

PROCESS PLANTS & General Construction

	PROJECT	CLIENT/ CONSULTANT	SCOPE	STATUS
1	Hydrocracker Unit	Indian Oil Corp Ltd/Lurgi India Co Ltd	Residual process design, detailed engineering, procurement, supply, third party inspection, transportation of all equipment/ materials to site, materials management, construction, installation, testing, pre-commissioning, commissioning, performance guarantee run on single point responsibility basis. Capacity : 1.7 MMTPA at Haldia Refinery.	Ongoing Aug 2009
2	Utilities and Offsites for LNG Plant	Yemen LNG Co Ltd/Yemgas (JV of Technip France, JGC Corp and Kellog Brown & Root)	Construction civil, pressurized underground piping, steel structure erection, hoisting and mechanical erection, alone ground piping, electrical, instrumentation, painting, insulation of LNG Plant at Yemen.	Ongoing Dec 2008
3	Hydrogen Generation Unit	Indian Oil Corp Ltd/Lurgi India Co Ltd	Residual process design, detailed engineering, procurement, supply, transportation of all equipment/ materials to site, materials management, construction including installation, testing, pre- commissioning, commissioning, performance guarantee run on single point responsibility basis. Capacity : 70 TTPA at Haldia Refinery.	Ongoing Nov 2008
4	Fuel Systems	New Doha International Airport/Bechtel (PMC)	Engineering, procurement and construction of fuel farm, fuel receiving station, jet fuel hydrant system including 24 km piping, ground service equipment fuel system, ground service equipment washing system, portable water station and operation office, parking facility for hydrant dispenser vehicles, triturator facility, special fuel system equipment, special systems in building / facilities (BMS/ CCTV).	Ongoing Dec 2008
5	Tunu Field Development Phase 11 S / EPSC 5	Total E&P Indonesie	Engineering, procurement, construction and commissioning of the South Utility Platform, including deck structure for power, effluent treatment, potable water system, safety and fire fighting equipment along with piping, electrical and instrumentation work in Mahakam Delta.	Ongoing Aug 2008
6	Heera Redevelopment Platform	ONGC	Four new wellhead platforms, eight segments of rigid pipelines, (6" to 16" dia) 56.6 km, three segments of flexible pipelines (140 mm ID) 10.5 km, 25 km composite power and OFC, associated topside modifications on existing platforms, replacement of SBM system at Mumbai High South and disposal of old SBM.	Ongoing Apr 2008
7	Onshore Gas Development Phase III	Eastern Bechtel Co Ltd/ Abu Dhabi Gas Industries Ltd (GASCO)	Piping and equipment erection for offsites and utilities at Abu Dhabi.	Ongoing Nov 2007
8	Asset Preservation and Maintenance of Daewoo Motors India Ltd	ICICI, IDBI, Exim Bank, SBI	Asset maintenance and preservation of press shop, body shop, paint shop, assembly shop, plastic paint and moulding shop and utilities area of Daewoo Motors India Ltd Car factory at Noida.	Ongoing Jul 2007
9	Central Environment Protection Facility	SNC-Lavalin International/ Abu Dhabi Oil Refining Co (Takreer)	Design, engineering, procurement, construction, commissioning and start-up of process piping and tankage for BeAAT project in Ruwais, UAE.	Ongoing Jun 2007



	PROJECT	CLIENT/ CONSULTANT	SCOPE	STATUS
10	Second Generation Project Offsites and Utilities	-	Offsite and utilities mechanical work comprising equipment installation, piping fabrication, erection, insulation, painting, commissioning assistance for the following areas at Tengiz, Kazakhstan : Chemical Storage, Fuel Gas Compressor, Flare, Interconnecting Piperacks, LPG and Crude Storage Tanks, LACT (Lease Automatic Custody Transfer) Metre Water Treatment.	Completed Jun 2006
11	Paraxylene Unit No 2	Indian Oil Corp Ltd	Fabrication and erection of structural work, equipment, piping and painting at Panipat Refinery.	Completed Jun 2006
12	Motor Spirit Quality Upgradation	Indian Oil Corp Ltd/ Lurgi India	Residual process design, detailed engineering, procurement, construction and commissioning on EPC basis at Haldia Refinery.• Naphtha Splitter385,000 MT/YR• Naphtha Hydrotreater82,000 MT/YR• Reformate Splitter182,000 MT/YR• Isomerisation – LPG Recovery122,000 MT/YR• Selective Hydrogenation200,000 MT/YR• FCC Gasoline Splitter200,000 MT/YR• Prime G+ Selective Hydrodesulphurisation160,000MT/YR• Automatic on-line MS Blending Station (with optimisation)	Completed Dec 2005
13	Hydrocracker Unit	Daelim Industrial Co Ltd/Engineers India Ltd/Indian Oil Corp Ltd	Mechanical construction comprising erection of equipment including reactors, structural steel supply and fabrication, erection work, piping, fire-proofing and painting at Panipat Refinery – 1.7 MMTPA .	Completed Sep 2005
14	Peciko Onshore Development Phase 4	TotalFinaElf E&P Indonesie	Engineering, procurement and supply of materials, construction, pre-commissioning and commissioning assistance for two gas compression trains at onshore plant at Senipah on EPC basis, with a gas capacity of 450 MMSCFD for each train.	Completed May 2005
15	Visbreaker Unit (VBU) and Sulphur Block	Petrofac International Ltd/Chennai Petroleum Corp Ltd	Residual process design, detailed engineering, procurement, construction and commissioning at Manali Refinery. • VBU : 3600 mt/sd • SRU : 2 x 90 tpd • ARU : 330 tph • SWS : 58.9 mt/hr	Completed Aug 2003
16	Sulphur Block and Utilities/Offsite	Siirtec Nigi S.p.A./Indian Oil Corp Ltd	Residual process design, detailed engineering, procurement, construction and commissioning on EPC basis at Guwahati Refinery. • SRU : 5 tpd • ARU : 6.5 tph • SWS : 6 m ³ /hr • Extensive Utilities and Offsites	Completed Dec 2001
17	Hydrocracker Unit	Indian Oil Corp Ltd	Erection of equipment, machinery, structural work, fabrication, erection of piping, electrical instrumentation, painting, insulation and fire-proofing for Hydrocracker Unit of Matching Secondary Processing Facilities at Mathura Refinery (1.2 MMTPA).	Completed Jun 2000
18	Sulphur Block	Petrofac International Ltd/ Kochi Refineries Ltd	Civil and structural work, erection of equipment, machinery, fabrication and erection of piping, tanks, electrical, instrumentation, painting, insulation and fire-proofing of the Sulphur Recovery Unit (2 x 72 TPD), Amine Regeneration Unit and Sour Water Stripper, including related supplies at Kochi Refinery.	Completed Mar 2000
19	Additional Chilling Train	Reliance Petroleum Ltd/ Whessoe LGA	Residual engineering, procurement, construction and pre-commissioning of additional LPG/Propylene chilling train for LPG Storage.	Completed Feb 2000



	PROJECT	CLIENT/ CONSULTANT	SCOPE	STATUS
20	Sulphur Block	Petrofac International Ltd/ Indian Oil Corp Ltd	Civil and structural work, erection of equipment, machinery, fabrication and erection of piping, tanks, electrical, instrumentation, painting, insulation and fire-proofing of the Sulphur Recovery Unit (3 x 60 TPD), Amine Regeneration Unit and Sour Water Stripper, including related supplies at Mathura Refinery.	Completed Oct 1999
21	MTBE Plant	Indian Oil Corp Ltd	Detailed and residual basic engineering, procurement, construction and commissioning of MTBE plant at Gujarat Refinery (37,000 TPA) on EPC basis.	Completed Sep 1999
22	CDU III, VDU III, VBU for VREP-II	Hindustan Petroleum Corp Ltd/Engineers India Ltd	Erection of CS, alloy steel and clad piping, mechanical equipment erection work for 3 MMTPA capacity expansion at Vizag.	Completed Sep 1999
23	Sulphur Block	Kinetic Technology Ltd/Hindustan Petroleum Corp Ltd	Civil and structural work, erection of equipment, machinery, fabrication and erection of piping, tanks, electrical, instrumentation, painting, insulation and fire-proofing of the Sulphur Recovery Unit (2 x 65 TPD), Amine Regeneration Unit and Sour Water Stripper, including related supplies at Mahul Refinery.	Completed Aug 1999
24	Sulphur Block	Petrofac International Ltd/ Indian Oil Corp Ltd	Civil and structural work, erection of process equipment, machinery, fabrication and erection of piping, tanks, electrical, instrumentation, painting, insulation and fire-proofing of the Sulphur Recovery Unit (2 x 35 TPD), Amine Regeneration Unit and Sour Water Stripper, including related supplies at Koyali Refinery.	Completed Jul 1999
25	Piping Work	Reliance Petroleum Ltd	Fabrication and erection of piping (1,500,000 inch m) for marine tank farm area, fire water pump house and associated work at Reliance Refinery.	Completed Jul 1999
26	Low Temperature LPG/Propylene Storage	Reliance Industries Ltd/ Bechtel, UK	Residual engineering, procurement, construction for Propylene system package to convert pressurised LPG into cryogenic LPG, storage and re-liquification package including one double walled propylene storage system (26,000 m3) and allied mechanical, electrical, instrumentation and civil work at Reliance Jamnagar Refinery.	Completed Jun 1999
27	Rajasthan Atomic Power Project (Units 3 and 4)	Nuclear Power Corp of India Ltd/ Engineers India Ltd	Supply, fabrication, erection, testing and commissioning of indoor piping and associated work for 2 x 220 MW Nuclear Power Plant at Kota.	Completed Apr 1999
28	Rajasthan Atomic Power Project (Units 3 and 4)	Nuclear Power Corp of India Ltd/ Engineers India Ltd	Supply, fabrication, erection of piping, equipment and instrumentation of active process cooling water system for 2 x 220 MW Nuclear Power Plant at Kota.	Completed Jun 1998
29	Gas Field Development	Oil India Ltd/ Triune Projects	Detailed and residual basic engineering, procurement, construction, testing and commissioning of gas gathering stations and gas processing complex, (1.0 MMSCMD) SCADA system and other facilities required for the development of gas fields at Dandewalan and Tanot in western Rajasthan.	Completed Mar 1997
30	Ravva Oil Field Development	Hyundai Heavy Industries Ltd/ Cairn Energy	Construction of onshore processing facility for oil and gas fields in S. Yanam, including 6 Nos. oil storage tanks on stone column foundations, electrical and instrumentation work, equipment erection and onshore pipelines from the process plant to the landfall point.	Completed Oct 1996
31	Effluent Treatment Plant	Oil and Natural Gas Corp Ltd	Design, engineering, supply, erection and commissioning of 4,000 m ³ per day effluent treatment plant at North Santhal.	Completed Aug 1996



	PROJECT	CLIENT/ CONSULTANT	SCOPE	STATUS
32	Fire Water System for Desalter Plant	Oil and Natural Gas Corp Ltd	Engineering, supply, erection and commissioning of fire water, storm water and electrical work at Navagam, Gujarat.	Completed Jan 1995
33	Integration System for Desalter Plant	Oil and Natural Gas Corp Ltd/ Engineers India Ltd	Engineering, supply, erection and commissioning of integration systems covering civil, mechanical, piping, electrical and instrumentation work at Navagam.	Completed Jan 1995
34	Natural Gas Compressor Station	Oil and Natural Gas Corp Ltd	Design, engineering, supply, erection and commissioning of 10 Nos. reciprocating compressors, each of 50,000 Nm ³ per day capacity, with all utilities, including an 11 kV substation at Kalol and South Santhal.	Completed Jan 1994
35	Structural Work	Chambal Fertilisers and Chemicals Ltd	Structural steel work for ammonia and urea plant at Gadepan.	Completed Nov 1992
36	Piping Work	Chambal Fertilisers and Chemicals Ltd	Interconnection piping work at Gadepan plant.	Completed Jul 1992
37	Underground Cooling Water Piping	Chambal Fertilisers and Chemicals Ltd	Underground cooling water piping for ammonia and urea plant.	Completed May 1992
38	Gas Turbine Generator	Tamil Nadu Electricity Board/ Hindustan Aeronautics Ltd	Design and procurement of indigenous equipment, erection and commissioning of these and 2 Nos. 5 MW gas turbine generators on turnkey basis for a gas based power plant in Tamil Nadu.	Completed Mar 1992
39	Underground Cooling Water Pipeline	Chambal Fertilisers and Chemicals Ltd/ Toyo Engineering India Ltd	Underground cooling water piping work, piping for offsite area at Gadepan plant.	Completed Dec 1991
40	Captive Power Generation Facility	Hindustan Aeronautics Ltd, Engine Division	Design and procurement of indigenous equipment, erection and commissioning of these and 5 Nos. 3 MW gas turbine generators on turnkey basis for gas-based power plants at three different locations in Assam, including operation and maintenance of the plants for two years after commissioning.	Completed Mar 1991
41	Auriya Compressor and Terminal Station	Spie Capag/ NKK/Toyo Consortium	Complete mechanical work, including equipment erection, piping, painting and insulation of compressor station for HBJ Gas Pipeline at Auriya.	Completed Apr 1989
42	PTFE Plant	Hindustan Fluorocarbons Ltd/Davy Power Gas	Mechanical erection of equipment (static and rotary); erection of CS/SS, Inconel 600 and jacketed piping for PTFE plant at Medak, Andhra Pradesh.	Completed Jan 1987
43	Desalter/ Dehydration Plant	Toyo Engineering India Ltd/Toyo Engineering Corp	Mechanical erection of piping, rotary and skid-mounted equipment for Kuwait Oil Co	Completed Aug 1985
44	Methanol Plant	Gujarat Narmada Valley Fertilizer Co Ltd/Tata Consultancy Engineers	Mechanical erection of equipment – vessels, rotary equipment, etc. – fabrication and erection of CS/SS piping of Methanol plant at Bharuch.	Completed Apr 1985

