

KHD pyroprocess technology for a new 2,500t/d kiln line in Turkey

Under a contract with EKON Industry Construction and Trade Co., Turkey, as General Contractor, KHD Humboldt Wedag GmbH, Germany has received the order for design and supply of the process equipment for a clinker production line with a capacity of 2,500t/d clinker. The customer is Cimpor Yibitas Cimento Sanayi, T.A.S. in Central Anatolian Region of Turkey, subsidiary of Cimpor-Cimentos de Portugal. The new kiln line will be erected at the Hasanoglan Cement Grinding Station site, 30 km East of Ankara.

Technological highlights of this new kiln line will be the KHD combustion chamber

for enhanced use of waste derived fuels, the first one of its kind to be installed in a cement plant in Turkey and the **PYROFLOOR®** clinker cooler, meanwhile the 18th unit sold worldwide.

After the successfully commissioned cooler at Askale cement plant and the new installed system at Maras cement plant, this will be the third **PYROFLOOR®** installation in Turkey.

Core components with KHD design are:

- ▶ single string 5-stage Humboldt preheater with **PYROCLON®-R** calciner equipped with combustion chamber and **PYROTOP®** compact mixing chamber,
 - ▶ **PYRORAPID®** two-tires rotary kiln with diameter 4.2 m x 50.0 m long, tertiary air duct with dust settling chamber,
 - ▶ **PYRO-JET®** kiln burner and calciner burner for combustion chamber firing,
 - ▶ **PYROFLOOR®** clinker cooler equipped with a hammer-type clinker crusher,
 - ▶ monitoring and process control systems, e.g. kiln diagnostic systems **SCANEX®**, **RELATYREX®** system for tyre slip monitoring and **PYROFLOOR®** control as modern process controller for the new cooler.
- KHD's scope of supply includes engineering, design and supply of key equipment as well as supervision services for erection and commissioning. Commissioning of the plant is scheduled for the first half of 2009.

New 6,000t/d cement plant for Jaiprakash Associates, India

Humboldt Wedag India and KHD Humboldt Wedag, Germany, were awarded the order for engineering and equipment supply of a new 6,000t/d clinker production plant/HP II by Jaiprakash Associates Ltd. (JAL), India.

The contract was signed on 18th September 2007. Plant location is at Baga in the Solan district, Himachal Pradesh.

After the 10,000t/d production line, known as HP project, also located at Baga this is the second important contract of JAL placed with KHD.



Scope of supply ranges from the raw meal blending silo & kiln feed system to ESP for cooler dedusting along with clinker feeding to existing silo (clinker silo of HPI). Core components of KHD design are:

double-string 6-stage preheater with one **PYROCLON®-R** Calciner, one **PYROTOP®** compact mixing chamber,

one 3-support rotary kiln, 5.2 m Ø and 72.0 m long, tertiary air ducts with dust settling chambers,

PYRO-JET® kiln burner and calciner burner,

PYROSTEP® grate clinker cooler with hammer type clinker crusher.

Major contract for a Greenfield cement plant in Jordan

Katrana Cement Company, a wholly owned Jordanian subsidiary of Arabian Cement Company, Kingdom of Saudi Arabia, has placed the contract with KHD Humboldt Wedag GmbH, Germany, for a complete cement production plant with a capacity of 5,000t/d clinker, located 90 km south of Amman, Jordan.

The German affiliate of KHD Humboldt Wedag International, acting as consortium leader, will together with its partners Humboldt Wedag India Ltd., Gebr. Pfeiffer, Germany and ABB India Ltd. jointly be constructing this state-of-the-art plant. The consortium is to supply design, engineering and the complete mechanical and electrical equipment reaching from the limestone crushing to the cement storage and packing, including utilities and auxiliaries.

KHD's scope of supply of core cement process equipment is:

two impact crushers for raw material,

double-string 5-stage Humboldt Preheater with **PYROCLON® LowNOx** calciner and **PYROTOP®** compact mixing chamber,

rotary kiln, three-tires with 5.0 m diameter and 69.0 m length with tertiary air duct and a bypass system for 30%,

two **PYRO-JET®** burners for oil and petcoke/coal firing (one stand-by) and two **PYROBOX®** firing systems for calciners,

PYROFLOOR® clinker cooler, type PFC 650A with **PYROCRUSHER®** KHD's roll-type clinker crusher,

clinker grinding system with two ball mills, each in closed circuit with a high efficiency separator, 185t/h OPC cement with a fineness of 3,200cm²/g.

- Double chamber ball mill, 5.0 m diameter and 16.0 m length.
- **SEPMASER** separator, type SKS-Z 3500.

