



Sinjhor Gas Field Sanghar, Pakistan

Epoxy Grouts For Pocket & Base Plate Grouting
SikaDur 42 MP Slow



Sinjhor Gas Field, Sanghar Grouting of Feed & Sale Gas Compressors With Sika Grout

Project:

The Sinjhor field is located in Sanghar District, 22.5 km northwest of Sanghar in Sindh Province. It is a joint venture between OGDCL (62.5%), OPI (15%) and GHPL (22.5%), with OGDCL serving as the operator.

The scope of work for this project involves the relocation of Ex-Dhodak Plant (i.e. dehydration and LPG Plant), feed/sales gas compressors at Sinjhor, construction of gathering facilities, an amine plant. The projected product yield upon completion is 3000 bbls per day of oil, 25 MMscfd per day of gas and 120 M.ton per day of LPG. The project is to be completed in 2-phases. The first phase including equipment and sleeper foundation works, dismantling and shifting activities of mechanical items and equipment of Dhodak plant and all equipment's erection and inter connection works are completed. This completion of first phase gives supply of Gas 11 MMSCFD & Condensate 1100 BPD. 2nd Phase of the project was to be completed by October, 2013.

Project Requirements:

The project requirements included grouting of feed compressor pockets and base plates and sale gas compressor pockets and base plates. Initially the compressor pockets were approved to be grouted with epoxy grouts and base plates with cementitious grouts. However, keeping in view the massive dynamic and static loads of compressors, the decision was made to use epoxy grouts for pockets as well as base plates. The total area to be covered was 8 cubic meter. The grouting requirement included use of material which is moisture tolerant and non-shrink with capacity to resist high vibration.

As Sika had completed many projects with OGDCL & ENAR, the Consultant, therefore relationship with client and high end product availability triggered entry to the project.

Sika Solution:

The Sika Solution proposed by Sika Sales team with respect to sensitivity of the project and quality of output required included the following:

Sikadur 42 MP Slow, a three-component, multi purpose, moisture tolerant, epoxy grouting system to be used for high-strength grouting and fixing of anchors, tie rods and under-grouting and bedding of base plates, heavy impact vibratory machinery, compressors and mechanical joints. For the first time in the history of OGDCL, bulk quantity of 40,000 kgs was supplied for grouting purpose at project and also, Sika introduced the pressure grouting method at site to ensure grouting layer thickness between 45mm to 70mm was maintained. Sika product complies to EN 1504-6, the product properties achieved at site through application of Sikadur 42 MP Slow include:

- High early strength
- Ready-to-mix, pre-batched units
- Moisture tolerance
- Non-shrinkage
- Corrosion and chemical resistance
- Stress and impact resistance
- High compressive strength
- High vibration resistance

Project Name:	Sinjhor Gas Field
Project Owner:	OGDCL
Consultant:	ENAR
Contractor:	M/S Razico

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