



Punj Lloyd
GROUP

Jan - Apr 2008

The Punj Lloyd Magazine

update

Punj Lloyd | Sembawang | Simon Carves

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Elegant, refreshing and news rich!

- 2 Of Spirit and Style**
Punj Lloyd Group launches its 1st Limited Edition Calendar
- 6 Steering the Future**
New Doha International Airport Project, Qatar
- 8 Bridging Islands**
South Sumatra West Java Onshore Gas Pipeline
- 18 Forging Ahead for a Truly World-class Transportation Hub**
- 20 What's New!**
- 21 Acclaimed for Outstanding Performance**
- 22 Click here**
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Of Spirit and Style

Punj Lloyd Group launches its 1st Limited Edition Calendar

From the five natural elements of nature to the musical notes of various instruments, Punj Lloyd has used many a theme to spin stories about its rich project experience through decades. This year, we pay a tribute to the relentless spirit and style of Gujarat's nomadic community, the Rabaris, through photographic art.

True to the wandering nature of our business, crossing many boundaries, selection of Rabaris as a subject for the calendar came naturally to us, inspiring us to christen the launch of this special calendar edition - 'Wanderlust' – representing Punj Lloyd's quest for new geographies.

Effortlessly imbibing the cultures and traditions of every land, Punj Lloyd initially started with operations in India, Indonesia and Singapore in the Asia Pacific, to swiftly move to the Middle East, followed by Kazakhstan and the Caspian. Its latest foray being into the energy rich north Africa. It is no surprise then that the Rabaris, with their rich heritage,



Plus d'infos



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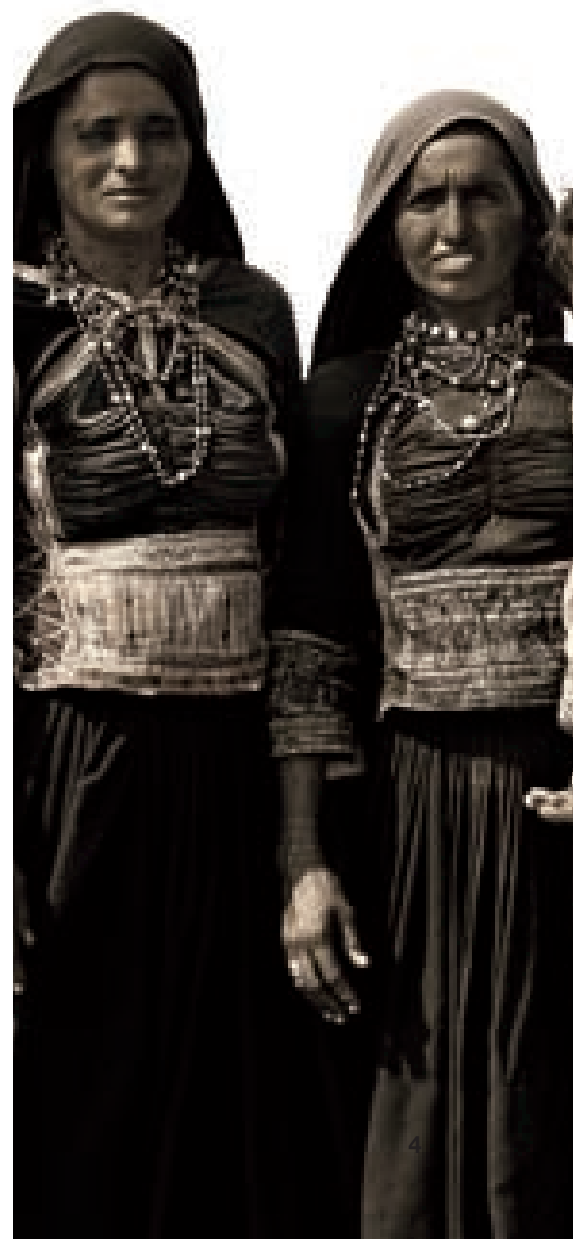
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walking proud, silver and kohl flashing, amidst camels and sheep in the desert, caught our eye.

Along with celebrated photographer, Rohit Chawla, the limited edition of the calendar was launched at an exclusive art gallery, Palette, New Delhi, where the life size images of the calendar had their own story to tell, leaving the visitors mesmerized. Among the distinguished guests were some noted personalities including Media Baron-Shobhana Bhartia, NGO activist-Nafisa Ali, music duo - Ayaan & Amaan Ali and celebrated designers from the fashion world.

The traditional textiles, intricate embroidery and motifs, tattoos and the glistening silver of the Rabaris have inspired countless fashion houses. Capturing their natural intensity in a studio was indeed a



challenge for the photographer. Special colour effects, Italian coated paper and a teakwood frame, combined to give a rustic appeal to the Wall Calendar, which any art connoisseur would appreciate.

Much like Punj Lloyd, seamlessly integrating with cultures across the

globe yet revelling in its being Indian, the Rabari community has withstood the onslaught of time, retaining its identity and innate sense of style intact.

We, at Punj Lloyd Group, put our hands together to applaud this spirit and style of the Rabaris. ◆





New Doha International Airport Project, Qatar

Steering the future...

Nimesh Ranjan Das

Project Manager

New Doha International Airport Project

Punj Lloyd is currently executing the Phase I of the New Doha International Airport Fuel System.

Owing to the phenomenal economic and development growth, the State of Qatar with 1/10th of the world's total natural gas, planned a new state-of-the-art International Airport at its capital Doha, under the aegis of New Doha International Airport Steering Committee (NDIA).

While Punj Lloyd was awarded the Phase I in March 2006, NDIA issued a notification of change in June 2006 to incorporate major expansion involving storage tanks, enhanced jet fuel hydrant pipeline

and pumps. The total expanded package was awarded on March 12, 2007.

The airport complex will also have a free trade zone attached to it. All these facilities are being developed on an area of more than 22 sq km, most of which is reclaimed. The airport will have two run-ways of 5 km each, capable of handling A380-800.

The airport is being constructed in three phases and is scheduled to be fully operational by 2015. The first two phases are scheduled for 2009 and the third phase and final phase is scheduled for 2015. NDIA has engaged Overseas Bechtel Incorporated (OBI) as PMC for this project.

Punj Lloyd team is committed to maintain world-class standards of safety and quality



The jet fuel hydrant is designed to ultimate phase (flow 3500 M³/Hr) through two 20" dia underground pipelines (30 km). The system will cater for refueling of 10 aircrafts simultaneously (expandable to 16).

The salient feature of this EPC package is to construct a jet fuel receiving station, pumping the jet fuel to above ground storage tanks, distribution of fuel through an automated control pumping to various aircraft loading points. Apart from the above, Punj Lloyd is going to build two ground service equipment fuelling stations along with parking facilities. The contract also includes seventeen utility buildings with matching airport architectural feature.

The scheduled completion is December 2008.

Infrastructure at the Site

A full fledged camp with a capacity of 780 people with cafeteria,

recreation halls for workers and staff, gymnasium and a first-aid clinic were setup on 57,000 sq m of land provided by the NDIA. The site office and lay down area facilities include fabrication, shot blasting & painting, carpentry and maintenance shops, stores, dispensary and a mosque.

Design and Construction

The FEED for these packages was prepared by NDIA through ADPI and the detailed engineering was developed by Punj Lloyd through JP Kenny UK. Each of the design deliverables were to be reviewed by an independent checker; approved by Bechtel and then issued for construction.

While all long lead mechanical items like CF pumps, piping, plates for tankages, hydrant control valve, and MCC & switch boards have been ordered, major deliveries were expected to the site till April



2008. Sub-contractors/agencies for various activities like civil & structural works, tank plate fabrication of storage tanks have been finalized. Columns upto first floor level for six major buildings and four tank shell erection of two layers each have been completed. Fuel hydrant line stringing is 70 per cent complete and 15 per cent of the lines have been pneumatically tested and laid in position.

Punj Lloyd team is committed to maintain world-class standards of safety and quality and has won 'Contractor of the Month' awards on two occasions ♦



Bridging Islands

South Sumatra West Java Onshore Gas Pipeline

We were proud to receive this repeat order from PT Perusahaan Gas Negara. With our track record of execution of challenging projects in Indonesia, we have established ourselves as a strong and reliable partner for our clients.





Praveen K Chand
Project Director, Pipeline

Punj Lloyd, in consortium with its Indonesian subsidiary, PT Punj Lloyd Indonesia, was awarded the EPC (Engineering, Procurement and Construction) Contract for South Sumatra West Java Onshore Gas Pipeline (SSWJ - II) by PT Perusahaan Gas Negara (PGN) in October 2005.

We were proud to receive this repeat order from PGN. With our track record of execution of challenging projects in Indonesia for esteemed clients like TOTAL, Pertamina and PGN itself, we have established ourselves as a strong and reliable partner for our client's.

Scope of Work

The scope of work included the Engineering, Procurement and Construction of 28" dia Gas Pipeline from Pertamina Gas Receiving Station to Pagardewa Station, 268 km of 32" dia Gas Pipeline and 24 Core Fibre Optic Cable from

Pagardewa Station to Labuhan Maringgai, complete with cathodic protection system, civil, mechanical and piping work associated with nine sectionalising valve stations and five future connections. This also included the design and supply of six launchers/receivers.

Laying the Ground

The first challenge was to mobilise resources to meet the tight

**23,400 joints
were welded by
255 welders**

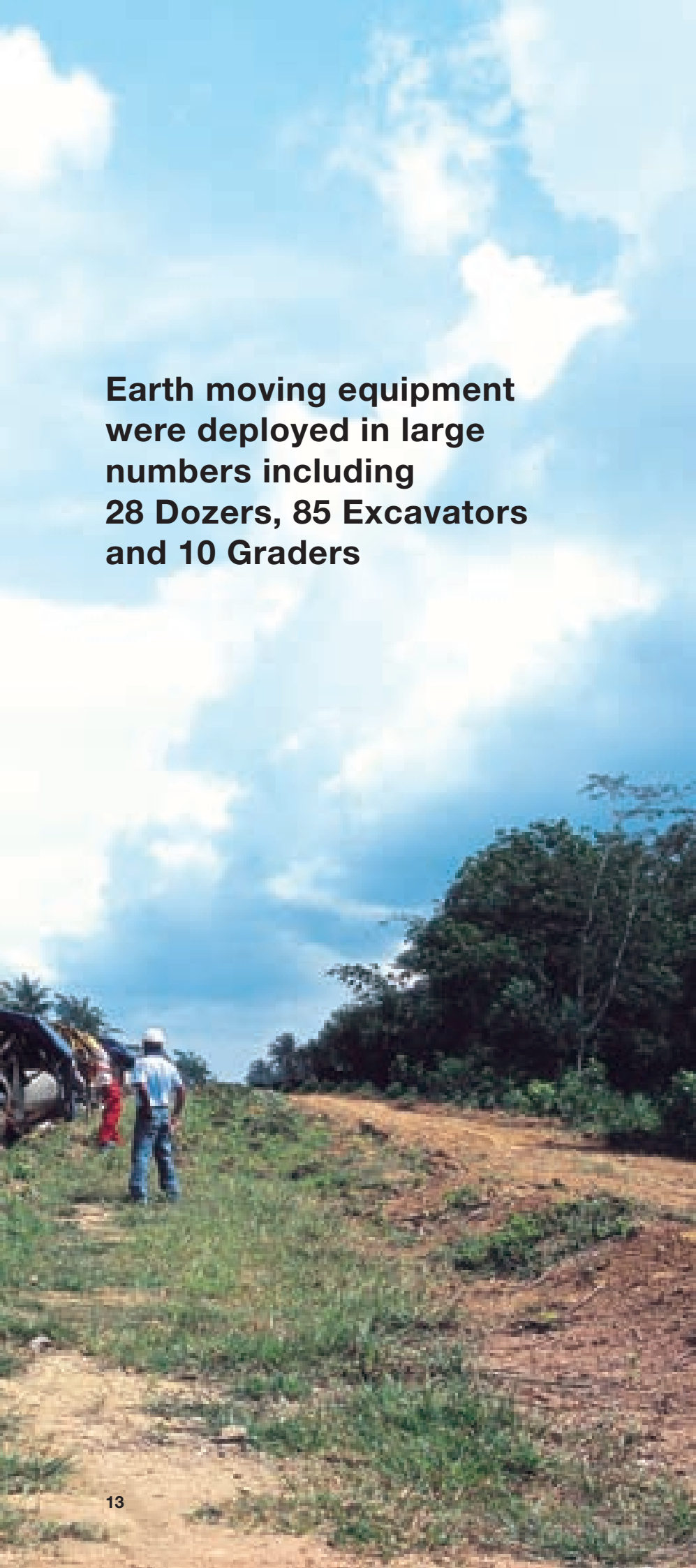




schedule. The pipes were received at Palembang Port. In spite of public holidays and heavy rains, we were successful in establishing the pipe receiving yard, besides mobilising equipment and manpower including







Earth moving equipment were deployed in large numbers including 28 Dozers, 85 Excavators and 10 Graders


HSE and QC personnel.

Thereafter, a route alignment survey was carried out as a part of detailed engineering, although ROW land was not completely acquired. Punj Lloyd completed the survey in time, and carried out verification surveys at a later stage.

In consideration of the slow progress due to heavy rains, inaccessible slushy ROW conditions non availability of continuous ROW, difficult terrain and sub-soil conditions and logistical problems, we decided to double the number of spreads from two to four covering KP0 - KP73 by Spread I, KP73 - KP132 by Spread II, KP132 - KP210 by Spread III and KP210 - KP272 by Spread IV .

Step by Step

Four camps, manned by Resident Construction Managers, were established. The ROW clearing was taken up as a challenge. Earth moving equipment were deployed in large numbers including 28 Dozers, 85 Excavators and 10 Graders. 200 flat bed trailers were used to transport the coated line pipes to the intermediate pipe dump yards. 23,400 joints were welded by 255 welders. In addition, 18 cranes,



4 vacuum lifts and 36 sidebooms were deployed. 200 light vehicles and more than 50 buses for 2,400 workers were used at peak time.

The pipeline route was extremely challenging as it passed through rubber, palm, pineapple, sugar cane and paddy fields, besides 7 km of swampy land.

In consideration of the local

community, the farmers were allowed to continue paddy farming till August 2006 by constructing padded earth roads within the ROW made of 150,000 m³ of imported dry soil.

Soon nearly 200 km of ROW was covered with more than 150 major and minor rivers. 18,500 pipe strings, 19,000 welded joints and 230 km of trenching, lowering and

The pipeline route was extremely challenging as it passed through rubber, palm, pineapple, sugar cane and paddy fields besides 7 km of swampy land



backfilling was completed.

There were 11 crossings executed by HDD method with a total drilled length of 7,000 m. The longest HDD was 1,235 m long, installed by our own HDD Rig. Also, 21 Augur Thrust Borings were installed.

Among the many swamp sections covered, the longest was

around 1,900 m long, installed by the conventional push-pull method between KP267 and KP266.

The next longest swamps were of 1,400 m at KP35 which also had a river flowing in the middle of the swamp.

The entire pipeline was hydrostatically tested in 5 sections (KP0 - KP4, KP4 - KP93, KP93



-KP170, KP170 - KP196 and KP196 -KP272) with longest section of 89 km and 105 m of elevation difference.

Making it to the finishing line

The drying of the 32" dia pipeline was carried out in two parts - from KP4 to KP170/Terbanggi Besar by Vacuum Drying and KP170-KP272/ Labuhan Maringgai by Superheated Air parallel to 1st Section.

Approximately 216,000 m³ Nitrogen was transported from West Java [Cilegaon] to Labuhan Maringgai by tankers through ferry for successful commissioning of the pipeline on 10th of March 2007.

The tight deadline could be met owing to the enthusiasm and teamwork of the workforce. ♦





Forging Ahead for a Truly World-Class Transportation Hub

Sembawang E&C Awarded S\$463 Million Contract to Build Bayfront MRT Station

Brandon Lye

AVP, Head of Marketing & Business Development

Sembawang Engineers and Constructors wrapped up a prolific year by securing a major contract worth SGD 463 million! The multi-million contract is for architectural, civil and structural work at the proposed Bayfront MRT station in Marina Bay, Singapore.

The contract was awarded by the Land Transport Authority of Singapore. It is the one of the first and biggest packages of construction work to be awarded at the planned 4.3 km downtown MRT Line in Marina Bay.

The Link to the New Downtown

The new Downtown MRT Line (DTL) is part of the Singapore government's

This is one of the first and biggest packages of construction work to be awarded at the planned 4.3 km downtown MRT Line in Marina Bay

ongoing effort towards making Singapore a world-class trading and transportation hub, with excellent infrastructure and utilities of high quality, to support a larger population in the future.

The 40 km DTL will be operational in phases, with the earliest serving the Marina Downtown area of the integrated resorts, financial hub and new attractions. The fully underground Downtown Line Stage 1 (DTL1) spans 4.3 km long over six stations. These will be operational in 2013. Other phases will be completed at a much later date leading to 2018 when the project will be finally completed.

DTL1 is set to enhance connectivity across the island to the Marina Bay, providing seamless travel for busy executives, business travelers, convention visitors and tourists alike. With the new line, getting to the financial hub, integrated resorts and world-class attractions at Downtown Marina Bay (DTMB) will be quick and easy.

The DTL1 is the strategic transport link to DTMB - a total live-work-play environment comprising

a business and financial centre, residential developments, and attractive shopping, leisure and entertainment facilities. It will also strengthen the existing rapid transit system network, as it connects the Central Business District (CBD) and other parts of Singapore through the interchange stations at Circle Line's Promenade Station, North East Line's Chinatown Station and East West Line's Bugis Station.

Building the Strategic Link to Singapore's New Downtown

Under the terms of contract, Sembawang E&C will be constructing the Bayfront station - the linchpin of the Downtown Line - as it serves the keenly anticipated Marina Bay Sands Integrated Resort.

The Company will be responsible for the underground construction of Bayfront station and two pairs of tunnels for DTL1. This includes architectural, civil and structural work. We will also construct Bayfront Avenue and the connecting roads which will be completed under Phase I by end 2009. The rest of the

station work, under Phase II, is slated for completion in 2013.

Bayfront will be one of the first stations to open in the Downtown Line. Being a fast-track project, the schedule will require 24-hour work days for the station to be completed in time for the opening of Marina Sands IR.

At this juncture, Sembawang E&C is also involved in the construction of three stations on the Circle Line, as well as the fit-out works for another. Having built a third of all MRT and LRT stations in Singapore, we are confident of completing the project on schedule.

We are proud to be involved in building the future of Singapore's transport infrastructure, more than just enhancing connectivity and improving commuters' overall travelling experience, the expansion of the existing MRT network is set to propel Singapore's public transport system to new frontiers of excellence. It's history in the making, and Sembawang E&C is honoured to be part of it. ◆



What's New!

- > Sembawang E&C awarded contract to build the North Podium of Marina Bay Sands Integrated Resort in Singapore
- > Borouge 2 Polyolefins for Abu Dhabi Polymers Company, UAE
- > Punj Lloyd led consortium awarded the Sabah Sarawak Gas Pipeline Project in Malaysia
- > Punj Lloyd to build Delayed Coker & Coker LPG Merox Unit for Indian Oil Corporation
- > Sembawang E&C to construct Bayfront station at Marina Bay's new Downtown MRT Line
- > Sembawang E&C to execute turnkey project at the new mega Jurong Aromatics Complex on Jurong Island, Singapore
- > Multi-Product Pipeline from Messaieed Refinery to Doha Depot for Qatar Petroleum
- > Punj Lloyd to build Sulphur Block at Bina Refinery, Bharat Oman Refineries Limited
- > Sembawang E&C secured order for sub-structural work at the Sentosa Integrated Resort Development, a prestigious IR project being developed in Singapore
- > Punj Lloyd awarded pipeline order from Reliance Gas Transportation and Infrastructure Limited
- > Dayim Punj Lloyd secures Early Needs Tanks order from Saudi Kayan Petrochemical Company (SABIC) in Kingdom of Saudi Arabia
- > Simon Carves to build the Anhydrous Hydrofluoric Acid (AHF) / Aluminium Fluoride (AlF₃) Plant in the UAE

New Initiatives

- > Punj Lloyd acquired a stake in Pipavav Shipyard Limited. The strategic investment will aid Punj Lloyd's core business in the offshore sector
- > Punj Lloyd forays into Real Estate Development – Enters into MOU for JV with Ramprastha Group for development of multi-storied residential housing





Acclaimed for Outstanding Performance

Punj Lloyd wins three awards from the Project Exports Promotion Council of India



Punj Lloyd was the proud recipient of prestigious awards from the Project Exports Promotion Council of India for the following :

Maximum Foreign Exchange Earned and Repatriated to India from Overseas Construction and Engineering projects and the second best in both the Maximum Overseas and Maximum Turnover in Overseas Construction and Engineering Projects. The Awards were presented by Hon'ble Minister of Commerce & Industry, India, Shri Kamal Nath, to Punj Lloyd's Atul Jain, *President - Oil & Gas India operations.* ♦

The Winning Edge

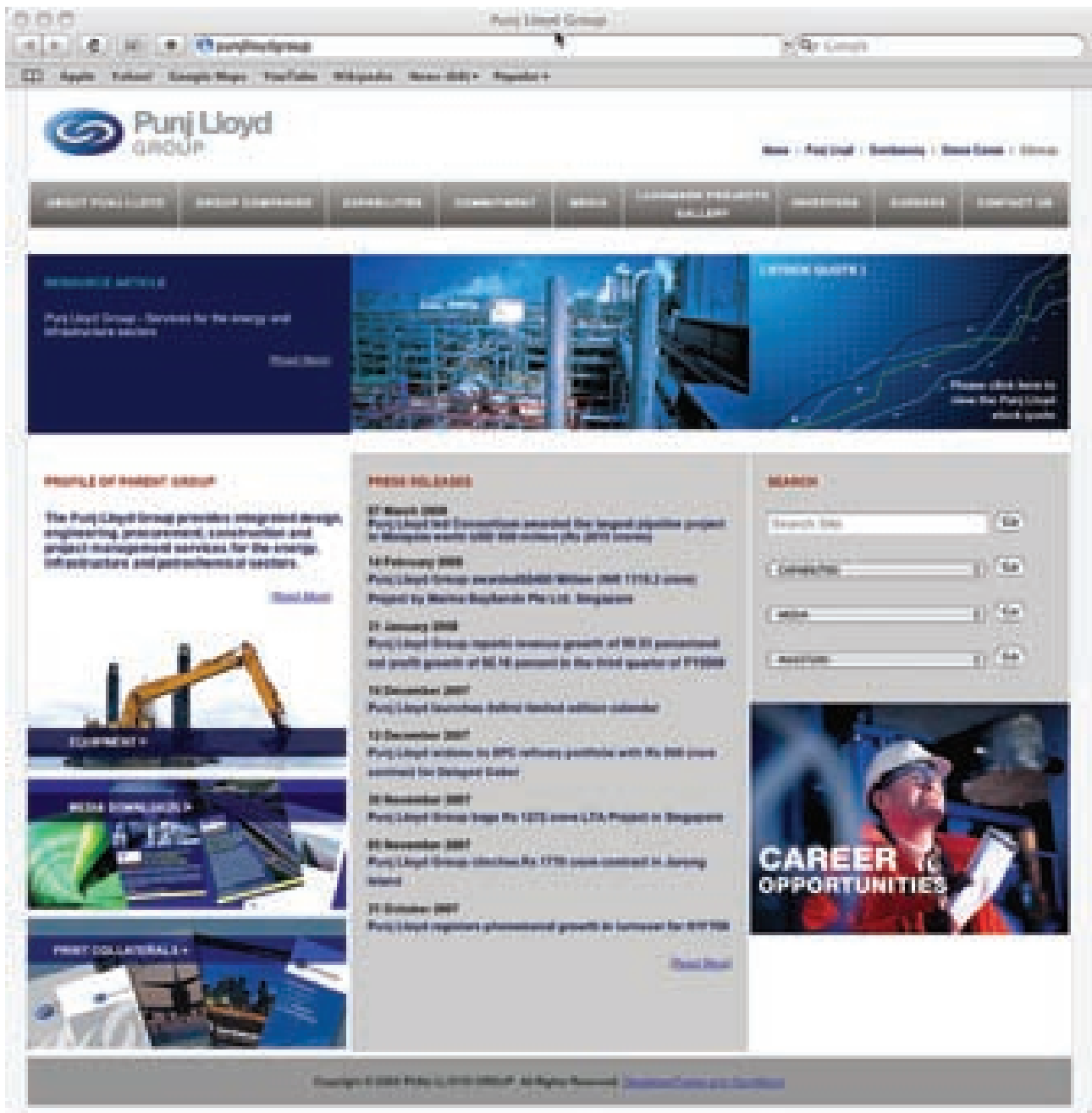
Punj Lloyd has proved yet again that its commitment to safety stands the test of time.

In every project that we undertake, stringent HSEQ regulations are followed. Work done well is always appreciated and we are proud to have our clients applaud our efforts at maintaining safety.

Jindal Power Limited has presented the Punj Lloyd team responsible for building the 1,000 MW power plant at Raigarh with 'Excellence in Construction Safety During 2007 – 2008 award' in the presence of *Deputy Director, Mr K K Dwivedi, Department of Industrial Health & Safety, Govt. of Chattisgarh, India.* ♦



www.punjloydgroup.com
Elegant, refreshing and news rich!



Welcome to the new Punj Lloyd Group site.

Whether you're building an airport or a tank terminal, a villa or a port, a refinery or an expressway, a power plant or a petrochemicals plant, your

Easy navigation, Quick links, Downloads, Visual project galleries, Investor and Career microsites and much more...



search for a competent and reliable partner to shape your dreams to completion ends here! Simply log on to www.punjilloydgroup.com and get a first hand preview of us - the specialists in Oil & Gas, Infrastructure and Petrochemicals.

Amazing facts and amazing success stories! A real visual delight, the site showcases the Group that offers you complete end-to-end solutions under one roof. For instance, did you know that Punj Lloyd has executed projects in over 60 countries or that its current order backlog is USD 5.3 billion. The Group has perhaps the largest basket of services, having executed prestigious contracts in pipelines, tankage and terminals, refineries, power, buildings, infrastructure, utilities, petrochemicals, chemicals and renewables. A rich multicultural workforce of 15,000 employees propels the Group to greater heights.

If you are looking for some fast information, we will not beat around the bush! Our quick search

links on the home page will ensure that you get to the information you need, instantly, while the press releases will update you with the





Integration of cultures from across the world

latest. And if you are looking for a career with the Group, simply click on the 'Career Opportunities' fast link and explore the world that opens up before you.

Our landmark projects gallery will take you through the projects we are so proud of! Simon Carves, our company in UK, is the world's No 1 in LDPE and is currently executing the world's largest LDPE plant in the world, in UK. Another first is the wheat based bio ethanol plant being constructed, the largest in the world. Sembawang Engineers & Constructors in Singapore, which was involved in the Changi Airport extension and in building the Mass Rapid and the Light Rail Transport, has also built Hotel Four Seasons and many other landmark buildings in Singapore, and China. Punj Lloyd is the only company which has been involved in all the three LNG terminals in India and has laid over 8,000 km of pipeline across the world! View all this and much more at this excellent visual gallery.

Besides giving you ample reasons to join our dynamic Group,

you can search for vacancies in the Group companies and across the globe in our **interesting Careers section**.

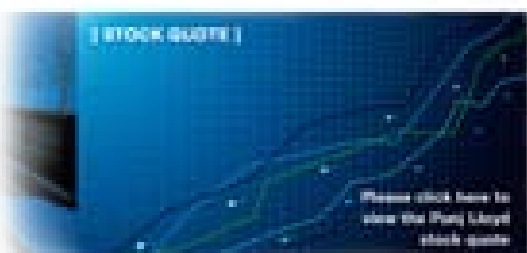
You will be fascinated by the integration of cultures from across the world. Proud of giving the first recruitment opportunity to the local community in any of its projects globally, Punj Lloyd has had diverse nationalities like Georgian, Azeri, American, Bolivian, British, German, Indonesian, Malaysian, Italian, Mexican, Chinese, Iranian, Cuban nationals among others work, simultaneously on a project. Our project people are sensitive to the needs of the local communities and work closely to provide amenities in that region.

Investors will now have information at the click of a button. A special microsite on Investors provides the latest earning

releases, project orders, corporate announcements, corporate governance, investor contacts and conference details, transcripts and much more.

The stock quote on the right is a special facility for an easy IR page from BSE (Bombay Stock Exchange), providing updated information of the stock. As an investor, all you need to do is to register online to be on the mailing list for an electronic communication from the Group.

If you represent the **media** and



A special microsite on Investors

provides the latest earning releases, project orders, investor contacts and conference details, transcripts and much more...



need to understand the company, we recommend that you visit the Media link which houses the press releases and the media coverage. A detailed factsheet of the company and backgrounders on each of the spokespersons will assist you in your research. The section also has a downloadable Group presentation and Group brochures.

The most interactive part of the website is the 'Global Reach or the **'Contact Us'** page.

Common to all sites, the link opens on the respective company offices across the globe, while at the

same time allows you to view the global spread of other companies and the entire Group as one entity, showing the wide geographical reach of the Group.

An easy navigation bar allows you to view the various group companies. So while you can see the rich project experience and the capabilities of one, the Group site showcases the astonishing scale and depth of services of the Group.

Here each company beautifully compliments the other to bring to you a rich and complete EPC solutions portfolio. ♦





In the world of the internet, one click is all it takes for information to reach you.

True to the Punj Lloyd Group's commitment in providing on-time and on-demand service, the Group has launched its new website that will allow you to access information without any hassle.

In Sync

We know your need for information at your fingertips. The new www.punjllloydgroup.com portal will allow you access to the group's four domains from a single page:

www.punjllloydgroup.com
www.punjllloyd.com
www.sembawangenc.com
www.simoncarves.com

Information has been clearly laid out in each of these sites, providing visitors to the site the latest news without having to plough through many layers of information. Through quick links and a search facility, the new portal is in sync with your need for information with one click of the button.



Be entranced with a stunning picture gallery of the group's prestigious landmark projects.

In the Market

Together with the above four domains, an all new investors domain has also been launched. For Indian market watchers, a tieup with BSE for an easy IR page will provide updated stock quotes all the time.



In Touch

For new recruits, a common careers portal will allow quick access to jobs available and the exciting career opportunities available in the group.

A Global Reach page will present a complete geographical spread of the group along with each of the companies showing their offices the world over.



In Time

Log on to www.punjllloydgroup.com to be in time to experience the new portal.



www.punjllloydgroup.com

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