

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

Go Green Profitably

Economically Recover Ammonium Sulfate from waste water stream.

Geist Novel Antisolvent Technology is the preferred solution for separation of Ammonium Sulfate from its aqueous stream.

Typical Case study:

Aqueous Stream Capacity = 20000 kg/day with 18% Ammonium sulfate
Value of Ammonium Sulfate in waste stream = Rs 90 lacs per Annum
Cost of treatment = Rs 20 lacs per annum*

For Ammonium Sulfate (98.5% pure) recovery by Antisolvent Technology:

Cost of separation of Ammonium sulfate = Rs 4/Kg of Ammonium sulfate
Cost of Major Equipments = Rs 22 lacs **
Other Project Costs = Rs 28 lacs
Savings = Rs.65 lacs/Annum

Payback Period = 10 months

Advantages:

1. Complete recovery of Ammonium sulfate.
2. Significantly lower capital expenditure.
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. Very attractive return on investment. (Typically 1 year)
8. Easy to operate.

* Multiple effect evaporator with steam economy 0.4 and Steam cost Rs 1/Kg

** Separation cost & Cost of equipments is case specific and may vary with the concentration of Ammonium sulfate, stream quantity, availability of waste heat and other impurities present.

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