



EMPOWERING FUTURE WITH TECHNOLOGY

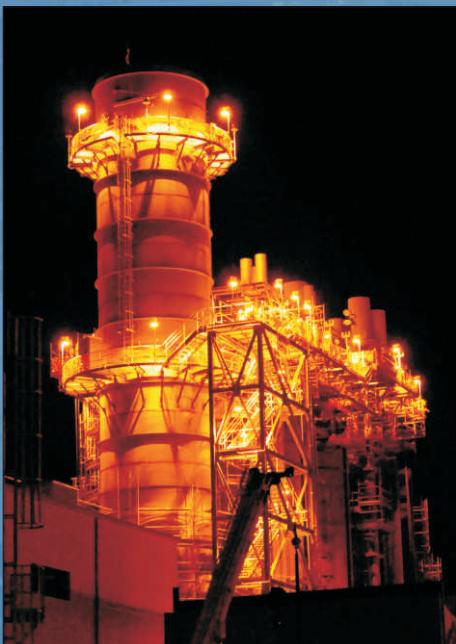
**STRATEGEM**<sup>TM</sup>

# WE STRATEGEM INDIA

Strategem Group is a solutions provider in the global market for the revamp and maintenance of equipment in core sector industries. The Group aims to provide return on investment by providing technological support for improving productivity, reducing maintenance cost and minimising downtime caused due to changeover period of equipment. There are various solutions like scientifically developed products, technologies and software used for enhancement and revamping.

## OUR SPECIALITY

- Consultancy
- Research, Development & Design
- Revamp Solutions
- Executions
- Operations & Maintenance
- Outsourcing



# SOLUTIONS

## OUR PRODUCTS

- Strategem Revamp Weld paste
- Strategem Special Steel
- OTR & Conveyor Belt Repair
- OTR Care Repair
- Strategem Anti Corrosive Solution
- Strategem Fluid Management
- Software Development for Core Industries
- Operations and Maintenance of Projects

## WELD PASTE P-6064

It is a solution to the Steel, Power, Cement, Mining Operation, Heavy Engineering and Mineral Processing Industries to avoid erosion abrasion and heavy impact to the equipments. In the current scenario maintenance has become very expensive and important.

We are not ready to compromise on quality and at the same time we are price conscious. normally Industries are doing this hard facing job with the application of Conventional process of welding or patching up MS Plates on the equipment where the effect of impact, erosion & abrasion takes place.

## STRATEGEM OTR CARE

This is developed with the state-art of Technology to meet the requirement of various Industries.

OTR TYRES are highly expensive and are imported from certain countries with heavy custom duty and the price. A STRATEGEM OTR CARE product has been developed with 100 % research and development for the repairing of OTRs to cut downtime of equipment due to tyre damage and repairs. The KAVLAR technology of sealing objects has proved to be a perfect solution to control damages like cuts, cavities, air pockets in the trade area, Ply separation and Burst at site.



## STRATEGEM FLUID MANAGEMENT

STRATEGEM oil cleaning system is used in core sector Industries to purify the HYDRAULIC OIL, TURBINE OIL, & TRANSFORMER OIL. The STRATEGEM machine has unique features like de hydration unit, de-gasification and moisture separator which removes water moisture or any other foreign particles from the oil and provides excellent quality from the contaminated oil with the help of electrostatic cleaning system.

This machine can be used for mining machineries, plant machineries, the automobile Industry or any other equipment, which contains of Hydraulic oil Turbine oil.



## SOFTWARE FOR CORE SECTOR INDUSTRIES

The software is useful for forecasting air & water qualities, meteorological parameters like temperature, humidity, rainfall and floods in water systems at any particular location.

Environmental Time series is observed at a location at equal intervals of time for appreciable number of cycles with the average length of the cycle and number of cycles considered for analysis. The software is GUI and Windows-based. It is user-friendly, easy to operate, fast, efficient and capable of producing charts, graphs and histograms for proper documentation.

# APPLICATION IN CORE INDUSTRIES

## MINING

This is the area where all heavy and expensive equipments run around the clocks to achieve the production level.

Equipments are very expensive and the maintenance is equally high due to continuous abrasion, erosion and heavy impact. The normal practice is welding or patching of MS Plates on the effective area for temporary relief. Now simply apply WELD PASTE on the effective area for excellent working life. Get more productivity and minimise downtime of mobile equipments as well as mining sites like CHP, OHP, Chutes liner, Cone crusher, feeder, rollers, Apron feeder, Flap gate and transfer points.



## STEEL, POWER & CEMENT PLANTS

BOWL MILL Equipment is very expensive and plays very important role in Cement and Steel Industries. The repair of worn out areas and the segment changes frequently is quite expensive and time consuming. The Weld Paste technology is used to revamp and upgrade the capacity of the equipment.

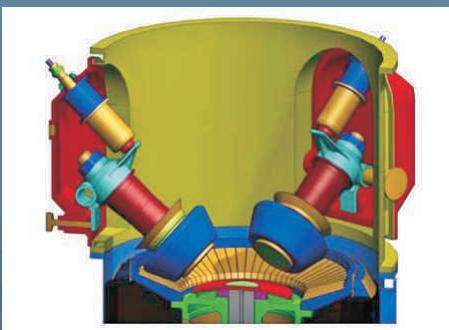
Now many large Indian corporates have adopted Weld Paste P-6064 technology as it has been proved that the product gives more working life to the equipment, reduces the expenditure, the down time and recurring repairs.



# THERMAL POWER SOLUTIONS

Downtime is important and costly for thermal generation and the operating cost is equally high. Solutions provided play an important role in the process of thermal generation from coal grinding to final production through turbine activation.

The bowl mill is major equipment in the thermal power generation plant which affects generation causing huge losses to the industry when it is down for repair or replacement of liners. Wed Paste has become an internationally accepted maintenance and repair solution to keep thermal power industries healthy and efficient. The total service of CHP, Reclaimer, Bowl mill, turbin and overhaul of the complete plant can be undertaken using this technology.



# STRATEGEM PROJECTS

The Strategem team is qualified to revamp and empower capacity of core industries to upgrade production levels.

Total Automation and infrastructure is provided for revamp of systems by a team of skilled engineers who conduct re-erection including design and civil construction at sites in many cases. Strategem undertakes turnkey projects, and aims to cater to the global market for the Core.





## FURNACE EFFICIENCY UPGRADES

Strategem Furnaces Aftercare regularly works with customers in calculating payback periods, balancing reduced operating cost and extended life of components against the cost of upgrading. Furnace upgrading exercises are often energy-related, high efficiency and fuel savings advantages are possible with modern equipment only.

Enhancements to existing equipment, leading to greater safety, improved efficiency and reliability, can include:

- Replacement fuel-efficient combustion systems
- Pulse firing schemes and self-recuperative burner systems
- Energy efficiency and control upgrades
- Furnace modifications for improved productivity or change of process
- Changes to comply with new health and safety requirements
- Uplift and relocation of existing plant
- Engineering studies/site investigations with regard to future upgrades
- Retro-fit projects to existing Strategem and associated furnaces
- Enhanced furnace linings
- Automation, Process & Data Logging



## RESEARCH AND DEVELOPMENT

Strategem continuously seek to innovate & to apply the most advanced technologies to revamp and upgrade the efficiency of equipments like boiler and furnace range. Developing advance environmental & highly efficient solutions.

We continuously apply new technologies to complement and improve our established product range. Our innovative products provide a wide range of solutions to suit exact needs of clients, with distinct benefits in cost efficiency.

We provide revamping & life enhancement solutions to different core industries and their equipments with advance technology



#### **Power Plant- Revamping of**

- Revamping of Bowl Mill section
- Boiler Tube Repair
- Wagon Tipper
- Coal Handling Plant (CHP)



#### **Steel Plant - Revamping of**

- Blast Furnace
- Sinter Plant/Coke Oven Plant
- Mill Section



#### **Cement Plant- Revamping of**

- Vertical Rolling Mill (VRM)
- Crusher



#### **Mining - Revamping of**

- Life Enhancement of Mining Equipments
- Heavy Earth Moving Machineries (HEMM)



#### **Off-shore Plant- Revamping of**

- Off-shore Platform Equipment
- Anti Corrosive Glass FLAKE Coating



#### **Petrochemical - Revamping of**

- Anti Corrosive Glass FLAKE Coating
- Coating for wear resist for abrasion

## **Our Clients**

### **Metal Industries**

1. Tata Steel
2. SAIL
3. Jindal Steel
4. ESSAR Steel
5. Bhushan Steel
6. NALCO
7. BALCO
8. NTPC
9. State Electricity Board

### **Mining Industries**

1. Coal India
2. NMDC
3. SAIL
4. Vedanta
5. OMC Orissa

### **Cement Industries**

1. Madras Cement
2. ACC
3. Chettinad Cement
4. Aditya Birla Group
5. Ambuja Cement

### **Power Industries**

1. NTPC
2. TATA Power
3. Reliance Power