

Petrochemicals & Organic Chemicals - Project References

Year of Order	Customer	Plant Location	Plant / Product	Capacity (TPA)	Licensor	Services Rendered
2018	Indian Oil Corpn.	Panipat	Naphtha Cracker Unit	947 KTA	CBI & Lummus	DFR
			Mono Ethylene Glycol Unit	425 KTA	Scientific Design	
			Olefin Recovery	227 KTA	CBI & Lummus	
2018	Reliance Sibur Elastomers	Jamnagar	Halogenated Isobutylene Isoprene Rubber	60,000	JSC Ri Yarsintez	OSBL : BDE, DE ISBL : DE, P, COS
2017	Farabi Petrochemicals	Yanbu, KSA	Paraffin	235,000	UOP	PMC
			LAB Derivatives	120,000		
2017	Hadaf International Energy	Al Jubail, KSA	Heat Transfer Unit for Paraffin Derivatives Complex	14,880	Jingdongjin gmao	EPCM
			HTF Blending	-	GDI	
2017	Farabi Downstream	Al Jubail, KSA	Paraffin & Derivatives Complex			EPCM
			Sulfonation Unit			
			Alkyl Aryl Sulphonates	9,300	Chemithon	
			HAB Sulphonic Acid	18,000	Chemithon	
			Alkane & Alkene Derivatives	20,000	Chemithon	
			Alkylation Unit	25,000	KSR	
			Fuel Additives	18,000	KSR	
Offsites & Utilities	-	-				
2017	Petron Sciencetech	USA	Ethylene Oxide / Ethylene Glycol	25 KTPA	Petron Sciencetech	BEP

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2016	Kanoria Chemicals & Industries	Ankleshwar	Formaldehyde (technology upgradation project)	281 tpd	Johnson Matthey Formox AB	EPCM
2016	Farabi Petrochemicals	Saudi Arabia	Paraffin & Derivatives project	-	Various	Cost Estimation, DE for O&U, Residual BE for Heat Transfer Unit
2016	Deepak Phenolics	Dahej	Cumene	260,000	UOP	EPCM
2015	Al Qahtani Chemicals Company	Saudi Arabia	Integrated EDC Caustic Soda Complex Ethylene Dichloride	150,000	tkIS PT	D(E), P
2015	Indian Oil Corpn.	Panipat Refinery	C2-C3 Olefin Recovery project	-	CBI Lummus	DFR, EPCM
2015	Deepak Phenolics	Dahej	Phenol	200,000	KBR	EPCM
2014	Indian Oil Corpn.	Orissa (Paradip Refinery)	Polypropylene Unit Coker LPG Treatment Unit	2 x 340 KTPA 165 TMPTA	Basell Poliolefine Italia Engineers India	PMC
2013	Farabi Petrochemical Co.	Saudi Arabia	NPN Splitter project in Linear Alkyl Benzene plant	-	-	BEP, Cost Estimate
2013	IBN – ZHR (Saudi European Petrochemical Co.)	Saudi Arabia	OCT Feed Purification project	Feed for 250,000 MTA Propylene plant	CB&I Lummus	LSTK
2011	Pidilite Industries	Dahej	Polychloroprene	32,000	Polimeri Europa	E, P, CS, COS

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2011	IBN Sina (Formox AB)	Saudi Arabia	Formaldehyde	66,000	Formox AB	E (Detailed)
2011	DCW Limited	Tamilnadu	C-PVC	10,000	Arkema	E, P, CS, COS
2011	Supreme Petrochem	Nagothane	Polystyrene (Revamp)	300,000 (after Revamp)	ABB Lummus	E (Detailed)
2010	Indian Synthetic Rubber	Panipat	Styrene Butadiene Rubber	120,000	TSRC	E, FEED, PMC
2009	Farabi Petrochemical Co.	Saudi Arabia	Linear A kyl Benzene	Duplication of LAB	UOP	E, P, C, COS
2009	Qatar Petrochemical Co (QAPCO) (Uhde GmbH)	Qatar	LDPE	300,000	Lyondell Basell	E (Detailed)
2009	Kanoria Chemicals & Industries	Vizag	Formaldehyde	100,000	Formox AB	E(Detailed), P, CS, COS
2008	TICONA (Perstorp Speciality Chemicals)	Germany	Formaldehyde	88,000 (2 trains)	Formox AB	E (Detailed)
2008	Reliance Industries	Hazira	EO Reactor Modification (Revamp of MEG plant 3)	-	Shell	E (Detailed)
2007	Reliance Industries	Hazira	Revamp of Carbonate Section / Ethylene Glycol Section (Debottlenecking in MEG plants 2 & 3)	-	Shell	E (Detailed)
2007	SASOL (Uhde – A Divn. of TK Engg., South Africa)	S. Africa	Methyl Isobutyl Ketone (MIBK)	30,000	BEP : Uhde South Africa / Uhde	E (Detailed)

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2007	Indian Oil Corpn.	Panipat (Naphtha Cracker Complex)	LLDPE-HDPE Swing Unit	350,000	Nova Chemicals	PMC
2007	Egyptian Propylene & Polypropylene Company (Uhde GmbH)	Egypt	Propylene / Polypropylene Offsites & Utilities	350,000	Uhde / Basell	E (Basic & Detailed), P
2007	Indian Oil Corporation	Panipat (Naphtha Cracker Complex)	High Density Polyethylene	300,000	Basell Poliolefine	EPCM Services
2007	Gujarat Alkalies and Chemicals	Baroda	Chloromethanes (Debottlenecking)	14,985 x 2 trains	-	EPCM Services
2006	SABIC Polyolefine (Uhde GmbH)	Germany	High Density Polyethylene	220,000	Basell	E (Detailed)
2006	Haldia Petrochemicals	Haldia	Polypropylene / LLDPE-HDPE Swing Unit (Revamp)	320,000 368,000 (after expn.)	Basell	E (Extended Basic & Detailed), P
2005	Finolex Industries	Ratnagiri	S-PVC Expansion	Expansion by 120,000	-	E, P, CS
2005	Vinyl Chemicals (India)	Mahad	Vinyl Acetate Monomer [Debottlenecking (Phase III)]	30,000 (after debottlenecking)	-	E
2005	Nirma	Baroda	Linear Alkyl Benzene (Revamp & Debottlenecking)	-	UOP	E
2004	EMS Inventa	Confidential	Man-made fibres (Raw materials)	Confidential	-	E
2004	Supreme Petrochem	Nagothane	Polystyrene (Expansion)	300,000 (after expn.)	-	E

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2004	Nirma	Baroda	LAB – Define Unit of LAB	43,500	UOP	E
2004	Farabi Petrochemical Co. (SNC-Lavalin International, Canada)	Saudi Arabia	n-Paraffin Linear Alkyl Benzene	120,000 70,000	UOP	E, P, CS, COS
2003	Reliance Industries	Hazira	Ethylene Oxide Ethylene Glycol (Revamp - part of MEG Capacity Expansion)	-	Shell	E
2002	Jal International	Saudi Arabia	Vapour Separation for Polyethylene plant	-	MTR Inc.	E
2001	Indian Oil Corpn., Gujarat Refinery	Baroda	PMC Services for LAB project	120,000	UOP	E, FEED, PMC
2001	Nirma	Ahmedabad	Linear Alkyl Benzene (Revamp)	-	UOP	E
2000	SASOL (Uhde – A Divn. of TK Engg., South Africa)	S. Africa	n-Butanol	150,000	Mitsubishi	E
2000	SASOL (Uhde – A Divn. of TK Engg., South Africa)	S. Africa	Detergent Alcohol	120,000	Uhde/ Kvaerner	E
2000	ThyssenKrupp Engg.(Pty.)	S. Africa	PDMS Model for Polypropylene plant	-	-	E
2000	VAM Organics	Gajraula	Vinyl Acetate Monomer (Expansion)		Bayer	E
2000	Vinyl Chemicals	Mahad	Vinyl Acetate	20,000	Bayer	E

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	(India)		Monomer [Debottlenecking (Phase II)]	(after debottle- necking)		
2000	Supreme Petrochem	Nagothane	Polystyrene (Revamp 2 nd Line)	66,000	-	E
1999	Radici (Uhde GmbH)	Germany	Adipic Acid	80,000	Radici	E
1998	Nirma	Ahmedabad	LAB Front-end	65,000	UOP	E, P, CS, COS
1998	Qatar Vinyl Co. (Uhde GmbH)	Qatar	Ethylene Dichloride Vinyl Chloride Monomer	175,000 230,000	Hoechst Uhde	E
1998	Supreme Petrochem	Nagothane	Polystyrene (Expansion 3 rd Line)	33,000	ABB Lummus	E
1997	Hoecsa	Turkey	Polyester Tyre Cord	14,000	Hoechst Celanese	E, P, CS, COS
1997	P.T.Styrindo Mono (MHI, Japan)	Indonesia	Ethyl Benzene Styrene Monomer	200,000	ABB Lummus	E
1996	Indian Petrochemicals Corpn.	Dahej	High Density Polyethylene	160,000	Hoechst	E, P, CS, COS
1995	Nirma	Ahmedabad	Linear Alkyl Benzene	80,000	UOP	E, P, CS, COS
1995	Chemplast Sanmar	Chennai	Incinerator for Chlorinated Wastes	-	Caloric	E, P, CS, COS
1995	SPIC Petrochemicals	Madras	Polyester Filament Yarn	63,000	Hoechst	E, P, CS, COS

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1994	PETROCORP (Uhde GmbH)	Philippines	Polypropylene	160,000	BASF	E
1993	BASF India	Mumbai	Metal Complex Dyes & Dispersions	1,700 8,200	BASF	E, P, CS, COS
1993	Tamilnadu Petroproducts	Chennai	Epichlorohydrine	10,000	Conser	E, P, CS, COS
1992	Supreme Petrochem	Mumbai	Polystyrene	60,000	ABB Lummus (Huntsman)	E, P, CS, COS
1991	Tamilnadu Petroproducts	Chennai	LAB Front-end (Modification)	-	UOP	E
1991	Kanoria Chemicals & Industries	Ankleshwar	Formaldehyde (Duplication)	16,216	Formox AB	E, P, CS, COS
1990	SPIC Fine Chemicals	Chennai	Synthetic Detergent	30,000	Henkel	E, P, CS, COS
1989	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Styrene	60,000	UOP	E, P, CS, COS
1989	Tamilnadu Petroproducts	Chennai	LAB Back-end (Modification)	-	UOP	E
1989	Hindustan Organic Chemicals	Rasayani	Formaldehyde	33,000	Formox AB	E, P, CS, COS
1989	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Polystyrene	20,000	Atochem	E, P, CS, COS
1989	Reliance Industries	Mumbai	LAB Front-end (n-Paraffin)	100,000	UOP	E, P, CS, COS
1988	Kanoria Chemicals & Industries	Ankleshwar	Formaldehyde	16,216	Perstorp	E, P, CS, COS
1988	Gujarat Alkalies and Chemicals	Baroda	Chloromethanes (Duplication)	10,666 (total)	Shin-Etsu	E, P, CS, COS

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1987	Gujarat State Fertilizers & Chemicals	Baroda	Caprolactam Expansion (Phase I)	50,000	BASF/ Polservice	E, P, CS, COS
1987	Tamilnadu Petroproducts	Chennai	Define unit and heavy n-Paraffin unit of LAB	-	UOP	E, P, CS, COS
1987	Nan-Ya Plastics Corpn.	Taiwan	Bisphenol-A	20,000	Ciech Icso	E
1987	Vinyl Chemicals (India)	Mahad	Vinyl Acetate Monomer	10,000	Bayer	E, P, CS, COS
1987	UB Petroproducts	Chennai	Propylene Oxide Propylene Glycol Polyols	12,000 8,500 8,000	Montedipe/ Pressindust ria	E, P, CS, COS
1987	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Polystyrene (Modernisation)	7,400	Fordell	E, P, CS, COS
1986	National Organic Chemical Industries	Thane	Ethylene Oxide Ethylene Glycol [Modernisation (Phase II)]	-	Shell	E
1985	Polyolefins Industries	Thane	Ethyl Vinyl Acetate (Relocation)	-	Johnson Matthey Catalysts	E, P, CS, COS
1985	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Expandable Polystyrene	2,000	Sunde Plastics	E, P, CS, COS
1985	Polyolefins Industries	Thane	Prevulcanising Inhibitor	300	Monsanto	E, P, CS, COS
1985	Cibatul	Atul	Formaldehyde	13,200	Perstorp	E, P, CS, COS
1985	National Organic Chemical Industries	Mumbai	Ethylene Oxide reactor (Relocation)	-	Shell	E, CS

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1984	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Ethylene (Modernisation)	3,000	Petrobras	E, P, CS, COS
1984	Tamilnadu Petroproducts	Chennai	Linear Alkyl Benzene	50,000	UOP	E, P, CS, COS
1983	Gujarat Alkalies and Chemicals	Baroda	Chloromethanes comprising Methyl Chloride Methylene Chloride Chloroform Carbon Tetrachloride	10,666 (Total)	Shin-Etsu	E, P, CS, COS
1982	McDowell & Co. -Polymers Division (Now LG Chemicals)	Vizag	Ethyl Benzene Styrene (Modernisation)	15,000 15,000	UOP CdF Chemie	E, P, CS, COS
1981	National Organic Chemical Industries	Mumbai	Ethylene Oxide (Expansion and Modernisation)	3,900 (after expn.)	Shell	E, P, CS
1980	Hindustan Organic Chemicals	Rasayani	Nitrotoluene	6,200	HOC	E, P, CS, COS
1979	Polychem	Nira	Ethylene from Alcohol Vinyl Acetate Monomer	2,600 5,000	Polychem Bayer	E, P, CS, COS
1977	Sahyadri Dyestuffs & Chemicals (Division of Mafatlal Industries)	Dewas	Dimethyl Aniline	3,000	Sahyadri	E, P, CS, COS

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