A Presentation By...



# ZLD Technologies Pvt. Ltd.

#### **INNOVATIONS & ENGINEERING**

Engineering Excellence In Advance Waste Water Treatment, Chemicals And Salts Recovery Systems Global Leader In Lowest Opex Based Evaporation Technology Supplier.

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We are an engineering company based in India, incorporated in 2016 as ZLD TECHNOLOGIES PVT LTD under companies act 2013 as company limited by shares having Business office in Mumbai, Maharashtra, India & registered office in Ahmedabad, Gujrat, India. Leadership details as follows,

About Company and leadership.

**1. Mr. Vaijnath Tandle:**Chemical engineering graduate and management studies from IIM-Calcultta nearly 2 decades of industrial experience in sales & marketing, process design, project management, procurement, strategy, administration, etc.

**2. Dr. Kalpana Mahalle:** Ph.D in Chemical Engineering from ICT Mumbai (UDCT Mumbai) nearly 2 decades of experience in innovations & developing and implementing various technologies, process design, development,R&D, detail engineering,etc

**3. Mr. Chandan Kumar:** Chemical engineering graduate from Pune university with 30+ years experience in detail engineering & process design in the field, Mr. Chandan also has several industrial patents & innovations as inventor.

**4. Mr. Pradeep Samajdar:** Chemical engineering graduate with nearly 40 years of industrial experience in waste water & tertiary treatment systems in various capacities, vast experience in business development, sales and marketing, and strategy.

5. Mr. Jayesh Vaghela: Mr. Jayesh is qualified chartered accountant with 15+ years of experience in Finance, banking,
 Accounting ,Taxation, etc, he has deep understanding & responsible for regulatory and compliance related affairs of company.



# Our Technologies & Expertise.

EVAPORATION TECHNOLOGIES: Customized Evaporation Systems, Multistage MVC, Hybrid Evaporators, Mechanical Vapor Recompression Evaporators(MVR) concentrators, Mechanical Vapor Compression (MVC), Multi Effect Distillation (MED), Multiple Effect Evaporators (MEE),

PROCESS ENGINEERING PLANTS: Glycerin Recovery Systems, Ammonium Sulfate/Nitrate, Caustic Recovery Plants, Salt Recovery Plants, Metals Recovery Pants, Desalination
Plants, Acid
Recovery Plants, Treatment & handling Systems, Dryers, Solvent Recovery, Chemicals Treatment & Recovery Systems.

FILTRATION AND MEMBRAIN TECHNOLOGIES ,WASTE WATER TECHNOLOGIES: Ultrafiltration, Nano-filtration, Microfiltration, Reverse Osmosis. Skid based Waste Water Treatment & Pretreatment Plants, Skid Based Effluent Treatment plants.

PLANT DESIGNING, REVAMPING & PROCESS IMPROVEMENTS: We offers customized modifications in evaporation plant to ensure lowest OPEX and highest system reliability, these systems typically designed based on the best utilization of available resources, technology upgradation, implementing combination of multiple technologies to meet common system objective. Design & consultancy services, plant retrofitting, operations & efficiency improvements, other technical services, O&M, etc.

## MVR based Evaporator.





Mechanical Vapor Recompression (MVR) based Evaporators are one of the energy efficient technologies in evaporation application, this kind of system requires very less steam/ zero steam, however the power consumption is little more compared to conventional MEE. The system can designed as in Falling Film if the feed permits, for salt generation need forced circulation with high delta compressor to avoid depositions and salting in HE.

The MVR Can be designed in vacuum or pressure or at an atmospheric conditions, we offer all combinations based on client input. MVR will require steam varying from 0-20 Kg/ KL of feed as steam consumption, and 15 -55 KW/KL of Feed as Power consumption as utilities.

MVR does not require or very minimal cooling water for cooling purpose. The MVR Based system can be used used as concentrator or crystallizer or in combination with any other technology.







# **ZLDTECH MVCC Evaporator**





# **ZLDTECH Combination MVCC**





This combination MVCC based Evaporation plant is extended version of MVCC, its brine concentrator is designed in most efficient way, that it will reduce its it power consumption to half of MVCC taking it to one of the lowest operating cost based system.

Brine crystallizer: it is used to crystallize the concentrate from brine concentrator.

Salt is then separatated, any impurities like, tar, gum,syrup,etc, it then fed to Drier.

The opex of system is lower and steam & power consumption far less.







 $\blacktriangleright$  MED is energy efficient thermal system which can deliver high gain output ratio depending upon the number of effects and position of the TVR.  $\blacktriangleright$  MED mostly used in sea water desalination project.  $\blacktriangleright$  The MED alone can not produce salt. It can concentrate the feed to further concentration depending upon the boing point elevation.  $\blacktriangleright$  MED is operated on lower BPE solutions. → Its compact design, heavy equipment, and

is feasible for large size planta.

## ZLDTECH Flash Evaporator (ZFE)



ZLD Technologies Pvt. Ltd.



ZLTECH FLASH evaporator is a highly efficient evaporator system, similar to MSF which is widely utilized desalination technology employed in large-scale seawater desalination plants., leveraging the principles of multi-stage flash distillation. The MSF evaporator is a vital component in large-scale desalination plants, providing a reliable source of fresh water for various industries. municipalities, and communities in waterscarce regions. ZFE is advance version of MSF which can also be used to waste water treatment and ZLD purpose if steam at high pressure available, opex is very low.

## ZLDTECH SUPER EVAPORATOR (ZSE)



This ZLD special system, it is customized designed for recovery of valuable saleable materials / salts & pure water from waste stream.

ZSE system is designed considering lowest maintenance and maxim tolerance towards process plant.

 $\blacktriangleright$  The beauty of ZLD is it can be fitted in various space conditions and positions.

Various customize design features can be incorporated in system.

ZSE is an extremely low operating cost ranging from 65 INR per ton to 190 INR per ton of feed depending upon analysis and unit cost of utilities.

 $\blacktriangleright$  The system is can use waste heats to reduce OPEX further.

 $\blacktriangleright$  ZSE can also be used for the concentration of liquid at far lower OPEX that conventional systems.

Best paybacks delivering system in industry.

These systems are designed & customized based on available resources & optimizing its consumption based on resources values or effectiveness.

### **MVCZERO Evaporator Patented**



This is also unique solution from ZLD Technologies Pvt. Ltd. wherein we are offering absolutely zero steam based salt generation through Evaporator.

The System is designed to generate salt and pure condensate directly.

NO initial heating from outside hence no need of preheating energy. Steam & Cooling water requirement is zero.

MVCZERO requires less height, less floor area, less structure, less civil work.

MVCZERO is does not require vacuum hence trouble free continuous operations.

 $\blacktriangleright$  Feed TDS variation is not an issue since the design is detla T based.

MVCZERO will remove non condensable gases easily if any .

 $\blacktriangleright$  For small sizes skid mounted systems available.

This system generally requires 20-55 KW/KL as power consumption depending on the feed and product requirement..

#### Google Patent Link:

https://patents.google.com/patent/WO2019086979A1/en?q=(Vaijnath)&inventor=tandle&oq=Vaijnath+tandle







ZLD Technologies Pvt. Ltd.

By evaporative method or adiabatic cooling crystallization can be achieved and salts can be dewatered using a centrifuge.

\* There are certain effluents which do not crystallize the inorganic salts and are difficult to dewater .Dryers are used in such cases to bring out the salt from the system .

 Agitated Thin Film Dryers (ATFDs) are versatile drying solutions for a wide range of industries. These dryers utilize a unique combination of agitation, thin film formation, and gentle heat transfer to rapidly dry sensitive materials, including slurries, suspensions, and solutions.
 ATFDs are ideal for drying heat-sensitive materials, such as pharmaceuticals, food ingredients, and specialty chemicals.

Our expertly designed ATFDs offer precise control, ease of operation, and reliable performance, making them a trusted choice for industries requiring high-quality drying solutions."

# Waste Water Pre treatment Projects.







➢ Our Pre-Treatment Unit is a critical step before Tertiary Treatment in wastewater management, designed to further remove pollutants and contaminants that remain after secondary treatment.

This advanced pre-treatment stage utilizes a combination of physical and chemical processes to remove suspended solids, organic matter, and other pollutants, enhancing the efficiency of subsequent tertiary treatment processes.

- Pre-treatment solutions may include technologies such as coagulation, flocculation, sedimentation, and filtration, tailored to specific wastewater characteristics.
- ➢ By implementing this pre-treatment step, our clients can achieve improved removal of pollutants, reduced chemical consumption, and enhanced overall treatment efficiency, ultimately resulting in high-quality effluent that meets stringent discharge regulations and protects the environment.

# Advance Membrane Technologies.





➢ Our company leverages the latest advancements in membrane technology to provide innovative solutions for various industries.

- We utilize cutting-edge membrane materials and designs, such as reverse osmosis, ultrafiltration, and nanofiltration, to develop efficient and sustainable solutions for water treatment, wastewater reuse, and other applications.
- Our advanced membrane technologies offer improved permeability, selectivity, and durability, enabling our clients to achieve enhanced performance, reduced energy consumption, and minimized environmental footprint.
- ➢ By staying at the forefront of membrane technology advancements, we help our clients stay ahead of the curve and address complex challenges in a rapidly changing world."



➢ Our expert engineers specialize in revamping, modifying, and upgrading existing plants to enhance their efficiency, productivity, and reliability.

- We utilize cutting-edge technology to modernize legacy systems, integrating innovative solutions that improve performance, reduce energy consumption, and minimize environmental impact.
- Cur comprehensive services include feasibility studies, design engineering, procurement, installation, and commissioning, ensuring seamless integration with existing infrastructure.

➢ By revitalizing aging plants and upgrading their technological capabilities, we enable our clients to stay competitive, reduce costs, and achieve sustainable growth, while also ensuring compliance with evolving regulatory requirements and industry standards.



Engineering Solutions & Consulting Services.

Our company offers comprehensive engineering solutions and consulting services, leveraging our expertise to deliver innovative and tailored solutions for our clients. Our team of experienced professionals collaborates closely with clients to understand their unique challenges and develop effective strategies that drive results. From concept to implementation, we provide end-to-end solutions that enhance efficiency, reduce costs, and improve overall performance. Our commitment to excellence and customer satisfaction has earned us a reputation as a trusted partner in the industry.

We undertake technical services which includes, feasibility study reports, consultancy, basic & detailed engineering, energy audits, operations improvements,

We also provide consulting services for OEMs and Project management companies in order to help them developing new technologies and designing of better plants.

# Case Studies-spending on waste to wealth generation



CASE GODREJ Group: Customized solution is offered to produce GLYCERINE from segregated from waste stream which was going to ETP for further treatment, the recovered glycerin with paybach of around 15 months.

CASE LASONS Group: Ammonia based waste water stream going to ETP for further treatment, is converted to ammonium sulfate and produced pure ammonium sulfate, with payback less than 10 months.

CASE LASONS Group: Dual Purpose plant for a stream from ETP to produce sodium sulfate.

CASE DFPCL Group: Separated waste water streams and reduced, drastically ETP load and recovered ammonium nitrate, with payback of 2 years.

CASE NIXON Group: From waste effluent generated as spent acid stream is converted in CaCl2 and is recovered.

CASE RELIANCE Group: Major issue was sorted by separating, treating and purifying mercaptans carrying caustic based waste water stream from hydrogen cracking unit, is made saleable.

CASE TATA group: picking lane acid is treated and low cost ferric chloride crystals recovered.

CASE BARC group: a custionised solution as an engineering system to recover Glauber salt, H2O and Sodium hydroxide from waste water is supplied by Us. ...AND MANY MORE



Our dedication to customer satisfaction extends beyond the initial sale. Our After Sales Support ensures that our clients receive comprehensive assistance and guidance throughout the entire lifecycle of their investment. Our team of experts is available to provide timely and effective support, including maintenance, repairs, and troubleshooting. We also offer regular updates, training, and technical guidance to ensure that our clients' solutions remain optimized and up-to-date. With our After Sales Support, our clients can rely on us to maximize their returns on investment and maintain peak performance.

➢ Our Spares management ensures timely availability of genuine spare parts, minimizing downtime and ensuring optimal performance. Our Annual Maintenance Contracts (AMC) offer proactive maintenance, regular repairs, and priority support, providing peace of mind and cost savings. Our Operations and Maintenance (O&M) services encompass routine inspections, predictive maintenance, and efficient troubleshooting, ensuring optimal asset performance and extending equipment lifespan. By choosing our Spares, AMC, and O&M solutions, our clients can rely on us to maximize their asset availability, reduce costs, and improve overall operational efficiency."





Letters of Appreciation & Project completions Certificates given to us by our reputed Clients, actual site photographs describing about our services, implementation of various technologies for various applications, work quality, timeline, utility consumptions, overall plant performance and client satisfaction.

भारत सरकार Government of India भाभा परमाणु अनुमंधान केंद्र **Bhabha Atomic Research Centre** वर्ण धानको प्रभाग **Powder Metallurgy Division** 

> Vashi Complex, Navi Mumbai - 400 703 /Tel :+91-22 - 27887178

/TeleFax: 2784 0032 इमेल/E-mail: thoratddayah thoratddabarc.g

#### Ref.: PMD/DDT/2018/

May 18, 2018

#### TO,

M/s. ZLD TECHNOLOGIES PRIVATE LIMITED, 42, 4-D SQUARE, VISAT GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA AHMEDABAD -380005 INDIA

"CERTIFICATE OF COMMISSIONING & PERFORMANCE FOR ENGINEERING SYSTEM RECOVERY OF SODIUM HYDROXIDE, WATER & SODIUM SULFATE FROM PROCE **EFFLUENT**"

This is to certify that M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done Di Engineering, Manufacturing, Supply, Installation and Commissioning of ENGINEE SYSTEMS FOR RECOVERY OF SODUM HYDROXIDE, WATER & SODIUM SULFAT BHABHA ATOMIC RESEARCH CENTRE, VASHI COMPLEX, VASHI, NAVI MUN MAHARASHTRA, INDIA.

The engineering system supplied by M/s. ZLD TECHNOLOGIES PVT LTD, AHMED has been commissioned successfully and its performance is satisfactory.

11110 (D. D. Thorat)/8/

Scientific Officer

TO, M/s. ZLD TECHNOLOGIES PRIVATE LIMITED, 42, 4-D SQUARE, VISAT GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA AHMEDABAD -380005 INDIA

#### **"CERTIFICATE OF COMISSIONING & PERFORMANCE FOR MVC TECHNOLOGY BASED ZLD PLANT & SALT RECOVERY PLANT** (TWO PURPOSE APPLIACATION)"

This is to certify that M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 5 KLD MVC TECHNOLOGY PLANT at our plant M/s. LASONS INDIA PVT. LTD. location MIDC TALOJA, NAVI MUMBAI, MHARASHTRA, INDIA.

CAPACITY: 5 KLD MVC PLANT.

APPLICATION: Zero Liquid Discharge and salt recovery plant. PLANT LOCATION: M/s LASONS INDIA PVT LTD, TALOJA MIDC, NAVI MUMBA, MAHARASHTRA, INDIA STEAM REQUIRED PER HR: 12 Kg/Hr (MAX.) POWER REQUIRED PER HR: 18 KW/Hr.

This of performance we are issuing to M/s. ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its overall performance.



For, M/s LASONS INDIA PVT LTD, 8, NEW JAGRUTI, 227, S.V. ROAD, BANDRA (WEST), MUMBAI-400050 MAHARASHTRA, INDIA

Gillette India Limited CIN: L28931MH1984PLC267130 Regd Office P&G Plaza, Cardinal Gracias Road, Chakala Andheri (E), Mumbai 400 099 Tel 91-22-2826 6000 Fax 91-22-2826 7303 Date 4/6/2017

M/s. ZLD TECHNOLOGIES PRIVATE LIMITED, 42, 4-D SQUARE, VISAT GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA AHMEDABAD -380005 INDIA

TO.

#### "CERTIFICATE OF PERFORMANCE FOR MVC TECHNOLOGY BASED ZLD PLANT"

This is to certify that M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for ZERO STEAM BASED 15 KLD MVC TECHNOLOGY ZLD PLANT at our plant M/s. GILLETTE INDIA LIMITED location BHIWADI, RAJASTAN, INDIA.

SUPPLY DURATION: INSTALLATION AND COMMISSIONING: CAPACITY: ZERO STEAM BASED 15 KLD MVC TECHNOLOGY ZLD PLANT. APPLICATION: Zero Liquid Discharge. PLANT LOCATION: M/s GILLETTE INDIA LIMITED, SPA-65A, BHIWADI INDUSTRIAL AREA, DIST. ALWAR, RAJASTAN-301019, INDIA

This of performance we are issuing to M/s. ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its overall performance.

AUTHORISED SIGNATORY, Bertag hushan Kumar(Site Environment Leader)

M/s GILLETTE INDIA LIMITED, SPA-65A, BHIWADI INDUSTRIAL AREA, DIST. ALWAR, RAJASTAN-301019, INDIA



LASONS INDIA PVT. LTD. 8, New Jagruti, 227, S. V. Road, Bandra (W), Mumbai 400 050, India.



#### AMBERNATH ORGANICS PVT LTD.

222, The Summit Business Bay (Omkar),Near W.E.H. Metro Station, Andheri - Kurla Road, Andheri (E), Mumbai 400033, India Tel No. : +91-22-2681 4600, 99300 14600 Fax: +91 - 22 - 2681 4623 email : Info@ambernathorganic.com CIN No.: 12/411004189587F0037162 Accreditations : ISO 9001:2005 / ISO 14001:2015 / ISO 18001:2007 / ISO 22000:2005

TO, M/s. ZLD TECHNOLOGIES PVT. LTD., AHMEDABAD, INDIA

DT:23.03.2022

#### "CERTIFICATE OF SUCCESSFUL COMISSIONING& PERFORMANCE FOR MVCC™ TECHNOLOGY BASED ZLD PLANT"

This is to certify that M/s. ZLD TECHNOLOGIES PVT. LTD., AHMEDABAD has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 75 KLD MVC TECHNOLOGY BASED ZLD PLANT at Location Badlapur, Ambernath, Maharashtra (M/s. Ambernath Organics Pvt. Limited).

SUPPLY DURATION: 2017 - 18 INSTALLATION AND COMMISSIONING: 2018 CAPACITY: 75 KLD MVCC<sup>TM</sup> TECHNOLOGY ZLD PLANT. APPLICATION: Zero Liquid Discharge (ZLD) TYPE OF INDUSTRY: ORGANIC CHEMICALS END USER: M/s. AMBERNATH ORGANICS PVT LTD., AMBERNATH, MAHARASHTRA MODE OF OPERATIONS: FULLY AUTOMATIC

This commissioning and performance certificate we are issuing to M/s. ZLD TECHNOLOGIES PVT. LTD. at their request.



AUTHORISED SIGNATORY, M/s. AMBERNATH ORGANICS PVT. LIMITED AMBERNATH, MAHARASHTRA, INDIA

Unit 1: W-61-A, W-63-B, Childoll MDC, Ambernath (W) 421501, Dirit: Thane. Unit 2: W-120-A, W-121-A, Kharval MDC, Badlapur (E) 421503, Dist: Th Unit 3: W-10, W-11, Chemical Zono, MIDC, Ambernath (W) 421501, Dist: Thane Unit 4: C-8/B & CAP, Near AMP Gate, Chemical Zono, MIDC, Ambernath (W) 421501, Dist: Thane, Maharashtra Godrej Consumer Products Limited Factory: U30, Industrial Area, Malaniur, Brind (M.P) - 477:117 Tel.: 07539-282-139263:113 Website: www.godresp.com Office:: 447, Ravi Nagar, Gwalio:: 474:002 Tel.: 0751-282.9446

Date - 25/03/2022

#### TO WHOM SO EVER IT MAY CONCERN

We would like to confirm that M/SZLD has completed entire job against our PO No. 3600016550 dated 28/07/2018 and now there is nothing pending at their end. All the deliverable of this project have been complied. All the financial commitments from both the end have been delivered and now there is no outstanding from either side.

Chir

Rajeev Saxena DGM - Operations Godrej Consumer Products Limited, Malanpur, Distt- Bhind M.P TO, M/s. ZLD TECHNOLOGIES PRIVATE LIMITED, 42, 4-D SQUARE, VISAT GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA AHMEDABAD -380005 INDIA

#### "CERTIFICATE OF PERFORMANCE FOR 3 EFFECT MEE PLANT FOR RECOVERY OF AMMONIUM SULFATE"

This is to certify that M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 20 KLD MEE PLANT at our plant M/s. LASONS INDIA PVT. LTD. location MIDC TALOJA, NAVI MUMBAI, MHARASHTRA, INDIA.

CAPACITY: 20 KLD MEE PLANT.

APPLICATION: Ammonium Sulfate Plant Feed at 35% concentration. PLANT LOCATION: M/S LASONS INDIA PVT LTD, TALOJA MIDC, NAVI MUMBA, MAHARASHTRA, INDIA STEAM REQUIRED PER HR: 350 Kg/Hr POWER REQUIRED PER HR: 30 KW/Hr.

This of performance we are issuing to M/s. ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its overall performance.



For, M/s LASONS INDIA PVT LTD, 8, NEW JAGRUTI, 227, S.V. ROAD, BANDRA (WEST), MUMBAI-400050 MAHARASHTRA, INDIA



LASONS INDIA PVT. LTD. 8, New Jagruti, 227, S. V. Road, Bandra (W), Mumbai 400 050, India.

#### DATE: 26/04/24

TO, M/s. 2LD TECHNOLOGIES PVT. LTD., 42, 3<sup>st</sup> FLOOR, B-WING, 4-D SQUARE MALL, BESIDES PVR CINEMAS, VISAT – GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA, AHMEDABAD, GUJARAT, INDIA – 380005.

#### "PROJECT COMPLETION, PERFORMANCE & APPRECIATION CERTIFICATE"

This is to certify that M/s. ZLD TECHNOLOGIES PVT. LTD. have done excellent job, has executed the work for Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 150 KLD Zero Liquid Discharge plant complete ZLD Solution. (from Effluent waste water to pure water & Salt Production) at our Bhiwadi, Rajasthan site Location. ZLD Technologies Pvt.Ltd. has completed the project within time successfully in 2022-23.

We are releasing this certificate as an appreciation letter towards the good job done by ZLD Technologies Pvt Ltd. We are happy with the quality service given by them.

ZLD Technologies have done complete Design, Engineering, Manufacturing, Supply, transportation, Installation and Commissioning of zero steam MVCC based Evaporation Plant for our waste water effluent at our Bhiwadi Location.

ZLD Technologies Pvt. Ltd. has good understanding on the subject and rich experience in designing and executing evaporation systems. We appreciate the good work done by them.

M/s Gillette india Limited wish M/s ZLD Technologies Pvt Ltd to success in future endeavours.



TO, M/s. ZLD TECHNOLOGIES PRIVATE LIMITED, 42, 4-D SQUARE, VISAT GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA AHMEDABAD -380005 INDIA

#### "CERTIFICATE OF PERFORMANCE FOR RO PLANT"

This is to certify that M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 20 KLD RO PLANT at our plant M/s. LASONS INDIA PVT. LTD. location MIDC TALOJA, NAVI MUMBAI, MHARASHTRA, INDIA.

CAPACITY: 20 KLD RO PLANT. APPLICATION: Waste water treatment & recovery. PLANT LOCATION: M/s LASONS INDIA PVT LTD, TALOJA MIDC, NAVI MUMBA, MAHARASHTRA, INDIA POWER REQUIRED PER HR: 10 KW/Hr.

This of performance we are issuing to M/s. ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its over<u>all pe</u>rformance.



For, M/s LASONS INDIA PVT LTD, 8, NEW JAGRUTI, 227, S.V. ROAD, BANDRA (WEST), MUMBAI-400050 MAHARASHTRA, INDIA

LASONS INDIA PVT. LTD. 8, New Jagruti, 227, S. V. Road, Bandra (W), Mumbai 400 050, India. Tal. + 91 - 72 - 2644 1728 /29. 2643 4396, 2642 8339 • Fax: + 91 - 22 - 2642 8131







TO, M/s. ZLD TECHNOLOGIES PVT LTD, AHMEDABAD, INDIA

DT: 29.11.2018

"CERTIFICATE OF SUCCESSFUL COMISSIONING& PERFORMANCE FOR MVCC" TECHNOLOGY BASED ZERO STEAM ZLD PLANT"

This is to certify that M/s. ZLD Technologies PVT LTD, Ahmedabad, has done Design, Engineering, Manufacturing, Supply, Installation and Commissioning for 75 KLD MVCC<sup>III</sup> TECHNOLOGY BASED ZERO STEAM ZLD PLANT at Location Ambernath, Maharashtra (M/s. DIGICHEM INDUSTRIES PVT LTD).

SUPPLY DURATION: INSTALLATION AND COMMISSIONING: CAPACITY: 75 KLD MVCC<sup>™</sup> TECHNOLOGY ZLD PLANT. APPLICATION: Zero Steam Zero Liquid Discharge

This of commissioning and performance we are issuing to M/s. ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its overall performance.

AUTHORISED SIGNATORY,



M/s. Digichem industries Pvt Ltd.

Ambernath, Maharashtra.

N-71, MID.C. Additional Arroemath, Anana Registered Office : R-422, MID.C. Thane-Belay





SAINT-GOBAIN Saint-Gobain India Private Limited - Sekurit Business (Formarty Saint-Gobain Glass India Ltd.) Factory: Plot No. SP-1, industrial Artia Kanarani (Shiwara Extension). Bhiwedi-301099, District Alwar, Rejecthan, Mile Tet: +91-1493-301301 (Fax: +91-1493-301299 www.saint-gobarn-sekurit.com

#### FINAL ACCEPTANCE / WORK COMPLETION CERTIFICATE

Date: September 8, 2018

This is to certify that M/s ZLD Technologies has executed the work for Design, Engineering, fabrication, supply and erection of Mechanical Vapour Compression (MVC) Evaporator along with RO, for New Laminated Plant at Bhiwadi, Rajasthan. The above work was awarded to M/s ZLD Technologies vide our Purchase Order Nos. 4531210746 & Service Order No. 4531213800.

The scope of work was executed by ZLD Technologies with all necessary equipment.

The Final Acceptance / commissioning date: September 8, 2018.

The commissioning of MVC Evaporator for New Laminated Plant at Bhiwadi, Rajasthan is satisfactory and in accordance with our projects requirements. ZLD Technologies has good understanding of design and execution for Evaporator and RO system. We appreciate the good work done by them and wish them every success in future.

For Saint-Gobain India Pvt limited - Sekurit Business



Saint-Gobain India Private Limited - Sekurit Business

Registered Office: Sigapi Achi Building, Level 7, 19/3 Rukmini Lakshmipathi Road, Egmore, Chennel - 600 008, Tamilnadu, Ind a Te: +91-44-45936000 | Fax: +91-44-45936008 | www.in.sem-gobain-glass.com | CIN: U261097N1997PTC037875



TO M/s. ZLD TECHNOLOGIES PVT. LTD., DT: 18.07.2023 42, 3rd FLOOR, B-WING, 4-D SQUARE MALL, BESIDES PVR CINEMAS, VISAT - GANDHINAGAR HIGHWAY, MOTERA, CHANDKHEDA, AHMEDABAD, GUJARAT, INDIA - 382424

Website : www.paienron.co

#### "PROJECT COMPLETION, PERFORMANCE & APPRECIATION CERTIFICATE"

This is to certify that M/s. ZLD TECHNOLOGIES PVT. LTD. have done excellent job by modifying existing MEE into MVCC. By doing this modification the operating cost of the plant has drastically reduced. We are releasing this certificate as an appreciation letter to the good job done by ZLD Tech.

ZLD Tech has been continuously monitoring the performance of the plant and we are pleased with the quality service given by them.

ZLD Tech have done Design, Engineering, Manufacturing, Supply, Installation and Commissioning of MVCC based Evaporation Plant for our waste water effluent CETP plant at our Bangalore Location. The work was completed within given time line successfully in the year 2022-23.

After installing this plant, we saved on steam Consumption but Electrical Power Consumption is Not Estimated. At the outlet of the evaporator, we are getting saturated solution which is dewatered.

ZLD Technologies Pvt. Ltd. has good understanding on the subject and rich experience in designing and executing evaporation systems. We appreciate the good work done by them.

M/s Pai & Pai wishes M/z ZLD Tech. a successful future.

#### AUTHORISED SIGNATORY,



Bangalore, Kernataka, INDIA

& PAI CHEMICALS (I) PVT. LTD 19/A, 1st Phase, Kumbalgodu Indl. Area Bangalore-560 074

fee : # 438/1, 20th Main, 1st Block, Rajajinagar, Bangalore - 560 010. | Tel = +91-080-43433000 E-mail : ppcfin@penrot



M/S ZLD TECHNOLOGIES PVT LTD, AHMEDABAD, INDIA

AOUARUS

DT:17.10.2017

www.accomminh?odynamics.in

Amariusta h2odynamics in

508, City Center, CIMS Circle.

Science City Road , Ahmedahad

#### "CERTIFICATE OF SUCCESSFUL COMISSIONING & PERFORMANCE FOR MVC TECHNOLOGY BASED EVAPORATOR PLANT"

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2 +01 98253 12346

This is to certify that M/S ZLD TECHNOLOGIES PVT LTD, AHMEDABAD has done design, engineering, manufacturing, installation and commissioning for 50 KLD MVC TECHNOLOGY BASED ZLD PLANT for our client M/S AAKAR ENGINEERS at end user & Location M/S CLARIS INJECTIBLES LTD (Present Name M/S BAXTER INDIA PVT LTD), AHMEDABAD.

SUPPLY DURATION: Feb 2017-April-2017 INSTALLATION AND COMMISSIONING: June-2017 CAPACITY: 50KLD MVC TECHNOLOGY ZLD PLANT. APPLICATION: ZLD -RO REJECT (TDS 10000PPM TO 50000PPM) TYPE OF INDUSTRY: PHARMACEUTICAL. END USER: M/S CLARIS INJECTIBLES LTD (Present Name M/S BAXTER INDIA PVT LTD), AHMEDABAD.

#### PLANT OBSERVATIONS:

Steam Consumption : 18-30 KG/KL feed on continuous basis. Power Consumption: 46 KW/KL feed on continuous basis. Condensate generation: 50-65 KLD SOLIDS : 500KG-25000 KG/DAY CONDENSATE TDS: below 200 PPM. MODE OF OPERATIONS: FULLY AUTOMATIC

This of commissioning and performance we are issuing to M/S ZLD TECHNOLOGIES PVT LTD and certify that the plant is found satisfactory in its overall performance.

AUTHORISED SIGNATORY



M/S AQUARIUS H20 DYANAMICS AHMEDABAD, GUJRAT, INDIA



ZLD Technologies Pvt. Ltd.



![](_page_25_Picture_0.jpeg)

![](_page_26_Picture_0.jpeg)

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### Industries we serve.

CHEMICALS, PETROCHEMICAL , PHARMACEUTICAL.

TEXTILE, STEEL & STEA PROCESSING, WASTE WATER TREATMENT.

▶ POWER PLANTS, FERTILIZERS, R&D.

AGROCHEMICAL, SPECIALITY CHEMICAL, FOOD AND BEVERAGES.

▶ PULP & PAPER, LEATHER, TANNERY, CEMENT.

► OIL &GAS, ENGINEERING, METAL FINISHING & ELECTROPLATING.

➢ DISTILLERY, SUGAR, BIOFUELS, REFINERY.

CONSTRUCTION, AUTOMOBILE, MINING.

► DEFENCE, AEROSPACE, FMCG, PRINTING AND DYING.

► DAIRY,OEMs, WASTE MANAGEMENT COMPANIES.

CETP, PSUs, MEDICAL & HOSPITAL AND MANY MORE.....

![](_page_30_Picture_0.jpeg)

# Thank You

For any queries,

Mr. Vaijnath Tandle

Email: vt@zldtech.in, sales@zldtech.in

Mob: 00919860024649 Web : <u>www.zldtech.in</u> / <u>www.zldindia.com</u>