Leighton’s offshore construction and pipe lay vessels have worked extensively in India. The Leighton Eclipse holds ONGC’s record for installing 282 Joints in a single day in the Mumbai High Field.
Leighton Welspun Contractors Pvt. Ltd. is one of India’s largest and most respected international contractors. Operating in India since 1998, the Company is part of the Leighton Holdings Group, Australia’s leading construction, mining and project development group. Leighton Holdings is majority owned by HOCHTIEF AG, the world’s largest international contractor*

Our business in India has been built on our unwavering commitment to deliver quality projects, on time and within budgets. We are the leaders in our field. We offer our clients the latest in construction technology and methodologies, as well as a flexible approach to contracting structures.

We are active in a diverse range of sectors, including:

- Building
- Infrastructure
- Mining
- Oil and Gas

Our strength is in our unique combination of Local Knowledge and International Experience: Knowledge that comes from our people, our culture and the depth of capabilities of the Leighton and Welspun Groups.

*According to ENR.com
LEIGHTON WELSPUN IS COMMITTED TO QUALITY, SAFETY AND INTEGRITY

OUR VALUES

Integrity:
Act with honesty, integrity and fairness at all times.

Returns:
Ensure commercial competitiveness; provide satisfactory returns to our shareholders.

Professionalism:
Adopt a professional approach to contracting, establish clear lines of accountability, deliver quality work safely and on time.

Employees:
Provide opportunities to people to pursue their careers in a performance driven culture.

Community:
Operate with an awareness of and concern for the effect of our work on the community.

Environment:
Make a conscious effort to minimize the impact of our operations on the surroundings & our environment.
At Leighton Welspun we offer our clients a suite of construction services in both onshore and offshore Oil & Gas services. Our expertise cover the following capabilities:

- Platform Installations
- Topside Modifications
- Platform Upgrades
- Subsea Structures
- Single Point Mooring Systems (SPMs)
- Subsea Pipelines (Rigid & Flexible)
- Shore Crossings
- Stabilisation Works
- Terminal Facilities
- Onshore Processing Facilities

We have achieved leadership in construction and installation of SPMs (Single Point Mooring Systems), having executed more SPM projects than any other contractor in the region. We also have significant experience in laying large diameter offshore pipelines and executing complex shore approaches.

We have the capability to successfully deliver projects that are full EPC, as well as, construct only and transportation and installation contracts.

We have access to a wide range of equipment to support our construction activities and the ability to draw on Leighton Holdings’ capabilities as and when required.
We are committed to delivering iconic projects that set new standards of safety & quality in the industry, while emphasizing on conserving the environment & creating a sustainable future for the country.
OUR INDIA PROJECTS

Pipeline Replacement Project 2
Client: Oil and Natural Gas Corporation (ONGC)
Location: Off Shore, Mumbai High.
Scope:
- The project included engineering, procurement and installation of fixed and flexible pipelines of various diameters.
- It involved extensive pipeline crossings, installation of risers and tie-ins and topside modifications.
- 44 Pipeline segments – WF, GL, WI services
- 177Kms Rigid P/line (6” to 24”)
- 57Kms of Flexible Line
- 48 Riser Installation and 30 Tube Installations
- 480 Crossings and free spans
- 79 Topside modifications
- Largest ever contact awarded by ONGC at the time (2008)

G1 - GS - 15 Field Development
Client: Oil and Natural Gas Corporation (ONGC)
Location: Andhra Pradesh, India.
Scope:
- The G1- GS15 Field Development Project involves transportation and installation of the topside deck
- Installation of risers
- Subsea tie in and ‘WYE’ piece
- Deck extensions
- Hook-up and pre-commissioning of two topsides - GS15-1 (new) and GS15-4 (existing)
- Post trenching and back filling of pipe lines in LFP area and testing of umbilical
Mangala Field Development
Client: Cairn Energy India Pty Ltd
Location: Gujarat, India.
Scope:
• The contract included engineering, procurement, construction and installation work of a Single Point Mooring (SPM) system for export of heavy waxy crude oil
• Pre-engineering surveys, both geotechnical and geophysical
• Full engineering of the SPM & PLEM system
• Procurement of SPM, PLEM and related components
• Corrosion and Concrete weight coating of client supplied line pipe
• Installation of 2 no. x 24” dia. x 6.0 km long CWC and thermally insulated, heat traced submarine pipeline from the PLEM to the LFP
• Construction and installation of an SPM & PLEM System (at approximately 28 m water depth) including drilled and grouted piles, anchor chain tensioning and installation, installation of subsea and floating hoses, and installation of telemetry system.
• Testing and pre-commissioning of the complete system

Win Platform Revamp
Client: Oil and Natural Gas Corporation Ltd. (ONGC)
Location: West Coast, India.
Scope:
• Work on the WIN platform included refurbishment and revamp of the existing platform project scope involves overhauling a significant part of the WIN platform
• Project Management
• Design and Detailed Engineering
• Survey (including Pre-engineering, Pre and Post Construction / Installation Survey)
• Procurement of materials
• Fabrication, Transportation
• Removal of old systems & installation of new equipment
• Hook-Up, Testing, Pre-Commissioning & Commissioning
Vizag SPM Project
Client: Hindustan Petroleum Corp Ltd
Location: Visakhapatnam, India.
Scope:
- Pre and post installation surveys
- Procurement of permanent material
- Pipeline coatings (3LP and CWC)
- Installation of 4 kilometers offshore and 150 meters onshore of 48-inch pipeline
- Construction and installation of SPM systems including 6 anchors (driven piles) and PLEM (driven piles).
- Fabrication and testing of spool connection between PLEM and pipeline
- Installation of buoy, subsea hoses, floating hoses, umbilical and telemetry system
- Pre-commissioning and commissioning of pipeline and SPM system
- Onshore piping and tie in works

Installation of SPM Systems & Submarine Pipelines - MRPL
Client: Engineers India Limited
Location: Mangalore, West India.
Scope:
- Expanding the refinery capacity to cater to a requirement of crude of 18 MMTPA
- Installation of SPM and PLEM system (At approx. 32 m water depth) including piles
- Installation of 48” diameter, approx. 17.4 km long submarine pipeline with 120 mm thick concrete coating including laying in shore approach
Bina Refinery SPM and Pipeline Project
Client: Bharat Oman Refineries Limited
Location: Gujarat, Northwest India.
Scope:
- Installation and pre commissioning of 48” diameter, 15.0 km long submarine pipeline
- 2.0 kilometer of onshore 48” pipeline including the piping works at crude oil terminal
- Construction, installation and pre commissioning of a PLEM and SPM systems

Residual Offshore Construction
Client: Indian Oil Corporation Limited
Location: Paradip, East India.
Scope:
- Project involved installation of a single point mooring (SPM) system at an approximate depth of 30 meters
- Post lay trenching/burial of 48 inches of crude pipeline and 14 inches of effluent pipeline from land fall to KP 1.2 offshore
- Pre-installation survey
- The joining of pre fabricated 220-metre strings to form a string of approximately 2.5 kilometer and installing it by bottom pull method
- Installation of a tie-in spool between the existing 14-inch line and the newly installed 2.5-kilometre string
- Installation of a diffuser on the end of the 14-inch line
- Flooding, cleaning, gauging and hydrostatic testing of the 14-inch line
**Storm Water Outfall to Sea Project**

**Client:** Indian Oil Corporation Limited (IOCL)

**Location:** Paradip, East India.

**Scope:**
- This project involved construction and installation of two pipelines to discharge excess storm water into the sea
- Residual Process / Outline design
- Detailed engineering, survey work and soil investigation
- Procurement, supply and transportation of all materials and equipment to the site
- Construction, assembly, installation, testing and commissioning of the system

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**Kochi SPM and Offshore Pipeline**

**Client:** Kochi Refineries

**Location:** Cochin, South India.

**Scope:**
- This project involved construction and installation of a single point mooring (SPM)
- Installation of pipeline (20 kilometres long) and 48 inches (~1.2 metres) in diameter
- It is used to import crude oil to the Kochi oil refinery at Cochin on India’s south-west coast.

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**3 Clamp On**

**Client:** Oil and Natural Gas Corporation Ltd. (ONGC)

**Location:** Heera Field, Mumbai High.

**Scope:**
- Survey, design and detailed engineering
- Procurement
- Fabrication, load out and installation of deck extensions with conductor guides at main, cellar and spider deck levels
- Well conductor protectors
- Under water conductor frames with guides and fame clamps
- Well conductor installation
- Topside modifications
- Hook-up and pre-commissioning of new facilities of three platforms amongst other responsibilities.
INDIA PROJECT OVERVIEW

- Bina Refinery SPM and Pipeline Project
- Mangala SPM and Pipelay
- WIN Platform Revamp
- Heera Platform - 3 Clamp On
- PRP2 - Subsea Pipelines & Platform Modification
- Installation of SPM Systems & Submarine Pipelines - MRPL
- Kochi SPM and Offshore Pipeline
- Storm Water Outfall to Sea Project
- IOCL Paradip Pipeline
- HPCL Visag SPM Project
- G1 - GS15 Platform installation & modification
 OUR INTERNATIONAL PROJECTS

Labuan Water Pipeline
Client: Ministry of Energy, Green Technology and Water, Government of Malaysia
Location: Malaysia.
Scope:
• Take delivery of existing 26" pipeline – 22.8 km including the supply of additional 600m of new pipes
• Pre-installation pipelay analysis
• Installation and pre-commission approximately 22.8km of submarine pipeline in max water depths of 22m
• Post trench approximately 1.8km at three locations along the route
• Interface with existing mudflats contractor including undertaking a midpoint tie-in
• Leighton's barge, Stealth, was used to install the pipeline by the S-Lay method

Devil Creek Development
Client: Apache Energy Ltd Australia / SapuraAcergy Australia Pty Ltd.
Location: Australia.
Scope:
• Provision of the Leighton Stealth pipelay barge in pipelaying mode for the shallow water pipelay installation works, mobilisation to and demobilisation from Singapore
• Key personnel on-board Leighton Stealth
• Vessel Safety Case preparation, application up to NOPSA, and approval for of the Vessel Safety Case for Leighton Stealth
• Provision of installation engineering services related to the shallow water pipelay scope
• Project management of the above activities
• Leighton Stealth pipelay barge was used to install the pipeline, approximately 23km in length using the S-lay method

Shuqaiq 2 Independent Water and Power Project
Client: Zelan Saudi Arabia Co Ltd.
Location: Saudi Arabia.
Scope:
• Offshore installation of one 38-inch AHC subsea pipeline approximately 6km from shore to OUF
• Installation of a 1.7 km extension to the existing 20-inch diameter HFO pipeline
• Post trenching to achieve 1 to 2 metre depth of cover for the installed pipelines
• Pre-commissioning and commissioning
• Leighton Stealth pipelay barge installed the AHC pipeline by the S-lay method
SPM and PLEM System and Offshore Pipeline for Brunei Methanol Plant

**Client:** Brunei Economic Development Board  
**Location:** Brunei.

**Scope:**
The project involved installation engineering, procurement, installation and commissioning of an offshore pipeline, associated pipeline end manifold (PLEM) and the single point mooring (SPM) system.

The scope of work included:
- Offshore pipeline installation incorporating four subsea pipeline crossings & a shore pull
- Installation of six anchor chains & marine anchors, PLEM tie-in to offshore pipeline, under-buoy hoses for PLEM tie-in to buoy and floating hose connections
- Onshore pipeline installation, incorporating three road crossings & one river crossing, tie-in to offshore pipeline and terminating at BMC property fence line
- Pipeline installation was by the S-lay method using the Leighton Faulkner pipe-lay barge, a Leighton Group asset

Muthurajawela New SPBM, Offshore Pipeline and Terminal Modification Project 1

**Client:** Ceylon Petroleum Storage Terminals Ltd.  
**Location:** Sri Lanka.

**Scope:**
Leighton’s scope of work was for the engineering, procurement, installation and commissioning of the entire system, which covered:
- CALM-type dual path SPBM, PLEM, two floating and sub-sea hoses offshore and onshore pigging facilities
- 5.7 kilometres of pipeline installed offshore by s-lay method in water depths of up to 18 metres
- 0.45 kilometres of pipeline installed offshore by horizontal directional drilling through the reef and lagoon
- 0.90 kilometres of pipeline installed onshore by horizontal directional drilling
- 0.45 kilometres of pipeline installed onshore by open trenching
- Tank farm modification
- The Leighton Stealth pipe-lay barge undertook the offshore installation works

Iraq Crude Oil Export Expansion Project

**Client:** SOC (South Oil Company)  
**Location:** Offshore Iraq near Basra.

**Scope:**
Leighton offshore has been awarded the EPC Contract to execute this project with the objective of developing further offshore crude oil loading facilities at the existing Al Basra Oil Terminal. This expansion will enable export capability of 4.5 MMBOPD within 5 years.

The new facilities include:
- two 48” pipelines
- 3rd pipeline shore approach section
- spur pipeline and three SPMs
OUR FLEET

LEIGHTON STEALTH
(Pipe-lay barge)
Class: ABS + A1, Barge, HELIDK
Registry: Singapore
LOA: 100 m (330 ft)
Breadth: 30 m (100 ft)
Depth: 6 m (20 ft)
Mooring System: 9 point mooring system
Pipeline Capability: 8 to 60 Inch outside diameter pipelines
Tensioner System: 2 x 50 MT track tensioners
Control System: Fully automatic electro hydraulic with manual override joystick control, pay in and pay out.
Craneage: Make – Huisman
Pedestal rated at 600 MT
Auxiliary Crane 1 x 100 MT pedestal crane - Techcrane

LEIGHTON ECLIPSE
(Pipe-lay barge)
Class: +A1, Accommodation Barge, Crane Service, HELIDK ‘E’
Registry: Singapore
LOA: 130 m (427 ft)
Breadth: 32 m (105 ft)
Depth: 8.5 m (28 ft)
Mooring System: 8 - 10 point mooring system
Pipeline Capability: 6 to 60 Inch outside diameter pipelines
Tensioner System: 2 x 60 MT Track Tensioners at 25m/min
Control System: Electro hydraulic with manual override joystick control, pay in and pay out.
Craneage: Make – Huisman
Pedestal rated at 600 MT
Auxiliary Crane 1 x 100 MT pedestal crane - Techcrane

Accommodation
Suitable for 232 persons in 1,2 & 4 man cabins.
Safety – Life Boats: 2 x 116 persons
Safety – Life Rafts: 16 x 25 persons
Safety – Life Jackets: 264 persons
### LEIGHTON FAULKNER
(Pipe-lay barge)
- **Class**: ABS A1 barge
- **Registry**: Funafuti
- **LOA**: 76.2 m (250 ft)
- **Breadth**: 24.4 m (80 ft)
- **Depth**: 4.8 m (16 ft)
- **Mooring System**: 9 point mooring system
- **Pipeline Capability**: 8 to 32 Inch outside diameter pipelines
- **Tensioner System**: 2x30 tonne track tensioner
- **Control System**: Fully automatic electro hydraulic with manual override
- **Welding System**: Semi automatic (FCAW) and capable for fully automatic mode
- **Craneage**: Optional cranes – TBD
- **Accommodation**: 32 Uncertified. Barge is classed Unmanned
- **Safety – Life Rafts**: 12 x 25 persons
- **Safety – Life Jackets**: 150 persons

### LEIGHTON MYNX
(Crane barge)
- **Class**: ABS A1 Accommodation Barge, HELIDK, E
- **Registry**: Singapore
- **LOA**: 85.3442 m (280 ft)
- **Breadth**: 24.384 m (80 ft)
- **Depth**: 4.880 m (16 ft)
- **Mooring System**: 8 point mooring system
- **Deck Craneage**: Manitowoc 16,000 series 3 crawler crane
- **Loading Capacity**: 400 MT - 219 MT @ 54m
- **Accommodation**: Fully air conditioned and furnished 165 Man (5 x 1 man, 40 x 4 man cabins) expandable to 180 man
- **Safety – Life Boats**: 2 x 90 persons
- **Safety – Life Rafts**: 16 x 25 persons
- **Safety – Life Jackets**: 190 persons

### LEIGHTON MPV 1 CABLE
(Multi Purpose Vessel)
- **Class**: DNV Class 1A1 Barge DK (+)
- **Registry**: Panama
- **LOA**: 66.0 m (217 ft)
- **Breadth**: 20.5 m (67 ft)
- **Max Draft**: 2.63 m (9 ft)
- **Mooring System**: 4 Point Mooring + Main Pulling Winch – Adjustable Load
- **Deck Equipment**: One 30 tonnes SWL A-frame (under tow roller)
  - Two x deck cranes 2 tonnes @ 10m
  - One x 40 tonnes tow winch
  - One x 10 tonnes tugger winch
- **One x 5 tonnes tugger winch
- **Loading Capacity**: 706 tonnes - Load and volume capacity may vary subject to laying equipment fitted and requirements for additional fuel and water for longer sea passages.
- **Craneage**: 1 x 30 tonnes SWL A-frame
  - 2 x 2 tonnes @ 10m deck cranes
  - 1 x 2 tonnes @ 15m deck crane
- **Accommodation**: Fully furnished and classed for a maximum of 50 persons.
  - Officer and crew compliment during installation operations is nominally 44 persons.
- **Navigational Aids**: Fully equipped with a suite of modern navigational and position keeping systems, including one radar, one Gyro and shallow water sounding and plotting equipment, acoustic systems and a dual