitoring system



Drain monitoring device

JaiDurga Envirocare
Private Limited

METEROLOGY

Weather Monitoring System

AIR

Indoor Air Quality Monitor

Continuous Ambient Air Quality
Monitoring System

Continuous Emission
Monitoring System

JaiDurga Envirocare
Private Limited

Multi Gas Analyser

Flue Gas Analyser

Fine Particulate Sampler

JaiDurga Envirocare
Private Limited

Gaseous Sampling Attachment

High Volume Sampler

Portable Dust Monitor

JaiDurga Envirocare
Private Limited

Respirable Dust Sampler

Stack Sampler

Ben Zene Sampler

JaiDurga Envirocare
Private Limited

OTHER INSTRUMENTS

Noise Monitoring System

JaiDurga Envirocare Private Limited

ION EXCHANGE RESIN

FEATURES

- Ranks among the world's leading brands of ion exchange resin technology
- More than 3 decades of manufacturing experience
- WQAGold Seal certified softening resins
- Resins with consistently great performance and long life
- Technical support by expert staff

MATERIAL

- Polystyrene Di-vinyl Benzene
- Polyacrylic Di-vinyl Benzene
- Gel (Microporous)
- Macroporous
- Acrylic
- Inert

RANGE

- Uniform Particle Size
- Food Grade
- Selective Ion Removal resins
- Mixed Bed resins Polyacrylic resins
- Chelating resins
- Black Cation resins

APPLICATIONS

- Removal of Radioactive Isotopes from Aqueous Solutions
- Domestic & Industrial Water Softening
- Ultrapure- Semiconductor Industry
- Nitrate, Arsenic & Boron Removal
- Industrial Demineralization Condensate Polishing
- Organic Scavenger
- Brine Purification

JaiDurga Envirocare Private Limited

ACTIVATED CARBON

FEATURES

- Ideal Pore Structure with high surface area
- High Adsorption Capacity
- Low Ash Content Consistent
- Quality Superior Physical Stability
- Optimum mesh size
- Excellent chlorine and organic removal capacity
- All Product Confirm to AWWA B604-96 Standard 61

MATERIAL

- Virgin Coconut Shell
- Charcoal based
- Wood based

RANGE

- Iodine number: 600-1200
- Mesh Size: 4 X 8 to 80 X 325 (4 mesh to 200 mesh)
- Powder carbon with mesh size: below 325 mesh
- Water Washed Grade
- Acid Washed Grade
- Silver Impregnated

APPLICATIONS

- Color Removal in Bottled Water, Brewery, Juice & Soft Drink Industries
- Bacteriostatic (Bacteria Removal) Effluent
- Water Treatment
- Color & odour Removal
- Gas Treatment
- Gold Recovery
- Dechlorination

JaiDurga Envirocare
Private Limited

PROFESSIONAL INDUSTRIAL CARTRIDGE & BAG FILTER

FEATURES

- 100 % Virgin material
- Double O-ring
- Zero leak performance
- Filter with air release valve
- Back-washable filter with Polyester washable cartridge of 60 micron (included)
- Filter equipped with wall bracket
- Can be fitted with standard cartridge

MATERIAL

- Housing: Polypropylene
- O-ring: NBR/Silicon
- Backwashble filter: SAN
- Head and ring: Polypropylena

RANGE

- 10" x 2.5" Green Apple standard filter
- 20" x 2.5" Green Apple standard filter
- 10" x 4" Big Apple filter
- 20" x 4" Big Apple filter
- 10" x 4" Big Apple bag filter with/ without pressure gauge
- 20" x 4" Big Apple bag filter with/without pressure gauge
- Backwashable & bypass back washable filter

APPLICATIONS

- Water treatment plants
- Reverse Osmosis System
- Ultra Filtration System
- Liquid Filtration
- Industrial Filtration

JaiDurga Envirocare Private Limited

INDUSTRIAL FILTRATION SYSTEM

FEATURES

- Corrosion resistant FRP material which is superior to SS products
- Housing for 5 nos. cartridge elements
- 20", 30" & 40" Cartridge length
- Suitable for 5 Nos. 2.5" Dia cartridge
- Connection size: 1 1/2" NPT thread

MATERIAL

- Housing: Glass Reinforced Plastic (Fiber Glass)
- O-ring: NBR / Viton / Silicon
- End cap: PVC

RANGE

- Flow capacity upto 20m3/hr
- 20" x 2.5" Dia Cartridge Housing
- 30" x 2.5" Dia Cartridge Housing
- 40" x 2.5" Dia Cartridge Housing

APPLICATIONS

- Water treatment plants
- Reverse Osmosis System
- Ultra Filtration System
- Industrial Filtration

JaiDurga Envirocare
Private Limited

LARGE FLOW LIQUID FILTRATION SYSTEM

FEATURES

- Modular design
- 100% Non metallic material of construction
- Easy cartridge replacement
- Smaller footprint Fine filtration
- High flow cartridges

MATERIAL

- Housing: PVC
- Cartridge: PP Pleated Cartridge
- O-ring: EPDM / Silicon

RANGE

- Flow capacity: 10 m^3/hr to infinity (∞)
- Housing/Cartridge: 10",20",40" & 60"
- Filter precision: 1/5/10/20/50/100µ
- Maximum differential pressure: 2.5 bar
- Maximum operating pressure: 7 bar
- Test pressure: 10.5 bar

APPLICATIONS

- Sea water desalination system
- Water treatment system
- Sewage & Effluent treatment system
- Ultra filtration system
- Industrial filtration
- Aqua culture

JaiDurga Envirocare Private Limited

LARGE FLOW LIQUID FILTRATION SYSTEM

FEATURES

- Non corrosive solution
- Smaller footprint due to modular design
- Lesser or virtually no shutdown time
- High flow, High dirt holding capacity multilayer
- Polypropylene pleated cartridge
- Highly efficient PP pleated filter cartridges compare to conventional cartridges
- Easy cartridge replacement Leak less performance
- Ideal solution for sea water & highly brackish water application

MATERIAL

- Housing: Glass Reinforced Plastic (Fiber Glass)
- Polypropylene Pleated filter cartridge
- Nylon washable filter cartridge
- O-ring: EPDM / NBR

RANGE

- Flow capacity: 7m^3/hr to infinity (∞)
- Housing dia: 4" (Bazooka Mini) & 8" (Bazooka)
- Cartridge: 20", 40" & 60" Nominal & Absolute
- Filter precision: 1 / 3 / 5 / 10 / 20 I 50 170 / 100 µm
- Maximum differential pressure: 2.5 Bar
- Operating pressure: 0-7 bar
- Design pressure: 10 bar
- Test pressure: 15 bar

APPLICATIONS

- Sea Water Desalination plant
- Water treatment system
- Sewage & Effluent treatment plants
- Ultra filtration systems
- Industrial filtration

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LIQUID FILTRATION SYSTEM

FEATURES

- Modular Design
- Corrosion resistant material
- Robust housing design
- Smaller footprint
- Leak less performance
- Easy cartridge replacement
- Lesser or virtually no shut down time
- High flow, High dirt holding capacity multilayer cartridges

MATERIAL

- Housing: SS 304/SS 316L
- End cap: SS 304/SS 316L/Polypropylene
- Polypropylene Pleated filter cartridge
- Nylon washable filter cartridge
- O-ring: EPDM / Silicone

RANGE

- Flow capacity: 7 m^3/hr to infinity (OO)
- Housing dia: 4" (Ultra Mini) & 8" (Ultra)
- Housing length: 20", 40" & 60" long
- Cartridge 20", 40" & 60" Nominal & Absolute
- End Connection: Tri-clover end/Retaining ring type
- Filter precision: 1/3/5/10/20/50/70/100 µm
- Maximum differential pressure: 2.5 bar
- Operating pressure: 0-7 bar
- Test pressure: 10.5 bar

APPLICATIONS

- Ultrapure water purification system
- Pharmaceutical system
- Food & Beverages system
- Water treatment system
- Desalination system
- Industrial filtration system

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PRESSURE VESSEL

FEATURES

- NSF approved vessels
- Manufactured with state of art machineries
- 100,000 cycle test without leakage
- Rugged & long lasting

MATERIAL

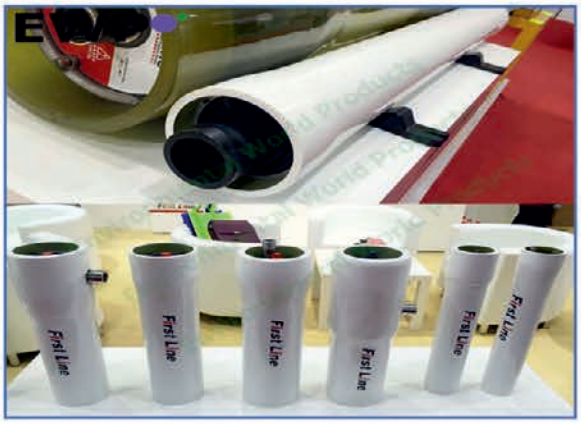
- PE Lined Vessels
- FRP lined vessels

RANGE

- Diameter: 8" to 80"
- Max. Operating pressure: 150 PSI Max.
- Test Pressure 175 PSI
- Max. Temperature: 40° C
- Color: Green

APPLICATIONS

- Media Filters
- Carbon Filters
- Softeners
- DM plant



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GLASS FIBER MEMBRANE PRESSURE VESSEL

FEATURES

- Manufactured as perASME Specifications
- Side port, End port & Multiport design
- Test pressure 1.5 times of operating pressure
- Burst pressure 6 times of operating pressure
- Supplied with straps and saddles as standard
- Aesthetic finishing internal as well as external

MATERIAL

- Fiber reinforced Plastic (FRP)
- Ports: SS316/ Duplex 2205

RANGE

- Sizes: 2.5", 4" and 8"
- 1 to 8 elements
- Working pressure: 250,300,450,600,800,1000, 1200 Psi
- Colors: Black or White

APPLICATIONS

- Reverse Osmosis plant
- Desalination plant
- Nano-filtration
- Ultra-filtration

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STAINLESS STEEL MEMBRANE PRESSURE VESSEL

FEATURES

- Mirror polished surface
- Seamless tubes only
- Side port & end port available

MATERIAL

- Ss304
- SS316L

RANGE

- Size 2.5": up to 2 element
- Size 4": up to 4 element
- Size 8": up to 6 element
- Operating pressure: 300 PSI

APPLICATIONS

- High purity water treatment plant
- Dairy processing
- Pharmaceutical industry
- Food & Beverage industry

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NEXUS SMART ELECTROMAGNETIC FLOWMETER

FEATURES

- Display Flow Rate as well as totalized flow
- Accuracy+/- 0.5% -1% RS
- Compact & remote installation
- Communication through RS485 or HART protocol
- GSM/GPRS remote transmitting, data analysis & logging etc.
- Protection IP65 or IP67

MATERIAL

- Body: CI/SS304/SS316
- Liner: PTFE/PFA/PU/Rubber
- Electrode: SS 316L/HC/TI/TA/Pt

RANGE

- Flowrate: Up to100,000 m^3/hr
- Working pressure:0 .6 to1.6 MPa (Based on diameter)
- Line size: up to 2000 mm
- Temperature: up to150 °C
- Medium conductivity: >5 µ Siem

APPLICATIONS

- Water treatment industry
- Pharmaceutical industry
- Chemical industry

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SINGLE & MULTISTAGE CENTRIGUAL PUMP

FEATURES

- Pumps designed for continuous duty condition
- High efficiency & Low noise
- TEFC motors IP-55 protection with Class F insulation
- Three phase motors, Single phase up to 2.2 KW
- Also available swimming pool pumps
- Semi-open SS pump can be given

MATERIAL

- Casing: CI / SS304/ SS316 L
- Impeller: CI / SS304/ SS316L
- Shaft: SS 304/ SS 316/ SS420
- Mechanical Seal: Carbon/ Ceramic or Carbon/TC

RANGE

- Flow up to 220 m^3/hr
- Head up to 50 bar
- Temp up to 120° C
- Frequency 50 Hz/60 Hz

APPLICATIONS

- Clean water application without any solids & fibers
- Reverse Osmosis plant
- Boiler feed pump
- Air conditioning & chiller
- Self priming pumps for Water & Waste Water application
- Swimming Pool Pumps Induction furnace
- Booster system

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DEWATERING & SEWAGE SUBMERSIBLE PUMP

FEATURES

- Designed with Semi-open, Single Vane or Double Vane impellers to handle waste water
- Pumps can handle solid size up to 100 mm
- Available with Grinder mechanism to handle leaves, plastics, cloth etc.
- Optional Quick Discharge Coupling available
- IP-68 Motor protectionwith Class F insulation
- Single phase & Three phase motor, Single phase with float switch

MATERIAL

- Casing: CI/SS 304/316
- Impeller : CI/SS 304/ SS 316
- Shaft : SS/CS 45#
- Mechanical Seal: Sic vs Sic/Carbon vs Ceramic + NBR Elastomers

RANGE

- Flow up to 4000 m^4/hr
- Head up to 50 m
- Working pressure up to 8 Bar
- Solid Size up to 100 mm
- Frequency 50 Hz/60 Hz

APPLICATIONS

- To transfer Sewage & effluent
- To transfer drainage Water
- To transfer sludge (45% solids)
- Dewatering pumps used in construction sites, basement.

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MEMBRANE ELEMENT

FEATURES

- Spiral wound design
- Excellent membrane flux
- Excellent salt rejection
- Revolutionary high active membrane surface area
- Resistance to bacterial growth
- Easier cleaning NSF certified
- FD Aclearance for food processing
- Elements shipped wet or dry

MATERIAL

- Poly amide thin film composite
- PVDF

RANGE

- Size: 2.5", 4" & 8"
- Tap water element
- Brackish water element
- Sea water element
- Nano- Filtration element
- Ultra - Filtration element
- Heat-Sanitizable (HSRO) element
- Semi Conductor grade RO element

APPLICATIONS

- Process water treatment
- Ultra pure water
- Municipal Potable Water
- Domestic RO plant

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DOSING PUMP

FEATURES

- Electro magnetic & Electro mechanical (Diaphragm / Piston)
- Analogue or Digital with pH instrument or built in timer
- Wall mounting or Tank mounting
- PVDF head has unique life & compatibility with most chemicals
- PTFE Diaphragm - Unique life expectancy and compatibility with most chemicals
- 100"" 240 Vac Power Supply suitable for power fluctuation
- IP65 protection degree in Electro magnetic series
- IP55 protection class in Electro mechanic series

MATERIAL

- Pump head:PP /PVDF / SS316 /PVC
- Diaphragm: PTFE
- Valve seat: EPDM/FPM/PTFE/PP/316
- Ball: Ceramic/Pyrex

RANGE

- Flow: 0 -1000 LPH
- Temperature: 0-90°C
- Pressure: up to 20 bar

APPLICATIONS

- Water treatment plants
- Sewage treatment plants
- Pharmaceutical industry
- Chemical industry

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SUBMERSIBLE MIXERS

FEATURES

- Ideal for mixing & homogenization of liquid
- Propeller with self cleaning profile
- Mixer orientation system supplied with lifting mechanism
- Mixer available with gear mechanism to maintain lower speed rotation
- Slow blade rotation flow makers ideal for mixing & re-circulation
- Double mechanical seal. Humidity probes in few models to detect lower seal failure
- Motor have IP 68 protection
- Motor equipped with thermal protection

MATERIAL

- Propeller: SS316 / FRP
- Body: C.I. / SS
- Shaft: SS

RANGE

- Submersible mixers & flow makers
- Power: 0.75- 18.5 KW
- Rotation speed ranging from 32 - 960 min
- Max fluid temperature up to 40°C

APPLICATIONS

- Municipal water treatment plants
- Biogas plants for homogenization to release Methane
- Activated sludge treatment & disinfection tanks
- Anoxic / Nitrification / De-nitrification in ETP / STP'
- Sludge re-circulation pump

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SUBMERSIBLE AERATORS

FEATURES

- Versatile aerators range- Self Aspirating & Blower assisted
- High oxygen transfer rate specially for Blower assisted
- Revolving design which increase contact time & Zone of influence
- Suitable for all tank depths, especially deep tanks even up to 10m
- Humidity probes for detecting mechanical seal failure in few models
- Easy and quick installation without emptying the tank
- Double polarity of motor for continuous mixing
- Lifting mechanism for easy maintenance

MATERIAL

- Impeller: C.I / SS 304/SS316 (CI for Venturi jet aerators)
- Diffuser: SS 304
- Channels: SS 304
- Motor housing: C.I.
- Shaft: SS 420
- Cable: 10 m

RANGE

- Blower assisted Radial submersible aerator
- Blower assisted Radial submersible aerator with extended expulsion channels
- Self aspirating radial submersible aerator
- Venturi jet aerator
- Power: 0.75-80 KW
- Rotation speed ranging from 42 -2800 min^{-1}
- Maximum submergence level: 10 m

APPLICATIONS

- Biological treatment of waste water
- Lagooning system for aquaculture
- Equalization & homogenization
- Oxidation- nitrification stages
- Sludge stabilization

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DISC & TUBULAR TYPE DIFFUSER

FEATURES

- Fine bubble (1-1.25 mm) diffuser
- Coarse bubble (4-5 mm) diffuser
- High standard oxygen transfer efficiency
- Membrane material with anti fouling microbial surface
- Tubular diffuser with two grooved design
- Disc diffuser with NRV (optional)
- Low head loss

MATERIAL

- Tube & Tube Head: PP with 30% GF
- Disc: PP with 30% GF
- Membrane: EPDM, Silicon rubber or Poly-Urethene (PU)

RANGE

- Disc diffuser: 9" to 12"
- Tubular Length: 1000mm, 750mm & 500mm
- Tubular Diameter: 63 mm & 90 mm
- Coarse bubble diffuser diameter: 105 mm
- End less tube diffuser (Fine Bubble) diameter: 75 mm (EPDM Material)

APPLICATIONS

- Sewage treatment plants
- Effluent treatment plants

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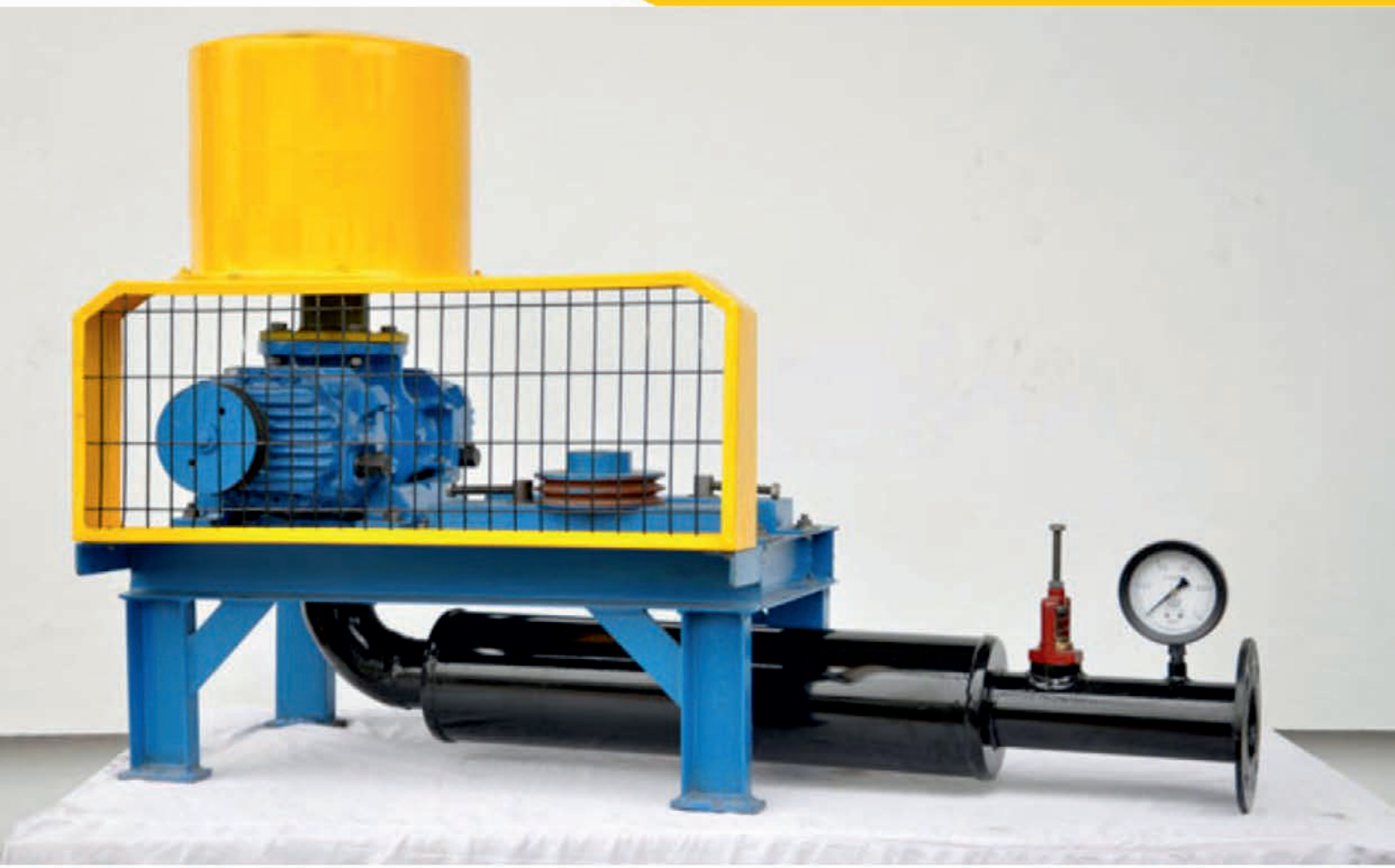
TWIN LOBE AIR BLOWER



APPLICATION

- Effluent and Sewage Treatment Application

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JAIDURGA ENVIROCARE SERVICING IN INDUSTRIAL MARKET

1. Leather Industries
2. Chemical and Textile Industries
3. Pharmaceutical and Bio-Life Science
4. Industrial Waste Water Treatment and Recycling
5. Zero Liquid Discharge Treatment System
6. Municipal Drinking Water
7. Bottled Drinking Water Plant
8. Automotive Industries
9. Oil and Gas
10. Power Plant
11. Semi -Conductor and Micro-electronics
12. Municipal Waste Water Treatment
13. Petrochemical Industries
14. Food and Beverages
15. Pulp and paper
16. Sugar Industries
17. Cement Industries
18. Metal Finishing Industries
19. Food products cold storage
20. Hotels and Resorts
21. Educational Institutions
22. Malls and Commercial Complex
23. SEZ Industrial Solid Waste Management Organization
24. Infrastructure and many others

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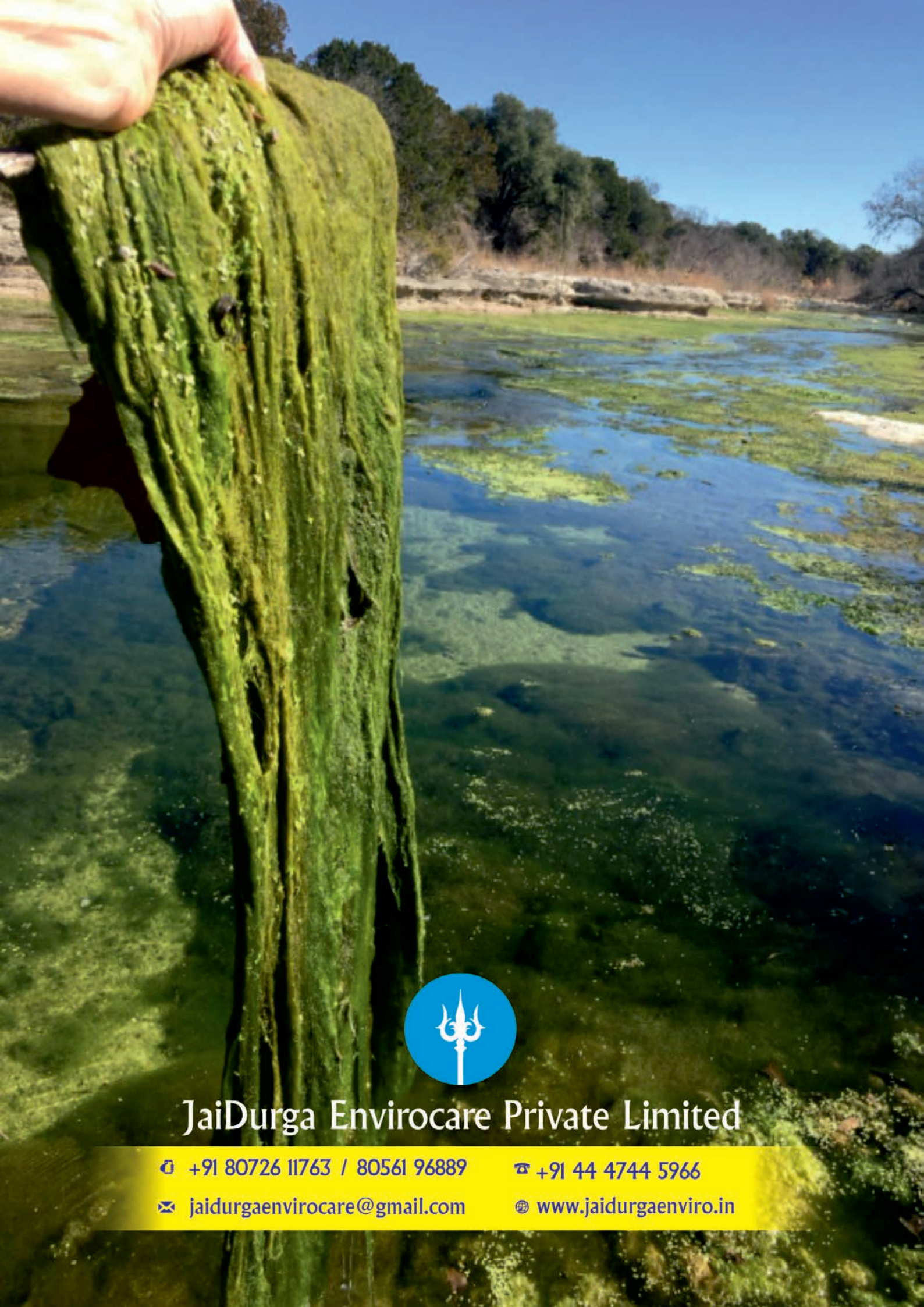
SRI NARAYANI PEEDAM



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