

A sustainable, efficient and cost-effective solution for achieving Zero liquid discharge & Scale free operation

## ABOUT

The ScaleBan technology is a revolutionary break through in the treatment of hard water and it's lime scaling effects. It is non-invasive and non-chemical by design. It is suitable for practically all hard water treatment situations. It comes in the shape of a pipe and can be easily installed in the present cooling water circuit.

- Requires neither plumbing work to install nor chemicals for its operation.
- This On-line equipment does not require any energy for operation.

▸ It requires no regeneration or maintenance, resulting in Zero equipment down time and zero equipment deterioration.

## SCALEBAN SCENARIO

Direct use of ETP treated & RO rejected water in cooling tower with ZERO OPERATIONAL EXPENDITURE.

Unbelievable COC level of in cooling tower.

Cooling tower will be operated at very high hardness up to 20,000 PPM and at very high TDS up to 2,00,000 PPM.

Reduction in cooling tower blow down by 90%.

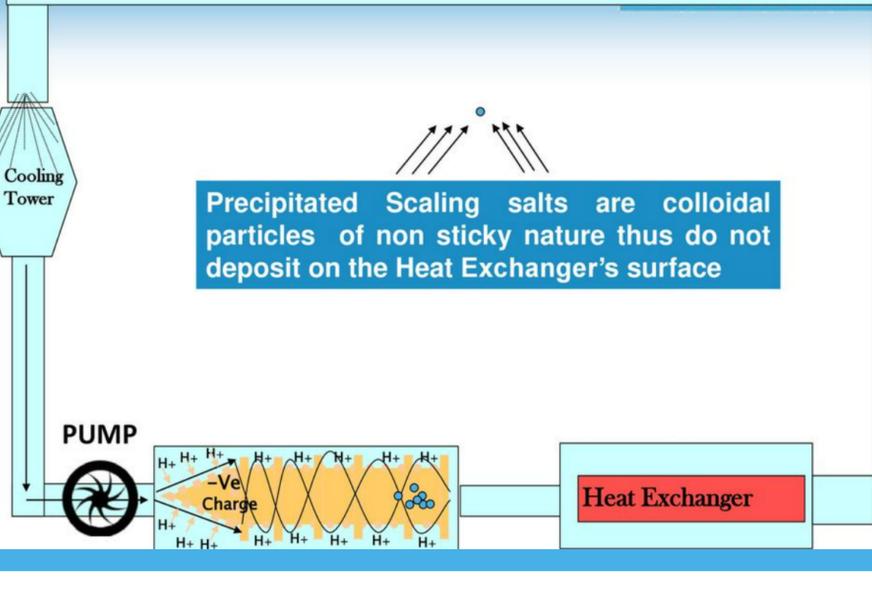
Elimination of Softener & anti-scaling chemical from cooling tower. Zero scale is guaranteed for 20 years.

No requirement of cleaning of the heat exchangers..

## HOW IT WORKS

The theory of working of SCALE-BAN is very simple. It makes the use of flow and chemical characteristics of water and precipitates out hardness causing salts of very small size as the water flows through SCALE-BAN. These salts are suspended in water because of being very light in weight and the turbulent flow of water. Thus, once the precipitation causing salts are precipitated and suspended in water, further precipitation because of temperature variation is not possible. The result is a totally scale free system.

## Working process of Scale Ban

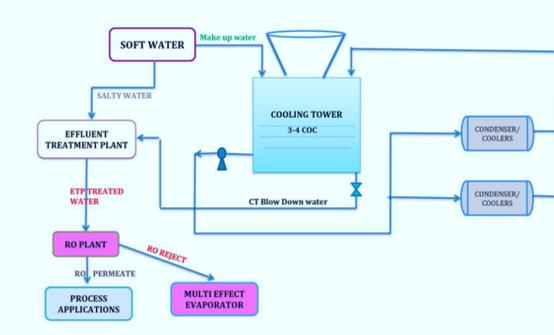


## WORKING PARAMETER

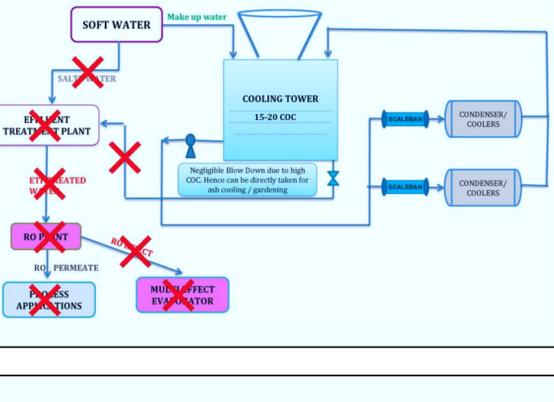
Neutral pH value of water should be maintained between

The Scaleban should be installed as close to Heat Exchangers.

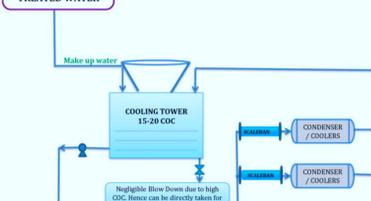
### CONVENTIONAL COOLING WATER TREATMENT SYSTEM FOR ZERO LIQUID DISCHARGE (ZLD) (WITHOUT SCALEBAN)



### NON-CONVENTIONAL COOLING WATER TREATMENT SYSTEM FOR ZERO LIQUID DISCHARGE (WITH SCALEBAN)



### FINAL SCHEME WITH SCALEBAN FOR ACHIEVING ZERO LIQUID DISCHARGE (ZLD)



## ADVANTAGES

Prevention of scale

Removal of existing scale

No corrosion risk

Saves fuel consumption

No energy consumption

No Pollution

Can handle variable water qualities

Saves water

Eliminates recurring costs of expensive chemicals, regenerative salts, resins & electricity

Chemical composition of the water does not change

## APPLICATIONS



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Didn't find what you were looking for? Contact us, we'll be happy to answer any questions you may have and help you with your business needs.

[Contact Us](#)

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