

PIPELINES

Expertise Engineering, Procurement, Construction of oil, gas, water, cross country pipelines, in shallow water, swampy and marshy areas, offshore, flow lines and trunklines

• Gas Distribution Grid • Horizontal Directional Drilling

Client and Consultant

• Abu Dhabi Gas Development Co Ltd
• Abu Dhabi National Oil Co Ltd • AGIP KCO
• Bharat Petroleum Corp Ltd • Botas • BTC Co • British Petroleum • Cairn Energy India Pty Ltd • Chambal Fertilisers and Chemicals Ltd • Dolphin Energy Ltd • Engineers India Ltd
• Gas Authority of India Ltd • Gujarat State Petronet Ltd
• Gas Transmission Co Ltd • Gujarat Adani Port Ltd
• Gujarat Gas Co Ltd • Hindustan Petroleum Corp Ltd
• PetroKazakhstan • Hyundai • ILF Consulting Engineers
• Indian Oil Corp • Indian Oil Corp Ltd • Indian Petrochemicals Corp Ltd • Kumpulan Juri Teknik Sdn. Bhd. • McConnell Dowell Indonesia • Nichimen Corp • NKK Corp • Oil and Natural Gas Commission • Oman Gas Co • PDIL • Pertamina
• Petroleum Development Oman LLC • Petronet MHB Ltd
• Petrosea Engg. and Construction Co • Petronas Carigali Sdn Bhd • PT. Bouygues Offshore • PT Trihasra Bimanusa Tunggal
• PT. Perusahaan Gas Negara • Qatar Petroleum • Ras Laffan Olefins Co • Reliance • Reliance Industries Ltd • Sirte Oil Co • Skoda Export • Snamprogetti
• Spie Capag • Total • Tengizchevroil

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| 1 | Shah Gas Gathering – Package 1 | Abu Dhabi Gas Development Co Ltd | Engineering, procurement, installation, commissioning assistance of eight well pad systems, (16" dia) 18 km four inter-pad lines (24" dia) 31 km four transfer lines and flow lines from the individual wells to their associated well pad. Facilities include leak detection, Cathodic Protection, wellhead control, flow gathering and measurement, pressure protection, flare and drain, fire and gas detection, telecommunication and security systems etc., near the Shah processing facility in western region of Abu Dhabi. | Ongoing
Aug 2014 |
| 2 | Sabah Sarawak Gas Pipeline, Malaysia | Petronas Carigali Sdn Bhd | Engineering, procurement, construction and commissioning of (36" dia) 521 km gas pipeline from Kimanis, Sabah to Bintulu, Sarawak, with Cathodic Protection, compressor stations, metering stations, intermediate scraper stations and launcher station, receiver station, 22 block valve stations, six future tap off points along the pipeline, SCADA, telecommunication, leak detection, fire & gas system and a gas management system. | Ongoing
Jul 2012 |
| 3 | Strategic Gas Transmission, Qatar | Qatar Petroleum | Engineering, procurement and construction of (36" dia) 124 km and 87 km twin pipeline, OFC laying, station work, construction of six block valve stations, modification and expansion of existing stations and construction of new station, relocation of 11 KV overhead power line in the pipeline route. | Ongoing
Jun 2011 |

PROJECT	CLIENT/ CONSULTANT	SCOPE	STATUS
4 El Khoms-Tripoli Pipeline Gas Compressor Stations, Libya	Sirte Oil Co	Balance work of (34" dia) 157 km gas pipeline, civil and mechanical work on gas metering stations, compressor stations at Sidra and Wachkah including SCADA and telecommunication.	Ongoing Jun 2011
5 Melita-Tripoli Pipeline, Libya	Sirte Oil Co	Engineering, procurement and construction of (34" dia) 98 km pipeline from Melita to Tripoli with (24" dia) 21 km branchline including gas reducing, metering, compression stations and telecommunication work.	Ongoing Jun 2011
6 Dahej-Vijaipur Pipeline Upgradation	Gas Authority of India Ltd	Construction of (48" dia) 145.43 km natural gas pipeline from Dahej to Jambudi, Spread-1, OFC laying, mechanical, electrical and instrumentation work at Dahej despatch station, six sectionalising valve stations, one intermediate pigging station, including civil, structural and architectural work.	Ongoing, Feb 2011
7 Oil & Gas Export Pipelines, Kashagan, Kazakhstan	Agip KCO	Detailed engineering, procurement and construction of (24" dia) 49.5 km oil pipeline with two crossings by horizontal directional drilling method and 90 km gas pipeline in Atyrau region of western Kazakhstan.	Ongoing Dec 2010
8 Darod-Jafrabad Pipeline	Gujarat State Petronet Ltd	Engineering, procurement and construction of (24" dia) 103 km crude oil pipeline, Section B from Tana to Jafrabad.	Ongoing Sep 2010
9 Multi Product Pipeline, Qatar	Qatar Petroleum	Engineering, procurement, construction and installation of (18" dia) 46 km multiproduct pipeline, OFC laying from Messaieed refinery to Doha depot and station work at Mesaieed refinery and Doha depot including demolition.	Ongoing Aug 2010
10 Doha Urban Pipeline Relocation, Qatar	Qatar Petroleum	Engineering, procurement, construction and commissioning of (36", 12" and 8" dia) 97.2 km gas pipelines, three new stations, six modification stations, decommissioning of existing pipelines and demolition of nine existing stations.	Ongoing Aug 2010
11 Reliance Spurline	Cairn Energy India Pty Ltd	Engineering, procurement, construction, installation, testing and commissioning of heated and insulated (24" dia) 7.2 km crude oil insulated pipeline, corrosion coated, PUF insulation completed with Skin Effect Tubing and HDPE outer sleeve and cables of heat tracing.	Completed Jun 2010
12 Essar Spurline	Cairn Energy India Pty Ltd	Procurement, construction and Installation of (24" dia) 3.3 km crude oil insulated spurline and receiving facility within Essar Oil Refinery for Mangla Development Pipeline, OFC laying, 3.3 km Skin Effect Heat Management System, mechanical, electrical and instrumentation work at AGI Salaya & Essar Receiving Facility including civil, structural and architectural work.	Completed May 2010
13 Mangla Development Pipeline I & II	Cairn Energy India Pty Ltd	Engineering, procurement and construction of (24" dia) 57 km crude oil insulated pipeline and (8" dia) 57 km gas pipeline upto Salaya AGI Station, 56.52 km Skin Effect Heat Management System, mechanical, electrical, civil, structural and architectural work.	Completed Apr 2010
14 Radhanpur Spurline	Cairn Energy India Pty Ltd	Engineering, procurement and construction of (10" dia) 22 km crude oil insulated pipeline upto IOCL Radhanpur Terminal, OFC laying, skin Effect Heat Management System, mechanical, electrical, instrumentation, civil, structural and architectural work.	Completed Mar 2010



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15 Stabilisation and Sweetening Train, Aksai	Karachaganak Petroleum Operating B.V. (KPO)	Installation of 26,000 inch dia piping and equipment erection at Karachaganak Oil & Gas Condensate Field in Kazakhstan.	Completed Dec 2009
16 Ethylene and Butene Pipelines, UAE	Ras Laffan Olefins Co	Construction of (14" dia) 129.6 km, (10" dia) 5.1 km dense phase ethylene pipelines and (3" dia) 5.1 km butane pipeline from Ras Laffan to Mesaieed including scraper launcher, receiver, four block valve stations, satellite and station S, Cathodic Protection, OFC, pre-commissioning and commissioning assistance.	Completed Dec 2009
17 Karachaganak-Uralsk Gas Pipeline	Karachaganak Petroleum Operating B.V. (KPO)/KSS	Laying of pipeline by HDD across five rivers Gnyloy Lake, Ural, Barabastau, Karoba and Utva with a total length 3320 m. Executed longest HDD crossing of Ural River, 1015 m in Kazakhstan.	Completed Oct 2009
18 OGC Pipelines, Oman	Oman Gas Co	Engineering, procurement and construction of : <ul style="list-style-type: none"> • (24" dia) 40 km Murayrat-Barka, Russayl Looplines • Barka PRT Expansion • (32" dia) 252 km Saih Rawl-Mukhaizna Loopline • Three compressor stations at Nimr including scraper launcher, receiver, seven block valve stations, Cathodic Protection, SCADA telecommunication, pre-commissioning and commissioning. 	Completed Sep 2009
19 Asab Gas Development Phase II	Eastern Bechtel Co Ltd/Abu Dhabi Gas Industries Ltd (GASCO)	Construction of (16" dia) 82 km pipeline from Habshan to Asab, UAE including block valve stations.	Completed Aug 2009
20 Onshore Gas Development Phase III	Eastern Bechtel Co Ltd/Abu Dhabi Gas Industries Ltd (GASCO)	Construction of (24", 20" dia) 105 km pipeline from Habshan to Ruwais, UAE including block valve stations.	Completed Aug 2009
21 Dabhol Panvel Pipeline Phase II	Gas Authority of India Ltd	Engineering, procurement and commissioning of (30" dia) 50.3 km natural gas pipeline from Ambewadi despatch terminal to Usar receiver terminal including spurlines to NITCO, and two sectionalising valve stations, one crossing by HDD across Amba river.	Completed Jun 2009
22 East-West Gas Pipeline (Bhivpuri Ghat)	Reliance Gas Transportation Infrastructure Ltd	Construction of (48" dia) 2.3 km natural gas pipeline in the western mountain range with steep slope upto 70° by cable crane system with specialised crew.	Completed Feb 2009
23 East-West Gas Pipeline Spread 6A & 6B	Reliance Gas Transportation Infrastructure Ltd	Construction and laying of (48" dia) 117.5 km natural gas pipeline with automatic / semi-automatic welding technology, including three sectionalising valve stations and two compressor stations.	Completed Jan 2009
24 Eastern Gas Distribution System Upgrade, UAE	Dolphin Energy Ltd (DEL)	Engineering, procurement and construction of 260 km OFC with earthwork along the Jebel Ali – Taweela – Maqta - Al Ain pipeline, mechanical and coating repairs on pipelines and restoration of damaged berms.	Completed Nov 2008
25 Construction of Flowlines & Well Heads	Abu Dhabi Co for Onshore Oil Operations (ADCO)	Wellhead, flow line, water injection line installations, tie-in to existing injection header, tie-ins at header/manifold, physical tagging for Adco Oilfields in Bab/Bu Hasa, UAE including pre-commissioning and commissioning support.	Completed Oct 2008

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26 South Sumatra to West Java Gas Pipeline Phase I, Sumatra	PT Perusahaan Gas Negara/JFE Engineering	Engineering, procurement and construction of (32" dia) 270 km onshore pipeline installation from Pagardewa to Labuhan Maringgai, including sectionalising valve stations, civil, mechanical, piping, instrumentation, insulation work at Pagardewa, Terbanggi Besar and Labuhan Maringgai, Indonesia.	Completed Sept 2008
27 Dabhol Panvel Pipeline Phase I	Gas Authority of India Ltd	Residual engineering, procurement (excluding supply of line pipe) installation, testing, commissioning of pipeline and associated facilities for (30" dia) 113 km pipeline including EGP, permanent pig launcher, receiver, signalers, actuators for actuated valves, CCVT/TEG, permanent Cathodic Protection System, interference surveys and implementation of mitigation measures for CP System.	Completed Feb 2008
28 Dahej-Uran Pipeline	Gas Authority of India	Laying of (30" dia) 144 km pipeline and associated facilities including eight crossings by horizontal directional drilling method.	Completed May 2007
29 Mundra Delhi Pipeline	Hindustan Petroleum Corp Ltd	Laying of (18" dia) 434 km, (16" dia) 73 km and (8" dia) 35.7 km pipeline and associated facilities including construction, testing, pre-commissioning and commissioning assistance.	Completed May 2007
30 South Sumatra to West Java Gas Pipeline, Phase II	PT Perusahaan Gas Negara	Design, construction, testing and mechanical completion of (32" dia) 270 km pipeline from Pagardewa to Labuhan Maringgai and (28" dia) 4 km pipeline from Pagardewa receiving point to Pagardewa Station including 9 crossings by HDD, 24 core OFC laying, 4 sectional valve stations and Cathodic Protection at Sumatra, Indonesia.	Completed Mar 2007
31 Mumbai-Manmad-Manglya Pipeline	Bharat Petroleum Corp Ltd	Supply, construction of (16" dia) 332 km pipeline and piping systems, Cathodic Protection, road/rail/water crossings, pre – commissioning including terminal piping work, commissioning assistance and hook-up work at terminals, associated mechanical, civil, structural, architectural, electrical, telecom and instrumentation work from Manglya Despatch Terminal to sectionalising valve station at Manglya to Piyala/Bijwasan.	Completed Mar 2007
32 Pune-Solapur Pipeline	Hindustan Petroleum Corp Ltd	Procurement, construction, pre-commissioning and commissioning assistance for (14" dia) 182 km and (12" dia) 161 km pipeline, including 9 sectionalising valve stations, associated mechanical, civil, structural, architectural, electrical, rotating equipment, Cathodic Protection, instrumentation and OFC laying work.	Completed Mar 2007
33 Huwailah Field Development	Abu Dhabi Co for Onshore Oil Operations (ADCO)/Matrix Construction	Construction of flowlines & transfer line (10" dia) 30 km in Huwailah, UAE.	Completed Dec 2006
34 Large and Small Bore Pipelines for TCO Asset Development	Tengizchevroil (TCO)/PFD International LLC (Parsons/Fluor Daniel JV)	Construction of pipelines and flow lines 408 km LTCS piping fabrication (181,000 inch dia), erection (115,000 inch metre) and high pressure thick walled injection piping work upto 63 mm, HPPE pipe fusion welding and laying, equipment installation, civil, structural, painting, insulation work at Tengiz, Kazakhstan.	Completed Dec 2006
35 Tambora Phase II, EPSC 2 for Pipeline Network, Indonesia	Total E&P Indonesia	Engineering, procurement, supply and construction of gas pipeline network in swamp risers and dogleg installation to Gathering Testing Satellite Stations (GTS) and wellhead platforms: <ul style="list-style-type: none"> • 24" dia line • 8" dia flow lines and 2" piggy back as gas instrument line • 5 km crossing of existing facilities and river by Horizontal Directional Drilling method • 2 river crossings by open cut method 	Completed Jun 2006

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36 Direct Gas Marketing	BG Exploration and Production India Ltd/ Kvaerner Power Gas	Civil, mechanical and structural work for construction at ONGC Plant, Hazira.	Completed Jan 2006
37 Oman Gas Export Line, Oman	Petroleum Development Oman LLC	Engineering, procurement and construction of (48" dia) 265 km gas pipeline from KP 24.5 to BVS 09A including Cathodic Protection, 10 block valve stations, telecommunication, pre-commissioning and commissioning assistance.	Completed Nov 2005
38 Mora Sachin Palsana Pipeline	Gujarat Gas Co Ltd	Construction of natural gas pipeline of (16" dia) 25 km and (12" dia) 11 km including installation of valve stations, pig launchers, pig receivers, header fabrication, uploading, installation and hook-up of metering skid, pre-commissioning and commissioning assistance and Tapi river crossing by Horizontal Directional Drilling method.	Completed Oct 2005
39 Baku-Tbilisi-Ceyhan Crude Oil Pipeline, Turkey	Botas/BTC Co/ British Petroleum/ ILF Consulting Engineers	Engineering, procurement and construction of crude oil pipeline (42" dia) 207 km and (34" dia) 124 km from pumping station No. 4 near Sivas to tank terminal at Ceyhan on the Mediterranean Sea, including Cathodic Protection, 13 block valve station and commissioning assistance.	Completed Jul 2005
40 Baku-Tbilisi-Ceyhan and South Caucasus Pipeline	Spie Capag – Petrofac International Ltd	Construction of (46" dia) 53.4 km of crude oil pipeline and (42" dia) 53.4 km of gas pipeline from KP 178 to KP 250 including Cathodic Protection, laying of HDP duct for optic fibre cable & block valve stations at Georgia.	Completed Feb 2005
41 Shore Approach Pipeline	Gujarat Adani Port Ltd/Valentine Maritime Ltd	Construction of shore approach pipeline (48" dia) 1 km at Mundra Port, Gujarat.	Completed Feb 2005
42 Dahej-Vijaipur Gas Pipeline	Gas Authority of India Ltd/ Engineers India Ltd	Engineering, procurement, fabrication, transportation, construction, testing, drying, pre-commissioning and commissioning of (42" dia) 506 km and (36" dia) 6.6 km Dahej Vijaipur pipeline project including associated facilities like sectionalising stations, intermediate scraper stations, scraper launcher / receiver station, CP-cum-repeater stations, laying of optical fibre work of spread I, II, III & IVB of the pipeline system.	Completed Feb 2004
43 Mumbai-Manmad Pipeline Extension	Bharat Petroleum Corp Ltd/ Engineers India Ltd	Construction of (14" dia) 189.15 km multi-product pipeline from Shirpur to Manglya, including sectionalising valve stations, scraper receiver, intermediate pigging stations, Cathodic Protection, OFC laying and Narmada river crossing 950 m by Horizontal Directional Drilling method.	Completed May 2003
44 KAM Pipeline, Kazakhstan	PetroKazakhstan JSC	Construction of (16" dia) 177 km crude oil pipeline from Kumkol to Dhuzaly via Aryskum, including block valves, pig launchers and receivers, Cathodic Protection System and OFC.	Completed Apr 2003
45 Vizag-Secunderabad Pipeline	Gas Authority of India Ltd/ Engineers India Ltd	Installation of (10" dia) 176.23 km of LPG pipeline from SV-25 to Secunderabad, including installation of Cathodic Protection System, OFC laying in HDPE duct and 12 Nos. sectionalising valve stations, intermediate pigging station at Suryapet and receipt terminal at Secunderabad.	Completed Mar 2003
46 KG Basin Phase-II Pipeline	Gas Authority of India Ltd/ Engineers India Ltd	Design, engineering and laying of combination of (18" dia) pipe and 6.625" CS conduit with 2 x 50 mm HDPE interducts across two rivers, Vainetyam Godavari (1,704 m) and Gowthami Godavari (1,769 m), at Andhra Pradesh.	Completed Oct 2002



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47 Mangalore-Bangalore Pipeline	Petronet MHB Ltd/Engineers India Ltd	Installation of (24"/20" dia) 363.5 km pipeline, including installation of Cathodic Protection System, OFC laying and 15 Nos. stations comprising sectionalising valve stations, intermediate pigging station, despatch/receiving terminals and intermediate pumping stations for multi-product pipeline.	Completed Jul 2002
48 Amboli-Jhagadia Gas Pipeline	Gujarat Gas Co Ltd	Design engineering and laying of bundle of pipes (24" dia) 1,248 m pipe with 2 Nos. 3" CS with 2" HDPE interduct conduit with OFC across Narmada river by Horizontal Directional Drilling method.	Completed Apr 2002
49 Barauni-Patna Replacement Pipeline	Indian Oil Corp Ltd	Laying of (20" dia) 1,900 m pipeline with 3" CS conduit interducted with 2" HDPE conduit across the Ganges river by Horizontal Directional Drilling method.	Completed Mar 2002
50 Mathura-Tundla Pipeline	Indian Oil Corp Ltd	Installation of (16" dia) API 5L Grade X 65 1,008 m pipeline across Yamuna river by Horizontal Directional Drilling method.	Completed Jun 2000
51 Jamnagar-Loni Pipeline	Gas Authority of India Ltd/Engineers India Ltd	Laying and installation of (16"/12" dia) 435 km LPG pipelines and associated systems/facilities for Sections III and IV.	Completed May 2000
52 Jamnagar-Loni Pipeline	Gas Authority of India Ltd/Engineers India Ltd	Installation of (12" dia) API 5L Grade X 65 650 m pipeline and OFC across Yamuna river by Horizontal Directional Drilling method.	Completed Apr 2000
53 Outfall-Jetty-MTF Area Pipeline	Reliance Ports and Terminals Ltd	Construction of civil foundation, supply fabrication and erection of pipe racks and pipe supports, fabrication and installation of aboveground and underground pipelines (2 x 48" dia, 6 x 24" dia, 1 x 16" dia, 1 x 12" dia, 2 x 10" dia and 1 x 8" dia CS pipes with 2 x 24" dia and 1 x 4" dia GRE pipes) at Jamnagar Refinery.	Completed Jul 1999
54 Mumbai-Manmad Pipeline	Bharat Petroleum Corp Ltd/Engineers India Ltd	Construction of (18" dia) 253 km multi-product pipeline from Mahul Refinery to Marketing Terminal at Manmad, including 47 km of city area, Horizontal Directional Drilling of Ulhas river, 125 km through rocky terrain. Laying, splicing, jointing of OFC.	Completed May 1999
55 Hazira-Ankleshwar Pipeline	Gujarat Gas Co Ltd	Laying of (18" dia) 75 km gas pipeline.	Completed May 1999
56 Effluent Outfall System	Indian Petrochemicals Corp Ltd/Engineers India Ltd	Engineering, procurement and construction of 20" dia effluent discharge systems into Gulf of Khambhat for IPCL Gandhar gas processing complex at Dahej, comprising 4.5 km long onshore section and 3.1 km long offshore section, complete with diffuser.	Completed May 1999
57 Beanibazar-Kailashtilla Pipeline	Gas Transmission Co Ltd	Construction of twin-line (20" dia) 18 km natural gas pipeline, including interconnecting pipelines at gas fields in Bangladesh.	Completed Apr 1999
58 Propylene Pipeline in MTF Area	Reliance Industries Ltd	Fabrication and erection of 12" dia aboveground and underground piping and allied underground work such as Cathodic Protection of piping at Jamnagar Refinery.	Completed Mar 1999
59 Thal-Usar-Thal Pipeline	Gas Authority of India Ltd/Engineers India Ltd	Laying of twin-gas pipeline of (26"/20" dia) 20 km from RCF complex at Thal to LPG recovery terminal at Usar.	Completed May 1998

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60 Haldia-Barauni Crude Oil Pipeline	Indian Oil Corp Ltd	Installation of (18" dia) API 5L Grade X 65 724 m pipeline and OFC across Rupnarayan river and Harohar river by Horizontal Directional Drilling method.	Completed Apr 1998
61 Multi-product Pipeline	Kumpulan Juri Teknik Sdn. Bhd., NKK Corp and Nichimen Corp (Joint Venture)	Construction of (16" dia) 128 km multi-product pipeline from Melaka Refinery along the west coast of Malaysian Peninsula to Kuala Lumpur International Airport and a new distribution terminal at Klang Valley for Petronas and Shell Malaysia.	Completed Jul 1997
62 Gas Rehabilitation and Expansion	Gas Authority of India Ltd/ Engineers India Ltd	Detailed engineering, procurement, construction and pre-commissioning of pipeline system of 349 km section of Bijaipur-Dadri gas pipeline; Bijaipur-Burda (36" dia) 170 km; Bhojera-Dadri (36" dia) 165 km and (14" dia) 14 km spurline to Faridabad, including sectionalising stations, scraper stations, associated mechanical, civil, structural, architectural, electrical, Cathodic Protection, instrumentation and laying of OFC work.	Completed Mar 1997
63 Raw Water System	Reliance Industries and Infrastructure Ltd	Construction and laying of (48" dia) 20 km raw water pipeline, approach bridge and intake well on Tapi river at Hazira.	Completed Feb 1996
64 Kandla-Bhatinda Pipeline	Skoda Export/ Indian Oil Corp	Laying of 557 km product pipeline: Sanganer-Karnal (22" dia) 339 km and Karnal-Bhatinda (14" dia) 218 km, 10 Horizontal Directional Drilling crossing of canals. Laying, splicing, jointing of OFC.	Completed Feb 1996
65 Perennial River Crossing	Gas Authority of India Ltd/ Engineers India Ltd	Installation of (12" dia) API 5L Grade X 42 874 m pipeline across Sabarmati river by Horizontal Directional Drilling method.	Completed Feb 1996
66 NGL Pipeline	Reliance Industries Ltd	Fabrication, laying and testing of (18" dia) 7 km NGL/HSD pipelines from RIL to ONGC and interconnection with Essar lines for SBM Project at RIL Hazira.	Completed Dec 1995
67 South Bassein Hazira Trunkline	Hyundai Heavy Industries Ltd/ Oil and Natural Gas Corp Ltd	Laying of (42" dia) 21 km onshore portion of pipeline, including shore approach and tidal flats.	Completed May 1995
68 Gandhar-Zanor Pipeline	Gas Authority of India Ltd	Laying of (18" dia) 40 km gas pipeline to NTPC plant in Gujarat.	Completed Mar 1995
69 JNPT Pipeline	Reliance Industries and Infrastructure Ltd	Laying of twin (8" dia) 23 km and (16" dia) 6 km product pipeline from Kalamboli to Nhava Sheva.	Completed Dec 1994
70 RSEB Gas Pipeline	Gas Authority of India Ltd	Laying of (12" dia) 32 km gas pipeline from Gamnewalan to Ramgarh in Rajasthan.	Completed Apr 1994
71 Balongan-Jakarta Product Pipeline	PT Trihasra Bimanusa Tunggal/ Pertamina	Laying of (16" dia) 210 km multi-product pipeline through marshes, city area and multiple crossings in Indonesia.	Completed Dec 1993
72 Jarn Yaphour Field Development (Upstream)	Abu Dhabi National Oil Co Ltd/ Snamprogetti	Construction of wellheads, flow lines, manifold, transfer line and related work in association with Sigma Specialised Engineering and Construction Ltd, Abu Dhabi, UAE.	Completed Oct 1993



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73 Raw Water Intake System	Chambal Fertilisers and Chemicals Ltd	Design, procurement, erection and commissioning of raw water system comprising approach bridge, intake well, tunnel, pumping station and (24" dia) 7 km pipeline for Gadepan plant.	Completed Jun 1993
74 Grasim Gas Pipeline	Gas Authority of India Ltd/PDIL	Laying of (12" dia) 32 km gas pipeline from Thal to Grasim plant in Raigad District, Maharashtra, including laying of pipeline across Kundalika river (span 1,200 m).	Completed Nov 1992
75 City Gas Distribution System	Gujarat Gas Co Ltd	Laying of 11 km of pipeline for Surat Gas Distribution Grid, including associated facilities.	Completed May 1991
76 Gandhar-Bharuch Pipeline	Oil and Natural Gas Corp Ltd	Laying of (18" dia) 42 km gas pipeline to GNFC fertiliser plant at Bharuch.	Completed Mar 1991
77 Dahej-Gandhar Pipeline	Oil and Natural Gas Corp Ltd	Laying of (8" dia) 40 km gas pipeline in Gujarat.	Completed May 1989
78 Kalol-Navagam Pipeline	Oil and Natural Gas Corp Ltd	Laying of (14" dia) 80 km oil pipeline from North Kadi CTF to Navagam in Gujarat.	Completed Mar 1989
79 Haldia-Mourigram Pipeline Phase II	Indian Oil Corp Ltd	Laying section of (12" dia) 18.5 km product pipeline and retrieval of 18.5 km existing corroded pipeline in West Bengal.	Completed May 1987
80 Haldia-Barauni Pipeline	Indian Oil Corp Ltd	Laying section of (12" dia) 25 km product pipeline and retrieval of 25 km existing corroded pipeline in West Bengal.	Completed Jun 1986
81 Haldia-Mourigram Pipeline, Phase I	Indian Oil Corp Ltd	Laying section of (12" dia) 30 km product pipeline and retrieval of 30 km existing corroded pipeline in West Bengal.	Completed Jun 1986
82 Mumbai-Pune Product Pipeline	Hindustan Petroleum Corp Ltd/Indian Oil Corp Ltd	Laying of (14" dia) 160 km pipeline for transportation of petroleum products through the western mountain range, highly congested city areas and the crossing of marshy areas, rivers and highways.	Completed Dec 1985
83 Ankleshwar-Baroda Pipeline	Oil and Natural Gas Commission Ltd	Reconditioning of (16" dia) and (14" dia) 30 km crude oil pipeline in Gujarat.	Completed Feb 1985

