Al Ourifan, Kuwait’s leading construction sand suppliers expands their CDE installation with M4500 sand washing plant

Al Ourifan, Kuwait, has upgraded its CDE sand washing installation with a higher capacity modular wash plant which offers feeding, screening, sand washing and stockpiling on a single compact chassis.

Al Ourifan, a Kuwaiti construction company and quarry operator, provides aggregate materials to the local building industry. The company’s production changed dramatically three years ago when Al Ourifan adopted sand washing to increase the quantity and quality of their product.

In 2013, the company purchased a CDE M2500 E3X sand washing plant to treat raw wadi sand in order to obtain a 0-5mm washed sand for use by the local construction industry. Quantity and quality of its products increased and in turn demand for Al Ourifan’s offering grew. Within a year of successful commissioning, the company owners decided to purchase a powerful upgrade of their existing M2500 wash plant that would allow for the company to increase production and diversify its offering by adding 0-5mm washed concrete sand to its portfolio. The CDE M4500, commissioned in April 2016 to run alongside the M2500, has dramatically increased Al Ourifan’s capacity by injecting an extra 200 tonne-per-hour dimension to the company’s sand washing operations. Today Al Ourifan’s M2500 produces 100 tonnes per hour of washed sand whilst its M4500 produces 200 tonnes per hour of concrete sand, enabling the company to meet its clients’ requirements in terms of quantity, quality and speed of delivery.

Mr Ourifan, owner of Al Ourifan Construction, said: “With the construction industry leading economic growth in Kuwait, sand quality-enhancing systems are more than ever the key to keeping a competitive edge, with demand for high quality sands and aggregates driving construction companies to raise the stakes by adopting innovative technologies.

“Our CDE M2500 had proven to be an excellent choice in terms of reliability in production of different grades of sand and return on investment. When demand started to grow beyond the capacity of the M2500, we naturally turned to CDE for an upgrade.”

**The M4500**

Designed to accommodate an ‘all in’ feed of material to wash and grade three different types of material simultaneously, the M4500 presents opportunities for
significant returns on investment through increased production of quality sands and maximum efficiency.

With a capacity of 450 tonnes of materials per hour, the M4500 is a higher-capacity evolution of the M2500. Introduced into the market in 2010, it has revolutionised the mobile washing market. It was the first machine in the industry to combine feeding, screening, sand washing and stockpiling onto one compact chassis. Although packing an impressive number of features, such as a feed hopper and conveyor, a double deck 16x5 ft screen, and an EvoWash sand washing plant, the M4500 can be deployed in record time and accommodated in a small footprint thanks to its modular design.

Cost savings on all fronts

Water
The Al Ourifan M4500 processes 220 tonnes of material per hour. To ensure optimal efficiency in a dry environment where every drop of water matters, Al Ourifan has installed a CDE AquaCycle, a highly effective water recovery system benefiting both the business and the environment.

Mr Ourifan explains: “The issue of water availability is a primary concern for all construction companies and quarries in Kuwait and lack of water is a deal breaker where sand washing operations are concerned.

“With our CDE AquaCycle A400, which has a 400m³/hr capacity, we recycle up to 90% of the water used in the sand washing process, with the added bonus of reducing the environmental impact of our operations.”

Energy
Ruchin Garg, CDE Regional Manager for MENA, adds: “Water and energy consumption costs are a significant factor in the running of a sand washing operation and directly impact on the customer’s return on investment. The addition of the CDE AquaCycle to the Al Ourifan plant ensures that our customer has complete control over his operations because he manages his water in an optimal manner by recycling up to 90% of the waste water in his plant.

“In addition, as the CDE equipment is designed to be managed through a user-friendly one-touch electric system, Al Ourifan’s energy costs have reduced by approximately 75%.”

Time
After being processed and classified, the final products are stockpiled. This is facilitated through the inclusion of three integrated stockpile conveyors and a radial conveyor to ensure maximal stockpile capacity, eliminate unnecessary double handling of the material and reduce vehicle movements on site, bringing additional cost savings.

The integrated dewatering screen on the integrated EvoWash sand washing plant also allows for the material to be much drier and ready for sale faster. The elimination of fines loss makes it easier to manage ponds and reduce maintenance costs.

Substantial savings on the running of the installation coupled with its built-to-last modular design means that CDE sand washing systems are always a winning choice in terms of reliability, flexibility, and return on investment.”

Direct contact for enhanced customer relations

As CDE representatives are based locally, there are no communication or time zone barriers. Garg explains: “Being based in the Middle East means that we are only just a phone call or a short trip away, so I have the opportunity to visit Mr Ourifan
and the Al Ourifan CDE plant regularly. It allows us to iron out any arising issues and keep the conversation going on how CDE can help to reach new performance requirements quickly and efficiently, as we did with the introduction of the M4500.

“Our experts work closely with clients on location to design and develop the most efficient and value-for-money installations”, Garg continues. “As CDE Global builds installations in its dedicated production facilities in Northern Ireland, the final product is tailor-made to each client’s exact specifications. This ability to control the product from start to finish is key to delivering tailor made turnkey plants that will take minimum installation time and produce high returns on investment.”

“The flexibility offered by the CDE equipment is also a very attractive proposition to companies that want the option to expand their operations in the future. Al Ourifan is a case in point.”

ENDS

Notes to editors:

CDE Global

- CDE Global is the leading provider of washing equipment for quarries, mines and recycling operations on the global market.

- The CDE equipment range has applications across a wide range of materials and is delivering significant efficiencies in the construction and recycling, mining, specialist industrial sands and environmental sectors.

- Working across 5 sectors and 8 regions CDE has been co-creating with customers for over 20 years to deliver collaborative, imaginative and unique processing systems.

- The CDE Global Design Headquarters are located in Northern Ireland and the company also has bases in Kolkata, India to serve the Asian market, São Paulo, Brazil to serve the Latin American market and North Carolina, USA, to serve the North American market. CDE also has representatives based in North Africa, Sub-Saharan Africa and the Middle East.

- For full details on the range of products manufactured by CDE Global, please visit www.cdeglobal.com

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