





JSK
PROCESS SOLUTION

We Provide The Solution

SERVICE PROVIDING RANGE

- DAIRY
- FOOD
- PHARMACEUITICAL
- BEVERAGE
- CHEMICAL

jskprocesssolution@gmail.com

www.jskprocesssolution.in

ABOUT US :



We initiated our Business with Our Ambition & Mission with "Provide the Solution" related to Stainless Steel Fabrication with expert Quality. JSK Process Solution is registered in June 2021 and our Company based in Ahmedabad.

JSK Process Solution is one of the fastest growing company in Dairy, Food, Beverages & Pharmaceutical Industries. We are working in Design, Fabrication, Erection & Commissioning in above industries. like Raw Milk Reception Dock, Milk Processing, Curd Processing, Sugar Syrup Preparation, Butter Milk, Curd, Lassi, Paneer, Ice Cream, Cheese, CIP System, Peanut Butter Making & Packaging, Chocolate making process, Pharmaceutical Process Line etc.

We are Design the Customized skid mounted Milk Pasteurizer, Curd/Paneer Pasteurizer, Buttermilk Thermiser, Ice cream Pasteurizer (HTST), Fruit Processing System PID Based or PLC Based.

We also provide the solution in Utility which used in Versatile Industries like Steam Boiler, Hot Water Generator, Chilling Plant, IBT Unit, Cooling Tower, Water Softening and RO Unit, Cold Storage, Air Compressor etc.

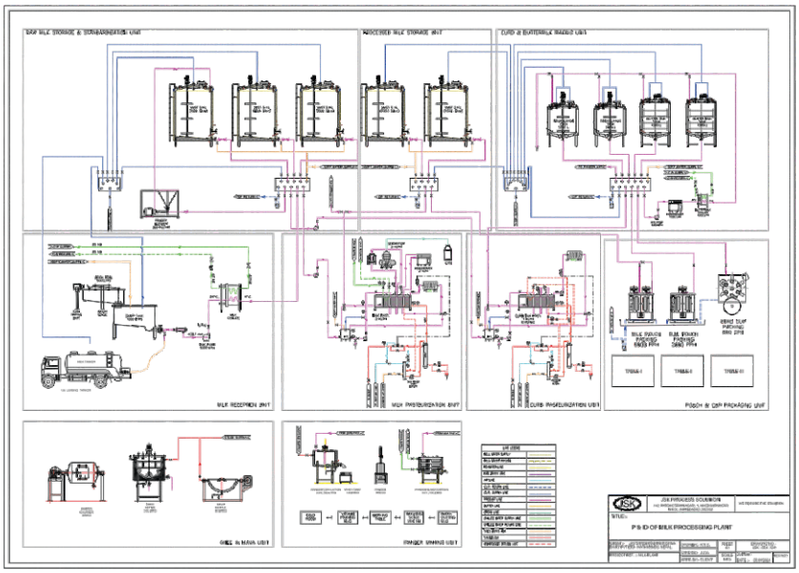
We can provide Mechanical as well as Electrical and instrumental Solution like Control Panel, PLC or Scada System, PCC Panel, MCC Panel, PF Panel, Synchronization of DG, PLC programming, Instrument Calibration etc.

We have an expert team for doing Fabrication work in MS Electrode Welding and Stainless Steel TIG & MIG Welding.
Our Vision: To provide the Best Quality of Equipment and 100% precision service on time to our valuable Customer.









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PRODUCTION EQUIPMENTS

Milk Reception Unit
- Roller Conveyor
- Can Tipping Bar
- Weigh Scale & Weigh Bowl
- Dump Tank
- Can Scrubber
- Can Drip Saver
- Bulk Milk Cooler
- Road Milk Tanker

Milk Storage Section
- Vertical Milk Storage Tank
- Horizontal Milk Storage Tank
- Milk storage silos

Fermented Product Making Equipment
- Curd inoculation Tank
- Buttermilk Storage Tank
- Buffer/Overhead Tank

Paneer & Cheese Making Section
- Paneer Coagulation Vat
- Whey Trought
- Whey Storage Tank
- Chilled Water Dipping Vat
- Paneer Press
- Acid Tanks

Cream, Butter & Ghee Section
- Cream Storage Tank
- Butter Churner
- Butter Melting Vat
- Ghee Kettle/Boiler
- Ghee Settling Tank
- Ghee Storage Tank



Ice Cream Section
- Ice cream Mix preparation Tank
- Batch Pasteurizer
- Aging & Flavour Mix tank



Food Factory
- Chocolate Melting Vat
- Chocolate mixing Tank
- Peanut Butter Mixer
- Beverage Storage and Mixing Tank
- Sugar Syrup preparation Tank

Pharmaceutical Industries
- Storage tanks for purified water & WFI
- Buffer tanks
- Hold tanks
- Pressurized vessel for solvents / sterile products
- Agitated pressure vessels for various applications
- Reaction vessels
- Jacketed & Double Jacketed Tank
- Limpet Storage & Process Vessels





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STORAGE TANKS SPECIFICATION

Product Storage tank may be Pain & Insulated type tank with or without agitator as per the product application.
Material of Constructional: SS 304 / 316L



Insulation: Thermocole/glass wool/ Puff or multi layer of all
Design: Slopping or Conical Bottom
Inlet & Outlet: Top inlet & Bottom inlet cum Outlet with suitable Valve fittings
Level Sensor & Transmitter: Mounting probes provided with dummy
Air Vent: Top Mounted air vent suitable to design
Main Hole: Side Mounted or Top mounted
Spray Ball: CIP Spray ball with 360 degree rotation
Sight/Light Glass: observe the Level Marking & Lighting
Ladder & Ralling: Better operation & Safety
Agitator: Designed as per the application
Leg: Adjustable ball feet mounted
Finish: Matt/mirror finish as per requirements
Testing: DP Test, Hydro test







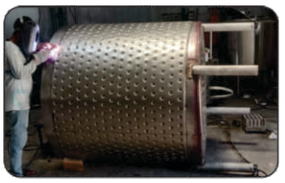




JACKETED TANKS SPECIFICATION

Jacketed Tank needs to design for the various purposes for the Heating & Cooling of product inside the Tank.
Design & Construction and accessories most similar to the storage tanks only addition of following things
Jacket: it should be Pillow plate/ plain Jacket/Limpet Coiled
Application 1: Chilled Water/ Hot Water/ Thermic fluid Circulation
Application 2: Stream inlet & R22/R 404 Circulation
Additional Accessories: Pressure Gauge, Safety Valve, Overflow, Condensate Trap (if Steam inlet)



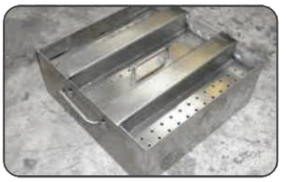












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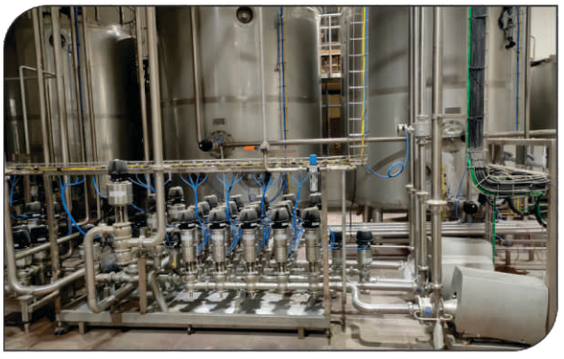
DESIGN, FABRICATION, ERECTION & COMMISSIONING

JSK PROCESS SOLUTION having experienced and skilled team for the Design, Erection & Commission of Complete Dairy plant. Our designed Layout and Process Diagram must be followed NDDB and AMUL SOP rules and food safety standard. Engineering & Process for Dairy Products like Pasteurized Milk, Butter, Curd & yoghurt, Buttermilk, Ghee, Cheese and Cheese Derivatives, Paneer, Condensed Milk & Powders, Traditional Sweets, Ice Creams and Frozen Desserts, margarine and Mayonnaise Plants

JSK PROCESS SOLUTION has own Team for the fabrication. Fully trained & skilled team provides best quality of work output in short time as per the given drawing. They are skilled in TIG, MIG & ARC welding and fittings.











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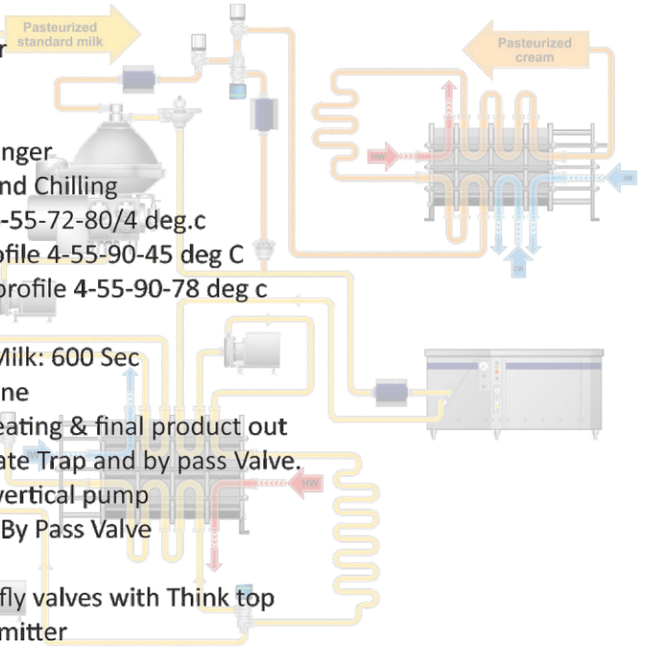
WHAT IS PASTEURIZATION SYSTEM?

Pasteurization is a process in which the milk is heated to a certain temperature for a fixed period of time and then is quickly cooled. For example, it may be heated at 80°C for 15 minutes and then immediately cooled. This helps to kill any kind of microorganism which is present in milk.

OUR DESIGN

JSK PROCESS SOLUTIONs specialty to design and fabrication of customized Pasteurizer for MILK, CURD, PANEER, CREAM and BUTTERMILK THERMIZER, ICE CREAM MIX PASTUERIZER (HTST) with predefine data and the mass flow of product.

WHICH INCLUDES



- Balance Tank with Level Sensor
- Milk Transfer Pump
- Flow meter
- Multi Section Plate Heat Exchanger
- Includes:- RG1,RG2, Heating and Chilling
- For Milk Temperature Profile 4-55-72-80/4 deg.c
- For Curd Milk Temperature Profile 4-55-90-45 deg C
- For Paneer Milk Temperature profile 4-55-90-78 deg c
- Holding Coil for Milk: 15 Sec
- Holding Coil for Curd/Paneer Milk: 600 Sec
- Duplex type filter/ Hydro cyclone
- Flow Diversion(LL) valve for Heating & final product out
- Hot Water THE With Condensate Trap and by pass Valve.
- Hot Water circulation Pump - vertical pump
- Steam Control PID Valve With By Pass Valve
- Water Make Up Vessel
- Pneumatically actuated Butterfly valves with Think top
- Temperature & Pressure Transmitter
- Interconnecting Piping and Fittings on Skid
- FR+ Air Fittings on skidInterconnecting
- Cables and Conduits on Skid
- PLC Panel HMI/Skada Operated









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WHAT IS CIP SYSTEM ?

Cleaning in place is an optimized cleaning method that has been around for about 50 years, and it is used in industries where hygiene is critical, like the dairy industry. It utilizes various cleaning chemicals, heat, and water to clean different machinery, vessels, or pipes without having to take anything apart.

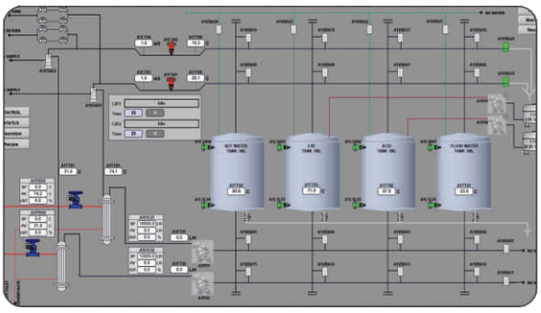
CLEAN-IN-PLACE (CIP) the recommended steps in a clean in place (CIP) operation may involve the following:

1. Remove those items that require manual cleaning such as fill tubes, manhole gaskets, plug valves, etc.
2. Provide physical breaks between any circuits or tanks containing product.
3. Pre-rinse or flush thoroughly with cool water not to exceed 80oF.
4. Discard pre-rinse water, flushing until relatively clear.
5. Circulate an effective detergent solution throughout the circuit.
6. Circulate rinsing water.
7. Circulate an acid detergent when needed followed by another rinse.
8. Sanitize immediately before use

Most modern plants have installed clean-in-place systems throughout the plant. Prior to this, plants cleaned all their processing equipment, including tanks, vats, pumps and lines manually which involved complete disassembly, manually brushing with a cleaning solution, rinsing, reassembly and finally sanitizing. This was of course all highly labour intensive.

The basic components of any CIP system will include the following

1. Permanently installed product piping and air operated valves
2. CIP solution make-up tanks
3. CIP pumps
4. CIP supply and return solution piping
5. Spray devices (either permanently mounted or drop- type)
6. Solution collection manifolds
7. Chemical feed systems and equipment
8. The CIP control/monitoring systems and necessary recorders.



JSK PROCESS SOLUTION are design the user friendly CIP system as per Standard process of food/Pharmaceutical industries. We designed Fully automatic PLC Based skada/HMI operated Multi Circuite CIP System & Semi Automatic PID Based Double Circuit CIP System





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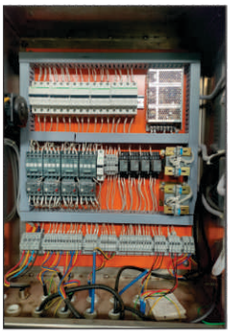
ELECTRICAL SERVICE

We can Design and Manufacture the Control Panel as per the Client Requirements.
Enclosure made from SS 304 with Wall Mounting System with IP 54/ IP 55 Protection

Control Panel Includes (Customized)

- Enclosure SS 304
- Protection IP54/
- Power On/Off Switch side Mounted
- Contactor
- Pump Protective Relay (PPR)
- MCB / Load Breaking Switch
- CT Coil
- Timer On/Off Switch
- Ammeter | Voltmeter
- Run-Hour meter (Optional)
- Selector Switch/Push Button
- Indicator Lamps
- Temperature Indicator
- Level Indicator
- Data Logger
- PID Controller
- SMPS
- Emergency Stop











Electric Control Panel

Power Control Centre (PCC) MS Powder Coated Panel with IP54/IP55 Protection PCC Panel Includes (Customised)

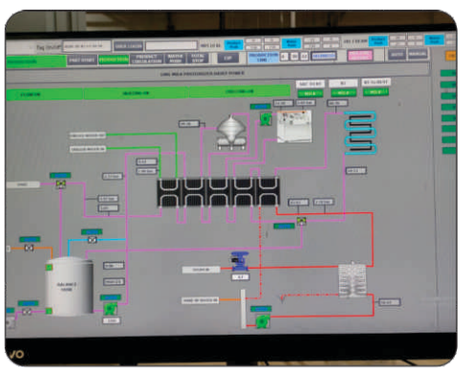
- High Tension Power Panel
- Air Circuit Breaker
- Power Monitoring
- Busbar Distribution
- MCCB
- DG Synchronization Systems
- Auto Change Over Switches

MCC Panel Includes (Customised)

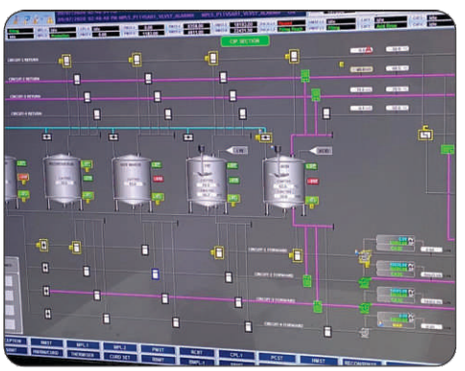
- Low Tension Power Distribution
- MCC
- Busbar Distribution

Programmable Logic Control (PLC) Scada /HMI Panel(Automation)

The Purpose Of A Plc Panel Is To Give The User The Ability To Control And Monitor The Entire Process. Monitor, Gather, And Process Real-time Data. Directly Interact With Devices Such As Sensors, Valves, Pumps, Motors, And More Through Human-machine Interface (HMI) Software. Record Events Into A Log File







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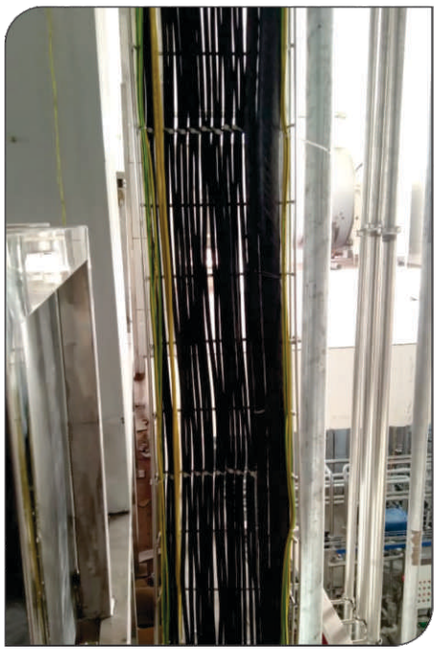
INDUSTRIAL CABLING, LAYING & TERMINATION SERVICE

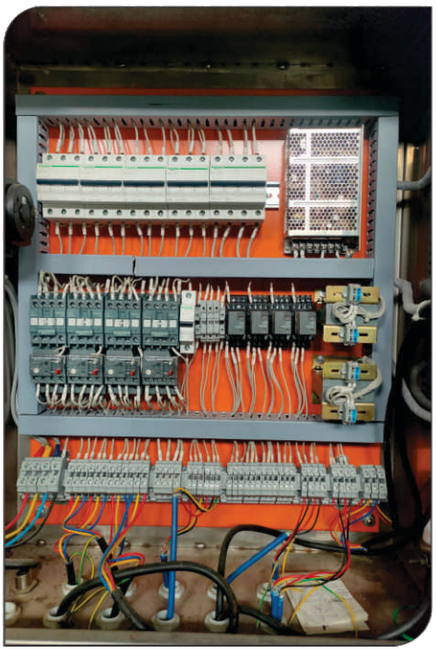
JSK Process Solution have an expert and Hard working Team who are performing best quality output for industrial cable distribution with proper dressing and professional termination of each and every size of cable with advance tools like cable Cutter, Crimping Tools, Punching tools, Ferruling machine, Lan Tester etc. Instrument Cable & Power Cable must be separated each other during Cable Distribution because of Feedback variation in instrument cable.













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INDUSTRIAL INSULATION SERVICE

We are supply the Insulation Material for Hot, Cold and Product pipe in varies size and material.
For Hot Insulation: Glass Wool, Rockwool
Cold Insulation: Themocoal/Puff Pipe section, Shoe Support
Product line: Nitrial Tube/ Sheet
Cladding: Aluminium Sheet with 24/26 Gauge
Other: Bitumen, GI Wire, Screw, Polythene etc...

Hot Insulation Includes :-
Layer 1: Glass Wool with Wire Tight fitting
Layer 2: Aluminium Cladding

Cold Insulation Includes :-
Layer 1: Hot/Cold bitumen
Layer 2: Thermocoal/ Puff Pipe Section
Layer 3: polythene rapping
Layer 4: Aluminium Cladding

Nitrial Tube/Sheet Insulation Includes
Layer 1: Adhesive Solution
Layer 2: Nitrial Tube/ Sheet
Layer 3: Tap Rapping
Layer 4: Aluminium Cladding








Our Team are providing Air tight fitting with proper layer wise insulation for Hot and Cold. Provide Suitable Finishing at Flange, Elbow, Dead Ends and Valves.

UTILITY SERVICE

- Steam boiler selection and supervise commissioning
- Refrigeration plant selection and supervision in installation & commissioning
- Cooling tower selection and supervision in installation & commissioning
- ETP plant concept design
- Softener and RO plant installation, commissioning
- Rain harvesting system selection and supervision in installation & commissioning
- Hydro flow System selection and supervise and commissioning
- We also supply equipments, spare parts and maintenance services for the same.










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SS FITTING MATERIAL

We can supply the best Quality of Stainless Steel Fitting material of reputed make.

SS 304/316 Pipe: Inner mechanical/Electro polished & Outer Mechanical Polished
Make: Alfa Laval/ Raj-Ratna/ Rensa/ Hindustan/ Shubhlaxmi/ Ratnamani/ Ishan

SS 304/316 Fitting Material: Inner Electro Polish & Outer Mechanical Polished.
Make: Alfa Laval/ Swastik/ Trisha/ IDMC/ Standard

Also supply Automatic Valves and Customized Valve Cluster Which Includes SSV & Mix Proof Valves of reputed Make like Gea/IDMC/SPX/Alfa Laval

- L Type Valve, LL Type Valve,
- LT/TL Type Valves, TT Type Valves
- LLL Type Valves, Butterfly Valves
- Bend, Equal/Un-equal Tee,
- Concentrate/Eccentric Reducer
- Pipe Holder, TC Clamp,
- SMS Union, Butterfly Valve,
- Non Return Valves,
- 2 Way/3 way Plug Valves,
- Spray ball, Amul Trap etc.





INSTRUMENTS

Sanitary (Hygienic) instruments supply and calibrate which generally used in Liquid Food products and Chemical industries

- Level transmitter
- Level Switch
- Electromagnetic Flow meter
- Flow Switch
- Conductivity Meter
- Temperature Transmitter
- Pressure Transmitter
- Flow Totalizer, Load Cell





OUR CLIENT

Amul The Taste of India
Savaj Dairy
Dudhsagar The Pride of India
MOTHER DAIRY maa jaisi
narmada dairy
Thirumala
srichakra
Dairy Power
MDFL DAIRY
MEHSANA DAIRY & FOOD PRODUCTS LIMITED
Hira Amrrit PURITY AT ITS BEST
Nandini Milk and Milk Products
Parag fresh
SHREE KRUSHNA DAIRY FARM
GAU PALAK
Pawfect
KHUSHBOO
Sapana ICE CREAM
CREAMITO
MANSI FOODS
MANOHAR
Ufresh
ATUL BAKERY
mama bhanja
Since 1982
shreeji dairy
MAHALAXMI
Aafreen
DAVAT Beverages
Coca-Cola
CRYSTAL
ABHI
Ayush
Sizland
Safal
SUNTARA
SENTA'S
Saaz Foods Nature's Perfect Food
AVIVA
GENEXT STEELS LTD.
Colgate
ADDICA
VANTARA
IPL Indian Potash Limited
adani Foundation



Dairy



Chocolate



Ice Cream



Beverages



Pharma



Chemical



OUR GLOBAL BUSINESS











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MAKE IN INDIA

स्वच्छ भारत
एक कदम स्वच्छता की ओर

Reg. Add. : 142, Parshottamnagar-1, Nr. Pani Ni Tanki, Opp.Ghanshyamnagar, Nikol, Ahmedabad-382352

Factory Add: Shed No. 31, Khodiyar Ind. Estate, Nr. Kotak Mahindra Bank, Road No.5, Kathwada GIDC, Ahmedabad-382430.

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