29-Apr-2010

Engineering Excellence: BHEL registers significant increase in Intellectual Capital, files one patent a day

As a result of constant thrust on developing new technologies and products, Bharat Heavy Electricals Ltd. (**BHEL**) registered a 27% growth in its Intellectual Capital in FY 2009-10. The year witnessed filing of 264 patents & copy rights, marking filing of one patent / copyright every working day. During fiscal 2009-10, **BHEL** invested Rs. 8290 Million on R&D efforts - 20% higher than the previous year. With R&D spend at 2.4% of the turnover, **BHEL** is the highest spender on R&D in India for its kind of industry. Significantly, **BHEL** is one of the only four Indian companies and the only Indian Public Sector Co. figuring in â€˜The Global Innovation 1000â€™ of Booz & Co., a list of 1000 publicly-traded companies which are biggest spenders on R&D in the world. Commercialisation of products and systems developed by way of in-house Research and Development contributed around 20% to companyâ€™s total turnover of Rs. 340500 Million in 2009-10. To address the needs of infrastructure sectors of the economy, **BHEL** has successfully developed various products and systems. Significant developments during the year include, a new design variant of Condenser for 660 MW steam turbines having supercritical parameters, High Temperature Superconducting (HTSC) Power Transformer; highest rating, more efficient 310 MVA Single Phase Generator Transformer for upcoming Ultra Mega Power Projects, Current Transformer for 765 kV Ultra High voltage (UHV) transmission substations. These in-house developments will not only address the future needs but also result in enhancing product efficiencies, optimisation of designs and enhancing of functional capabilities, etc.. R&D and technology development are of strategic importance to the company as it operates in a competitive environment where technology is a major factor. **BHEL**'s long term R&D programme focuses on emerging technology areas such as Clean Coal technologies; Nano Technology; Hydrogen Energy Technologies; Superconducting applications and Solar technologies; products and systems for Ultra-high voltage transmission segment like 765 kV & 1200 kV for addressing Countryâ€™s future demands.