Three new 8,000 t/d clinker production lines and a new 215 t/h clinker grinding plant for Grasim, India

Grasim Industries Ltd. (GIL) and Ultratech Cement Ltd., both part of the Aditya Birla Group, awarded KHD Humboldt Wedag, Germany and Humboldt Wedag India Ltd., both part of KHD-Group, contracts for the engineering and supply of equipment for three identical pyroprocess lines with a designed capacity of 8,000 t/d clinker each and for a clinker grinding system with a capacity of 215 t/h cement at a fineness of 3,800 cm²/g (acc. to Blaine).

Ultratech and its holding company GIL are together among the top 10 cement companies in the world. The three kiln lines will be located at Kotputli and Shambhupura, both in Rajasthan state located in western part of India and third line at Tadipatri in South of India. Commissioning of the plants is scheduled for December 2007 and April 2008 respectively.

KHD’s scope of supply includes for each of the three kiln lines – Grasim Kotputli, Aditya Cement line II and Ultratech, Tadipatri – the following components:

- 2-string, 6-stage, Humboldt preheater type PH 8864 with PYROFLOOR® Low NOx calciner and PYROTOP® compact mixing chamber,
- 3-tyre rotary kiln with 5.8 m diameter and 85.0 m length with two tertiary air ducts,
- PYRO-JET® kiln burners and PYROBOP® burner systems for calciner for coal/petcoke firing,
- PYROJET® PFC 862 A with roll-type PYROCRUSHER®, type PRC,
- PYRO-JET® PFC 862 A with roll-type PYROCRUSHER®, type PRC,
- PYROFLOOR® calciner and PYROCLON® – R Low NOx calciner and KHD combustion chamber including burner; PYROTOP® compact mixing chamber and tertiary air duct,
- PYRORAPID® rotary kiln of 5.2 m diameter and 65.0 m length with PYRO-JET® burner,
- PYROJET® PFC with clinker crusher.

The start-up of clinker production plant is scheduled for 2008.

The Panipat clinker grinding plant is located about 100 km north of Delhi at Distt Panipat in Haryana state. Core components of KHD technologies are:

- Roller Press RP 20-170 / 180,
- V-Seperator VS 96/26 (static separator),
- Ball mill, ø 3.4 m × 11.5 m,
- SEPMASTER®, type SKS-V 3750 high efficiency dynamic separator.

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The new plant will incorporate state of the art technology. Core components of the pyroprocessing line are:

- 2-string, 5-stage preheater with PYROCLON® R calciner and KHD combustion chamber including burner; PYROTOP® compact mixing chamber and tertiary air duct,
- PYRORAPID® rotary kiln of 5.2 m diameter and 65.0 m length with PYRO-JET® burner,
- PYROFLOOR® clinker cooler PFC with clinker crusher.

Start-up of clinker production plant is scheduled for 2008.

KHD – Competence in Clinker Cooler Technology

13 new kiln lines under construction with an overall capacity of > 54,000 t/d clinker ranging from 1,200 to 8,000 t/d and equipped with most modern and efficient cooler technology presently available on the market: PYROFLOOR® – The Great Cooler, retrofit and upgrade of two existing clinker coolers from 1,500 to 1,800t/d each with proven and reliable cooler technology: PYROSTEP® grate cooler.

The order was received from Ahlia Cement Company (AHCC), Libya for retrofitting and upgrading of the two existing clinker coolers at their Souk el Khamis cement plant.

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KHD’s scope of supply includes for each of the three kiln lines – Grasim Kotputli, Aditya Cement line II and Ultratech, Tadipatri – the following components:

1. 2-string, 6-stage, Humboldt preheater type PH 8864 with PYROCLON® Low NOx calciner and PYROTOP® compact mixing chamber,
2. 3-tyre rotary kiln with 5.8 m diameter and 85.0 m length with two tertiary air ducts,
3. PYROJET® kiln burners and PYROBOX® burner systems for calciner for coal/petcoke firing,
4. PYROFLOOR® - The new pyroprocess line – flowsheet.
5. The Panipat clinker grinding plant is located about 100 km north of Delhi at Distt Panipat in Haryana state. The core components with KHD technologies are:
   - Roller Press RP 20-170 / 180,
   - V-Separator VS 96 / 26 (static separator),
   - Ball mill, ø 3.4 m x 11.5 m,
   - SEPMASTER®, type SKS-V 3750 high efficiency dynamic separator.

The Panipat clinker grinding plant is located at Kotputli – flowsheet.

The Panipat clinker grinding plant is located at Panipat in Haryana state. The Roller Press operating with the V-separator in semi-finish mode is combined with the ball mill in close-circuit with the SKS-separator in classical KHD S-type circuit. The system is also designed for dry fly ash handling and feeding.

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6,000t/d dry kiln line for Russia

50 years after start-up of its first cement production plant in 1956 operating by the wet process, OAO Mordowcement decided to install a new cement production plant with a dry kiln line.

OAO Mordowcement in Komsomelski, Republic of Mordovia, Russia placed an order with KHD Humboldt Wedag GmbH, Germany and its subsidiary ZAB-Industrietechnik & Service in Dessau, for engineering and supply of a new cement production line with a capacity of 6,000t/d clinker operating by the dry process. The new line will be erected in the Alexjeewskij cement plant.

After the contracts for the reconstruction of 6 existing cement mills into closed circuit mills at the Alexjeewskij plant and for engineering and supply of a new 2,300 t/d kiln line based on the semi- wet process at the Staralexjeewskij plant, the new contract is the third one which KHD received during the last three years from Mordowcement.

The new plant will incorporate state of the art technology. Core components of the pyroprocessing line are:

- 2-string, 5-stage preheater with PYROCLON® -R calciner and KHD combustion chamber including burner; PYROTOP® compact mixing chamber and tertiary air duct,
- PYORAPID® rotary kiln of 5.2 m diameter and 65.0 m length with PYROJET® burner,
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Start-up of clinker production plant is scheduled for 2008.

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Negotiating partners after contract signing with Rajab R. Elmahmoudi, Chairman of the Board AhCC; Werner Zimmermann, Director After Sales, KHD as chief negotiators (in the middle from right to left).