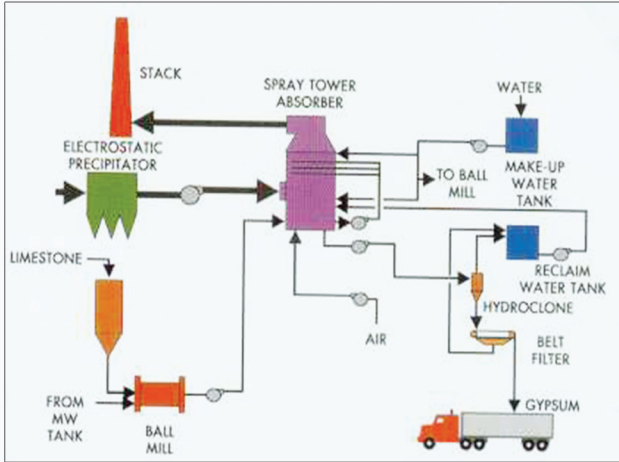


FLUE GAS DE-SULPHURISATION (FGD)

in line with new MOEF norms & CEA Guideline and global concerns for gaseous and particulate emissions, ERC Technology has gone into Technology partnerships with major Chinese FGD Solution Providers.

WE PROVIDE THE FOLLOWING SOLUTIONS.

- Detail Engineering, Technical Solutions and Consulting Services to customers in the domain of Air Pollution Control Systems (ESP, FGD/ De SO_x, etc.) for Power Plants and Steel Plants.
- Old plant visits and studies for FGD Installation feasibilities and FGD space lay out assessments.
- ERC along with Beijing Longyuan offers Sea Water FGD Solution with over 30 GW reference globally.



TYPICAL WET FGD COMPONENT LAYOUT

ERC ADDITIONALLY OFFERS

ERC provides proven Supply Chain link to Key Items

- C276 Clad Plates.
- Wet Ball Mill
- FRP Pipe and RC Circulation Screen.

ERC with Construction / Erection partner in Beijing offers full FGD Construction Advisory for total Absorber Installation, Anti Corrosion Engineering, Flue Duct & Pipe Structural Engineering, FGD System Commissioning and PG Test.

ERC's O & M Training Simulation Center **COMING SOON**

RESEARCH & DEVELOPMENT

We along with our technology partners have been involved in continuous improvements through continuous innovation & research with large Research Centers at Nanjing, China and Wuhan, China.

INSTALLATIONS

We have over 500 installations in ESP upgradation at Thermal Power plants and Steel Making plants through our unique patented HF TR and PF technology in China and South East Asia and have achieved upto less than 50 to 20 mg emission.

EXPERIENCE

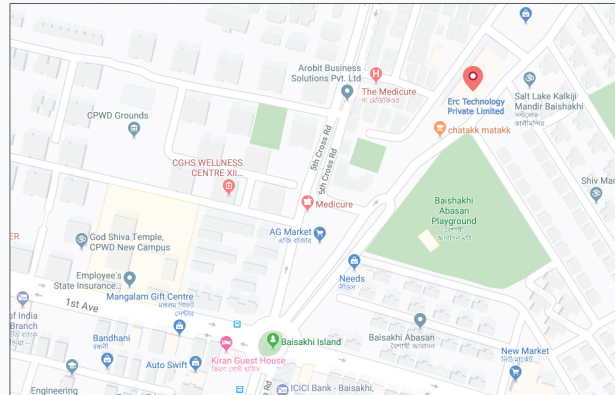
With a very experienced core team with over 30 years in the Industry, ERC facilitates and actively pursues agreements between Indian EPC Companies & Qualified ESP Manufacturer (QESPM)/ Qualified FGD Manufacturer (QFGDM) who we represent, for tendering in India projects in the Air Pollution Control Solutions and services.

EXPOSURE

Having extensive involvement in projects executed in China and having association with equipment manufacturers over 15 years, we invite and arrange joint visits of Indian customers to Chinese Installations & equipment suppliers for referral inspection.

WE WOULD BE HAPPY TO DISCUSS YOUR NEEDS & REQUIREMENTS.

OUR LOCATION



GET IN TOUCH

ERC TECHNOLOGY PRIVATE LIMITED

AG-112, Amp Vaisaakkhi Mall, Suit No. 806, 8th Floor, Sector 2, Salt Lake City Kolkata 700 091, West Bengal, India
Phone : +91 33 4601 8115, Website : www.Ercconsultancy.Com
E-Mail : Info@Ercconsultancy.Com

ERC
TECHNOLOGY PVT. LTD.

ESP UPGRADE SOLUTIONS

FGD TECHNOLOGY ASSOCIATE

LOW COST
LESS SHUT
DOWN TIME
UNIQUE SOLUTIONS

PF PLATES AT CE ROW OUTLET



ERC TECHNOLOGY PVT. LTD.

provides Engineering and Business Consulting Services & Solutions to Original Equipment Manufacturers (OEMs), Technology Providers, EPC Organizations and Partners in the domain of Air Pollution Control Systems (ESP, FGD/ De SO_x, De NO_x, Ash Handling Systems etc.) for Power Plants, Steel Plants, Cement Plants and others.

ERC is probably the only Indian technology company that had the privilege to site learnings of over 30 FGD project sites and over 40 ESP sites in China of capacity 135MW to 1000mw. We are proud to have worked with all major Chinese ESP and FGD companies since last 15 years.

Today ERC has exclusive access to Technology and India representation agreements with the prestigious technology owners from China facilitating India's leading EPC Companies to successfully bid FGD Tenders and provide ESP upgrade solutions, namely:

IN ESP DOMAIN

- Wuhan Wuan Environment Protection Technology Company, Wuan - ESP FC.
- Beijing Trustek Electrical Equipment Company, Beijing - HFTR AND PF-FILTER ESP.
- Chindias, Nanjing - Technology Through Research .

IN FGD DOMAIN

- Beijing Longyuan Environmental Protection Engineering Co., Ltd.
- Datang Environment Industry, India
- Jiangshu Fengye



THE TECHNOLOGY

ERC Technology is offering a **High Frequency HVTR** set technology for up gradation of exiting non performing ESPs and bring down to the outlet emission to the present emission standards . The advantages of HFTR technology over the other ESP retrofit technique is that

- Substantial Increase corona power, enhancing dust charging efficiency and collection.
- Output voltage wave ripple is much smaller.
- Average output voltage - 30% higher, thus more charging.
- Peak secondary current - 2 times higher.
- Faster Spark control, back corona detection and KV recovery.

ERC Technology is also offering a **Perforated Filter Technology**. The advantages of Perforated filter technology is that there is no requirement of enlarging the original ESP (increase ESP field or chamber) once integrated Perforated filter technology is selected.

- Flexibility of the number of fields for adding Perforated filter technology, thus increasing collection area.
- Enhances Gas Distribution between fields. No Pressure Drop Effect.
- Long working life of more than 25~30 years can be achieved.
- Most economic way compared to the expenses of retrofitting by increasing additional field.
- Lowest Shut-down time required for execution.

OUR TECHNOLOGY PARTNERS



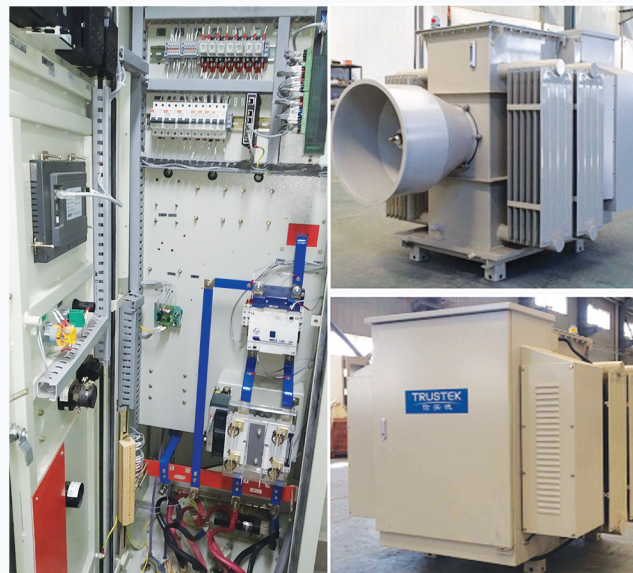
HFTR and Perforated Filter



FGD Projects



FC Solutions



THE PROCESS

SURVEY

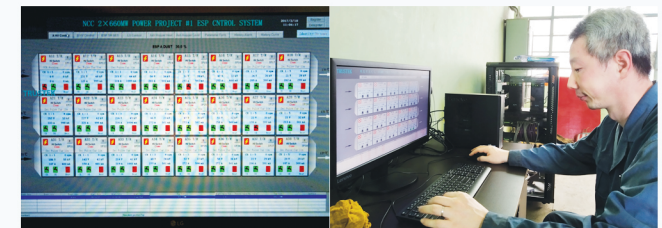
- Site study of the existing ESP orientation and Design Parameters.
- Existing Input Output gas composition parameters and current emission.
- Existing Mechanical internal condition.
- Existing Electrical TR Set and Operating Parameters.
- Client's Emission reduction requirement.

PROPOSAL

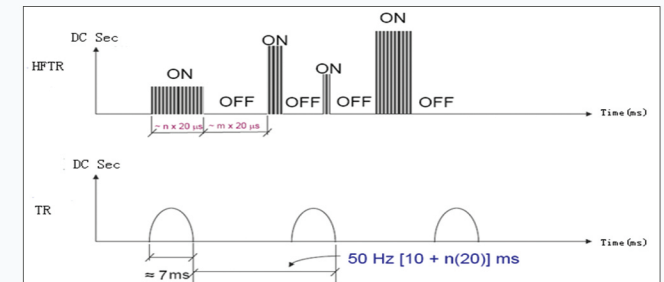
- Selection of number of fields to be upgraded with additional PF (perforated Filter) to increase collection surface.
- Selection of HFTR rating and Replacement of existing conventional TR.
- Configuration of EPMS for ESP monitoring and management.

EXECUTION

- Mobilization of Erection and commissioning activities.
- Performance test as per client's requirements.
- Fixing of the PF plates across the collection plates .
- Installation of HFTR by replacing the existing TR .
- Installation of EPMS and communication network for communication with HFTR and other existing TR panels and modification of existing TR panels for integration with EPMS for Rapper controls and control of other parameters.



CENTRAL MONITORING UNIT (EPMS) AT 210MW POWER PLANT IN INDIA



INTERMITTENT ENERGIZATION CURVE (HF VS. 50HZ)