

RBBR Infrastructure Pvt Ltd, Hosur 635 109, India

New vertical concrete pipe plant inaugurated in the South of India

The new pipe plant from RBBR Infrastructure Pvt Ltd, located in Hosur, is one of the first stationary vertical plants in the South of India. While until now mostly temporary plants are producing pipes vertically in molds on site, the goal of RBBR Infrastructure is to set new standards in terms of quality and production capacity with their new automated plant.



The official inauguration included a typical Indian ceremony



A 1cbm planetary mixer from Sicoma is producing the concrete in Hosur

In stationary plants in India, the spinning process is mostly used to produce the pipes. Although known for the good outer finish of the pipes, in terms of quantity a spinning plant cannot compete with a vertical plant without having lots of molds and space available. Thus, a vertical plant with immediate demolding process provides some reasonable advantages, especially in case of pipes up to 2,5m diameter. YashovardhanDaga, the son of the Daga family who own RBBR Infrastructure completely privately, states: „We hope to develop a brand name for ourselves, built on our quality and supply efficiency.“

The new plant in Hosur is the biggest pipe plant in South India now. It is the first pipe plant RBBR Infrastructure took into operation now, and according to the Daga family, they will add more plants already in the coming 2-3 years.

Construction works for complete greenfield plant

RBBR Infrastructure started in November 2010 with the construction works as preparation for the new plant, including necessary ground works, an independent electricity supply station, erection of 1500sqm factory and administration building, as well as setting up all the plant and machinery equipment necessary for the pipe production that was finally taken into operation in April 2011.

Concrete is produced with a batching plant supplied by Apollo Infratech Pvt Ltd. from India. Apollo also delivered the 1cbm planetary mixer that was manufactured by Sicoma. Two moisture sensors from Hydronix, one located in the sand bin and one located inside the mixer, guarantee a constant concrete quality which is important especially in case of dry concrete for pipe production.

RBBR Infrastructure simplified the delivery process for the batching plant as much as

possible by erecting a ramp for wheel loaders supplying the batching plant with sand and aggregates. According to Indian Standards, next to sand RBBR Infrastructure is using aggregates sized 12mm and 20mm, respectively. For the cement, according to customers' specifications, RBBR Infrastructure is using either OPC43 or sulphate resistant cement. The plant is designed to produce approx 25,000cbm of concrete per year.

After mixing, concrete is distributed with a conveyor belt to the pipe production machine. RBBR Infrastructure decided to purchase a Variant 2500 D from Schlosser-Pfeiffer, part of the German Hess Group, since this machine is easy to operate while offering high output numbers for pipe of different measurements.

With the Variant 2500 D, concrete pipe in a diameter range up to 2500mm can be produced. The machine works below floor level to keep noise emissions reduced to a minimum and to absorb the vibrations during compaction. The centrifugal force for the compaction is individually adjustable in accordance with product type and diameter. After filling and compaction, the pipes remain inside their mold jackets while being transported to the demoulding area to ensure their dimensional accuracy.

After demoulding the freshly produced pipes in the curing yard, they still keep on their top spigot to make sure that the circular cross section is guaranteed also after hardening.

Handling of the pipes inside the production hall takes place by overhead crane, and a manually operated trolley later brings hardened products to the stockyard that is located right in front of the hall. Currently, up to 100 pipes per day with different measurements can be produced in the new plant. The molds used for the pipe production were supplied by GCI Concrete Pipe Machinery Pvt Ltd out of India. GCI is an international company headquartered in Kansas City, USA and Bangalore, India. Since GCI is partnering with the Hess Group in India, they can guarantee local support which was a very important factor for RBBR Infrastructure when deciding for this pipe production machine coming out of Germany.

Starting their plant at the right time at the right place

With their new factory in Hosur, RBBR Infrastructure has the vision to produce next to



GCI supplied all of the molds that are used in the new plant



With the new Variant 2500 D production machine from Schlosser-Pfeiffer, the facility is the biggest pipe plant in South India



RBBR Infrastructure produces pipes with different diameters



RBBR Infrastructure's new plant in Hosur was designed to bring quality vertically cast pipes into the Bangalore market region

concrete pipes also manholes, box culverts, U-channels, blocks and other kind of products made out of dry concrete that can be used for drainage, real estate or road building.

Since they are targeting customers and construction sites within a range of 200km distance from their factory, the complete Bangalore region is in their main focus. And that not without reason: In the coming years, the complete Bangalore Sewer System will be renewed, and with their new plant, RBBR Infrastructure already now holds about 20% of the market share with respect to concrete pipes.

Yashovardhan Daga concludes: „We are aiming to bring quality vertically cast pipes in a market that is currently dominated by the horizontal spinning process of pipe making, and being an organized, medium sized company in an otherwise unorganized market run by very small companies“.

With their new factory at the Hosur location, they certainly made their first step towards that goal. ■

FURTHER INFORMATION



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