

Masa GmbH, 56626 Andernach, Germany

Beautify Your Way – new production line for high-quality concrete block products in Nepal

About 250 km westwards from Kathmandu in 2018, one of the most modern and largest concrete block production plants in Nepal was put into operation. Founded in 2017, the ISO 9001: 2015 certified company Asian Concreto Pvt. Ltd. has since then been producing a comprehensive range of high-quality concrete block products for a wide range of architectural projects. True to the company's motto "Beautify Your Way", Asian Concreto offers a wide range of products in different colors, patterns and designs making the company already one of the market leaders in Nepal. With the German mechanical engineering company Masa GmbH, Asian Concreto Pvt. Ltd. has a strong partner at their side, who supplied both the plant concept and the mature technology.

The idea to build a modern production plant for concrete blocks in Nepal matured already several years ago - not to say the least against the background of a necessary reconstruction of Nepal after the big earthquake in April 2015. The manufactured products should meet the European standard in terms of quality, strength and geometry and thus make a decisive contribution to the infrastructural development of Nepal.

Masa was shortlisted as a possible business partner right from the start. Factory visits to existing Masa plants in neighboring India as well as a visit to Masa Andernach, Germany concluded fruitfully. In the course of the negotiations, it quickly became apparent that - due to previous intensive researches in India - beautification models from Dubai, Middle East and Europe with very precise ideas about the future "Next Generation" product portfolio needed to be introduced in Nepal. In addition, the company founders had extensive knowledge and experience in both the manufacturing and distribution of



Flooding of the site after heavy monsoon rains



The new production facility in Nawalparasi, Ramgram arises

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Assembly of elevator, lowerator and finger car



Since June 2018, high-quality concrete blocks and pavers are produced in Ramgram



Aggregate hoists to the Masa concrete mixers

building materials through their relationships with their existing business portfolios. When choosing the location for the new Masa L 9.1 plant including a Masa dosing and mixing plant, the logistics were well considered to have the plant at Nawalparasi, Ramgram, not far from the historical city of Lumbini, an UNESCO Heritage, the birthplace of Siddhartha Gautama, the founder of Buddhism.

With determination through the planning and construction phase

Both Masa and Asian Concreto joining hands in Germany in October 2016, the Masa project went through all the planning and production phases quickly and easily, financing and Governmental clearance issues were sometimes very difficult, which is typical for the country Nepal. Due to the "season of the winds" (Ritu Hawa), Asian Concreto had to face few months delay: heavy monsoon rains flooded the new site before the new production hall could be erected about 1 m above normal terrain height to cope with such flooding.

But despite all odds, the decision makers of Asian Concreto always pursued a very specific goal and proved tenacity in the implementation of the set timetable. The commissioning of

the concrete block production plant in June 2018 confirmed everything. Since then, Asian Concreto has produced, among other things, concrete slabs, kerbstones and pavers with and without a colored surface of the highest quality.

Fully automatic concrete block production with Masa block making plant L 9.1

When planning the block production line, the proven Masa modular system was used. Standardized and tested components in combination with the Masa plant control software finally deliver products that meet all expectations.

The Masa dosing and mixing plant includes the main and face mix concrete mixers PH 1500/2250 and PH 500/750, a 6000 kg charging scale, two cement scales, the Aquados water dosing, a Masa 4-fold color dosing, a bucket conveyor with double bucket and other reliable components and complete solutions for the production of consistently good concrete.

The Masa concrete block production machine L 9.1 with frequency-controlled vibration is designed for a production pallet size of 1400 x 1100 mm. The already extensive basic equipment of the Masa L 9.1 was supplemented by, among



Concrete transport via bucket conveyor to the concrete block making machine

other things, an automatic mould change package and the integration of a height limiter function for high-precision production.

The freshly produced blocks are transported to the curing area via the reliable Masa standard components walking beam conveyor, elevator and finger car (10 t carrying capacity, 16 floors and a floor height of 400 mm). The curing area is equipped with a Masa ventilation system. The hardened products are transported by means of a finger car, lowerator and walking beam conveyor to the energy-efficient and oper-



Production monitoring



Manual quality control of the freshly produced concrete slabs



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Masa Cuboter

ating cost-optimized Masa Cuboter, which operates fully electrically. With this modern cubing technology, the concrete blocks are prepared for removal.

The plant cycle is closed by a cross transport with an upstream cleaning brush, scraper and a turning device, so that the empty production pallets can be returned to the block making machine.

Trend-setting facility for Nepal

With this concrete block making plant in Ramgram, Nepal, Asian Concreto sets a clear mark in the Nepalese market. Thanks to the high performance of the Masa stone production line, the delivery areas can be operated quickly and reliably. Both Mr. Manish Roongta and Mr. Anil Jatia (Directors of Asian Concreto) were more than satisfied throughout the project. It is now planned to set up a network of distributors and showrooms across Nepal, supported by a highly skilled team of professionals and technicians. So every day, the motto "Beautify Your Way" - in Nepalese "सुंदरता को पाइला" - is put into action with the German know-how from Andernach. ■



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FURTHER INFORMATION



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