

Schlüsselbauer Technology, 4673 Gaspoltshofen, Austria

SCG's subsidiary invests in automated concrete pipe manufacture – a further milestone in the development of the renowned company group

PT. SCG Pipe and Precast Indonesia (SPPI) is a subsidiary of SCG, a leading ASEAN business conglomerate. With the vision to become a sustainable business leader in ASEAN, SCG has a long-term commitment to develop innovation to create high value added product and services. To pursue this vision, SCG Pipe and Precast Indonesia forms the basis for the set-up of a tried-and-tested Schlüsselbauer Technology manufacturing plant for concrete pipe production in Indonesia. Using the Precise machine, the personnel in this branch of SCG Pipe and Precast Indonesia will now manufacture concrete and reinforced concrete pipes far more economically and to a higher standard of quality than in the past. Concrete pipes in nominal widths of DN300 to DN1000 and a length of 2500 mm will be produced in the new plant with immediate effect. An electric removal truck will be used for protective transport of the freshly produced concrete products. As a result, only two employees are on shift to fill the newly-constructed production hall with flawless-quality concrete pipes.

During the winter months of 2014/2015, Schlüsselbauer Technology installed a Precise concrete pipe production plant at the site in Gunung Putri, located south of Jakarta in Indonesia. The decision to favour the technology produced by the Austrian plant construction company was made at SCG Pipe and Precast Indonesia on the basis of a detailed profitability analysis, taking into consideration the production capacity required, the investment sum and the current production and maintenance costs. The result of this analysis and the product quality of the pipes manufactured using this type of system, which has been used with great success for many years all over the world and particularly in Japan, formed the determining factor for those responsible for the decision at SCG Pipe and Precast Indonesia.

The Precise system will be used by SCG Pipe and Precast Indonesia to manufacture bell sleeve pipes up to DN600 in double production. Production of the DN800 and DN1000 nominal widths will be carried out in single production. In both cases, the products will be taken directly from the machine by a removal truck and transported to the curing area. The removal truck has a platform that enables the personnel to ergonomically fit and remove the retaining rings that protect the spigot ends of the pipes during transport and in the early curing phase. The production machine is equipped with a mould quick-change-system. This means that if a change of size is required during a working shift, the personnel are able to carry this out in no time at all. Switching from twin to single production and vice versa is also almost as quick. The Precise machine design enables manu-



Two moulds can be fed with concrete simultaneously thanks to a conveyor belt and the corresponding filling unit.



The Precise system, supplied by Schlüsselbauer Technology, can be used for single and twin production. Two concrete pipes are manufactured at SCG in a – even by international standards – remarkably short cycle time.

CONCRETE PIPES AND MANHOLES



One person controls the entire manufacturing process from the machine.



The second member of personnel responsible for pipe production moves the freshly-made products to the curing area, using a removal truck.



The concrete pipes usually remain for one working day in the curing area.

factory beyond the current production range of pre-cast concrete components, up to an external diameter of 1800 mm using the vibration compaction process, meaning that the new system technology can be used even if new products are incorporated into the manufacturing programme. In addition to the machine for pipe production, a cage welding machine from the European manufacturer Progress Maschinen & Automation AG has also been newly purchased.

By modernising its pipe production, SCG Pipe and Precast Indonesia has also immediately fulfilled the ambitious plans of the new Indonesian government. Improvements in the infrastructure sector, in addition to the energy sector, and social programmes are among the development objectives of the government that was appointed in October 2014. Pipework that offers long-term reliable functioning represents a significant component in the myriad of necessary infrastructure measures in this emerging economy region, with an average growth of more than 5% in the past years. Investment in modern concrete pipe production is a clear acknowledgement of durable reliable raw

materials and validation of the domestically added value associated with pipework.

The investment in Precise concrete pipe production of Schlüsselbauer Technology represents a modest and yet not insignificant contribution to, in this case, an essential improvement in products and processes. Innovation at SCG is far more than just a buzz word and this is furthermore demonstrated by the fact that an investment programme has been announced for 2012-2017, in which the establishment of two pre-cast concrete component plants with a total area of 2.6 km² represents a significant part. SCG, which currently has around 200 companies with approximately 51,000 employees, is therefore on the right track to further build on its position as one of the leading economic forces in the ASEAN region.

FURTHER INFORMATION



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