

**Standardize specification of CHEMICALS**

<b>Item/Nature of Work</b>	<b>Approved specification for chemicals</b>
Hydrochloric Acid (HCL) used for production of DM water	IS: 265-1993 or with latest amendment thereof (Technical grade)
Liquid Chlorine (Cl <sub>2</sub> ) for CW Treatment and raw water.	IS: 646-1986 or with latest amendment thereof
Sulphuric Acid (H <sub>2</sub> SO <sub>4</sub> ) used in CW treatment	IS: 266-1993 or with latest amendment thereof (Technical grade)
Caustic Lye (NaOH) used for production of DM water	IS: 252-1991 or with latest amendment thereof pure grade with minimum purity 47.5%
Caustic Soda Flakes (NaOH Solid) used for production of DM water	IS: 252-1991 or with latest amendment thereof pure grade with minimum purity 99.5%
Ferric Alum used for raw water, PT Plant	IS: 299-1989 or with latest amendment thereof Grade-II, Type-I
Poly Aluminium chloride (PAC) used for Treatment of Raw water	IS: 15573-2005 or with latest amendment thereof in powder form with medium basicity.
Liquor Ammonia (NH <sub>3</sub> ) used for pH adjustment in steam cycle	IS: 799-1985 or with latest amendment thereof AR-Grade. To be purchased only from following reputed manufactures: S.D.Fine Chemicals, E-Merc, Qualigen and Ranbaxy.
Hydrazine hydrate (N <sub>2</sub> H <sub>4</sub> ) used for dissolve Oxygen in the system	IS: 12086-1987 or with latest amendment thereof AR-Grade. To be purchased only from following reputed Manufactures: S.D.Fine Chemicals, E-Merc, Qualigen and Ranbaxy.
Tri-Sodium Phosphate (Na <sub>3</sub> PO <sub>4</sub> ) used for pH adjustment in boiler drum	IS: 573-1992 or with latest amendment thereof AR-Grade. To be purchased only from following reputed Manufactures: S.D.Fine Chemicals, E-Merc, Qualigen and Ranbaxy.
Hydrated Lime used for pH adjustment in raw water and neutralization of waste water	IS: 1540 (Part-II)- 1990 or with latest amendment thereof (Grade-A).