

## ThyssenKrupp Industrial Solutions (India)

ThyssenKrupp Industrial Solutions (India) Private Limited, Uhde House, LBS Marg, Vikhroli (W), Mumbai 400 083, India

### International Project in MENA (Middle East North Africa) Region

#### Abbreviations:

E - Engineering | P - Procurement Services | S - Supplies | CS - Construction Supervision | COS - Commissioning Supervision | LSTK - Lumpsum Turnkey | PMC - Project Management Consultancy | LS - Lumpsum | FEED - Front End Engineering Design

Year of Order	Customer	Plant Location	Plant / Product	Capacity TPA / tpd	Licensor	Services Rendered
2014	ETI BAKIR (Incro)	Turkey	DAP-NPK Plant (Cengiz)	540,000 DAP 750,000 NPK	Incro	E (Detailed)
2013	The National Titanium Dioxide Company	Saudi Arabia	Caustic Soda / Chlorine plant expansion	Chlorine Expansion from 220 tpd to 350 tpd	Uhde India	Feasibility Study
2013	Farabi Petrochemical Co.	Saudi Arabia	NPN Splitter project in Linear Alkyl Benzene plant	-	-	BEP, Cost Estimate
2013	IBN – ZAHR (Saudi European Petrochemical Co.)	Saudi Arabia	OCT Feed Purification project	Feed for 250,000 TPA Propylene plant	CB&I Lummus	E, P
2013	National Chlorine Industries	Jordan	Caustic Soda (Expansion)	54 tpd (after expn.)	Uhde	E, S, CS
2012	Saudi International Petrochemical Company (SIPCHEM) (TK Uhde)	Saudi Arabia	Poly Butylene Terephthalate (PBT) Resin	63,000 TPA	Uhde Inventa-Fischer	E (Detailed), P
2012	Bandirma Gubre Fabrikalari A.S. (BAGFAS) (TK Uhde)	Turkey	Nitric Acid Ammonium Nitrate Calcium Nitrate Granulation Offsites & Utilities	1,150 tpd 1,550 tpd 2,000 tpd -	TK Uhde	E (Detailed)
2012	Farabi Petrochemicals	Saudi Arabia	Benzene Storage Tank	4,000 MT	Uhde India	E, P, CS
2011	IBN Sina (Formox AB)	Saudi Arabia	Formaldehyde	66,000 TPA	Formox AB	E (Detailed)
2011	Egyptian Hydrocarbon Corpn. (TK Uhde)	Egypt	Nitric Acid Low Density Ammonium Nitrate / Offsites & Utilities	850 tpd 1,060 tpd	TK Uhde	E (Detailed)

.../2

#### Abbreviations (Services Rendered)

E=Engineering, P=Procurement, S=Supplies,  
CS=Construction Supervision, COS=Commissioning Supervision,  
LSTK=Lumpsum Turnkey, LS=Lumpsum, FEED=Front End Engineering Design, PMC=Project Management Consultancy

**ThyssenKrupp Industrial Solutions (India)**

Year of Order	Customer	Plant Location	Plant / Product	Capacity TPA / tpd	Licensor	Services Rendered
2010	Maroc Phosphore	Morocco	Electrical Engineering Services (JPH Infrastructure Project)	-	-	E, P, CS, COS
2010	SABIC	Saudi Arabia	Benzene Mitigation Project	-	By Client	FEED
2009	Farabi Petrochemical Co.	Saudi Arabia	Linear Akyl Benzene	Duplication	UOP	E, P, C, COS
2009	Maroc Phosphore	Morocco	Infrastructure Project for Fertiliser Complex	-	Uhde India	E (Basic + Detailed), P, CS, COS
2009	Qatar Petroleum Co (QAPCO) (TK Uhde)	Qatar	LDPE	300,000 TPA	LyondellBasell	E (Detailed)
2009	Albayroni (Al-Jubail Fertiliser Co) SABIC Group	Saudi Arabia	Inspection of Cryogenic Storage Tank	1 x 20,000 MT	Uhde India	E
2008	Bunge Maroc Phosphore (Incro SA)	Morocco	Triple Super Phosphate / Mono Ammonium Phosphate Mono Ammonium Phosphate / Di-Ammonium Phosphate	270,000 TPA 340,000 TPA	Incro	E, P, CS, COS  For Offsites & Utilities :E, P, CS, COS (incl.Basic Engg)
2007	SORFERT (Uhde GmbH)	Algeria	Ammonia Urea	2 x 2,200 tpd 1 x 3,450 tpd	Uhde Stamicarbon	E (Detailed)
2007	Egyptian Propylene & Polypropylene Company (Uhde GmbH)	Egypt	Propylene / Polypropylene / Offsites & Utilities	350,000 TPA	Uhde	E (Basic & Detailed), P
2007	Ruwais Fertiliser Industries (FERTIL)	Abu Dhabi	Granulation Unit (Prilled Urea)	2,500 tpd	Uhde Fertiliser Technology	FEED

.../3

**Abbreviations (Services Rendered)**

E=Engineering, P=Procurement, S=Supplies,  
 CS=Construction Supervision, COS=Commissioning Supervision,  
 LSTK=Lumpsum Turnkey, LS=Lumpsum, FEED=Front End Engineering Design, PMC=Project Management Consultancy

**ThyssenKrupp Industrial Solutions (India)**

Year of Order	Customer	Plant Location	Plant / Product	Capacity TPA / tpd	Licensor	Services Rendered
2007	Saudi Arabian Basic Industries (SABIC)	Saudi Arabia	Urea Granulator Ammonia Abatement Projects	-	-	E (Basic), Cost Estimate
2007	Fujairah Cement Industries (Polysius AG)	UAE	Cement Plant	-	-	E (Civil & Structural)
2007	Sahara Petrochemicals (Uhde)	Saudi Arabia	Caustic Soda-Chlorine	250 tpd	Uhde	E (PDP)
2005	LIWA Petrochemicals LLC (Uhde)	Oman	Ethylene Dichloride	300,000 TPA	Vinnolit	E
2004	Saudi Arabian Fertilizer Co.(SAFCO) - (Uhde GmbH)	Saudi Arabia	Urea Formadehyde Concentrate	29,700 TPA	Perstorp	LSTK
2004	Arvand Petrochemical Co (Sazeh Consultants)	Iran	Caustic Soda	1,000 x 2 trains	Uhde	E
2003	Saudi Arabian Fertilizer Co.(SAFCO) - (Uhde GmbH)	Saudi Arabia	Ammonia-Urea / Reformer Package for Ammonia Plant	3,300 / 3,250 tpd	Uhde / Stamicarbon / Hydro Fertilizer Technology / Uhde	E
2003	Gulf Farabi Petrochemical Co. (thru' SNC-Lavalin International, Canada)	Saudi Arabia	n-Paraffin / Linear Alkyl Benzene / Offsites & Utilities	120,000 / 70,000 TPA	UOP	E, P, CS, COS
2003	Kuwait National Petroleum Corpn, MAA Refinery (ISCO)	Kuwait	Implementation of HAZOP Studies of Refinery Units	-	-	E

.../4

**Abbreviations (Services Rendered)**

E=Engineering, P=Procurement, S=Supplies,  
 CS=Construction Supervision, COS=Commissioning Supervision,  
 LSTK=Lumpsum Turnkey, LS=Lumpsum, FEED=Front End Engineering Design, PMC=Project Management Consultancy

**ThyssenKrupp Industrial Solutions (India)**

Year of Order	Customer	Plant Location	Plant / Product	Capacity TPA / tpd	Licensor	Services Rendered
2003	Kuwait National Petroleum Corpn, (ISCO)	Kuwait	Enhancement of Local Marketing Distribution Facilities	-	-	E
2003	Qatar Fertilizer Co. (Uhde)	Qatar	Ammonia Tank (double integrity with Associated facilities)	1 x 40,000 MT	Uhde	E
2002	Jal International	Saudi Arabia	Vapour Separation for Polyethylene Plant	-	MTR Inc.	E
2002	Shiraz Petrochemicals	Iran	Ammonia Tank & Associated Facilities	1 x 5,000 MT	Uhde India	E, LS
2001	Qatar Fertilizer Co.(Uhde)	Qatar	Urea Formaldehyde	82 tpd	Perstorp	E, P, CS, COS
2001	Qatar Fertilizer Co.(Uhde)	Qatar	4 <sup>th</sup> Ammonia Urea Offsites & Utilities Reformer Package	2,000 tpd 3,200 tpd	Uhde Stamicarbon Uhde	E, CS E, CS E
2000	National Chlorine Industries	Jordan	Caustic Soda (Expansion)	50 tpd ( after expn.)	Uhde	E, S, CS
2000	Egyptian Fertilizer Co. (Uhde)	Egypt	Ammonia Tank (single-walled)	1 x 15,000 MT	Uhde	E
1998	Qatar Vinyl Co. (Uhde)	Qatar	Caustic Soda- Chlorine Ethylene Di- Chloride Vinyl Chloride Monomer	290,000 TPA 260,000 TPA 175,000 TPA 230,000 TPA	Bayer / Hoechst / Uhde	E

.../5

**Abbreviations (Services Rendered)**

E=Engineering, P=Procurement, S=Supplies,  
 CS=Construction Supervision, COS=Commissioning Supervision,  
 LSTK=Lumpsum Turnkey, LS=Lumpsum, FEED=Front End Engineering Design, PMC=Project Management Consultancy

**ThyssenKrupp Industrial Solutions (India)**

Year of Order	Customer	Plant Location	Plant / Product	Capacity TPA / tpd	Licensor	Services Rendered
1998	The Egyptian General Organisation for Chemical Industries (Uhde)	Egypt	Ammonia Tank (single-walled)	1 x 15,000 MT	Uhde	E
1997	Hoecsa	Turkey	Polyester Tyre Cord	14,000 TPA	Hoechst Celanese	E, P, CS, COS
1996	Abu Qir Fertilizer Co (Uhde)	Egypt	Ammonia Urea	1,200 tpd 1,750 tpd	Uhde Stamicarbon	E
1992	National Chlorine Industries (Uhde)	Jordan	Caustic Soda	20 tpd	Bayer / Hoechst / Uhde	E, P, CS, COS

20.05.2015

**Abbreviations (Services Rendered)**

E=Engineering, P=Procurement, S=Supplies,  
 CS=Construction Supervision, COS=Commissioning Supervision,  
 LSTK=Lumpsum Turnkey, LS=Lumpsum, FEED=Front End Engineering Design, PMC=Project Management Consultancy