

Elgi: 'all-in-one' partner in oil & gas industry

Oil & Natural Gas Corporation Ltd. (ONGC), an Indian public sector oil and gas industry, is one of Asia's largest companies involved in exploration and production of oil. It contributes 77% of India's crude oil production and 81% of India's natural gas production.

The industry uses a variety of control devices to operate the drilling equipment at sites. Air compressor is primarily used for pneumatic actuation of these controls and valves that operate the drills. Only high quality air can ensure a consistent performance of vital instruments of the drilling equipment. It follows that compressors employed in this work need to deliver high performance over extended periods, mobility and location flexibility being absolutely critical.

ONGC was often faced with problems relating to mobility and installation of air compressors around the oil/gas platforms at various sites. They reviewed the existing compressed air system and realized that an integrated compressor container system, housing together the compressors, dryer, filter and receiver, would solve their problem. To this challenge, Elgi could easily provide them a solution, meeting their expectations, from its experience, and cost-effective way of providing comprehensive air solutions.

Elgi designed and offered a customized solution: an 'all-in-one' compressor container, combining the advantage of stationary screw compressor with the location flexibility of a portable compressor. This 'all-inclusive' compressed air system is designed on a unique concept which integrates 2 numbers of 55 KW screw compressors (one working and another stand-by), a refrigeration dryer and an air receiver neatly installed in a compact container unit. It offers the possibility to move the compressed air system to the point of use. Installation costs to connect ancillaries and to bring the compressed air to the location are avoided. The operator can simply connect the machine to the plant's power supply and compressed air network, to put the compressor into operation.

Elgi has supplied 11 compressor containers to the ONGC, through Bharat Heavy Electricals Ltd (BHEL). The unit delivers FAD of 276 cfm at pressure up to 11.5 kg/cm. Inside each container compressor that were supplied, lies rotary screw compressors featuring a specially designed airend with flow-optimized N profile rotors which deliver more compressed air for less energy consumption.

When compared to conventional compressors, Elgi's all-in-one compressor container has offered ONGC the benefits of minimum installation costs and ease of mobility around the sites, where space is often a premium.

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