



engineering kinetics (pvt.) ltd.





EKL – At a Glance

engineering kinetics (pvt.) Ltd. (EKL) belongs to a engineering Group providing innovative engineering solutions to the industry for decades. EKL specializes in project management, fabrication of heavy equipment, on site mechanical construction of large magnitude and design, procurement, installation, commissioning & maintenance of industrial electrical & control systems.

In its early days, EKL got the essential breakthrough by winning contracts of very specialized nature from the multinational companies involving sophisticated welding techniques and advanced engineering skills. During the same period, EKL managed to penetrate the booming milk and fruit juice industry and successfully constructed and commissioned more than fifteen plants all over the country.

During the nineties, the country saw a lot of investment in the power sector and EKL managed to capture a large share of that market by installing over 20 plants of different capacities, ranging up to 136 MW. EKL has also added 600 MW to the national grid in in the years 2009-2010

Since its inception in 1982 as a construction specialist of the DDFC group, EKL has steadily grown and established itself as a front line company in this field.

Over the years, EKL has successfully constructed a large number of plants for the power, cement, oil & gas, chemical and fertilizer industries.

Industrial Sectors Served





Complete Electro Mechanical work including assembly and installation of bulb nose turbines (8 x 23.7 MW), generators, draft tube gates, intake gates and Hydro Electric Equipment for **184 MW Chashma Hydro Power Project**
EPC contractors Marubani Corporation/ Fuji Electric. in 2002

Rehabilitation of Barrage

Replacement, Rehabilitation, Installation, Assembly and related fabrication work involving 65 Gates at Taunsa Barrage for KURIMOTO, LTD. MINATO-KU, TOKYO JAPAN, Consultation services by consortium of SANYU consultants Incorporation and Yachiyo Engineering Co., Ltd- (2006-2009)



Power Generation

Thermal Power Plants

Electro, Mechanical and Piping services for complete turnkey operation of the 11 x 18V 48/60 Gen. Sets with exhaust boilers, steam turbine, including 220 KV double bus bar, Grid station, Engine Control and all related systems for

1 - 225 MW CCPP Diesel Power Station Atlas Power Limited
(MAN-AG Germany) – March 2008 to April 2009

2- 225 MW CCPP Hubco Narowal Power Plant
(MAN-AG Germany) – 2009-2010

Coal Fired Power Plant

Civil, Electro-Mechanical Construction for 2 x 45 T/H Steam at 34 Bar Circulating Fluidized Bed Boiler & 3 MW Power generation through steam turbine for ICI Soda Ash Plant at Khewra in 2012-13

Bagasse Based Power Plant

Bagasse Based Power Projects (2 x 26MW) which includes Site Assembly, Erection & Commissioning of Piping, Tank & Vessel, Insulation & Cladding and Appurtenances for JDW Sugar Mills at Ghotki and Sadiqabad in 2014

Hydro Power Plants

Complete Electro-Mechanical Assembly & Installation works (5 units x 290 MW) Generators and other related equipment & piping for

1450 MW Ghazi Barotha Hydro Power Project

Mitsui Corporation/ Toshiba Plant Construction, Japan in 2002-2004

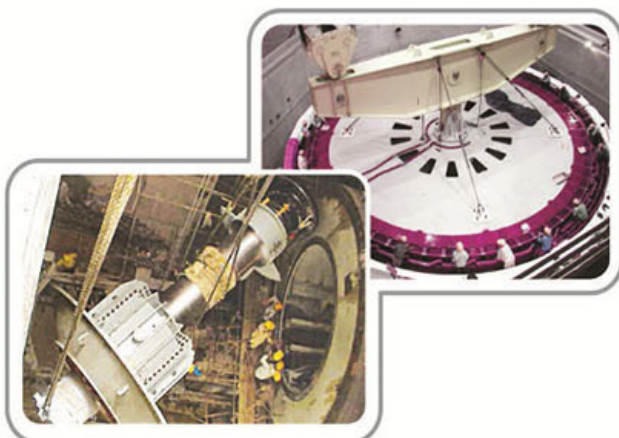


Oil & Gas Processing

Civil Electro Mechanical Construction of **Pakistan Petroleum Ltd. (ADHI Field)** LPG / NGL Processing Plant Phase II, capacity to produce 65-85 MTPD of LPG, 3000 bpd of NGL and 26,600 m3/hr of Natural Gas.

MOL PAKISTAN

- Civil, Electro-Mechanical Construction & Commissioning support of Makori East, Makori East 2 & 3, Mamikhel 2, Maramzai 2, Manzallai 9, 10 & 11 Wellheads at Kohat, KPK in 2012-14
- Civil Electro-Mechanical Construction of AUGMENTATION OF MAKORI (MOL) EARLY PRODUCTION FACILITY (EPF) With EPC: Schlumberger Pakistan in 2012





UEPL (United Energy Pakistan Limited)

Mechanical Construction of 2 x 400 GPM Amine units along with a 100 MMSCFD De-Hydration unit for Naimat Expansion Project Phase 4 in 2014.

Mechanical Construction of 50 MMSCFD Amine plant along with tanks and utilities for Naimat Expansion Project Phase 5A in 2015.

OGDCL:

Procurement (Supply), Construction, Installation/Erection, Pre-Commissioning, Startup & Commissioning Assistance for Sulfur Recovery Unit (SRU) of Dakhni Expansion Project of OGDCL in 2013.

Refineries

Mechanical Work Package-2 including heavy lifts at **PARCO Refinery** Construction for M/s Marubeni 1998-1999

Attock Refinery Limited:

Mechanical & Electrical Package for Up gradation – Isomerization Project (ISOM & DHDS/PPE Packages) which includes Equipment Erection including internals 6400 Tons, Steel Structure 3000 Tons, Piping 320,000 DI (SS, MS, Monel Alloy), 08 Tanks, Fire Proofing, Tie Ins and Shut Down Works. (EPC Hyundai Engineering Pakistan (pvt) Ltd)



Chemical & Petro Chemical

Ibrahim Fibers Faisalabad Polyester Plant Phase I, II & III

Total Piping including jacketed in Phase I, II 255,000 dia Inch and in Phase III 210,000 dia Inch

Expansion 50,000 TPA & 65,000 TPA of Soda Ash Plant

for ICI Khewra Pakistan Phase wise Refurbishment project; 1998-2009

Fertilizer

EPC Project for Demin Water Tanks for ENGRO Chemical Pakistan Ltd. Dharki

engineering, supply, fabrication erection including civil work foundations of demin. water tanks (4,000m³/ 400m³/ 100m³ capacity) **Nox & N2O**

Abatement System for Pak Arab Fertilizer Co. Ltd.

(CDM Project)



O & M Turn Around /Plant Maintenance Services

Electro-Mechanical Maintenance Services of UCH Gas Processing, which is 450 MMSCFD Amine sweating gas purification plant of Oil & Gas Development Company Limited (OGDCL) Balochistan.

> ATA 2003, 2007, 2010, 2011

> ATA 2011 (Qadirpur Gas Field-650 MMSCFD Plant)

Electro-Mechanical Maintenance Services ATA 2008 of LPG/NGL Recovery Plant of Pakistan Petroleum Limited.

Supply of skilled manpower for 2X362 MW AES Power Plant for Turbine Overhauling to KPS in 2007

Cement

D.G Khan Cement Company Limited, Khairpur (7000 TPD)

Electro Mechanical Construction and piping of the project including manufacturing of 6500 tons and erection of 10,000 tons of equipment and steel structure. 2005-2007

EKL has successfully executed Civil, Mechanical and Electrical construction services for following Waste Heat Recovery Power plants

- > Mechanical Construction of WHRPP (KALINA Cycle Process) 9MW for DG Khan Cement
- > Complete turnkey solution for 13.9 MW WHRPP- Design ,Supply, Fabrication, Erection and Civil Work for Maple Leaf Cement.
- > Mechanical Construction of WHRPP for Cherat Cement (7MW) ,
- > Mechanical Construction of WHRPP for Bestway Cement (14.9MW)
- > Mechanical Construction of WHRPP for Attock Cement (7MW)

Agro –Based

(Edible Oil, Fruit Juice & Dairy Industry)

- 15 Nos Dairy Plants ■ 06 Nos Powder Milk Plants
- 01 Nos Yogurt Plant ■ 01 Nos Margarine Plant
- 08 Nos Ice Cream Plants ■ 02 Nos Potato Chips Plants
- 06 Nos Sugar Mills ■ 08 Nos Edible Oil Extraction Plants
- 02 Nos Citrus Juice Concentrate Plants
- 02 Nos Hybrid Seed Processing Plants
- 04 Nos Maize Processing Plant Expansions





CIVIL WORKS

- ▶ Complete Civil Construction of Outfall Canal 7Km, Intake Structure, Canal Lining, Bridges, Hydel discharge structure for 06 MW Power Generation at Chashma Mianwali Site in 2013-15.
- ▶ Project for Improvement of Water Supply System in Faisalabad for Terminal Water reservoir in 2010-2011. Scope includes complete Civil construction of Terminal Water reservoir of 36,000 m³ including collector and transmission main pipeline.
- ▶ Civil Construction of Building works for Nestle Pakistan Limited at Kabirwala Site in 2009-2010



EKL Integrated Supply Chain (4PL) Solutions

EKL's Supply Chain Services Division is adequately equipped to arrange supply of wide range of products & services from reliable sources, with complete back-up service.

EKL Overseas Presence

EKL is registered & pre qualified with the following establishments in UAE: ADNOC, ADNOC-Dist, GASCO, BOROUGE, FERTIL, TAKREER, ADCO, ZADCO, ADGAS, ADWEA

Some of the UAE projects completed are:

1. GASCO/AJES: **RUWAI SULPHUR HANDLING TERMINAL 2 PROJECT**; Erection of Stacker and Reclaimer, Equipments erection, Structure Fabrication and erection, Piping, Painting & Pipe Supports fabrication and erection. Total **Equipment Erection: 10,134 TONS** with **Piping: 150,000 ID**
2. TAKREER/GS Engineering : **RUWAI REFINERY EXPANSION 2 PROJECT**; Installation of Internals for All Columns, Reactors, Vessels, Drums and misc equipments. Total equipments are 41 Nos with Total weight of trays are 1000 Tons and it comprising of Max. height of column 108 m with 8 m dia and fabrication and erection of firewater piping Project.

Some of the Projects in NORTH AFRICA are:

Construction of Wellhead Development (80 Nos), Early process Facilities, O & M, Debottlenecking Projects, Produced Water Re-Injection and 40MW Power Plant.

Pipeline Construction Services

Collector and Transmission main pipeline for water supply project Faisalabad (32" and 28" dia) Pakistan.

280 KM Pipe Line Construction in NORTH AFRICA for China Petroleum Engineering Construction Corporation (CPECC), for various projects in oil & gas field development. (4" and 18" dia)

Manufacturing

Mechanical Fabrication Capabilities

EKL offers on site fabrication services and shop manufacturing of equipment in stainless steel or higher alloys for Oil & Gas, Petro-Chemical, Fertilizer and similar process industries.

EKL is fully geared to assemble pre-engineered skids. All the major equipment and associated system can be configured and assembled on to pre-fabricated structured steel skids. Skid assembly for export can also be carried out at the Engineering Works.



Health Safety & Environment

Implementation of HSE Management System is managed by HSE Certified Professionals.

Safety Accomplishments:

EKL contributed towards achievement of 8 million contractor man-hours without reportable injury at ICI, PTA-Plant.

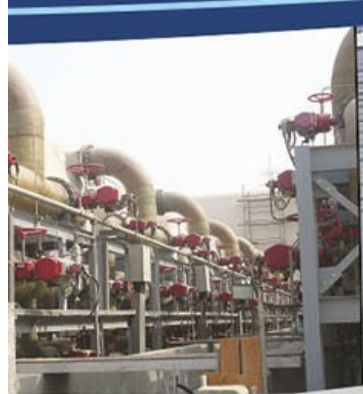
EKL achieved 5 Million man-hours without a lost time incident at PARCO and received "Safety Award" for the best sub-contractor.

EKL Achieved safe project sub contractor of the months three times in 2008 from Engro polymers & chemicals, Karachi.

EKL achieved "5 MILLION SAFE MANHOURS" without any LTI or any recordable accident for Attock Refinery Up gradation Project in 2014

Quality Assurance

EKL is ISO-9001-2008 Certified by Lloyd's Register of Quality Assurance QMS is maintained by competent team of QA/QC experts.



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