

Caustic Soda-Chlorine - Project References

Year of Order	Customer	Plant Location	Plant / Product	Capacity (tpd)	Licensor	Services Rendered
2019	Grasim Industries	Balabhadrapuram	Caustic Soda (Expansion)	400 (after tkIS expn.)		E (Basic & Detailed), P
2019	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (Expansion)	1,310 (after tkIS expn.)		E, P, LS, CS, COS
2019	The Andhra Sugars	Saggonda	Caustic Soda (replacement of Cell elements)	- tkIS		E, P, LS, CS, COS
2019	Grasim Industries	Ganjam	Caustic Soda (supply of Cell elements)	- tkIS		E, LS
2019	Grasim Industries	Veraval	Caustic Soda (supply of Cell elements)	- tkIS		E, LS
2019	Covestro (tkIS)	Spain	NaCl ODC	136,000 tpa tkIS		E (Detailed)
2018	Punjab Alkalies & Chemicals	Nangal	Caustic Soda (Upgradation & Expansion)	300 (after tkIS AG expn.)		EPCM, PS
2018	Grasim Industries	Vilayat	Caustic Soda (Expansion)	1200 (after tkIS AG expn.)		EPCM, PS
2018	Kutch Chemicals	Kutch	Caustic Soda	525 (after tkIS AG expn.)		EPCM, PS
2018	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (replacement of cell elements)	- tkIS AG		EPCM, PS
2018	Grasim Industries	Rehala	Caustic Soda (replacement of cell elements)	- tkIS AG		EPCM, PS
2018	Grasim Industries	Renukoot	Caustic Soda (replacement of cell elements)	- tkIS AG		EPCM, PS
2018	GACL-NALCO Alkalies & Chemicals	Dahej	Caustic Soda	266,670 TPA tkIS AG		EPCM, PS

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2018	Nirma	Bhavnagar	Caustic Soda (Expansion)	540 (after tkIS AG expn.)		EPCM, PS
2018	Tata Chemicals	Mithapur	Caustic Soda	60	tkIS India	EPCM incl. E (Basic Engg & Detail Engg)
			Chlorine (replacement of cell elements)	53		
2017	Kutch Chemicals Industries	Kutch	Caustic Soda	421	tkIS AG	EPCM, PS
2017	Atul	Atul, Gujarat	Caustic Soda (Expansion)	100 (after tkIS AG expn.)		EPCM, PS
2017	Grasim Industries	Karwar	Caustic Soda (replacement of cell elements)		- tkIS AG	E (Detail Engg), PS
2017	Andhra Sugars	Andhra Pradesh	Caustic Soda (Expansion)	Expn upto 600 tpd	Uhde	EPCM, PS
2016	Grasim Industries	Vilayat	Caustic Soda	1000 (after expn.)	Uhde	E (Detail Engg), P, PS
2016	Gujarat Alkalies and Chemicals	Vadodara	Caustic Soda (replacement of cell elements)		- Uhde	E (Detail Engg), P, PS
2016	Grasim Industries	Rehala	Caustic Soda (replacement of cell elements)		- Uhde	E (Detail Engg), P, PS
2016	Grasim Industries	Renukoot	Caustic Soda (replacement of cell elements)		- Uhde	E (Detail Engg), P, PS
2016	Xingjiang Heshan Chemical (tkUCE)	China	HCl Electrolysis	429	Uhde	E (Detail Engg)
2016	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (replacement of cell elements)		- Uhde	E (Detail Engg), P, PS
2015	Aditya Birla Chemicals (India) [Jayshree Chemicals]	Ganjam	Caustic Soda (Expansion)	250 (after expn.)	Uhde	EPCM, PS
2015	Nirma	Bhavnagar	Caustic Soda (Expansion)	270 (after expn.)	Uhde	EPCM, PS

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2015	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (replacement of cell elements)	785 (after replacement)	Uhde	EPCM, PS
2015	Gujarat Alkalies and Chemicals	Vadodara	Caustic Soda (replacement of cell elements)	500 (after replacement)	Uhde	E (Detail Engg), CS, COS
2015	Double Happiness (TKUCE)	China	HCl Electrolysis	Confidential	Uhde	E (Detail Engg)
2015	Al Qahtani Chemicals Company	Saudi Arabia	Integrated Complex	250,000 TPA	tK Uhde	E (Detail Engg), P
			Caustic Soda		Chlorine Engrs	
			Ferric Chloride	50,000 TPA	Consito	
			Calcium Chloride	200,000 TPA		
2015	Grasim Industries	Vilayat	Caustic Soda (replacement of cell elements)	500	tK Uhde Chlorine Engrs	E (Detail Engg), PS
2015	Gujarat Alkalies and Chemicals	Vadodara	Caustic Potash	120 (after conversion)	Uhde	EPCM
2014	Aditya Birla Chemicals (India)	Rehala	Caustic Soda (replacement of cell elements)	300	tK Uhde Chlorine Engrs	E (Detail Engg), PS
2014	Atul	Atul, Gujarat	Caustic Soda	75	Uhde (conversion to Membrane Cell)	EPCM, PS
2014	Nirma	Bhavnagar	Caustic Soda	180	Uhde	EPCM, PS
2013	Grasim Industries	Karwar	Caustic Soda (conversion to Membrane Cell)	150	Uhde	E (Detail Engg), PS
2013	Grasim Industries	Nagda	Caustic Soda (replacement of Cell elements)	280 (after replacement)	Uhde	E (Detail Engg), PS
2013	Aditya Birla Nuvo	Veraval	Caustic Soda (replacement of Cell elements)	250 (after replacement)	Uhde	EPCM, PS
2013	Nirma Limited	Bhavnagar	Caustic Soda (Expansion)	300 (after expn.)	Uhde	EPCM, PS

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2013	Aditya Birla Chemicals (Thailand)	Thailand	Supply of Cell elements	70 Uhde		E (Detail Engg), PS
2013	Grasim Industries	Nagda	Supply of Cell elements	280 Uhde		E (Detail Engg), PS
2013	National Chlorine Industries	Jordan	Caustic Soda (Expansion)	54 (after Uhde expn.)		EPCM, PS
2012	Kudos Agrohols	Punjab	Caustic Soda	50 Uhde		EPC-LSTK
2012	Reliance Industries	Dahej	Caustic Soda (replacement of electrolyzers)	490 Uhde		E (Detail Engg)
2012	K. P. R. Industries (India)	Andhra Pradesh	Caustic Soda	200 Uhde		EPCM, PS
2012	Grasim Industries	Nagda	Caustic Soda (replacement of Cell elements)	280 (after Uhde replacement)		PS
2011	Grasim Industries	Vilayat	Caustic Soda	500 Uhde		EPCM, PS
2011	Aditya Birla Chemicals (India) [Bihar Caustic & Chemicals]	Rehala	Caustic Soda	450 Uhde (after expn.)		EPCM, PS
2010	Grasim Industries	Nagda	Caustic Soda (replacement of Cell elements)	280 (after Uhde replacement)		E (Basic Engg & Detail Engg), PS, COS
2009	Grasim Industries	Nagda	Caustic Soda (replacement of Cell elements)	280 (after Uhde replacement)		E (Basic Engg & Detail Engg), PS, COS
2009	Andhra Sugars	Andhra Pradesh	Caustic Soda (replacement of cell elements & expansion)	Expn. upto Uhde 436		EPCM, PS
2009	Jayshree Chemicals	Orissa	Caustic Soda (conversion to Membrane Cell)	152 Uhde		EPCM incl. E (Basic Engg), PS
2008	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (Debottlenecking)	785 (after Uhde debottlenecking)		E (Detail Engg), PS, CS, COS

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2008	Aditya Birla Nuvo (Indian Rayon and Industries)	Veraval	Caustic Soda (Expansion)	250 (after Uhde expn.)	Uhde	E (Detail Engg), PS
2008	Grasim Industries	Nagda	Caustic Soda (replacement of cell elements)	-	Uhde	E (Detail Engg), PS
2008	Gujarat Alkalies and Chemicals	Baroda	Caustic Soda (replacement of cell elements)	-	Uhde	E (Detail Engg), PS, CS, COS
2007	Aditya Birla Chemicals (India) [Bihar Caustic & Chemicals]	Rehala	Caustic Soda-Chlorine (addition of cell elements)	300 (after addn.)	Uhde	E (Basic Engg & Detail Engg)
2007	Sahara Petrochemicals (Uhde GmbH)	Saudi Arabia	Caustic Soda-Chlorine	250	Uhde	E (Basic Engg)
2007	Spolchemie (Uhde GmbH)	Czech Republic	Caustic Soda (Conversion to Membrane Cell)	-	Uhde	E (Basic Engg)
2007	Nirma	Bhavnagar	Caustic Soda-Chlorine	240	Uhde	EPCM, PS
2007	Andhra Sugars	Andhra Pradesh	Caustic Soda-Chlorine (Expansion)	Expn. by 50 (upto 400 tpd)	Uhde	E (Detail Engg), PS
2006	Kanoria Chemicals & Industries	Renukoot	Caustic Soda - phase II	Expn. upto 220	Uhde	EPCM incl. E (Basic Engg)
2006	Aditya Birla Nuvo (Indian Rayon and Industries)	Veraval	Caustic Soda (Expansion)	200 (after expn.)	Uhde	E (Basic Engg), PS, CS, COS
2006	LUKOIL Chemical Group (Uhde GmbH)	Ukraine	Caustic Soda-Chlorine (Conversion to Membrane Cell)	200,000 TPA Caustic / 177,000 TPA Chlorine	Uhde	E (Detail Engg)
2006	DCW Ltd.	Tamilnadu	Caustic Soda (Membrane Cell expansion + conversion)	283 (after expn.)	Uhde	EPCM incl. E (Basic Engg), PS

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2005	Vestolit (Uhde GmbH)	Germany	Caustic Soda-Chlorine (Conversion to Membrane Cell)	293,000 TPA Caustic / 260,000 TPA Chlorine	Uhde	E (Detail Engg)
2005	Penwalt (Uhde GmbH)	Mexico	Caustic Soda	110	Uhde	E (Basic Engg)
2005	The Travancore-Cochin Chemicals	Udyogamandal	Caustic Soda - plant II	25	Uhde	EPC-LSTK
2005	Standard Alkalies	Mumbai	Caustic Soda (Expansion)	Expn. by 30 tpd	Uhde	E (Detail Engg), PS, CS, COS
2005	Astha Chemicals (Uhde GmbH)	USA	Caustic Potash	200	Uhde	E (Detail Engg)
2005	Chemplast Sanmar	Karaikal	Caustic Soda (Expansion)	Expn. by 52.5 (upto 165 tpd)	Uhde	E (Detail Engg), PS, CS, COS
2005	Aditya Birla Chemicals (Thailand) Ltd. (erstwhile Thai Organics Chemical Co.)	Thailand	Caustic Soda (Expansion)	Expn. by 70 tpd	Uhde	E (Detail Engg), PS, CS
2005	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda (Expansion)	635 (after expn.)	Uhde	E (Detail Engg), PS
2004	Aditya Birla Chemicals (India) [Bihar Caustic & Chemicals]	Rehala	Caustic Soda- Chlorine	225 (after expn.)	Uhde	EPCM
2004	Aditya Birla Nuvo (Indian Rayon and Industries)	Veraval	Caustic Soda (Expansion)	175 (after expn.)	Uhde	E (Detail Engg), PS
2004	Andhra Sugars	Kovvur	Caustic Potash	50	Uhde	E (Detail Engg), PS
2004	Tessengerlo Chemie NV (Uhde GmbH)	Belgium	Caustic Soda (Conversion to Membrane Cell)	930	Uhde	E (Detail Engg)
			Chlorine	825		

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2004	Anwil SA (Uhde GmbH)	Poland	Caustic Soda (Conversion to Membrane Cell)	650	Uhde	E (Detail Engg)
2004	Kanoria Chemicals & Industries	Renukoot	Caustic Soda- Chlorine - phase I	110	Uhde	EPC-LSTK
2004	Arvand Petrochemicals (Sazeh Consultants)	Iran	Caustic Soda	1000 x 2	Uhde trains	E (Detail Engg)
2004	Sree Rayalaseema Alkalies & Allied Chemicals	Kurnool	Caustic Soda (expansion)	75	Uhde	E (Detail Engg), PS
2004	The Travancore-Cochin Chemicals	Udyogamandal	Caustic Soda - plant I	25	Uhde	EPC-LSTK
2003	Formosa Plastics Corpn. (Uhde GmbH)	Taiwan	Caustic Soda	400	Uhde	E (Detail Engg)
2003	Norsk Hydro (Uhde GmbH)	Norway	Caustic Soda	450	Uhde	E (Detail Engg)
			Chlorine	400		
2003	Chemplast Sanmar	Pondicherry	Caustic Soda (Expansion)	112.5 (after expn.)	Uhde	EPCM, PS
2001	Andhra Sugars	Andhra Pradesh	Caustic Soda-Chlorine (Expansion)	350 (after expn.)	Uhde	E (Detail Engg), PS, CS, COS
2001	Weifang Yaxing Chemicals Co. (Uhde GmbH)	China	Caustic Soda	175	Uhde	E (Detail Engg)
2000	National Chlorine Industries	Jordan	Caustic Soda (Expansion)	48 (after expn.)	Uhde	E (Detail Engg), PS, CS
1998	Qatar Vinyl Co. (Uhde GmbH)	Qatar	Caustic Soda	880	Bayer / Hoechst /	E (Detail Engg)
			Chlorine	790	Uhde	
1998	Bitterfeld Chlor Alkali (Uhde GmbH)	Germany	Caustic Soda (Revamp)	75,000 TPA	Uhde	E (Detail Engg - PI)

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1998	Wacker Chemie (Uhde GmbH)	Germany	Caustic Soda	696	Bayer / Hoechst / Uhde	E (Detail Engg)
1996	Punjab Alkalies & Chemicals	Nangal	Caustic Soda (Conversion to Membrane Cell)	200	Bayer / Hoechst / Uhde	EPCM, PS
1996	Chemfab Alkalies	Pondicherry	Addition of 2 electrolyzers	40	Uhde	EPCM
1996	Gujarat Alkalies and Chemicals	Baroda	Anode / Cathode Recoating & New Catholyte System	-	Uhde	EPCM, PS
1995	MISR Chemical Industries (Uhde GmbH)	Egypt	Caustic Soda	206	Bayer/Hoechst/ Uhde	E (Detail Engg)
1995	Gujarat Alkalies and Chemicals	Dahej	Caustic Soda	300	Uhde	EPCM, PS
1995	Aditya Birla Nuvo (Indian Rayon and Industries)	Veraval	Caustic Soda	100	Uhde	EPCM, PS
			Caustic Evaporation	100	Bertrams	
1995	Kothari Petrochemicals	Karaikal	Caustic Soda	60	Uhde	EPCM, PS
1995	Search Chem Industries	Jhagadia	Caustic Soda	100	Uhde	EPCM, PS
			Caustic Evaporation	150	Niro-Kestner	EPCM
1994	United Phosphorus	Jhagadia	Caustic Soda (Relocation)	56	Uhde	EPCM, PS
1992	Punjab Alkalies & Chemicals	Nangal	Caustic Soda (Membrane Cells) Chlorine	100	Bayer / Hoechst / Uhde	EPCM, PS
			Hydrogen Chloride	40		
			Sodium Hypochlorite	100	Bertrams	
			Caustic Evaporation			
1992	National Chlorine Industries (Uhde GmbH)	Jordan	Caustic Soda	20	Bayer / Hoechst / Uhde	EPCM
1992	Chemfab Alkalies	Pondicherry	Caustic Soda (Membrane Cells & facilities)	21	Bayer / Hoechst / Uhde	EPCM

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1992	Grasim Industries	Nagda	Caustic Soda (Conversion to Membrane Cell)	260	Uhde	EPCM, PS
1992	Indian Petrochemicals Corpn.	Gandhar	Caustic Soda-Chlorine	422	Uhde	EPCM, PS
1991	Gujarat Alkalies and Chemicals	Baroda	Caustic Soda (Conversion to Membrane Cell)	205	Bayer/Hoechst/Uhde	EPCM, PS
			Caustic Potash	50		
1990	Punjab Alkalies & Chemicals	Nangal	Caustic Soda (Expansion)	160	Bayer/Hoechst/Uhde	EPCM
1989	Modi Alkalies & Chemicals	Alwar	Caustic Soda (Expansion)	200	Bayer/Hoechst/Uhde	E (Detail Engg)
1989	Standard Alkali of Standard Mills Co.	Mumbai	Caustic Soda (Conversion to Membrane Cell)	165	Bayer/Hoechst/Uhde	EPCM, PS
			Caustic Evaporation	165	Bertrams	
1988	Formosa Plastics Corpn. (Uhde GmbH)	Taiwan	Caustic Soda (Conversion to Membrane Cell)	425	Bayer/Hoechst/Uhde	E (Detail Engg)
1988	Gujarat Alkalies and Chemicals	Baroda	Chlorine Liquefaction	100	Hoechst / Uhde	EPCM
			Chlorine Evaporation	65		
			Sodium Hypochlorite	4	Bertrams	
			Caustic Evaporation unit	240	Blaw Knox	
			Pre-concentrator	50		
1987	Gujarat Alkalies and Chemicals	Baroda	Caustic Soda (Conversion to Membrane Cell)	200	Bayer/Hoechst/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