



PHARMA STERILE TECHNOLOGIES
CONNECTING IDEAS FOR YEARS

COMPANY PROFILE



www.pharma-st.com



sales@pharma-st.com

ABOUT US

PST is an industrial and engineering **Company dedicated in development and construction of high technology systems** for PHARMACEUTICAL, BIOTECH, FMCG, FOOD, BEVERAGE and COSMETIC industries.

The scope of our work includes design, production, assembly and installations of equipment and instruments up to successful qualification. ☒

The range and diversity of production includes Purified Water (PW), **Highly Purified Water (COLD WFI), Water for Injection (HOT WFI), Point of USE Cooler (POU), CIP & SIP SKIDS and Pure Steam generation equipment**, as well as **complete storage and PW/WFI/PS Loop distribution systems**.

A dedicated sales and marketing team and their active participation in domestic and international shows, allows **PST** to be up to date with the latest developments in Technology and in various industry. By doing so, we are able to offer our clients the most advanced solutions.

QUALITY is the cornerstone of everything we do. Our systems are manufactured using the finest materials and components, ensuring durability and reliability. We strictly adhere to international quality standards and have robust quality control measures in place to ensure each system meets or exceeds industry regulations.

COLLABORATION is crucial to driving innovation and progress in the industry. We actively seek partnerships with like-minded organizations, research institutions, and industry experts to foster knowledge sharing and collectively work towards a brighter and more sustainable future.

At PST, we put our **CUSTOMERS** at the heart of our operations. We believe in building strong, lasting relationships with our clients, understanding their unique challenges, and providing tailored solutions that best suit their needs. Our dedicated support team is always ready to assist with any queries or technical support throughout the product's lifecycle.

We are committed to reducing our environmental footprint and promoting **SUSTAINABLE** practices. Our systems are designed to be energy-efficient and water-conserving, helping businesses achieve their sustainability goals while maintaining exceptional water quality.



PRODUCTS – YOUR CUSTOM DESIGN HIGH PURITY SYSTEM (PRE-TREATMENT + RO + RO + EDI + POST UF + UV)

PST high purity systems make sure you have the right pure water quality at any time all over the world!

Our Generation system ranges from compact designs for water treatment, WFI to pure steam generators and complete supply systems for pharmaceutical production processes.

The Latest membrane or distillation systems are used for the generation of PW, HPW, WFI (H/C) and PS.

OUR ADVANTAGES:

- In line with national and international regulations.
- From compact machines to complete supply systems.
- Efficient, low-cost and economical system.
- Capacity range as per Requirement.

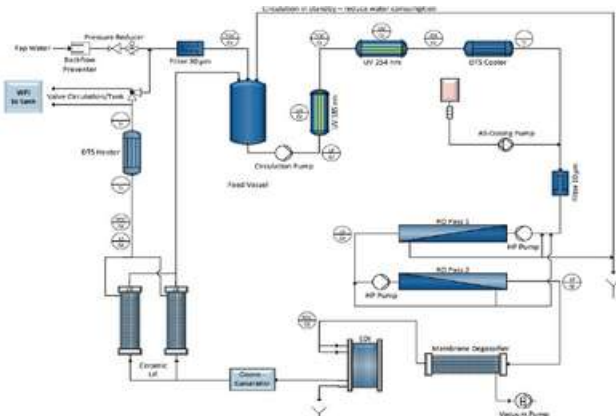
FROM BASIC SCHEME



TO



DETAILING MANUFACTURE & EXECUTION



STANDARDS WE FOLLOW



GMP Standards:

USFDA, EU, BP, WHO, PIC/S, MHRA, cGMP, EHEDG, FDA, ASME (BPE), A 3, ISPE Baselines, ISO – 14159

Piping Standards:

Process: (BPE) / SA 270

Utility: ANSI B 31.3

Automation Standards:

GAMP5 & 21 CFR Part 11

Qualification Documents & Execution Standards:

ISPE Baselines Vol 5

Mechanical Standards:

Vessels: ASME Sec. VIII Div.1, AD – Merkblatt, ASME BPE

Heat Exchangers: TEMA

European Nations Standards of CE Marketing:

NDT Standards: EN – 1435, 895, 12517 & 571

Safety Standards: DS/EN 1050

Hygienic Design: B3 EN 1672 – 2

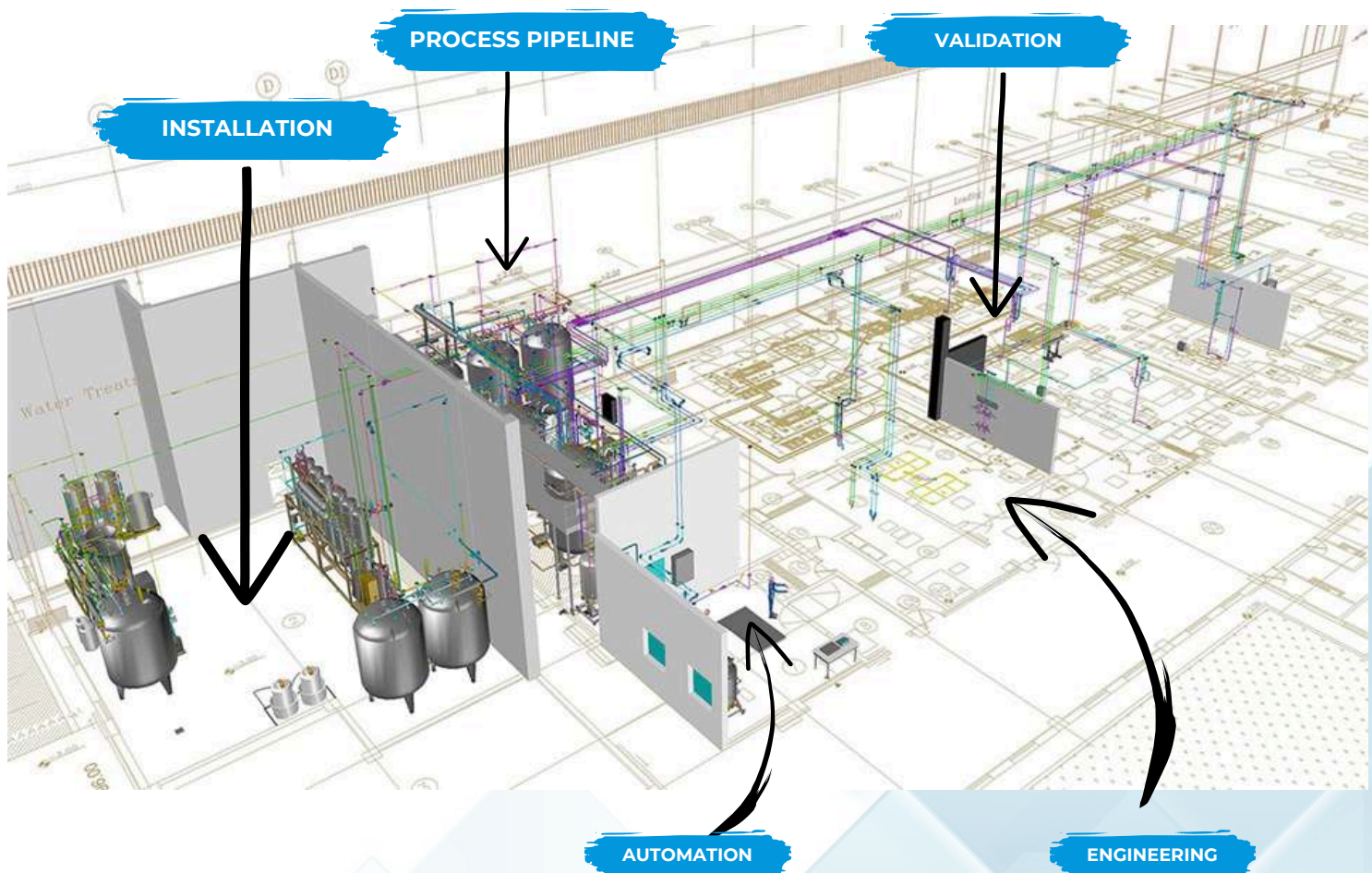


GLIMPSE OF RECENT INSTALLATIONS:

WITH MANY YEARS OF EXPERIENCE OF OUR ENGINEERS ENABLE US TO DELIVER EVEN HIGHLY COMPLEX SYSTEMS READY TO USE.



WE ARE DELIGHTED TO SUPPORT YOU IN ALL PROJECT PHASES, FROM CONCEPT DESIGN TO START-UP.



PST- A Good Past, Becoming Future...



60+
INSTALLATIONS

25+
YEARS OF PERSONAL
EXPERIENCE

20+
SERVICE
ENGINEERS

5
AUTOMATION
ENGINEERS

5
DESIGN
ENGINEERS

25
LOCATIONS

2
FACTORIES

1
HEAD OFFICE

4
TECHNICAL SALES
PROFESSIONAL

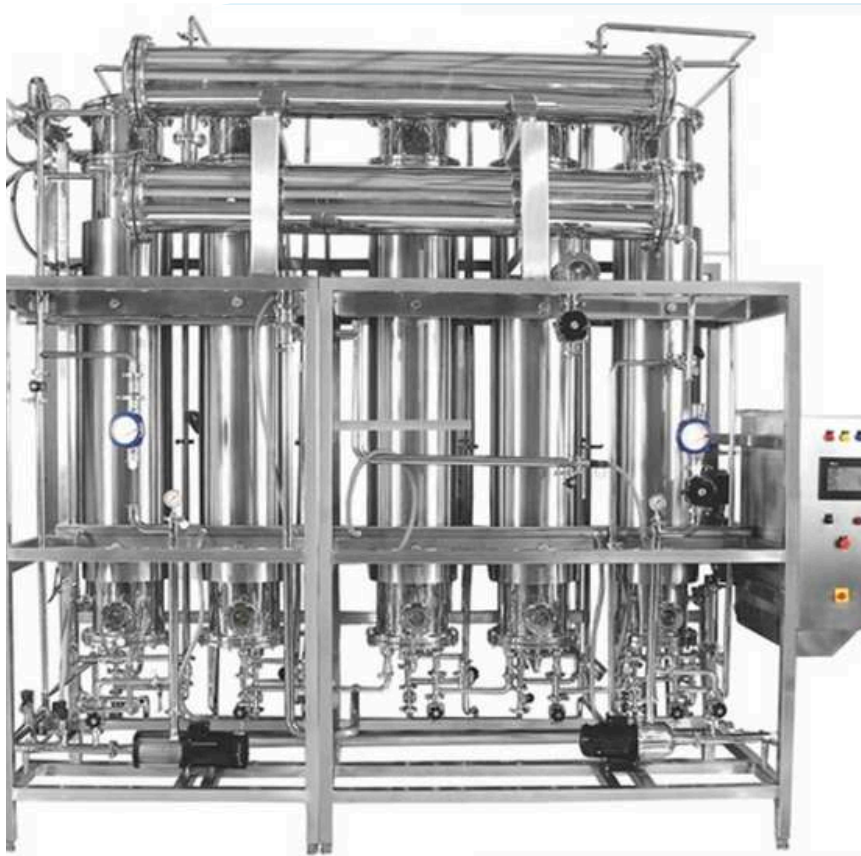
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FACTORY
STRENGTH

1
FOREIGN
COLLABORATION

WATER FOR INJECTION AND PURE STEAM GENERATION SYSTEM

CAPACITY - 50 TO 2000 KG/HR

- PURE STEAM GENERATORS ARE DESIGNED AND CONSTRUCTED IN ACCORDANCE TO THE LATEST INTERNATIONAL PHARMACOPEIAS AND THE CGMP FDA.
- RAPID START UP, ENERGY SAVING, SIMPLE AND CLEAN MECHANICAL CONSTRUCTION, EXTREMELY LIMITED MAINTENANCE.



CAPACITY – 100 TO 7000LPH

- MCDP PRODUCES DISTILLED WATER FOR INJECTABLE USE, WHICH MEET THE REQUIREMENTS OF THE INTERNATIONAL PHARMACOPEIAS.
- RAPID START UP, ENERGY SAVING, SIMPLE AND CLEAN MECHANICAL CONSTRUCTION, EXTREMELY LIMITED MAINTENANCE.

WHAT WE DO

ACHIEVE BETTER PRODUCTION RESULTS WITH SMART, INTEGRATED PROCESSES

- At **PST** we help customers achieve greater efficiency and control in their pharmaceutical processes to improve the quality of their products, increase productivity and Strengthen their market position.
- We combine consolidated know-how and experience of numerous pharmaceutical process Projects with an automation solution developed in-house.

THE STRATEGY IS BASED ON 3 PILLARS:

AUTOMATION

Efficient, stable and consistent production.

01

INTEGRATION

System Integration from Smart sensors.

02

COMPLIANCE

Control and monitoring records and documentation.

03

IDEA

ANNOUNCE

PLANNING

STRATEGY

WORK

TARGET



DETAILED AUTOMATION OF YOUR WATER TREATMENT PROCESS:

- 01** RELIABLE PROCESS
- 02** SIMPLE INSTALLATION
- 03** FLEXIBLE COMMUNICATION
- 04** RAPID IMPLEMENTATION
- 05** MORE EFFICIENT
- 06** STANDARDISED INTERFACE

INDUSTRY 4.0 FOR WATER TREATMENT

PLANTS: ALL THE ADVANTAGES



**CUSTOMIZED
SYSTEMS**

**Industry 4.0 applied to
water treatment plants
allows us to enjoy the
benefits:**



**WORK AND
PERSONNEL SAFETY**



PLANT MANAGEMENT & REMOTE CONTROL



ENERGY EFFICIENCY



IOT TECHNOLOGIES

POINT OF USE WFI COOLER & CIP – SIP SKID

POINT OF USE WFI COOLER : CAPACITY RANGE – 100 - 5000LPH

A "point of use" Water for Injection (WFI) cooler is a system used in pharmaceutical and biotechnology industries to provide a continuous supply of high-purity water that meets the specifications required for the production of injectable drugs and other critical applications. WFI is water that has been purified to meet stringent quality standards, typically exceeding those of purified water (PW).

The "point of use" aspect refers to the fact that the WFI cooler is typically installed near the location where it will be used, rather than centrally producing and distributing WFI throughout the facility. This has several advantages:

- **Reduced** Piping and Distribution
- **MINIMISED Dead legs** by using BLOCK valves.
- Efficient Use of **Energy**
- **Quick** Response to Demand
- Simplified **Validation and Compliance**
- **Double Tube Sheet** HE to avoid cross contamination.
- Multiple **POU to POU** communication with Advance Automation.
- **Flexibility** in Temperature range.
- **NO MICROBIAL BREEDING** by achieving appropriate velocity (1.2m/sec)

In summary, a point-of-use WFI cooler is a LOCALISED water purification and cooling system designed to meet the specific needs of pharmaceutical and biotechnology industries for producing high-purity water for critical applications, while also providing benefits in terms of efficiency, compliance, and ease of maintenance.



CIP - SIP SKID

A "Clean In Place" (CIP) and "Steam In Place" (SIP) skid is a system used in various industries, such as food and beverage, pharmaceuticals, and biotechnology, to clean and sanitize processing equipment without the need for disassembly.

Here's a breakdown of the terms:

Clean In Place (CIP): CIP is a method used to clean the interior surfaces of pipes, vessels, and process equipment without disassembly. It involves circulating cleaning solutions through the equipment to remove dirt, residue, and contaminants. CIP systems typically consist of tanks, pumps, valves, instrumentation, and sometimes heating elements to ensure effective cleaning. The goal is to maintain high levels of hygiene and prevent cross-contamination during the manufacturing process.

Steam In Place (SIP): SIP is a related process that involves using steam to sanitize and sterilize the interior surfaces of equipment. It's particularly important in industries where the utmost cleanliness and prevention of microbial contamination are crucial, such as pharmaceutical and biotechnology manufacturing. The high temperature of steam effectively kills microorganisms, ensuring the equipment is safe for the next production cycle.



TIME SAVING

Fast and on-site cleaning process.



SELF-CLEANING

Our CIP skids are self-cleaning.



COST REDUCTION

Low consumption of energy, water and detergent.

BENEFITS -



AUTOMATIC AND REPLICABLE

Fully automated cleaning process via validated software.



SAFETY

No cross-contamination; clean water at all stages of functioning.

OINTMENT MANUFACTURING PLANT:

- Semi-Contra and Contra design based on Product Viscosity.
- Complete CIP/WIP untouched and 100% drainable process.
- Capacity design from 10Kg - 3000kg.
- Complete Vacuum based transfer process.
- Plant operation with Manual and Complete Automation with inhouse programming expertise.
- Inline/bottom homogenizer for high shear mixing.
- All the motors are with VFD.



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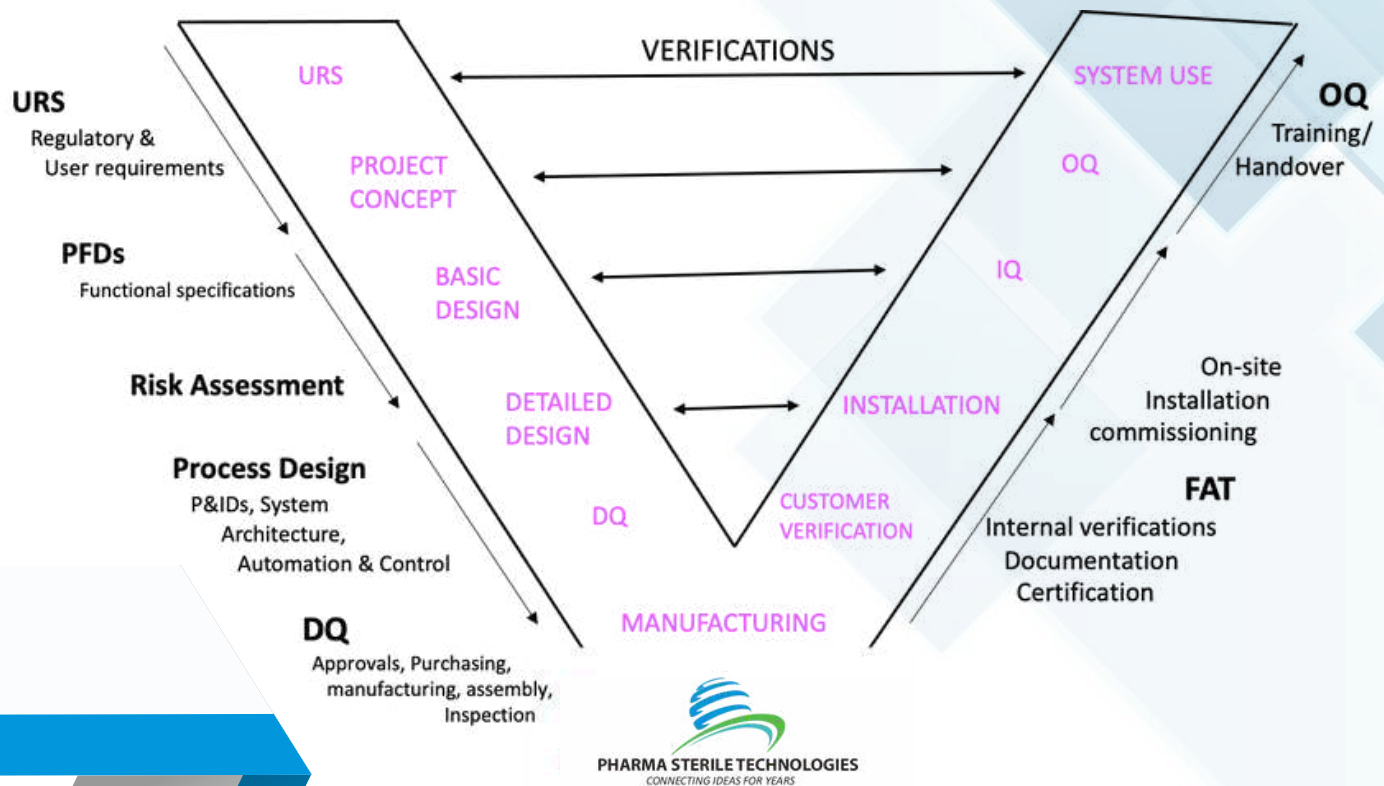


LIQUID SYRUP MANUFACTURING PLANT:

- Bottom and Top Mounted stirrer design based on Product Viscosity.
- Complete CIP/WIP untouched and 100% drainable process.
- Capacity design from 50L - 10000L.
- Complete Vacuum based transfer process with Vacuumized Tanks.
- Plant operation with Manual and Complete Automation with inhouse programming expertise.
- Inline homogenizer for high shear mixing.
- All the motors are with VFD.
- Efficient filtration system with Zero Holdup filter press and Prefilter.
- Complete Sugar Transfer, Sorbitol Transfer, Glycerine Transfer System and other Product Transfer based on the final Product.



V MODEL – VALIDATION & DOCUMENTATION



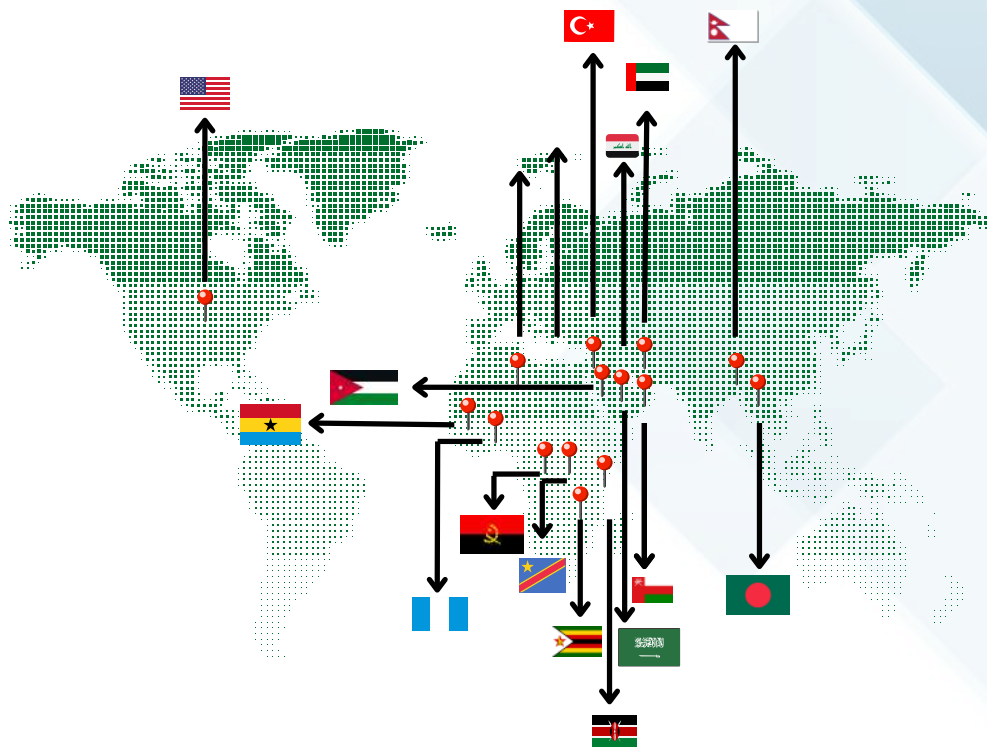
Tailored After Sales service for the entire life cycle of your machine.

PST ensures a smooth and safe operation of system in every condition.

PST after sales service is not only limited to the managing technical requests received from customer but also providing a **full range of services.**



INTERNATIONAL PRESENCE



Cipla



KKPL



Lykis®



... MANY MORE

DOMESTIC CLIENTS



Lindström

Baxter



... MANY MORE

DOMESTIC CLIENTS



... MANY MORE



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THANK YOU



REGISTERED OFFICE :

**1102, A-WING, KIPL MORYA, OPP. HAWARE CITY,
KASARWADVALI-THANE (W), 400615.**



PAWAN CHAURASIA:

+91 77385 84304



MAIL US AT:

sales@pharma-st.com



ONLINE PRESENCE:

www.pharma-st.com