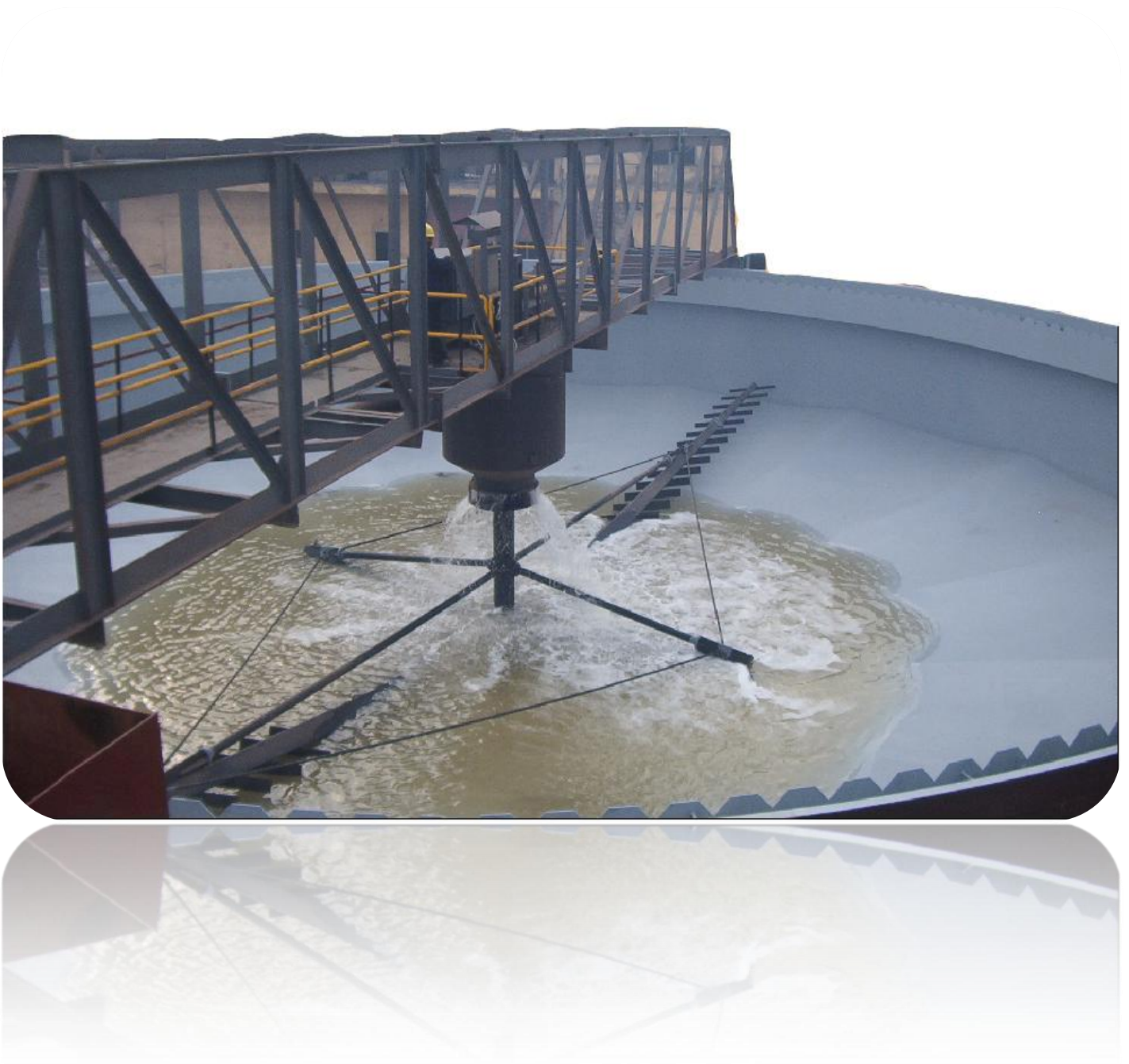


THICKENERS

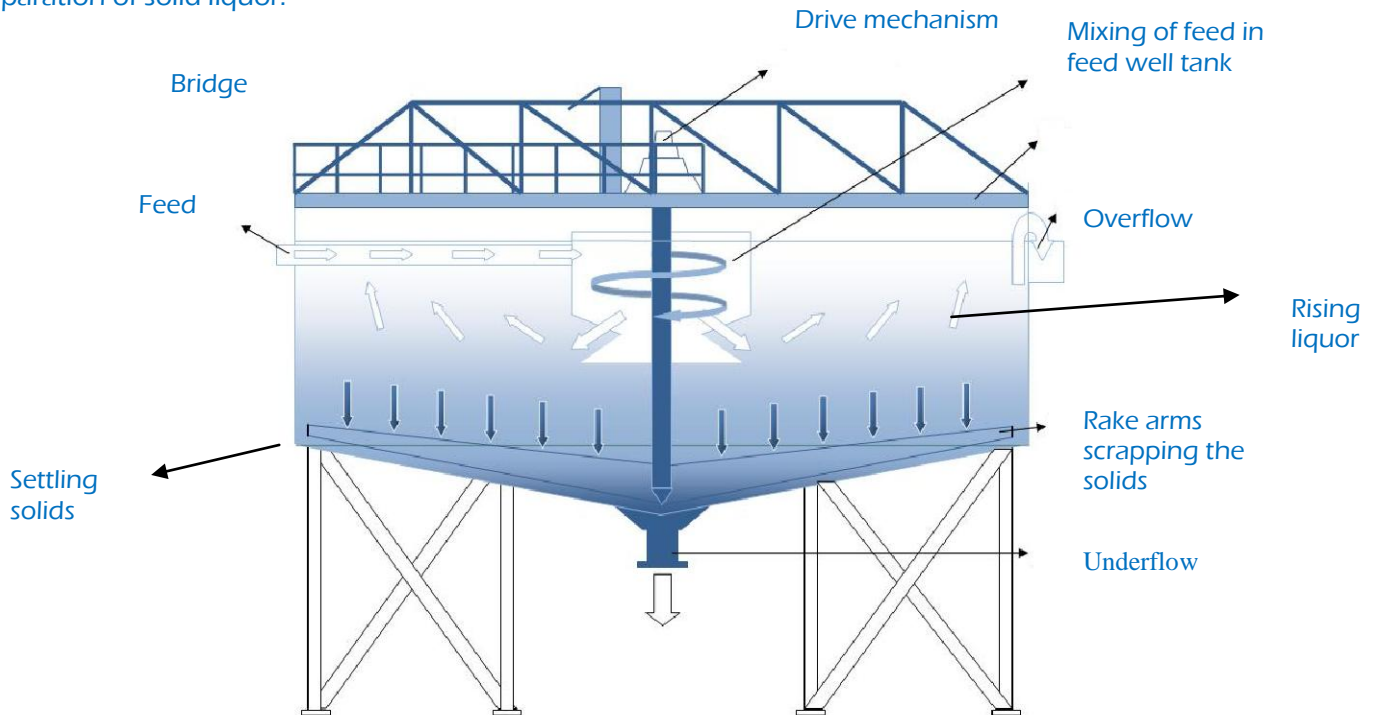


High Rate Thickener Operation

The feed slurry enters the feed well tangentially through the feed pipe. The feed slurry is pumped or fed by gravity to the thickener and shall have the energy to aid mixing of flocculant solution with it.

The feed well is sized adequately to take care of the venting of the entrapped air in the feed slurry. The de-aerated and flocculated feed is then discharged through the annular gap formed between the feed well and the deflector plate at a predetermined velocity into the main body of the thickener.

This ensures the distribution of flocculated feed radially in one plane across the full thickener area, aiding proper separation of solid liquor.



As the solids settle down, the scrapers of rotating rakes scrap the solids towards the underflow cone for withdrawal. Liquor component raises to the upper part of the thickener to flow into the overflow launder

Features of MBE High Rate Thickener (HRT)

Drive Mechanism

The combination of the Hydraulic Power pack coupled with Planetary Gear box Provides Robust yet a Compact drive system for the HRT.



Feed Well

The Auto dilution principle in our feed well tank ensures automatic dilution of the feed to maintain constant % of solids and hence helps in maintaining optimum Flocculent Consumption.



Deflector Cone

Deflector cone helps to distribute the feed slurry evenly throughout the thickener area. The gap between deflector plate and feed well can be varied depending on the requirement of the application.



Rake Arms

The Low drag Rake arms help in reducing the torque loading on the Thickener Drive.

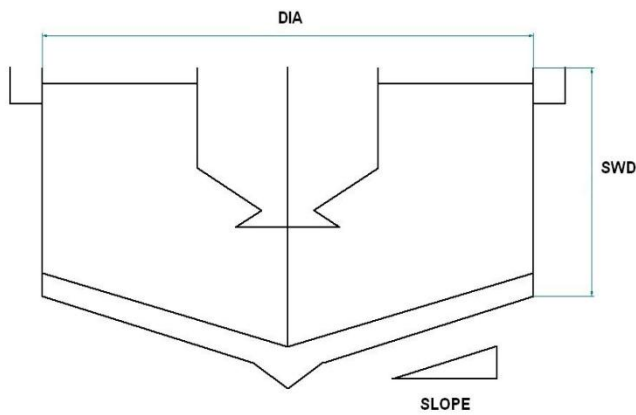


Automatic Flocculent system

The automated flocculent system ensures correct dosage of flocculent is added for the process.



HRT Sizes



Dia(m)	SWD(mm)	SLOPE
5-6	1800	1:4
7-8	2000	1:4
9-10	2200	1:4
11-14	2400	1:5
15-23	2400	1:6
24-28	2600	1:6
29-45	3000	1:6/1:12
46-65	3200	1:6/1:12

Our other range of Thickeners includes

- High compression Thickeners
- Conventional Thickeners

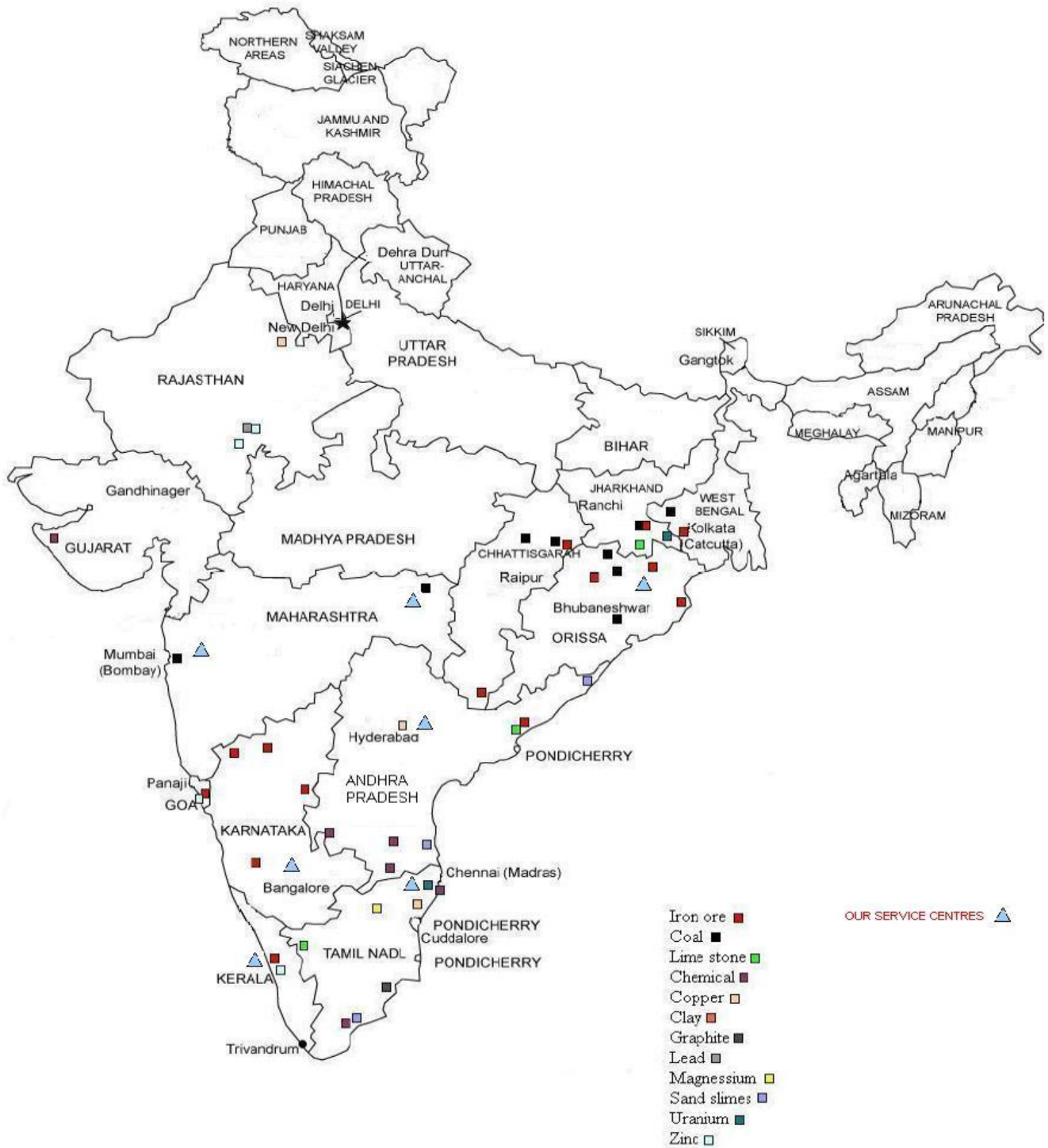
Our service

MBE provides end to end service for thickeners which includes:

- Testing of Slurry
- Sizing, Selection & Design of Thickeners
- Engineering, manufacturing and supply of Thickeners
- Erection and Commissioning Of Thickener and Mechanism
- After sales service which includes supply of OEM Spares and Service & troubleshooting of Thickeners



Presence of our thickeners for various applications



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