

Inorganic Chemicals and Metallurgy - Project References

Year of Order	Customer	Plant Location	Plant / Product	Capacity Licensor (TPA)	Services Rendered
2018	Gujarat Alkalies and Chemicals	Dahej	Sodium Chlorate (replacement of cell elements)	- IKIS	E (Detail Engg), PS
2018	West Coast Paper Mills	Dandeli	Chlorine Dioxide (Debottlenecking)	- IKIS India	EPCM
2017	National Alumina Company (NALCO)	Odisha	Alumina Refinery	3.275 MMTPA Rio Tinto Alcan (after expn.)	EPCM
2017	Gujarat Alkalies and Chemicals	Dahej	Sodium Chlorate (replacement of cell elements)	20,000 IKIS	E (Detail Engg), PS
2017	Utkal Alumina International	Odisha	Alumina Refinery	2.0 MMTPA Rio Tinto Alcan (after expn.)	EPCM
2015	Namzinc	Namibia	Zinc Refinery Conversion project	150,000 Outotec / Tecnicas Reunidas	FEED, DFR
2012	Umicore Anandeya India	Goa	Zinc Oxide (Capacity Enhancement)	6,000 -	E (Extended Basic Engg, Detail Engg), P
2011	Gujarat Alkalies and Chemicals	Dahej	Chlorine Liquefaction System	400 tpd Uhde India	EPCM incl. E (Basic Engg)
2011	Gujarat Alkalies and Chemicals	Dahej	Sodium Chlorate	20,000 Uhde India	EPCM, PS (Part)
2007	West Coast Paper Mills	Dandeli	Chlorine Dioxide	11 tpd Uhde India	EPC-LSTK
2007	Andhra Sugars	Andhra Pradesh	Polyaluminium Chloride	28,700 Contec SRL	E (Detail Engg)
2006	SASOL (Uhde - A Divn. Of TK Engg., South Africa)	S. Africa	Wet Sulfuric Acid	14.5 t/hr Haldor Topsoe	E (Detail Engg)
2006	Kanoria Chemicals & Industries	Renukoot	Chlorine Automation System	- Uhde	E (Detail Engg)
2006	Hindustan Zinc	Rajasthan	Zinc Smelter - phase II	170,000 Outo Kumpu	E (Detail Engg)
2006	Utkal Alumina	Odisha	Alumina	1.5 MMTPA Rio Tinto Alcan	EPCM
2005	Sirpur Paper Mills	Andhra Pradesh	Chlorine Dioxide	7.5 tpd Uhde India	EPCM, PS (Part)
2004	Gujarat Alkalies and Chemicals	Dahej & Baroda	Polyaluminium Chloride	24,000 Contec SRL	EPCM
2003	Hindustan Zinc	Rajasthan	Zinc Smelter (Capacity Enhancement)	170,000 (after expn.) Outo Kumpu	E (Detail Engg), PMC
2003	Kanoria Chemicals & Industries	Renukoot	Polyaluminium Chloride (Relocation)	30,000 -	EPCM, PS
2003	Indian Petrochemicals Corpn.	Gandhar	Chlorine (Capacity Enhancement)	510 tpd (after expn.) Uhde	E (Detail Engg), CS, COS
2001	West Coast Paper Mills	Dandeli	Chlorine Dioxide	4 tpd Uhde	E (Detail Engg), PS, CS, COS
2000	Reliance Industries	Hazira	Chlorine Handling system	- Uhde India	EPCM
1998	Rot. Quimica (Uhde GmbH)	Mexico	Potassium Hydroxide	50 tpd Bayer / Hoechst / Uhde	E (Basic Engg)
1997	Chemplast Sanmar	Chennai	Chlorine Liquefaction (2nd stage)	15 tpd Uhde	E (Detail Engg)
1997	Hindustan Organic Chemicals	Cochin	Hydrogen Peroxide Concentration unit	5,225 Uhde	EPCM
1995	Indian Rayon and Industries	Veraval	Caustic Concentration and Flaking	50 tpd Bertrams	EPCM
1995	MCW (Uhde GmbH)	Israel	Hydrogen Peroxide	15,000 Uhde	E (Detail Engg)
1995	Bertrams AG. Subcontract	Egypt	Piping Engineering for Caustic Evaporation unit	- Bertrams	E (Detail Engg)
1995	Brasali (Uhde GmbH)	Indonesia	Hydrogen Peroxide	15,000 Uhde	E (Detail Engg)

1994	Hindustan Organic Chemicals	Cochin	Hydrogen Peroxide	5,225 Uhde	EPCM
1994	Gujarat Alkalies and Chemicals	Baroda	Hydrogen Peroxide	11,000 Uhde	EPCM
1993	Andhra Pradesh Paper Mills	Rajahmundry	Chlorine Dioxide	3 tpd Uhde	EPCM
1993	Gujarat Alkalies and Chemicals	Baroda	Potassium Carbonate	61.5 tpd Bertrams	EPCM
1992	Gujarat Alkalies and Chemicals	Baroda	Sodium Hypochlorite - phase II	4 tpd Uhde (of absorbed Chlorine)	EPCM
1990	Gujarat Alkalies and Chemicals	Baroda	Hydrogen Compression and Transfer Line	- Uhde India	EPCM
1989	Reliance Petrochemicals	Hazira	Liquid Chlorine Unloading system	5 tpd Uhde India	E (Detail Engg), COS
1989	Insilco	Gajraula	Spray Dried Silica	7,000 Degussa	EPCM
1985	Hukumchand Jute and Industries	Amlai	Caustic Concentration and Flaking	40 tpd Bertrams	EPCM
1985	Gujarat Alkalies and Chemicals	Baroda	Sod. Hypochlorite, Waste Air Washing and Zero Effluent system	3 tpd Uhde	EPCM
1985	Punjab Alkalies & Chemicals	Nangal	Caustic Concentration and Flaking	50 tpd Bertrams	EPCM
1985	Gujarat Alkalies and Chemicals	Baroda	Dense Soda Ash	66 tpd Bertrams	EPCM
1985	Gujarat Alkalies and Chemicals	Baroda	Caustic Concentration and Flaking	50 tpd Blaw Knox	EPCM
1985	Southern Petrochemical Industries Corpn.	Tuticorin	Aluminium Fluoride	8 tpd Alesa Aluisse	E (Detail Engg)
1979	Hindustan Organic Chemicals	Rasayani	Liquid N ₂ O ₄	2 tpd Uhde	EPCM

Abbreviations (Services Rendered)

E (Basic Engg), E (Detail Engg), P = Procurement, EPCM = Engineering, Procurement, Construction Management, PS = Proprietary Supplies, CS = Construction Supervision, COS = Commissioning Supervision, EPC-LSTK = Engineering Procurement Construction - Lumpsum Turnkey, FEED - Front End Engineering Design, PMC = Project Management Consultancy, DFR = Detailed Feasibility Report