

SOIL IMPROVEMENT WORK OF PORT SAID INDUSTRIAL ZONE PROJECT
EGYPT

Ground Improvement application

Client:	Products used:
GOVERNMENT OF EGYPT	TECHDRAIN PVD - TD - 3520U
Main contractor:	Quantity supplied:
	33 MILLION LM
Manufacturer & Supplier:	Year of construction:
TECHFAB (INDIA) INDUSTRIES LTD.	2017

Project description:

Port Said is one of the most important Egyptian ports on the Mediterranean Sea. Its location is strategic, being situated on the eastern entrance of the Suez Canal and in the middle of the biggest commercial navigational channel linking Europe with the East. It is one of the highest volume traffic ports in the world. Shipping container volume in Egypt overall grew by nearly 320% from 2000 – 2016, according to the World Bank.

The Suez Canal handled a good amount of that traffic. The Egyptian Government subsequently moved forward with soil improvement works as part of the first phase of the East Port Said Industrial Zone Project.

PVDs have been essential to the development.

Project Challenges:

The 1600 ha industrial zone is part of an ambitious plan to expand factory presence in the region by up to 1000. Key industries targeted by the developers include automotive assembly parts, building materials, appliances, electronics, textiles, and pharmaceutical.

Phase 1 involved 400 ha of the development and affiliated port works. Substantial soil improvement was required to achieve the proper bearing capacity. Port Said is part of El Tina plain, which is composed of very soft to firm clays extending to depths up to 50 m.

The contractor proposed expediting pre-consolidation of the soft clay by installing prefabricated vertical drains.

Solution:

The contractor proposed expediting pre-consolidation of the soft clay by installing prefabricated vertical drains.

TechDrain-PVD (TD-3520U) was installed to depths between 25 and 30m. Over a 10-month span from 2016 into 2017, 33 million linear meters of PVDs were installed. This solution helped to reduce construction time and cost.



TechDrain PVD installation is in progress

Conclusion:

The Project was successfully completed. Client appreciated timely supply of good quality products as well as technical support offered by TechFab India Industries Ltd.

For further details kindly contact :

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