

## **Toshiba's Hydropower Equipment is under full-fledged Operation in NTPC's first prestigious Koldam Hydro Power Plant (4 x 200MW)**

Francis Turbines and Hydraulic Generators designed and developed by Toshiba Corporation along with Marubeni Corporation consummate full-scale commercial operations of Koldam Hydropower Electric Project in July 2015. Toshiba, as Technical Leader, was responsible for Technology and Design of Turbine and Generator and supplied the main critical products such as Runner, Generator parts etc. and commissioned the plant along with its main partner – Bharat Heavy Electricals Limited (BHEL). NTPC Limited, India's largest Central Government-owned energy service provider, had started commercial operation of all four units of 200MW each for Koldam HEP in Himachal Pradesh. Koldam Hydropower Electric Project is the first prestigious Hydro project of NTPC.

**Mr. Kenji Urai, Managing Director of Toshiba India Private Limited**, a representative company of Toshiba group in India said, "Toshiba Group is one of the world's leading suppliers of such kind of hydroelectric equipment. Through its technologies and product supply, Toshiba will continuously contribute to stable power growth in India."

As NTPC has started full-fledged commercial operation, the electrical power from Koldam HPP is supplied to the northern states in India including Delhi, Chandigarh, Haryana, Punjab, Rajasthan, Uttar Pradesh, Himachal Pradesh, and Jammu & Kashmir.

Recently, effective utilization of hydropower has returned to recognition worldwide, due to its high generating efficiency and low emission of CO<sub>2</sub> which is major contributor of global warming. Hydropower is one of the most economical sources of renewable energy, with the reduced maintenance cost as compared to thermal power and having the characteristics of coping with the rapid fluctuations in energy demand within minimal amount of time.

Toshiba Group has supplied over 2,200 hydraulic turbines with over 56,000MW and over 1,700 hydraulic generators with over 72,000MVA generating capacity around the world for over 120 years. In India, Toshiba delivered 4x10.5MW hydroelectric equipment to Umiam-I HEP in Meghalaya in 1965. Since then, the company has supplied and installed over 20 hydro turbines and over 30 hydro generators for 50 years in India.

## **About Toshiba**

Toshiba Corporation, a Fortune Global 500 company, channels world-class capabilities in advanced electronic and electrical product and systems into five strategic business domains: Energy & Infrastructure, Community Solutions, Healthcare Systems & Services, Electronic Devices & Components, and Lifestyles Products & Services. Guided by the principles of The Basic Commitment of the Toshiba Group, “Committed to People, Committed to the Future”, Toshiba promotes global operations and is contributing to the realization of a world where generations to come can live better lives.

Founded in Tokyo in 1875, today’s Toshiba is at the heart of a global network of over 580 consolidated companies employing 199,000 people worldwide, with annual sales surpassing 6.6 trillion yen (US\$55 billion). To find out more about Toshiba, visit [www.toshiba.co.jp/index.htm](http://www.toshiba.co.jp/index.htm)