

Go Green Profitably

WOOW Series:

Acetaldehyde
Acetic Acid
Aluminium Chloride
Ammonium Sulfate
Butyraldehyde
Cellosolve
Dimethyl Sulfoxide
Dimethyl Sulfide
Formaldehyde
Formic Acid
Glycerol
Glycolic Acid
Glycols
N-methyl pyrrolidone
Phosphoric acid
Potassium Carbonate
Potassium Chloride
Potassium Hydroxide
Potassium Nitrate
Potassium Sulfate
Phenol/Phenolics
Polyglycerol
Para Toluene Sulfonic
Silica
Sulfuric acid
Sodium Bromide
Sodium Bisulfite
Sodium Chloride
Sodium Formate
Sodium Hydroxide
Sodium Metabisulfite
Sodium Sulfate
Sodium Sulfite
Sodium Silicate
Sodium Thiosulfate

Economically Recover Formic Acid from waste water stream.

Geist Novel Extraction Technology is the preferred solution for separation of Formic Acid (85%) from dilute aqueous stream.

Typical Case study:

Aqueous Stream Capacity	= 10000 kg/day with 4% Formic Acid
Market price of Formic Acid	= 65 Rs/Kg
Value of Formic Acid in waste stream	= Rs 75 lacs per Annum
Cost of treatment	= Rs 6 lacs per annum *

For Formic Acid recovery by NEXT:

Cost of Separation of Formic Acid (85%)	= 9.5 Rs/Kg of 85% Formic Acid **
Cost of Major Equipments	= Rs 20 lacs **
Other Project Cost	= Rs 30 lacs
Savings	= (Material Cost +Treatment cost-Separation Cost) = Rs 70 lacs

Payback Period = 8 months

Advantages:

1. Complete recovery of Formic Acid
2. Significantly lower capital expenditure. Very attractive return on investment (typically less than a year)
3. Works in presence of other organic or inorganic impurities.
4. Saving in the overall production cost because of increased recycle & reuse.
5. Reduced load on treatment and / or disposal.
6. Environmental friendly process and can be converted to zero discharge.
7. Easy to operate.

* Cost of treatment 0.2 Rs/Kg of stream

** Separation cost & Cost of equipments is case specific and may vary with the concentration of formic acid, stream quantity, impurities present & utility rates.

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