

update



Awarded in Oman
48" dia x 265 km
gas export line
for Petroleum
Development
Oman

PUNJ LLOYD
update

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**PIPELINE CONTRACT
IN GEORGIA**
for Spie Capag-Petrofac
International, Baku-Tbilisi-
Ceyhan 46" dia oil pipeline
and 42" dia x 53 km
gas pipeline

NEW PROJECTS

EPC CONTRACT Crude Oil Storage Tanks. For Panipat Refinery Expansion Project of Indian Oil at Panipat, India.

Thiruvananthapuram City Roads improvement project on BOT (Build Operate Transfer) basis from the Kerala Road Fund Board, India.

EPC CONTRACT Motor Spirit Quality Upgradation Project at Haldia Refinery, India.

The Daewoo Motors India Ltd. Plant Maintenance Project contract further extended, India.

Subcontract on Nominated Basis, stipulated by TOTAL for repair of Pipelines in Tunu, Indonesia.

Mechanical completion achieved ahead of schedule at the SRU & VBU project of Chennai Petroleum Corporation Limited, India

48" dia Shore Approach Work for Gujarat Adani Port Limited, India.

update

**Contract in
Kazakhstan for
TengizChevroil
flow lines**



The Energy Corridor

In a project of many milestones another was crossed on March 1, 2004.

The Ceyhan river was successfully forded by the Baku-Tbilisi-Ceyhan pipeline that will carry crude from the Azerbaijan fields in Baku on the Caspian sea to the Ceyhan Terminal on

the Mediterranean. In between, from Azerbaijan the pipeline traverses Georgia at Tbilisi.

Based on Punj Lloyd's performance in Lot C in Turkey the project owners, a consortium of oil majors led by British Petroleum, have approved appointment of Punj Lloyd

for laying the twin line 46" and 42" in Georgia. This 53 km stretch is being constructed by the company through the hilly terrain in Georgia, close to the Turkish border .

This three-nation energy bridge is a model of international co-operation.



Leading Dutch, Greek, German and Indian pipeline contractors of repute are constructing the different sections of the pipeline. Punj Lloyd's own workforce comes from 11 nationalities around the world. This multicultural amalgam underlines Punj Lloyd's ability to work in different parts of the world and deliver projects successfully.

Punj Lloyd also interacts on a comprehensive basis with archaeologists and geologists to protect the unique flora and fauna of the Anatolian region as well as its monuments of great antiquity.

Contemporary technologies of vacuum

lifting and automatic welding vie for attention with saplings being planted by Punj Lloyd as we determinedly move towards completion.

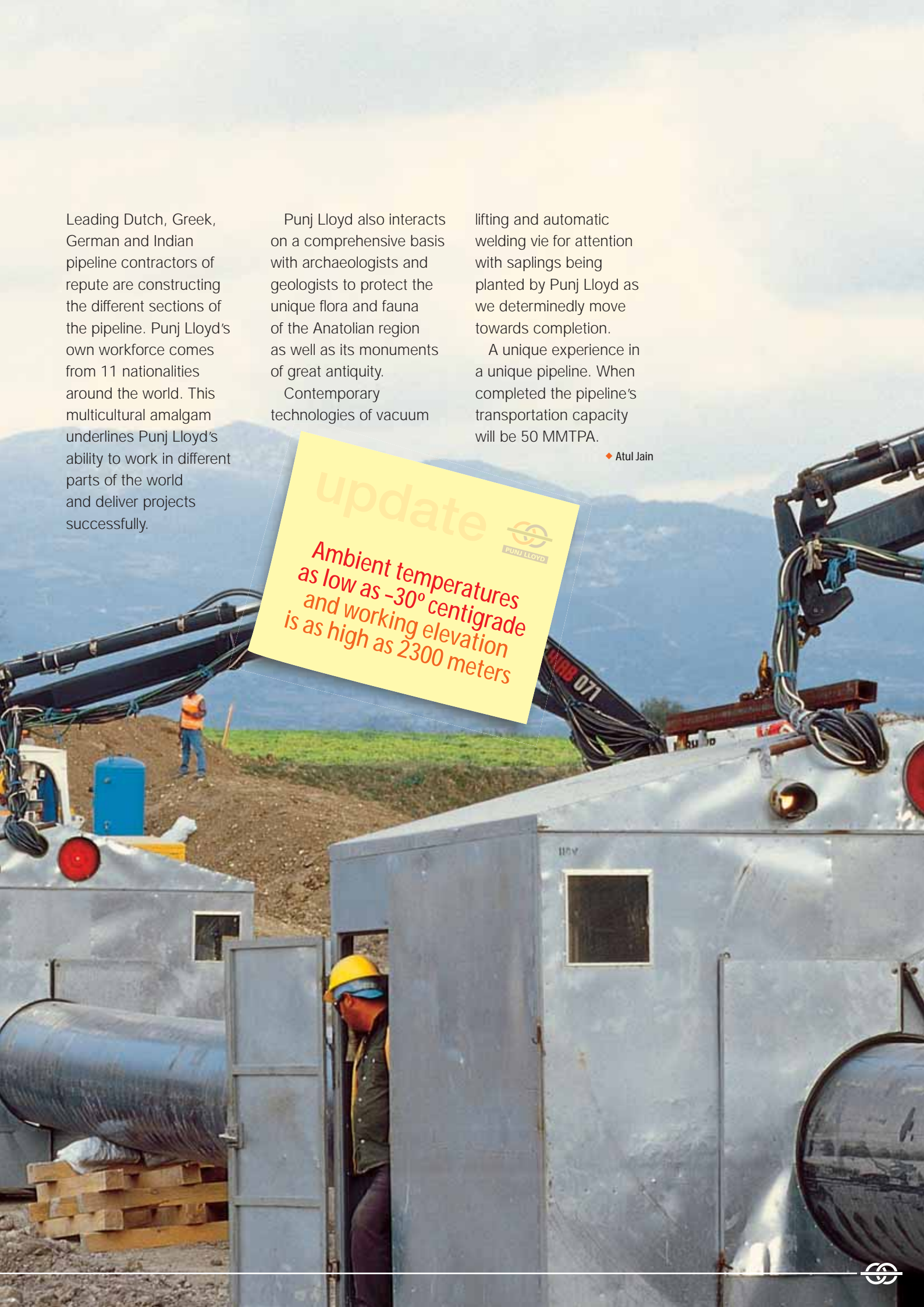
A unique experience in a unique pipeline. When completed the pipeline's transportation capacity will be 50 MMTPA.

◆ Atul Jain


update



**Ambient temperatures
as low as -30° centigrade
and working elevation
is as high as 2300 meters**





update 
dahej-vijaipur (dvpl)
gas pipeline

Unmatched speed defines the quality of our expertise

..., And seldom has it been more strongly reflected than in the execution of the history-making Dahej-Vijaipur (DVPL) gas pipeline project.

update



15 km of lowering
in one spread in
a day



update



450 crossings
of rivers, canals, roads
and railway lines
150 km welded during
heavy monsoon

The gas behemoth GAIL (India) Limited set us the challenge – to prove ourselves on this pipeline critical to India's energy management. It was also an act of continued confidence. Since GAIL's inception, Punj Lloyd and GAIL have partnered on all major pipeline projects in India. From the HBJ (Hazira-Bijaipur-Jagdishpur) pipeline to, now, Dahej-Vijaipur pipeline.

Punj Lloyd set itself to the challenge, mobilising the most contemporary configuration of equipment from nine countries. The Company brought into play its team of experts from 11 countries; employed the latest automated processes; and of course worked round the clock.



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11.2 million
safe man-hours
without lost time
injury





PUNJ LLOYD





in a
record **270** days...

We created history in
laying of the Dahej-Vijaipur
42" x 506 km gas pipeline



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Manpower
mobilised
from 11
countries





Mobilisation in 40 days including 109 side booms. And 162 categories of 4100 items of equipment. So that Punj Lloyd could race ahead to completion. With a 15 km lowering in one spread on one memorable day. And 6 km of welding on peak welding days.

Four months of torrential monsoons unleashed itself. The black cotton-growing earth turned into gluey stretches of clay from its previously sun baked hard surface slowing down man and machine. And even in this downpour 150 km of welding was achieved. The interplay of technology and technique had to be of

update



Equipment mobilisation in 40 days with 109 sidebooms from 9 countries



an unprecedented scale. Keeping step as the weather and the terrain played a demanding duet.

In the complexity of the enterprise we were ever conscious of the human dimension. What helped

nurture the project through was positive community relationships – built on our safety concerns and our care for the environment.

270 days that made history.



update



**Automatic welding
and ultrasonic testing
for the first time in India
on an onshore pipeline**

Health, Security, Safety, Environment, Quality ... are integral to Punj Lloyd's performance

Our constant effort to maintain ISO 9001 : 2000 QMS, ISO 14001 : 1996 EMS and OHSAS 18001: 1999 OHSMS standards and procedures at our project sites keep rewarding our performance.

The issue of road traffic safety especially during construction and, implementation of road safety measures is of national concern. Recently, the Kumari Rajashree Parmar Memorial Foundation,

a pioneer NGO in the causes of road accidents, at the behest of our client National Highways Authority of India, evaluated the Pune-Bangalore Highway in south western India.

The Foundation commended only Punj Lloyd CTNL, among all contractors working there, for its Belgaum-Maharashtra (BMR) border km 515 to 592.240 for the best road safety measures. In their Report they recommended that

all the other contractors and consultants involved in the rest of the project should visit our site and implement road safety measures to the standards set by us.

Our 'People First' approach too made news headlines at the BMR site for saving the lives of five persons in a major road accident. We were commended in a letter of appreciation by the Transport Commissioner.

The other notable achievement at our BMR



Project is the completion of 1000 carefully controlled safe blasts at the environmentally and ecologically sensitive areas of Tavandi Ghat and the famous Jain Temple nearby.

Proud to fly the flags



We at Punj Lloyd have long been privileged to work with companies with the highest standards. Those with commitment. Those who are innovative.

At the Baku-Tbilisi-Ceyhan Crude Oil Pipeline project acknowledged as the 'Pipeline of the Century' our Lot-C Site Team have won us the coveted Flag of Honour for SOb (Safety Observation) performance, best ASA award and best Health & Safety award.

Best Safety Performance Award

We have made news at the Panipat HCU (Hydro Cracker Unit) project. Punj Lloyd was honoured with the Best Safety Performance Award among all the sub-contractors working on the project by Indian Oil Corp. Ltd.





Revisiting Tunu

The Tunu Field Development Project

EPSC 2. Phase 9



Local residents encountered and relocated include crocodiles and a family of snakes .

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Punj Lloyd has
been awarded the
EPC contract

This gas and condensate field on East Kalimantan on the outer reaches of the Mahakam Delta in Indonesia is partially onshore in swamp areas and partially offshore in shallow waters.

Tunu Phase 9 Development allows TOTAL to meet much of their production requirements in the region. The trunklines are planned to connect the new Gathering Testing Satellite stations (GTS) to the existing pipeline network. Punj Lloyd has been awarded this EPC contract.

The scope includes engineering, procurement, supply of all material eg: line pipes, fittings, pile pipes, etc to be laid by • Offshore conventional • Offshore Push Pull • Swamp Push Pull • HDD in swamp, with rig mounted on barge • Bottom Pull Shore Approach methods.

Tunu is a repeat order. Another example of our capabilities being recognised again and again in different parts of the world.

Highlights

Conventional offshore pipe laying in very shallow water area.

Longest Shore Approach of 2000m being laid offshore by Bottom Pull method.

Pipe String for HDD, prepared and wet stored, in open sea exposed to maximum currents of 2.5 knots to 3 knots.

Offshore Pipe laying of 4400 m by Push Pull method with barge stationary in areas having currents of 2.5 to 3 knots.

Hook up, Dogleg Riser Assembly installation at 4 shallow water platforms.

Pipe laying on existing pipe rack, parallel to existing pipeline within existing plant premises in very congested area.

Pre-dredging with specialised shallow water cutter suction dredger.

Post Trenching with specialised jetting sledges.

At Daewoo Motor Company

Punj Lloyd: Added Dimension



With our reputation to quickly mobilise resources and execute projects, we were contracted to preserve and maintain two stressed assets. First at one of the largest gas based power plants including the above-ground LNG tank terminal at Dabhol. And now at one of the South Korean owned Daewoo car plants, towards reviving it into productive performance later. A move that has the support of all stakeholders.

A series of meetings were organised at Daewoo Motor Company, Noida, India to build the necessary trust and confidence to ensure that the physical, technical and commercial net worth of the facility is not eroded further. Once trust was established by Punj Lloyd, engineers and managers started their work. Since facilities were in a state of abandon and neglect, a virtual 'Intensive Care Unit' was created to ensure

that the various software associated with the controls and operation of the plant were not lost or infected. All moving parts were also brought to operational readiness.

Apart from maintaining

the physical well-being of the facility, we took care to ensure that the key technical and managerial resources remained indirectly engaged with the plant so that the availability of the organisational processes remains intact. Hence, as and when a new owner wants to re-commence operations, he has a 'virtual on-going' organisation available to roll out world-class automobiles. Punj Lloyd made it possible.

◆ Ashwani Dubey



The Punj Lloyd High Value Engineering Centre

PLL - HVEC fulfills clients' detailed engineering requirements based on the basic engineering documents. Representative service offerings range from preparation of design documents and drawings to engineering specifications • material take-offs to purchase orders management • technical evaluation reports and • vendor information reviews.

The service range is extended and includes • inter-disciplinary co-ordination; project planning, cost estimating, scheduling, procurement, expediting, inspection and construction management.

PLL - HVEC staffers have over the years acquired experience in execution of a spectrum of projects in cross country pipelines • gas processing plants • off

site facilities • refinery process units • storage tanks and terminals and • utility systems. Institutionally our people draw from the world-wide experience of other Punj Lloyd Strategic Business Units in Pipelines, Tankage & Terminals, Turnkey & Composite Construction, Civil Construction and Telecom.

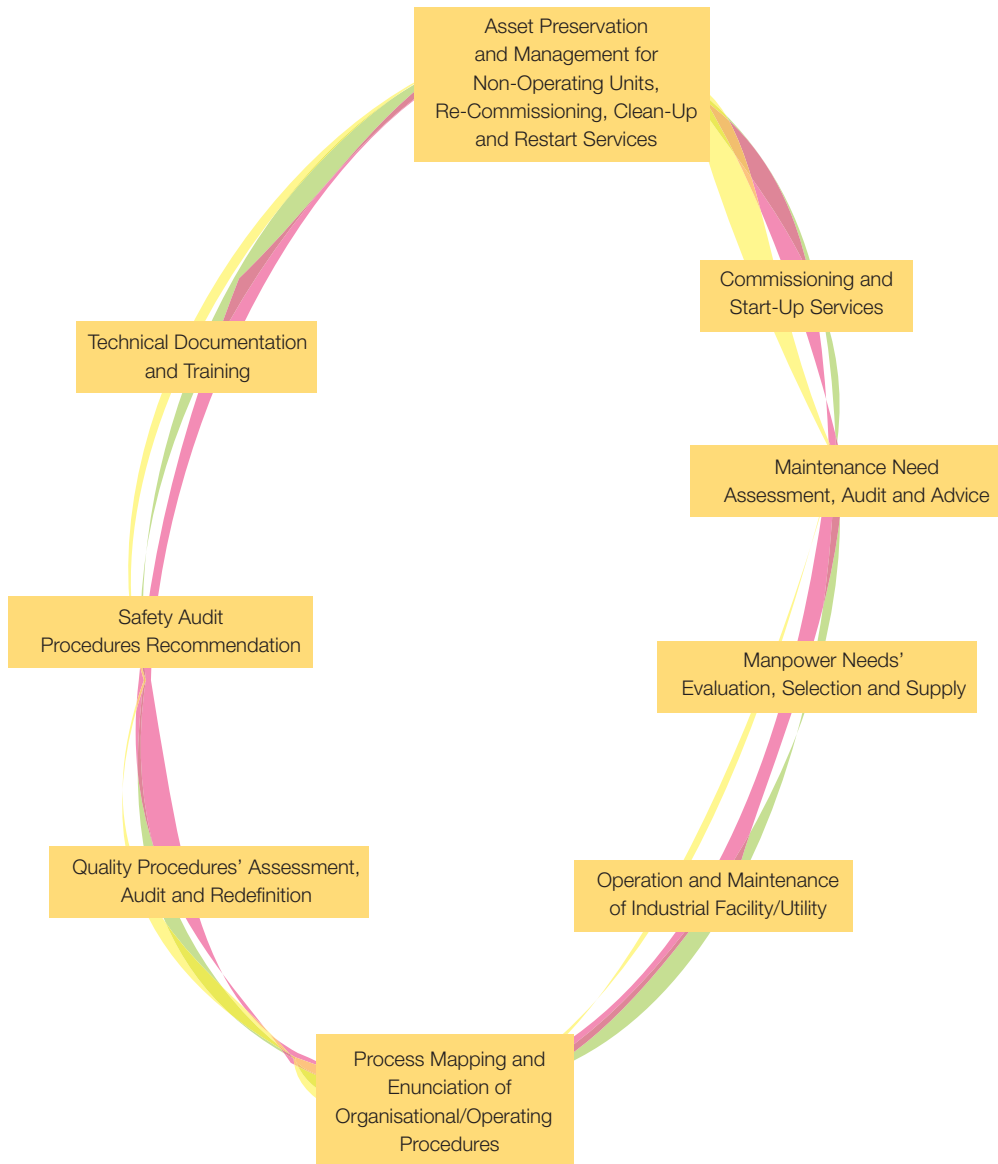
The 50+ engineers and CAD professionals are equipped with the most

contemporary software tools - AutoCad - Intools - MicroStation - PipeNet - PrimaVera - STAAD III. Key personnel have serviced globally reputed EPC companies and oil & gas majors in the infrastructure sector.

◆ Punj Lloyd's strong IT infrastructure enables the HVEC function as a remote design and engineering centre for clients worldwide.

◆ Maneesh Varma

Punj Lloyd 360° Plant & Facility Management Services



... to give our clients
– improved plant availability and reliability; enhanced efficiency; increased environmental compatibility, augmented health and safety record; deliver results in budgeted time and cost.

... in India.
Asia. Globally.

The appointment of Mr Henry G R Taggart

BA (Social & Environment Science and Law), Msc. (Safety Management), in February this year, reflects Punj Lloyd's growing presence worldwide. Currently the company has projects in UAE, Turkey, Qatar, Oman, Kazakhstan, Indonesia, India, Georgia.

Mr Taggart's specialisations cover Emergency Response Management, Environmental and Safety Auditing, Safety Management Systems, Transport Safety Management and Training & Competency.

Gerry Taggart began his career with British Petroleum 26 years ago and was with BP Oil International for 10 years. Here he led the group's first Road Safety Team investigating all aspects of Road Transport Safety on an international scale. He has also played a key role in the development of the BP Oil Emergency Response and Crisis Management team.

Mr Taggart has won the BP Chairman's award for his role in the safety team.

Gerry Taggart has working knowledge of French, German and Russian. Maureen, his wife, a trained nurse will be joining him shortly in India.



Second India-Asean Business Summit

September 4-6, 2003, New Delhi & Mumbai

The II Business Summit between India and the Association of South East Asian Nations was a landmark event. ASEAN is an area of Punj Lloyd interest with projects in Indonesia. The Company was therefore a sponsor. A free trade arrangement (FTA) with ASEAN is due to come into effect by 2011. In his policy paper Secretary Power RV Shahi, pointed out that even a per capita consumption of 400 KW per year, the current shortage of power in India was of the order of 30%. There was need therefore for augmenting

power generation. The hydropower target itself is an additional 50,000 MW by the year 2009. These figures underline the potential. Now, the power policy also focuses on transmission and distribution.

The Business Summit took note of India's continuously augmented engineering capabilities – an average of 200,000 engineers graduate every year. A fact that contributes to the caliber and capability of our strategic business units of High Value Engineering Centre (HVEC) and Power.

Punj Lloyd

Jt. MD & COO elected to IPLOCA Board



Mr V K Kaushik, Second row extreme left

Punj Lloyd has a tradition of close engagement with international professional bodies. Chairman Emeritus Mr SNP Punj was the President of IPLOCA (International Pipeline & Offshore Contractors Association) for 1998-1999. Continuing with this tradition Joint Managing Director & COO Mr. VK Kaushik has been unanimously elected to the IPLOCA Board representing the East and the Far East regions. Besides, Mr Kaushik has been nominated to the Safety Committee of the IPLOCA Board which acknowledges Punj Lloyd's commitment to and, safety practices,

worldwide. This nomination to the Safety Committee of IPLOCA is significant with the Association establishing an Annual Safety Award for its members. Currently IPLOCA is engaged in developing common Safety Guidelines jointly with the World Federation of Pipeline Industries Association.

Protection of the environment and cost reduction initiatives are Mr Kaushik's other areas of professional involvement at IPLOCA.

Mr VK Kaushik was elected at the Annual Convention, September 2003, in Budapest, Hungary.



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