

**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 Formaldehyde from waste water stream.**

Geist Novel Extraction Technology is the preferred solution for separation of formaldehyde as formalin (37%) from dilute waste water stream.

**Typical Case study:**

Aqueous Stream Capacity = 10000 kg/day with 4% Formaldehyde  
Value of Formaldehyde in waste stream = Rs 58 lacs per Annum  
Cost of treatment = Rs 41 lacs per annum

For Formaldehyde recovery by NEXT:

Cost of Separation of Formalin (37%) = Rs 9/kg of formalin \*  
Cost of Major Equipments = Rs 20 lacs \*  
Other Project Costs = Rs 27 lacs  
Savings = Rs.70 lacs/Annum

Payback Period = 8 months

**Advantages:**

1. Complete recovery of Formaldehyde
2. Significantly lower capital expenditure & very attractive payback period (typically less than a year)
3. Possible to recover formaldehyde as paraformaldehyde.
4. Works in presence of other organic or inorganic impurities.
5. Saving in the overall production cost because of increased recycle & reuse.
6. Reduced load on treatment and / or disposal.
7. Environmental friendly process and can be converted to zero discharge.
8. Easy to operate.

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

**GEIST RESEARCH PVT. LTD.**

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