



**PATEL ENGINEERING Ltd.**

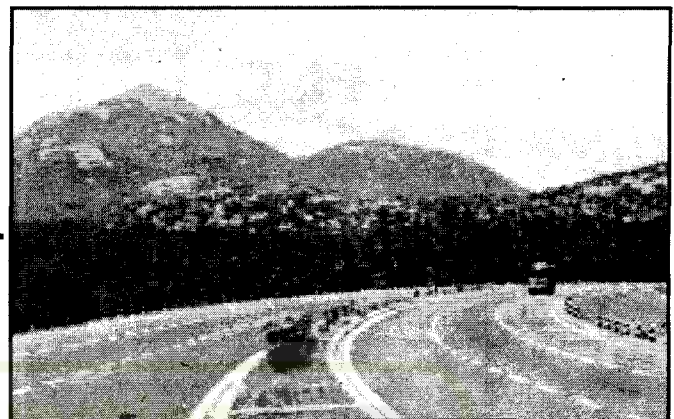
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**57<sup>th</sup> ANNUAL REPORT  
2005-2006**

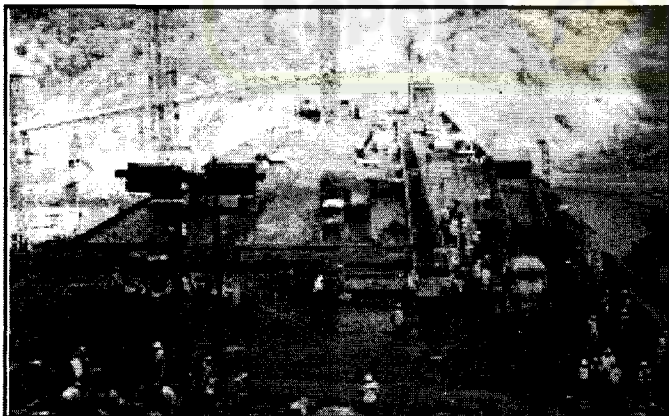
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→ Srisaillam Project

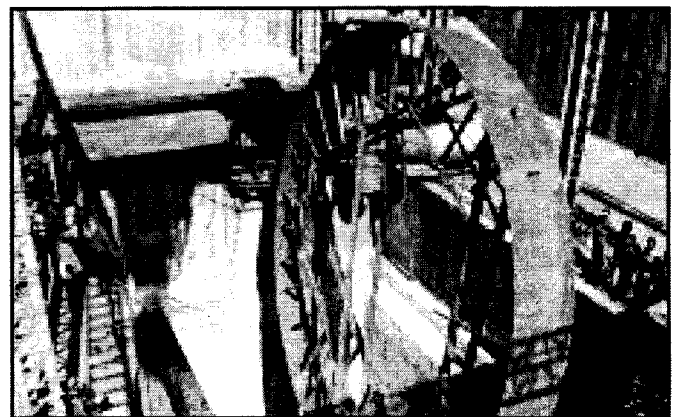


Krishnagiri Vaniyambadi NH46 Project ←



→ Ghatghar RCC Dam

Koyna Project



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**Pravin Patel**  
**Chairman**

### **VISION**

Committed to be an industry flag-bearer, to be a major partner in building and strengthening India's infrastructure edifice and to expand across geographies.

### **MISSION**

To drive the aspirations and dreams of the nation, using the latest technology and cutting edge civil engineering services.

# SEGMENT I

## THE WORLD OF PATEL ENGINEERING

### HISTORY

#### The road traversed

Patel Engineering was established as a partnership firm in the year 1947 by a team of five young entrepreneurs to carry on the business of construction and engineering. Two years later, Patel Engineering Limited was originally incorporated under The Indian Companies Act, 1913 as "Patel Engineering Company Limited" vide its certificate of incorporation dated April 2, 1949 with an object to carry on the business of the partnership firm. The name of the company was changed to "Patel Engineering Limited" with effect from December 9, 1999.

The company had raised equity by way of initial public offering for the first time in the year 1986 and its shares were subsequently listed on the Bombay Stock Exchange.

Since its inception, the company spearheaded infrastructural growth by undertaking major engineering and construction work all over India and in Asia. Over the years, the company has built up an unmatched reputation, integrity and versatility in execution of multi-dimensional contracts. Today, the company ranks among the top ranked engineering and construction company with expertise in Multipurpose Water Supply & Power projects and underground projects, irrigation and water supply, transportation projects in roads, railways and bridges, projects for commercial buildings, industrial and sports complexes and marine projects.

#### **SHOWCASE of some prestigious Projects undertaken and executed by Patel Engineering :**

##### ***Multipurpose Water Supply & Power -***

- Periyar Project
- Koyna Project
- Kundah Hydro Power Project
- Vaitarna Hydro Power Project
- Yamuna Hydro Power Project
- Loktak Hydro Power Project
- Baira-Siul Hydro Power Project
- Kodayar Hydro Power Project

##### ***Irrigation and Water Supply***

- Konar dam
- Tansa dam strengthening
- Nagarjunasagar
- Vihar works

##### ***Others***

- Rockbund at Mumbai
- Caissons for Canada – India Reactor
- Durgapur Steel Plant
- Warrangal Engineering College

### Others (Contd.)

- National Theatre Hyderabad
- Multi Storeyed Building Mazagaon Dock
- Refineries at Mumbai

### **ACHIEVEMENTS :**

***Patel Engineering has always strived to provide innovative solutions in the field of Engineering and Construction.***

- Contributed to 22% of the total Multipurpose Water Supply & Power projects executed in India since independence.
- Involved in the civil work of over 75 dams across the world and completed over 160 kms of tunneling in varied geographies.
- Successfully completed under water tunneling by conventional method for Koyna Project

***We believe in leading from the front and thus have a number of firsts to our credit.***

- First construction company in Asia to execute Double Lake Tap works for Koyna Project;
- First Indian Company to execute microtunnelling projects using Tunnel Boring machine in India;
- Pioneer in the use of RCC technology for construction of dams in India in the Ghatghar project;
- Among the first few companies to have secured lift irrigation contracts when the sector opened up in the state of Andhra Pradesh.

***Our novel approach to providing construction solutions have borne fruit and the awards and achievements spell it out.***

### **AWARDS**

- "Best Quality Construction" award for Konkan Railway tunneling in 1994;
- Won National Award for maximum utilization of Fly Ash in FY 2006;
- AON Build America Award for the construction of civil works for Loch Raven Dam in 2006;
- AON Build America Award in Federal & Heavy/renovation category by the Associated General Contractors of America for the Standley Lake Dam Improvement Project in 2005;
- National Rehabilitation Project of the Year award by the Association of State Dam Safety Officials for the Wesley Seale Dam Spillway Rehabilitation in 2001;
- Award for Excellence by American Concrete Institute for the Washakie Dam Safety Modifications in 2000;
- The Charles J. Pankow Award for Excellence by American Concrete Institute for the Little Rock Dam in 1995;
- Award for Excellence by American Concrete Institute for the Quail Creek Dam in 1991;
- Award for Excellence by American Concrete Institute for the Stagecoach Dam & Reservoir in 1991;
- Construction Industry Award by ENR (Engineering News Record) for the– Stagecoach Dam & Reservoir in 1989; and
- Award for Excellence by American Concrete Institute for the Middle Fork Dam in 1984.

### **ACCREDITATIONS -**

- ISO – 9001: 2000

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**MEET THE MANAGEMENT****Pravin Patel**  
**Non-Executive Chairman**

*The guiding light and founder of this company, Pravin Patel is a visionary with inborn leadership traits. A graduate in Town Planning from USA and with a degree in Financial Management from the London School of Economics, he is credited with successfully implementing pioneering technologies in the field of construction in India. He has also driven the company's inorganic growth with the successful acquisition of two US based companies.*

**Rupen Patel**  
**Managing Director**

*With a hands-on managerial style, Rupen fashions and oversees the execution of the company's strategies. An MBA (USA), he tours extensively overseeing the supervision of all sites and strives to develop and enhance the company's core competencies.*

**Sonal Patel**  
**Chief Operating Officer/Whole-time Director**

*Sonal oversees the company's operations as its Chief Operating Officer. An expert at multi-tasking, Sonal is an MBA (USA) and also oversees the operations of the company's US subsidiaries. Her trans-continental experience serves the company in good stead while planning overseas operations.*

**Silloo Patel**  
**Whole-time Director**

*She brings to the table three decades of her experience in the field of business management and finance, and oversees the purchases, corporate finance and administration of the company. An Arts graduate from Bombay University, she has hands-on experience in the fields whose operations she oversees.*

**Nimish Patel**  
**Whole-time Director**

*Formerly associated with a prominent American construction company, Nimish handles the execution of the company's projects, particularly in the North and North Eastern Region and handles industrial relations, quality accreditation and other related matters.*

**Sumantrai Khandubhai Desai**  
**Whole-time Director**

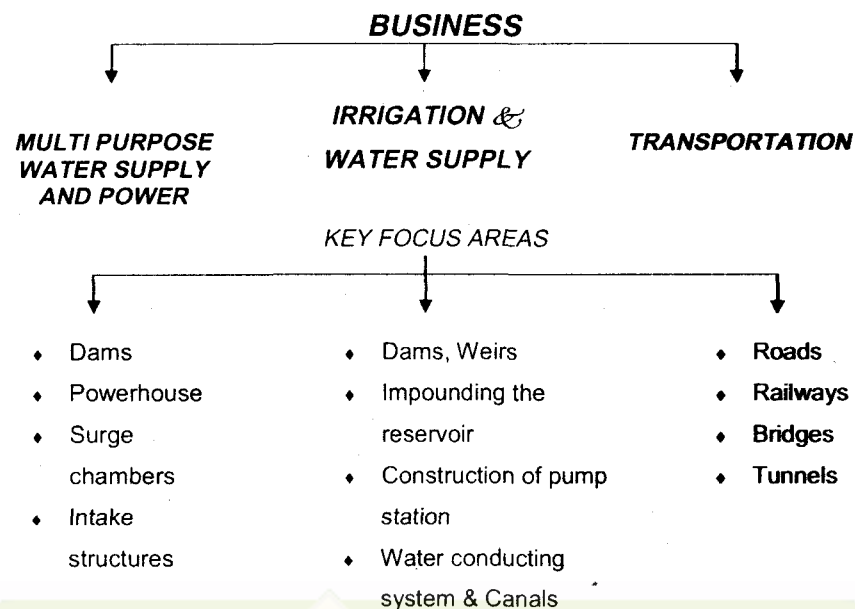
*A graduate in Civil Engineering and a Chartered Engineer, with over five decades of experience, he plays the role of a trouble-shooter, ensuring the timely execution of projects by addressing any technical snags. A virtual on the job trainer, several young engineers have worked under his tutelage.*

**THE OTHER DIRECTORS ARE :**

NAME	QUALIFICATION	EXPERTISE / RESPONSIBILITIES	YEARS OF EXPERIENCE
K. Kannan	B.Com, F.C.A., AICWA	An eminent banker with experience in international fund management	40 years
Khizer Ahmed	M.A. Economics	An erudite central banker with vast management experience	42 years
Rohit Patel	B. Sc. (Mechanical Engineering)	Controlling central stockyard and overall management	40 years
Dinesh V Patel	B.E. (Civil)	New contracts, joint ventures, Government liaison	40 years
Rajat Patel	B.E. (Civil)	Identifying new projects and Liaisoning with government and autonomous bodies	16 years
Danish Merchant	Under-Graduate	Liaisoning and public relations	15 years
Ajay Tuli	B. Com	Logistics	16 years

**57<sup>th</sup> ANNUAL REPORT 2005-2006****BUSINESS MODEL**

*Patel Engineering is a dominant player in the Indian Civil Engineering and Construction space. Its **KEY** business areas can be broadly classified into three categories.*

**PROJECTS UNDERTAKEN :**

Nature of Work	No of Projects
Multipurpose Water Supply & Power	30 nos
Dams	75 nos
Tunnels	160 kms
Roads & Bridges	70 nos
Micro-tunneling	30 nos

**Multipurpose Water Supply & Power Projects**

The Company has participated in construction of Multipurpose Water Supply & Power Projects **generating more than 7,000 MW of power, out of a total of approximately 32,000 MW generated in India** from Multipurpose Water Supply & Power Projects since Independence.

The company has been involved in construction of 75 dams and 160 km of tunneling in India and abroad.

Patel Engineering has unmatched technological skills, experience, equipment and manpower to execute complex jobs involving tunneling in varied geology in difficult terrain as demonstrated in the **Udhampur Project, Parbati Project** Moreover, these projects are characterized by higher margins, impacting the company's financials favorably.

**PROMINENT PROJECTS EXECUTED :**

Sr. No.	Project	M.W.	Location
1.	Koyna Project Stage IV (Contract I)	1000	Maharashtra
2.	Srisaillam Left Bank Station	900	Andhra Pradesh
3.	Srisaillam Right Bank Station	770	Andhra Pradesh
4.	Teesta Project, Stage V	510	West Bengal
5.	Balimela H.E Project	480	Orissa
6.	Tons H.E Project	375	Madhya Pradesh
7.	Koyna Project, Stage III	320	Maharashtra
8.	Mettur H.E Project	200	Tamil Nadu
9.	Baira Sul H.E Project	180	Himachal Pradesh

**PROMINENT PROJECTS UNDER EXECUTION :**

Sr. No.	Project Name	Location	Client
1.	Construction of RCC Dam for Ghatghar, Pumped Storage Scheme	Maharashtra	Irrigation Department of Maharashtra State
2.	Koyna Project, Stage IV – Extension of HRT	Maharashtra	Irrigation Department of Maharashtra State
3.	Civil and Hydro-mechanical works for Diversion Dam and Part Head Race Tunnel for Parbati H.E. Project – Lot PB.1 (4 x 200MW)	Himachal Pradesh	NHPC
4.	Sewa Project, Stage-II - Lot-SW.2 of 120MW (3 x 40MW)	Jammu and Kashmir	NHPC
5.	Teesta Low Dam Project, Stage-III - Lot TL-1 of 132 MW (4 x 33MW)	West Bengal	NHPC
6.	Kameng Project, Package I, II and III	Arunachal Pradesh	NEEPCO
7.	PB III : Lot 1:Construction Spillway Tunnels including dams, Rockfill dam, Spillway, Structures and Part Head III (4 x 130 MW )	Himachal Pradesh	NHPC

**Irrigation and Water Supply**

Irrigation & water supply projects include a wide range of activities depending on the project.

Patel Engineering aspires to replicate its expertise in multi purpose water supply and power projects in this area and has recently forayed into developing agricultural infrastructure through lift irrigation in light of the tremendous opportunity in this segment backed by government spending.

The company has also entered into Engineering Procurement and Construction (EPC) and/or Lump Sum Turnkey (LSTK) execution of lift-irrigation projects, primarily in the state of Andhra Pradesh.

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Sr. No	Project Name	Location	Client
1.	Bhima Lift Irrigation Project, Lift-I,	Andhra Pradesh	Irrigation & CAD Department, AP
2.	Kalwakurthy Lift Irrigation Project, Stage-I Pumping Station with 5 x 30MW Pump Motors	Andhra Pradesh	Irrigation & CAD Department, AP
3.	Jawahar Lift Irrigation Project, Stage-I & II	Andhra Pradesh	Irrigation & CAD Department, AP

**Transportation:**

The company has undertaken several projects in India under above.

**PROMINENT PROJECTS EXECUTED :**

Sr. No.	Name of the Project	Features of the Work
1.	Construction of Fly-over-Bridge to cater four lane traffic on Ring Road at Surat	Length-1850m, Piers-180nos
2.	Plant Road Work for Simhadri Thermal Power Project	Construction of Plant Road
3.	Udhampur – Katra Railway Project	Construction of Tunnel No I, IV & V
4.	Surat Manor Tollway Project (Package - II) Rehabilitation of Surat - Manor Section of NH - 8 (Km343.000 to km. 381.000)	Rehabilitation and Upgrading of NH-8 (Km343.000 to Km. 381.000)
5.	Krishnagiri Vaniyambadi Section of NH-46 (KR-I) Package - 3 (Km. 0.00 to Km.49.00)	Widening to 4-lanes and Rehabilitation of existing 2 lane carriageway of NH- 46 Km. 0.00 to Km 49.00

**PROMINENT PROJECTS UNDER EXECUTION :**

Sr. No	Project Name	State	Client
1	.Rehabilitation of Road from Alnavar to Yellapur in Belgaum and Uttar Kannada	Karnataka	Karnataka State Highways
2.	East-West Corridor, Assam, Contract Package No. EW- II (AS-18)	Assam	NHAI
3.	Madurai to Kanyakumari Road, Contract Package NS- 39 & 43 (TN)	Tamil Nadu	NHAI
4.	Construction of Single Line BG Tunnel No. 7 & No 10	Assam	Northeast Frontier Railway
5.	Lumding to Lanka section I/c Lanka Bypass of NH-54 in Assam on East West Corridor under Phase-II (AS - 15)	Assam	NHAI
6.	Rehabilitation of Road from Pune Nagar Road Ramvadi Jakar Naka to New Pune Municipal Co. limit.	Maharashtra	New Pune Municipal Corporation