

# Emirates Float Glass Factory

Civil: Industrial



## PROJECT INTRODUCTION:

ALNASR was awarded for the construction of civil works installation & commissioning of various sub modules and all the infrastructural facilities including availability of natural gas, power and other utilities have also been arranged for with the support of ZonesCorp, the nodal agency for facility creation at Industrial City of Abu Dhabi.

This facility, located on a 320,000 square meter plot at the Abu Dhabi Industrial City, is constructed by Al Nasr and will have a capacity to produce about 160,000 tons of glass products per annum under phase I. The state-of-the-art manufacturing facility, once fully operational, will be the largest single location integrated glass manufacturing and processing facility in the UAE, aiming to provide world-class standards and practices in its delivery commitments.

## ANC Scope:

The complete civil works for the Emirates float glass factory, comprising various plant/process units and the administration building complete with the associated piping installations, HVAC, fire fighting etc. and the utility services (sewerage, drainage and water supply) along with the external roads.

The following works are executed by ALNASR:

- Supply and construction of reinforced concrete structural members of the various plant units, with a total volume of 23,700cum.
- Supply and installation of 43,344Sqm of reinforced concrete industrial slabs executed by ALNASR.
- Supply and installation of 7,252sqm of masonry works (block masonry) complete with the protection plastering and finishes are executed by ALNASR.
- Supply and installation of fire brick lining works (refractory brick lining) 641Sqm completed for this project.

Client: Emirates Float Glass Co. LLC

Location: Abu Dhabi, UAE

Contractor: IANUA S.p.A

Contract Period: 13/04/2007 - 17/08/2008

Value: AED 122,000,000

## PROJECT STATISTICS

Peak manpower	425
Man- hours accident free	1,360,000
Total lost time through incidents	Zero
Equipment hours accident free	59,500
Total concrete poured	23,700 cum



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- Supply and construction of asphalt road works 15,977sqm is executed for this project.
- Service line of various diameter of 2,323Lm is executed for this project.
- Service pits and manholes for the utility services of various dimensions (59 numbers) are executed for this project.
- Supply and lay low voltage network consisting of 647lm of cable laying and associated installations.
- Supply, installation and testing of fire fighting lines 2564Lm, complete with the fire pump system and accessories are complete for this project.
- Full handing over of all installed utilities and services to the relevant authorities.

The various plant units comprises:

1. The furnace building
2. Chimney
3. Tin bath
4. Annealing leer
5. Warehouse building
6. Raw material storage
7. Sand-dolomite storage
8. Silos – material storage
9. Cullet recovery storage
10. Conveyor bridge and silos towers
11. Natural gas reduction station
12. Atmosphere room
13. SO2 storage
14. Water tower
15. Flue duct and stack area etc...
16. Gate house
17. Timber storage
18. Weighbridge
19. Administration building
20. External service networks
21. External road works
22. HAVC installations for the plant offices and admin building
23. Fire fighting system
24. Piping from gas plant to the process unit
25. Electrical works