

CRP SYSTEMS



CAUSTIC RECOVERY PLANTS
 DESIGN & MFG OF CRP SYSTEMS
 UNIQUE PATENTED TECHNOLOGY

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	Model No.	Type of System	Evaporation Rate (kg/hr)	Steam Dry Sat. at 3 kgs/cm ² (g)	Power Consumed (KWH)	Cooling Water At 2.5 kgs./sq.cm(g) Inlet 33°C /Outlet temp. 39°C	Space mL x mW x mH	Operating Cost in Rs. Per 1 KL
5 KLD	CS005FF1	1FF Evaporators	250	135	2.39	23 cu.m/hr.	2.5 x 6.5 x 6.5	1137
10 KLD	CS010FF2	2FF Evaporators	500	180	2.98	23 cu.m/hr.	4.0 x 6.5 x 6.5	756
25 KLD	CS025FF3	3FF Evaporators	1250	355	6.56	38 cu.m/hr.	6.0 x 6.5 x 6.5	599
50 KLD	CS050FF4	4FF Evaporators	2500	565	7.75	56 cu.m/hr.	8.5 x 6.5 x 7.0	471
75 KLD	CS075FF4	4FF Evaporators	3750	850	10.14	84 cu.m/hr.	8.5 x 6.5 x 7.0	470
100 KLD	CS100FF5	5FF Evaporators	5000	950	13.43	90 cu.m/hr.	11.0 x 7.5 x 7.5	396
150 KLD	CS150FF5	5FF Evaporators	7500	1425	19.40	135 cu.m/hr.	11.0 x 7.5 x 7.5	396
200 KLD	CS200FF6	6FF Evaporators	10000	1600	22.38	150 cu.m/hr.	13.5 x 8.0 x 8.0	333
250 KLD	CS250FF6	6FF Evaporators	12500	2000	23.87	187 cu.m/hr.	13.5 x 8.0 x 8.0	331
> 250 KLD	We are customizing higher capacity design							

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CRP SYSTEM CHART

We specialize in
Designing and installing
innovative systems for
Caustic recovery plants (CRP)



CRP SYSTEMS

we recycle each drop of caustic

www.crpsystems.com

❖ **QUALITY ASSURANCE**

Top priority is given to attaining complete customer satisfaction. Delivering dependable engineering services has been the specialty of the company ever since its inception. We have successfully dealt with clients' specific problems that testify our efficiency in this domain. The services we provide are customer- centric and customized to meet the clients' specifications and requirements.

❖ **CONTACT US**

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Online Enquiry Form For Customers : www.crpsystems.com



❖ **PAYBACK/QUICK RETURN OF INVESTMENT**

The Caustic lye contributes to the main cost of the Mercerization process. The CRP system enables recycling the recovered caustic and reuse the same in the Mercerizing process. CRP systems reduces the cost of Mercerizing. The unique design and concept ensures a quick return on investment within 6-8 months, apart from a lower capital cost compared to conventional systems.

The return on investment calculation is computed in the Illustration for a 100 KLD capacity of CRP systems.

Return on investment calculation Caustic Recovery Plant (100KLD)

Present Condition Costing without CRP

	Unit		Rate (Rs.)	Total (Rs/hr)
Fresh Caustic Consume	250 kg/hr	100%	35	8750
Fresh Water consumption	4.75 m ³ /hr	100%	0.65	3
Dilute Caustic Sale	5000 kg/hr	5%	9	- 2250
Total (Rs/Hr)				6503
Total Cost (Rs./Annualy) → (300 days, 20 hrs. operation)				39,018,000 (A)

Payback after Installing CRP

Fixed Plant Cost	5000 kg/hr			9,900,000 (B)
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Operating Cost	Unit		Rate (Rs.)	Total (Rs/hr)
Steam	950 Kg/Hr		2 (per kg)	1900
Power	13.43 Kw/Hr		6 (per kw)	81
Manpower (3+1)	4 Person/Day		400 (per person)	67
Cooling Water	3.5 m ³ /Hr		0.65 (per m ³)	2
Total (Rs/Hr)				2050
Total (Rs./Annualy) (300 days, 20 hrs. operation)				12,300,000 (C)

Soft water Recycle	4 m ³ /hr	100%	0.65 (per m ³)	2.6
Total (Rs./Annualy) (300 days, 20 hrs. operation)				15,600 (D)

Positive Balance (Saving Per Year) [A - C - D] →	26,702,400 (E)
Payback Period (B/E x 12)	4.4 Months



❖ **Product:**

- 1) Caustic Recovery Plants
- 2) Lye Recovery Unit
- 3) Product Concentration Plant

Crp Systems offers Highly efficient caustic recovery plant which use in mercerisation plant in textile processing industries. textile fibers are treated in weak lye of caustic. CRP recycle this weak lye of caustic in strong lye.

Crp Systems is a multi-disciplinary engineering services company established in 2014. We offer high quality engineering support solutions to EPC leaders.

❖ VISION

To built up organization with client for their specific needs and help them by providing economical technical expertise to contribute to the success of business with customers and community.

❖ MISSION

Committed to deliver quality services in time and continuously improving services based on client feedback.

❖ ABOUT US

Having more than a decade of extensive experience, the company has made its mark as an accomplished Engineering Service Provider in the Zero Liquid Discharge (ZLD) systems for the manufacturing sectors in chemical, speciality chemicals, pharmaceuticals, petrochemicals, textile and process equipments. Our credibility stands on the customers' satisfaction through the time and swift delivery of dependable services for the industrial effluent management.

OUR PATENTED AND INNOVATIVE CRP SYSTEMS REDUCE THE INVESTMENT COST AS A RESULT OF

- UNIQUE THIN FILM TECHNOLOGY COUPLED WITH A COMPACT DESIGN
- COMPLETE SKID MOUNTED UNIT WHICH ELIMINATES THE NEED FOR ANY SITE STRUCTURE

CRP SYSTEMS REDUCE THE INVESTMENT COST BECAUSE WE DESIGNING BY UNIQUE PATENT TECHNOLOGY WITH COMPLETE SKID MOUNTED UNIT WHICH IS NOT REQUIRED ANY SITE STRUCTURE.

❖ SERVICES OFFERED

CRP Systems is one of the leading Designer And Manufacturer of Caustic Recovery Plants For Textile Industries, Process Industries For Green Enviroment And Batter Cost Effective Solution For Market cost sustainability Complete Designing and manufacturing of plant according to customer requirement.

Complete site on trunky basis with piping and structure.

Offers the operation and maintenance Contract of plant till the pay back of investment.

Offers the O&M contract as per the customer requirement..

❖ ADVANTAGE OF CRP SYSTEMS

1. Treatment of Caustic weak lye for recovering concentrated lye and recycled.
2. Recycling and reuse of the clear water condensate generated during the process.
3. It gives the zero liquid discharge from pollution control board, it gives complete environmental protection.
4. Return of investment within 6-8 months of commissioning of plant.
5. No alkaline waste water from the mercersing unit.
6. Huge Potential for saving and a quick payback time.
7. Complete skid mounted design that eliminates any need for fabric work at site.
8. Providing the caustic cleaning system by hydrogen peroxide injector after caustic concentration.
9. Provides complete environmental protection by facilitating zero discharge as desired by the pollution control board and no alkaline waste water from the Mercerizing Unit