



ESNAD INTERNATIONAL FOR MODERN TECHNOLOGY & CONTRACTING

PROJECTS & SOLUTIONS

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PROJECTS & SOLUTIONS

ESNAD Projects Division provides optimized solutions and designs supported by delivery of outstanding quality coupled with on-time on-budget performance are the key reasons for the satisfactions of Projects Division customers.

We offer diversified services to heavy, medium and small industries. Concept development, Basic Engineering, EPC are examples of the services offered by Projects Division to these customers.

These services may include the following:

**FEASIBILITY
STUDIES**

01

**DETAILED
ENGINEERING**

03

PROCUREMENT

05

**BASIC
ENGINEERING**

02

**PROJECT PLANNING
& MONITORING**

04

**ERECTION &
COMMISSIONING**

06

MATERIAL HANDLING SOLUTIONS

With accumulated experience and track record of serving the industry for decades and offering wide range of material handling equipment , loading and unloading solutions and storage systems for solid and liquid bulk materials .

ESNAD has developed significant experience to offer complete solutions for the sea ports and terminals including loading and unloading from ships and within port facilities.

SOLID MATERIALS HANDLING

Ship Loading:

- ⊗ Mechanical Ship loader.
- ⊗ Pneumatic Ship loader.

Filling and Packaging Systems:

- ⊗ Packing and Hooding and Wrapping.
- ⊗ Palletizing solutions bagging Solutions for Powders and Liquid.
- ⊗ Packaging system.

Conveying System:

- ⊗ Belt Conveyors.
- ⊗ Pneumatic Conveying System.
- ⊗ Bucket Elevators.

Ship Unloading:

- ⊗ Mechanical Ship Un loader.
- ⊗ Pneumatic Ship Un loader.
- ⊗ Grab Type Ship Un loader.

Storage System:

- ⊗ Steel Silos.
- ⊗ Concrete Silos.
- ⊗ Flat Store.
- ⊗ Stacking and Reclaiming System.
- ⊗ Truck loading System.



PNEUMATIC SHIP UN LOADER



STORAGE SILOS AND MECHANICAL UNLOADING SYSTEM

CRUSHING AND SCREENING SOLUTIONS

ESNAD provides innovative crushing and screening solutions which talent to deal with any raw material (Limestone, Gabro, Aggregate, Granite) with diverse input size with aptitude to regulate the reduction rates as your application requires.

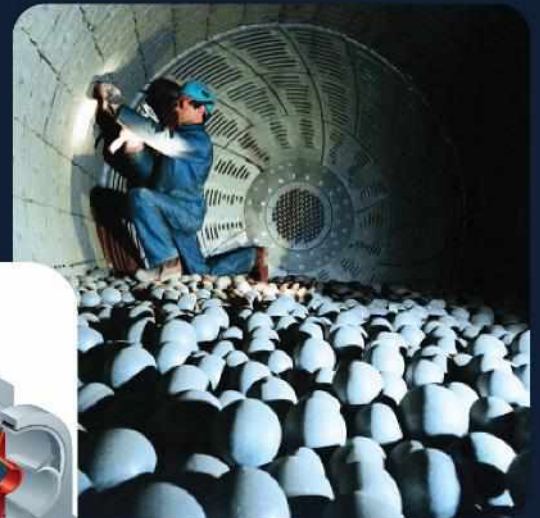
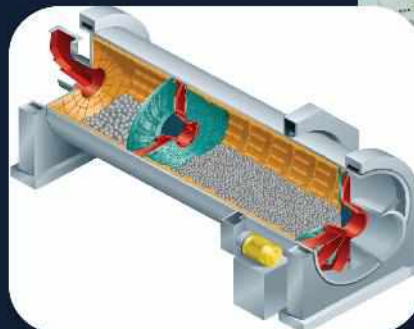
- ⊗ Jaw Crusher.
- ⊗ Hammer crusher, Cone crusher.
- ⊗ Screening equipment.



GRINDING SOLUTIONS

ESNAD can offer complete grinding solution including feeding equipment, grinding, discharge, storage and de-dusting which is developed particularly to match client's needs, and capable to produce the target capacity, blain size with optimum electricity consumption.

- ⊗ Ball Mill
- ⊗ Roller Mill
- ⊗ Roller Press
- ⊗ Mill internals (diaphragms, liners & grinding media)



PLANT OPTIMIZATION AND CAPACITY INCREASE

ESNAD provides complete plant optimization covering plant overall efficiency increase, energy cost decrease, achieving environmental requirement and providing pay pack period of investment.



PROCESS EQUIPMENT

ESNAD offers diversified range of process equipment for heavy industries including the chemical, mineral, oil & gas petrochemical industries and food processing such as and but not limited to:

- ⊗ Thermal processing equipment: Cooling Towers, Heat Exchangers, Pressure Vessels, reactors, columns, evaporators, dryers, kilns, Fans ...etc.
- ⊗ Flow process equipment: Pumps and Valves.
- ⊗ Separation Processing Equipment: Process filters, Coalesces, separators, Crystallization units, Thickeners, Belt filters, Compactors, Granulation units, ...etc.



ENVIRONMENTAL SOLUTIONS

ESNAD offers environmental solutions:

AIR POLLUTION CONTROL:

- ⦿ Fabric filters.
- ⦿ Electrostatic precipitators.
- ⦿ Scrubbers.
- ⦿ Mechanical collectors.
- ⦿ Gas coolers.
- ⦿ Gas reactors.
- ⦿ Hot gas ducts.
- ⦿ Dust handling.
- ⦿ General de-dusting filter.
- ⦿ Bag filters and ESP revamping.
- ⦿ Gas cleaning plants enhancement.
- ⦿ Complete ventilation plants design.
- ⦿ Consulting, air measuring, pollution sampling and analysis.

WATER & WASTE TREATMENT:

- ⦿ Water treatment.
- ⦿ Waste water treatment.
- ⦿ Waste management.



PORT CRANES

- ⦿ RMG , Rail Mounted Gantry Crane.
- ⦿ RTG , Rubber Tired Gantry Crane.
- ⦿ STS , Ship to Shore Crane.
- ⦿ Container Stacking equipment.
- ⦿ Harbor portal crane.



**MOUNTED ON RAILS OR
RUBBER TIRED PORT CRANES**

OIL, GAS AND BULK LIQUID LOADING AND UNLOADING EQUIPMENT

ESNAD can provide complete terminal facilities, including loading / unloading facilities, different type of tanks, handling equipment and other equipment and appurtenances used for the purpose of handling or transferring of liquids in bulk to or from a vessel.

- ⦿ Marine loading arms
- ⦿ Truck loading arms
- ⦿ Swivel joints
- ⦿ Pumps



INDUSTRIAL CONTROL AND AUTOMATION

- ⦿ Upgradation of Control Systems
- ⦿ DCS, PLC, RTU PANELS
- ⦿ SCADA, HMI SYSTEM
- ⦿ MCC, PFCP , DP



OUR SERVICES

Industries and utility providers often require a wide range of products and services. Aiming at reliably and economically fulfilling these requirements, ESNAD handles these requirements in a grouping mechanism according to nature of services and required needs. This has proved remarkably useful to focus our engineers' attention on how best to meet the requirement with new products and latest technologies. It also helped our clients navigate more effectively through our wide range of products.

- ① Feasibility study for industrial projects.
- ① Design and equipment supply of industrial plants.
- ① Erection & commissioning of industrial equipment & production lines.
- ① Optimization services: improvement of plant availability, enhance production, reduce shut-downs, optimize maintenance work and increase profitability.
- ① Rehabilitation of production lines.
- ① Electro mechanical services & maintenance contracts for industrial equipment.
- ① Project management and planning.



**ELECTRICAL ERECTION & COMMISSIONING
OF INDUSTRIAL EQUIPMENT**

Electromechanical Services & Plant Maintenance

- ⚙ Rehabilitation of conveying equipment and material handling system.
- ⚙ Drive system maintenance including reversing the girth gear and pinions.
- ⚙ Kiln shell replacement.
- ⚙ Kiln alignment and tyres grinding.
- ⚙ Refractory installation.
- ⚙ General mechanical shutdown maintenance.
- ⚙ Refurbish of electrical equipment and Upgrading of control system.



REFRACTORY SERVICES

KILN SHELL REPLACEMENT



For Modern
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