

ThyssenKrupp Industrial Solutions (India)

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

International Project References

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 | 540,000 TPA DAP / 750,000 TPA NPK | Incro | E (Detailed) |
| 2014 | BioNext (TKIS PT) | France | Biomass to Liquid (Gasification) | 5,000 Nm ³ /hr (Syngas) | Uhde | E (Detailed) |
| 2013 | Farabi Petrochemical Co. | Saudi Arabia | NPN Splitter project in Linear Alkyl Benzene plant | - | - | BEP, Cost Estimate |
| 2013 | The National Titanium Dioxide Company | Saudi Arabia | Caustic Soda-Chlorine plant expansion | Chlorine 220 tpd to 350 tpd | Uhde India | Feasibility Study |
| 2013 | Aditya Birla Chemicals (Thailand) | Thailand | Supply of Cell elements | 70 tpd | Uhde | E, LS |
| 2013 | National Chlorine Industries | Jordan | Caustic Soda (Expansion) | 54 tpd (after expn.) | Uhde | E, P, LS, CS, COS |
| 2013 | Orascom Construction Industries – Iowa Fertilizer Co. (TK Uhde) | Iowa, USA | Urea Ammonium Nitrate Urea Nitric Acid | 4,300 2,200 1,530 | TK Uhde Stamicarbon TK Uhde | E |
| 2013 | Omnia Fertilizers | South Africa | Cryogenic Ammonia Storage Tank | 1 x 10,000 MT | Uhde India | E, P, CS, COS |
| 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 |
| 2012 | CF Industries Holdings (TK Uhde) | Donaldsonville USA | Ammonia Urea Nitric Acid Urea Ammonium Nitrate | 3,300 3,300 1,520 4,300 | TK Uhde Stamicarbon TK Uhde TK Uhde | E |
| 2012 | Farabi Petrochemicals Co. | Saudi Arabia | Benzene Storage Tank | 4,000 | Uhde India | E, P, CS |
| 2012 | CF Industries Holdings (TK Uhde) | Port Neal, USA | Ammonia Urea Urea Granulation | 2,200 3,500 3,500 | TK Uhde Stamicarbon TK Uhde | E |

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|------|-------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|------------------------------------------|----------------------------|-------------------------------|
| 2013 | Sasol Synfuels (Pty) [TK IS] | South Africa | Secunda Clean Fuels 2 Project | - | Various | E (Basic) |
| 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 | Changle Highsun Synthetic Fiber Technology (Uhde Inventa-Fischer) | China | Polyamide-6 | 180,000 TPA | Uhde Inventa-Fischer | E |
| 2012 | JBF Industries (Uhde Inventa-Fischer) | Belgium | PET | 432,000 TPA | Uhde Inventa-Fischer | E (Detailed) |
| 2012 | Lotte Chemical UK (Uhde Inventa-Fischer) | United Kingdom | PET | 600 tpd | Uhde Inventa-Fischer | E (Detailed – Piping & Civil) |
| 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 Co. | 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 | Karnaphuli Fertilizer Company Limited - (KAFCO) | Bangladesh | Urea Granulation (Revamp) | 2,100 tpd (after revamp) | Uhde Fertiliser Technology | E (Detailed), CS, COS |
| 2011 | Egyptian Hydrocarbon Corpn. (TK Uhde) | Egypt | Nitric Acid / Low Density Ammonium Nitrate / Offsites & Utilities | 850 tpd 1,060 tpd | TK Uhde | E (Detailed) |
| 2011 | SASOL (TK PDNA) | South Africa | Coal Tar Filtration East Filter Press plant | 1,200 tpd | SASOL | E (Detailed) |
| 2011 | SASOL (TK PDNA) | South Africa | Water Recovery Growth project | - | SASOL | E (Detailed) |
| 2010 | Maroc Phosphore | Morocco | Electrical Engineering Services (JPH Infrastructure Project) | - | - | E, P, CS, COS |

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|------|-------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|----------------------------------------------------------------------------------|
| 2010 | SABIC | Saudi Arabia | Benzene Mitigation Project | - | By Client | FEED |
| 2009 | Farabi Petrochemical Co. | Saudi Arabia | Linear Alkyl Benzene | Duplication | UOP | E, P, CS, COS |
| 2009 | Maroc Phosphore | Morocco | Infrastructure Project for Fertiliser Complex | - | Uhde India | E (Basic + Detailed), P, CS, COS |
| 2009 | Qatar Petrochemical Co (QAPCO) (Uhde) | Qatar | LDPE | 300,000 TPA | LyondellBasell | E (Detailed) |
| 2009 | Albayroni (Al-Jubail Fertiliser Co) SABIC Group | Saudi Arabia | Inspection of Cryogenic Ammonia Storage Tank | 1 x 20,000 MT | Uhde India | E |
| 2008 | Yara Sluiskil B.V. (Uhde) | Holland | Urea (incl.modernisation of exisitng facilities) | 3,500 TPA | Stamicarbon | E (Detailed) |
| 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) |
| 2008 | TRANSNET (TK Engg.South Africa) | South Africa | New multi-product pipeline project | - | - | E (Detailed) |
| 2008 | TICONA (Perstorp Speciality Chemicals) | Germany | Formaldehyde | 88,000 TPA (2 trains) | Perstorp | E (Detailed) |
| 2007 | SORFERT (Uhde GmbH) | Algeria | Ammonia Urea | 2 x 2,200 tpd 1 x 3,450 tpd | Uhde Stamicarbon | E (Detailed) |
| 2007 | SASOL (Uhde - a Divn.of TK Engg., South Africa) | S.Africa | Methyl Isobutyl Ketone (MIBK) | 30,000 TPA | BEP : Uhde South Africa / Uhde | E (Detailed) |
| 2007 | Spolchemie (Uhde GmbH) | Czech Republic | Caustic Soda (Conversion to Membrane Cell) | - | Uhde | E (Basic) |

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|------|----------------------------------------------------|--------------|-----------------------------------------------------|----------------------------------------------------------|----------------------------|--------------------------|
| 2007 | Ruwais Fertiliser Industries (FERTIL) | Abu Dhabi | Granulation Unit (Prilled Urea) | 2,500 tpd | Uhde Fertiliser Technology | FEED |
| 2007 | Egyptian Propylene & Polypropylene Company (Uhde) | Egypt | Propylene / Polypropylene / Offsites & Utilities | 350,000 TPA | Uhde | E (Basic & Detailed), P |
| 2007 | Sahara Petrochemicals (Uhde) | Saudi Arabia | Caustic Soda-Chlorine | 250 tpd | Uhde | E (PDP) |
| 2007 | Fujairah Cement Industries (Polysius AG) | UAE | Cement Plant | - | - | E (Civil & Structural) |
| 2007 | Saudi Arabian Basic Industries (SABIC) | Saudi Arabia | Urea Granulator Ammonia Abatement projects | - | - | E (Basic), Cost Estimate |
| 2006 | SASOL (Uhde - a Divn.of TK Engg., South Africa) | South Africa | Wet Sulfuric Acid | 14.5 T/hr | Haldor Topsoe | E (Detailed) |
| 2006 | SABIC Polyolefine (Uhde GmbH) | Germany | High Density Polyethylene | 300,000 TPA | Basell | E (Detailed) |
| 2006 | LUKOIL Chemical Group (Uhde GmbH) | Ukraine | Caustic Soda-Chlorine (Conversion to Membrane Cell) | 200,000 TPA Caustic Soda / 177,000 TPA Chlorine | Uhde | E (Detailed) |
| 2006 | Thai Oleochemicals Co. (Uhde GmbH) | Thailand | Fatty Alcohol | 100,000 TPA | Cognis Deutschland | E (Basic & Detailed) |
| 2006 | Vestolit (Uhde GmbH) | Germany | Caustic Soda-Chlorine (Conversion to Membrane Cell) | 293,000 TPA Caustic Soda / 260,000 TPA Chlorine | Uhde | E (Detailed) |
| 2005 | Penwalt (Uhde) | Mexico | Caustic Soda | 110 tpd | Uhde | E (Basic) |
| 2005 | LIWA Petrochemicals LLC (Uhde) | Oman | Ethylene Dichloride | 300,000 TPA | Vinnolit | E |
| 2005 | China National Offshore Oil Company (Uhde GmbH) | China | Hydrogen plant | 2 x 100,000 Nm ³ /hr | Uhde | E |
| 2005 | Aditya Birla Chemicals (Thailand) Ltd. | Thailand | Caustic Soda plant expansion | Expansion by 70 tpd | Uhde | E |

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|------|-------------------------------------------------------------------------|--------------|----------------------------------------------------------|-----------------------------|---------------------------------------------------------|---------------|
| 2005 | Astha Chemicals (Uhde GmbH) | USA | Caustic Potash | 200 tpd | Uhde | E |
| 2004 | EMS Inventa | Confidential | Man-made Fibres / Raw materials | - | EMS Inventa | E |
| 2004 | AB Achema (Uhde GmbH) | Germany | Ammonia Tank | 1 x 15,000 | Uhde India | E |
| 2004 | Neste Oil Oyj (Uhde GmbH) | Finland | Hydrogen Plant Reformer | 153,500 Nm ³ /hr | Uhde | E |
| 2004 | Arvand Petrochemicals(Sazeh Consultants) | Iran | Caustic Soda | 1000 x 2 trains | Uhde | E |
| 2004 | Tessenderlo Chemie NV (Uhde GmbH) | Belgium | Caustic Soda - Conversion to Membrane Cell | 930 tpd | Uhde | E |
| 2004 | Anwil SA (Uhde GmbH) | Poland | Caustic Soda - Conversion to Membrane Cell | 650 tpd | Uhde | E |
| 2004 | Saudi Arabian Fertilizer Co.(SAFCO) - (Uhde GmbH) | Saudi Arabia | Urea Formadehyde Concentrate | 29,700 TPA | Perstorp | LSTK |
| 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 |
| 2004 | 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 |

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|------|---------------------------------------|---------------|--------------------------------------------------------------------|---------------------------------|----------------------------|---------------------|
| 2003 | Kuwait National Petroleum Corp (ISCO) | Kuwait | Enhancement of Local Marketing Distribution Facilities | - | - | E |
| 2003 | UD-Koch-Glitsch Project Reformer | Belarus | Hydrogen Plant Reformer | 39,000 Nm ³ /hr | Uhde | E |
| 2003 | Qatar Fertilizer Co.(Uhde) | Qatar | Ammonia Tank (double integrity with Associated facilities) | 1 x 40,000 MT | Uhde | E |
| 2003 | Tiszai Veygi Kombinat RT (Uhde GmbH) | Hungary | Ethylene Storage Tank | 1 x 6,000 MT | Uhde | E |
| 2003 | Norsk Hydro (Uhde GmbH) | Norway | Caustic Soda-Chlorine | 450 / 400 tpd | Uhde | E |
| 2003 | GAP INSAT (Uhde GmbH) | Turkmenisatan | Ammonia Tank | 1 x 5,000 MT | Uhde | E |
| 2003 | Formosa Plastics Corpn.(Uhde GmbH) | Taiwan | Caustic Soda | 400 tpd | 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 |
| 2002 | Eco Oils SDN BHD | Malaysia | Spent Bleached Earth (Expansion) | 250 tpd (after debottlenecking) | Eco Oils | E |
| 2002 | GAP INSAT (Uhde GmbH) | Turkmenisatan | Reformer Package | 600 tpd | Uhde | E |
| 2001 | Qatar Fertilizer Co. (Uhde) | Qatar | Urea Formaldeyde | 82 tpd | Perstorp | E, P, CS, COS |
| 2001 | Qatar Fertilizer Co. (Uhde) | Qatar | 4 th Ammonia Urea Offsites & Utilities Reformer Package | 2,000 tpd 3,200 tpd | Uhde / Stamicarbon Uhde | E, CS E, CS E |

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|------|------------------------------------------------------------------|--------------|---------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|----------|
| 2001 | Weifang Yaxing Chemicals Co. (Uhde GmbH) | China | Caustic Soda | 175 tpd | Uhde | E |
| 2001 | Asean Bintulu Fertilizer (Petronas Group) | Malaysia | Ammonia-Urea Revamp | 1,350 / 2,250 tpd | Uhde / Stamicarbon / Hydro Fertilizer Technology | E, CS |
| 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 |
| 2000 | Sasol[ThyssenKrupp Engg.(Pty), South Africa] | South Africa | Detergent Alcohol / n-Butanol | 120,000 / 150,000 TPA | Uhde / Kvaerner / Mitsubishi | E |
| 1999 | Radici(Uhde GmbH) | Germany | Adipic Acid | 80,000 TPA | Radici | E |
| 1999 | Dialog Holdings SDN BHD (Uhde) | Malaysia | Ammonia Tank | 1 x 25,000 MT | Uhde | E |
| 1998 | Saras Refinery (Parsons, U.K.) | Italy | Mild Hydrocracker | 55,000 blpd | ABB Lummus / Shell | E |
| 1998 | The Egyptian General Organisation for Chemical Industries (Uhde) | Egypt | Ammonia Tank (single-walled) | 1 x 15,000 MT | Uhde | E |
| 1998 | Wacker Chemie (Uhde GmbH) | Germany | Caustic Soda | 696 tpd | Bayer / Hoechst / Uhde | E |
| 1998 | BASF AG(Uhde GmbH) | Belgium | Benzene / Toluene (Extractive Distillation of Pyrolysis Gasoline) | 680,000 TPA | Uhde / BASF | E |
| 1998 | Qatar Vinyl Co.(Uhde) | Qatar | Caustic Soda-Chlorine Ethylene Dichloride Vinyl Chloride Monomer | 290,000 TPA 260,000 TPA 175,000 TPA 230,000 TPA | Bayer / Hoechst / Uhde | E |

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|------|-------------------------------------|-----------|-------------------------------------------------------|------------------------|------------------------|-----------------------------|
| 1998 | Rot Quimica (Uhde GmbH) | Mexico | Potassium Hydroxide | 50 tpd | Bayer / Hoechst / Uhde | E (Basic) |
| 1998 | Bitterfeld Chlor Alkali (Uhde GmbH) | Germany | Caustic Soda (Revamp) | 75,000 | Uhde | E (Detailed) for PDMS / PDS |
| 1997 | Titan Petrochemicals (Uhde GmbH) | Malaysia | Aromatics plant(Extractive Distillation of Reformate) | 232,000 TPA | Uhde | E |
| 1997 | P.T.Styrindo Mono (MHI, Japan) | Indonesia | Ethyl Benzene / Styrene Monomer | 200,000 TPA | ABB Lummus | E |
| 1997 | Enaex(Uhde GmbH) | Chile | Weak Nitric Acid / Ammonium Nitrate | 925 / 1,060 tpd | Uhde | E |
| 1997 | Hoecsa | Turkey | Polyester Tyre Cord | 14,000 TPA | Hoechst Celanese | E,P,CS,COS |
| 1996 | Abu Qir Fertilizer Co. (Uhde GmbH) | Egypt | Ammonia Urea | 1,200 tpd 1,750 tpd | Uhde / Stamicarbon | E |
| 1996 | Qatar Fertilizer Co. (Uhde GmbH) | Qatar | Ammonia Tank (double-integrity) | 1 x 20,000 MT | Uhde | E |
| 1995 | MCW (Uhde GmbH) | Israel | Hydrogen Peroxide | 15,000 TPA | Uhde | E |
| 1995 | Brasali (Uhde GmbH) | Indonesia | Hydrogen Peroxide | 15,000 TPA | Uhde | E, COS |

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