

BOILER WATER TREATMENTS INTRODUCTORY.

The treatment of Fluidised bed/LPB/MPB/HPB are based on two fundamentals.

- [1] Boiler make up which is based upon boiler blow downs i.e. continuous (CBD) and other system leakages on water side in which Solid or liquid non volatiles chemicals are lost on day to day basis. Such chemicals can be Phosphates Phosphonates or sulphites and Dispersants etc. (Anti scalant/Anti corrosive)
- [2] Boiler make up in which periodical boiler blow downs on hold up are covered in addition to steam side leakages or related to non return of process steam. This leads to loss of volatile chemicals like Hydrazine (Oxy. Scavanger), CHA or Ammonia (Neutralising Amines) or filming amines etc. (Anti corrosive coatings) Anti corrosives of Volatile nature.
- [3] Boiler circuit diagram working Pressure, Temperature and Physical Presence of Deaerators are said to play a big role in deciding the quantum of chemicals required, which also includes their percentage purities that dominates the overall treatment cost.
- [4] Finally, the make up water quality is governed by type of water designed like Soft water, RO water or DM water.
- [5] Special care is required while handling High pressure boiler treatments on basic chemicals which follow universal known pattern like Coordinate Phosphate treatment or Congruent treatment with Silica and Sodium carry over to steam and their prescribed limiting parameters.