TIMIL.

.

CONSTRUCTION OF BULK BERTH No. 2 (512 m) & LOADING BERTH (196m) in Misurata Saltan and a Standard or State

1

1.30

23

.....

1 10

A STATEMAN

AP CONTRACTOR OF A CONTRACTOR

MISURATA

MISURATA

Misurata City is one of the trade centers that the Phoenicians started building in the tenth century BC on the nort western part of the Libyan coast. Thus it is now three thousand years old.

The city was known in the old ages by the name of Cephale Tobactus, which means cape Misurata. It derived its importance from being on the cross roads of vital routes.

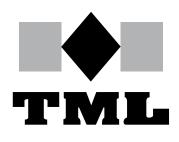
Besides its distinguished location, connecting Tripoli to Benghazi which makes it a starting point for the exchange of commodities and materials with the rest of the cities of the country, Misurata enjoys a new infrastructure in the field of services such as roads, electricity and communications and holds industrial facilities like textile, dairy products and steel complex.

Port of Leptis Magna - Al Khoms





Leptis Magna Port Model © National Maritime Museum, Greenwich London



About CLIENT

The Libyan Iron and Steel Company is one of the largest companies in the great Jamahiriya with an annual designed capacity of 1,324,000 ton of liquid steel.

The company is situated near the coastal city of Misurata, about 210km east of Tripoli covering an area of 1,200 hectares.



About PROJECT

Within the overall development scenario, the unloading capacity of the LISCO Port was decided to be increased by constructing a 2nd Bulk Berth and a Loading Berth along the North Breakwater of the company Port.

TML was chosen by LIBYAN IRON AND STEEL COMPANY as the Main Contractor to execute Construction of Bulk Berth no. 2 (512 m) & Loading Berth (196m) in 900 days.

The scope of works included execution, supply, erection and detailed design of stated following items:

-	Slope Protection	6-	ŀ
-	Berth Structures (Bill No.2)	7-	L
-	Marine Fittings	8-	ľ
-	Fendering Systems	9-	E
-	Corrosion Mitigation	10-	ę



The Contract was signed on started on scheduled to completed on Guarantee period

11¹, October 2007 10¹/_{th} March 2008 27^{'''} August 2010 18 May 2010 18 May 2011

- Aids to Navigation Land Works **Mechanical Works Electrical Work**
- Spare Parts



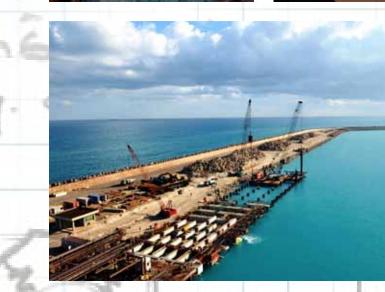


At the planning stage the key activity of piling works was decided to be executed without having been effected by adverse sea conditions. Based on this phylosophy the piling over driven piles method was developed. Heavy lifting plans and equipment selections, team locations, piling, stone removal-placement shifts, contract duration based on 800 days was determined and followed during the execution period.

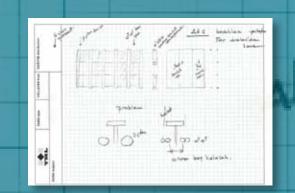
Eser Tümen's Method of Construction & Execution

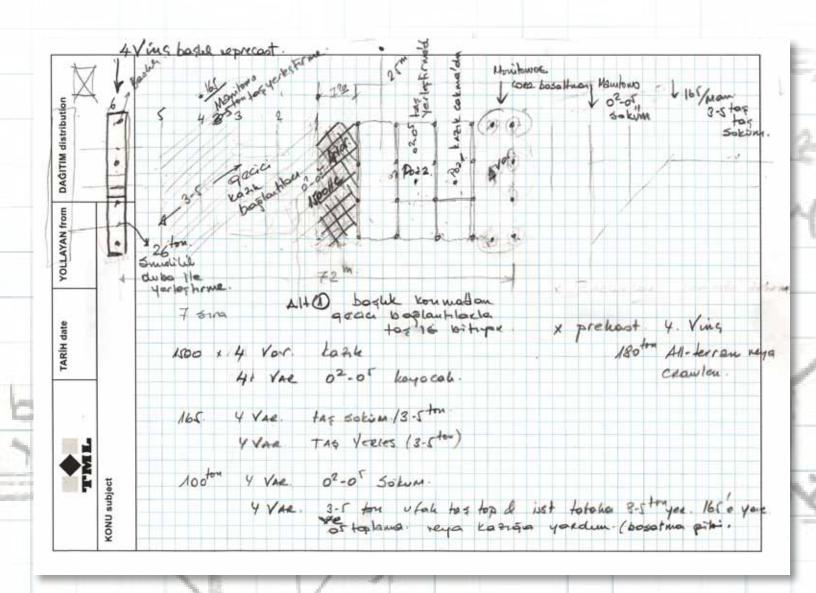






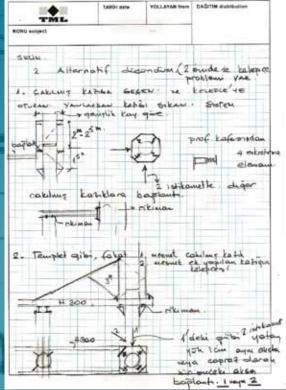
	Section of the sectio
1.00	""Rolla Start burger
	Profil Barth Chan. K. 30 V hard out Coal come sa Cool 21 35
100	present. Mort 15
	ust the Hears the ~ for you.
	Etim 35: American ar & Dongul (Karai
	Avertia 37 I Postile (Yezh I which show
	March Sp. 222.
	Sintrat 28 1 Markon particip Nissue 30 Locale Butt
	the proprestion with way lithering

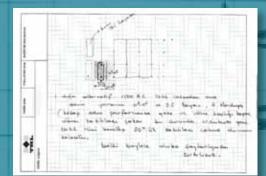


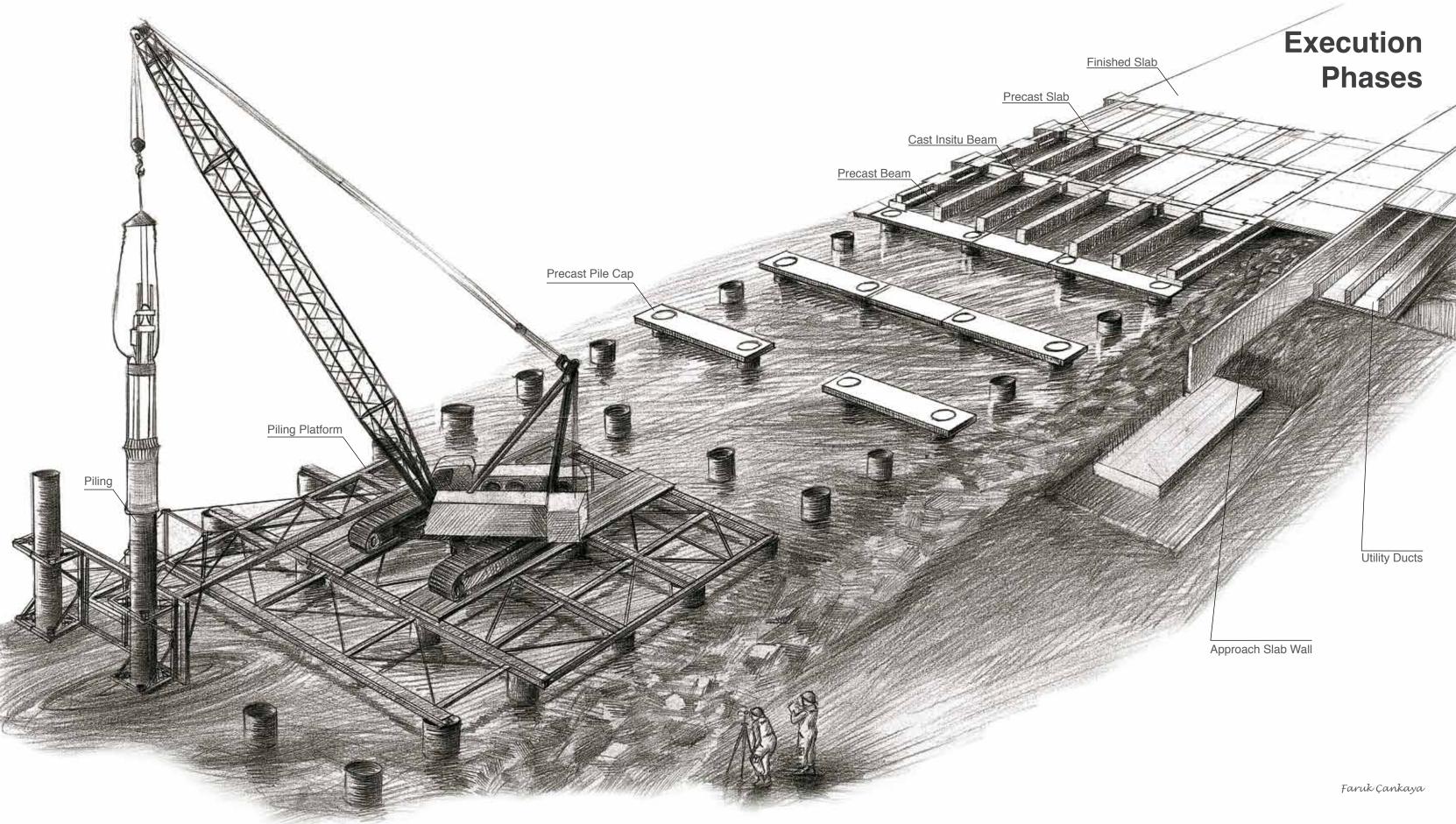












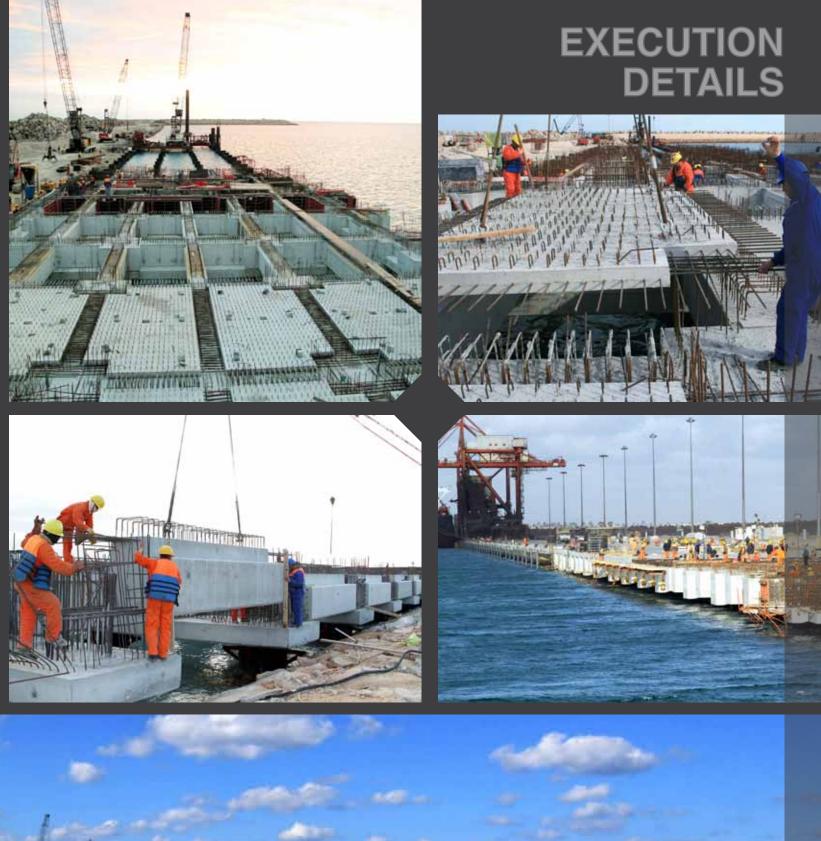
Execution Details













Precast Facilities









Pile Manufacturing

Quality management system was established at site and was audited by TUV Rheinland Germany according to ISO 9001:2008.



General View 1000

MAJOR QUANTITIES

48" OD STEEL PILES-17.000 M TOTAL LENGTH REINFORCED CONCRETE ROCK ARMOR HANDLING A120 TYPE CRAIN RAIL 2000 MM CYLINDRICAL FENDERS 1150 MM CYLINDRICAL FENDERS CAST IRON BOLLARDS LASER GUIDED VESSEL DOCKING SYSTEM CATHODIC PROTECTION RECTIFIERS HIGH MAST FLOOD LIGHTING ELECTRICALLY LOWERING GRE FIRE WATER LINE FIRE HYDRANT AND CABINET FIRE WATER PUMP

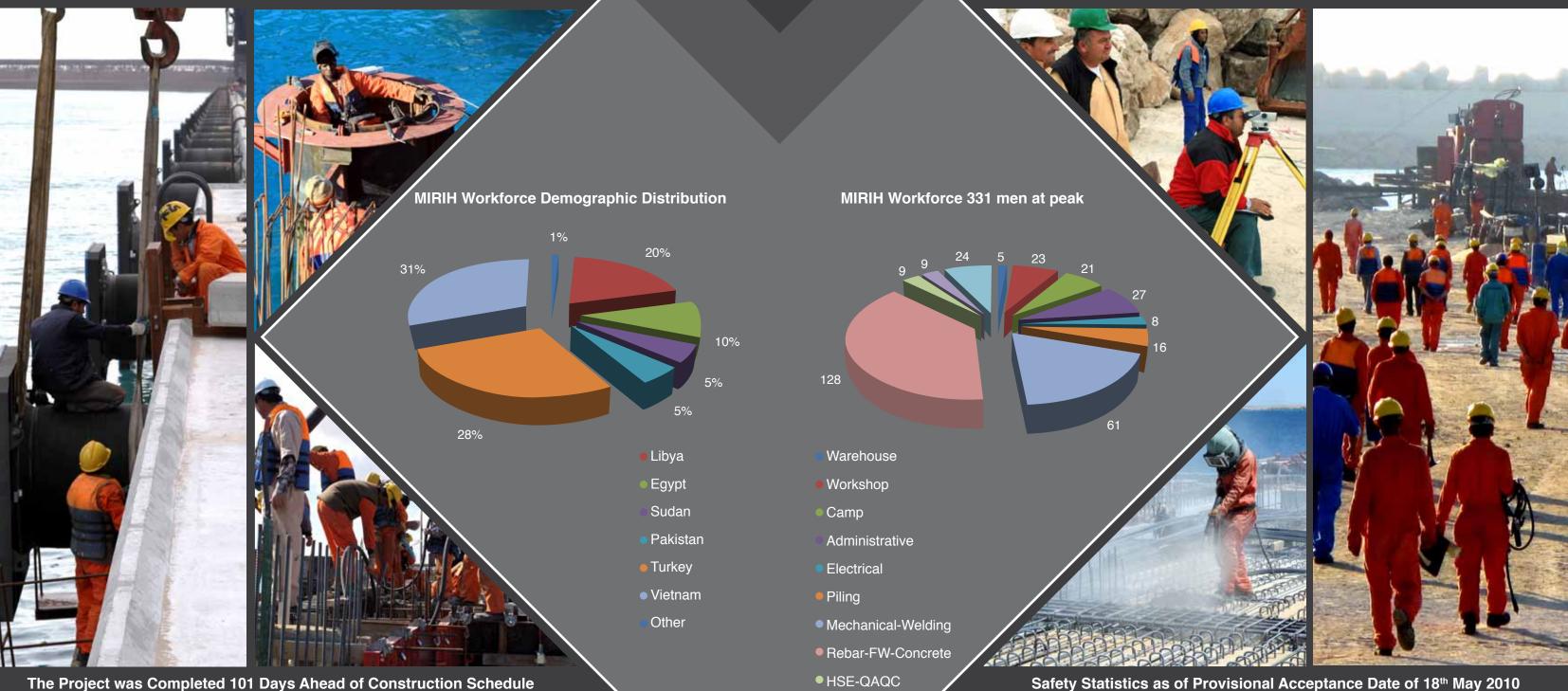


λ.



GENERAL VIEW

Men at Work



Surveying

• 78 near misses

Berth

Environmental and occupational health safety management systems were utilized. Site was audited by TUV Rheinland Germany according to ISO 14001: 2004 & BS OSHAS 18001: 2007

MEN AT WORK

Safety Statistics as of Provisional Acceptance Date of 18th May 2010 1,786,229 Manhours Utilized • 23 incidents, 1 incident with loss time (16.05.2010)

Deck Equipment

















Tobruk Agoco Petroleum Jetty 1



Misurata Freezone Container Berth

Other Marine Works









www.tml.com.tr