

## Pardis Petrochemical Company

Being maybe the most competitive urea producer in the urea industry...



In August 2015, UreaKnowHow.com did visit Pardis Petrochemical Company in Iran. Please find below the visit report. PARDIS Petrochemical Company; a producer and supplier of Urea/Ammonia, is the owner of one of the largest complexes producing Urea and Ammonia in the Middle East and its plants are one of the largest size plants of such products in the world.

The large scale production and applied top technologies, complying with environmental standards, access to natural gas resources, shipping lines of transportation, having vast storage facilities and specialized loading jetty for exporting Ammonia and Urea products are parts of merits and outstanding capabilities of PARDIS Complex and will infer a brilliant prospect international market position for this company.



**Figure 1: Pardis location close to Assaluyeh, Iran**

So far, 1st and 2nd phase of this complex have commenced production whose products have remarkably promoted Iran's share in global production of Urea/Ammonia. In order to expand its production capacity PARDIS has under construction Phase 3 of this complex, which is expected to start up next year.



**Figure 2: Site of Pardis Petrochemical Company**

Pardis phase 1 and 2 are 2050 mtpd KBR ammonia lines and 3250 mtpd Stamicarbon PoolCondenser urea lines with HFT fluid bed granulation sections established respectively in 2001 and 2004.

Pardis phase 3 is similar to line 1 and 2, so a 2050 mtpd KBR ammonia line and a 3250 mtpd Stamicarbon PoolCondenser urea line with now a Stamicarbon fluid bed granulation section and is established in 2010.

Each phase consumes 670 million normal cubic meters natural gas per year, which is supplied from gas phases of South Pars or Pars Petrochemical Complex, which is one of the major natural gas suppliers for the natural gas grid in Iran.



**Figure 3: Pardis 1 Stamicarbon PoolCondenser urea plant and its perfect quality granular product.**

At the moment Pardis phase 3 is under construction and numerous activities at site are taking place. Work circumstances are not easy as ambient temperatures are very high with at the same time a high relative humidity.

The basic and detailed engineering has been performed by HAMP Energy Engineering and Design Company, HEDCO and the PMC is performed by Namavarani Delvar Engineering and Construction.

The Safurex high pressure urea equipment is fabricated by Schoeller Bleckman Nitec, Austria while the Safurex high pressure piping and valves are fabricated by BHDT, Austria.

All the major compressors and turbines for the ammonia and urea plant are fabricated by NEW JCM, China.



**Figure 4: Pardis 3 under construction**





**Figure 5: The Stamicarbon granulator with its optimized upper casing design.**