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BHEL achieves breakthrough in the Nuclear Power segment; Wins order for new rating, indigenously-developed 700 MWe Nuclear Sets based on Pressurised Heavy Water Reactors

Bharat Heavy Electricals Limited (**BHEL**) has achieved another major breakthrough in the nuclear power segment with an order for Steam Turbine Generators for new rating 700 MWe Nuclear Sets, based on Pressurised Heavy Water Reactors. Significantly, these will be the highest rating indigenously-developed nuclear sets in the country. Valued at over Rs.19,060 Million, the contract has been placed on the **BHEL-Alstom** consortium by Nuclear Power Corporation of India Limited (NPCIL) for its 2x700 MWe Rawatbhata Nuclear Power Station (Units 7&8), located in Rajasthan. In value terms, **BHEL**'s share in the contract is around Rs.12,070 Million. The **BHEL-Alstom** consortium will supply the turbine generator packages for the two new 700 MWe units at the power station. **BHEL** and Alstom shall together manufacture and supply the Steam Turbines while the manufacture and supply of the complete Generator, Moisture Separator Reheater (MSR) and Condenser including complete erection and commissioning of the Turbine Generator package shall be undertaken by **BHEL**. In addition to the above, NPCIL has also awarded a contract for supply and installation of Controls and Instrumentation for the Turbine Island Secondary Cycle System for the same project to **BHEL**. The project will contribute to India's plans to increase its nuclear capacity to 21 GW by 2020. With an existing installed capacity of 4,780 MW, nuclear power is currently the fourth-largest source of electricity in India after thermal, hydro and renewable energy. At present, India has 20 nuclear power plants in operation, generating 4,780 MW, with seven reactors under construction, expected to generate an additional 5300 MW. **BHEL** designed, manufactured and commissioned equipment accounts for around 69% of NPCIL's installed capacity of 4,780 MW in the country. The company has so far supplied state-of-the-art power generating equipment of various ratings corresponding to 3,280 MW for various nuclear power plants. NPCIL, as a utility, and **BHEL**, as an EPC contractor, have worked together on several NPCIL projects. **BHEL** is also presently executing several contracts for NPCIL including Supply and Erection of Turbine Generator Package in consortium with Alstom and supply & Installation of Control and Instrumentation for Turbine Island Secondary Cycle System on its own for 2x700 MW Kakrapar project in Gujarat. **BHEL** is also presently executing several contracts for NPCIL including supply of 8 nos. Steam Generator Packages for one reactor each at Kakrapar and Rawatbhata in Rajasthan for 700 MWe Plants. Further, **BHEL** is executing a prestigious contract for the supply, erection and commissioning of the complete conventional island for the first Prototype Fast Breeder Reactor (PFBR) of 500 MW rating, being set up by Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI) at Kalpakkam in Tamil Nadu. **BHEL** has been a major partner in NPCIL's vision to achieve self-reliance in nuclear energy. Its association with NPCIL began in 1970 with the development of technology and manufacture of prototype channel covers and heavy water headers. Over the years, **BHEL** has supplied various types of critical equipment on the primary side for several nuclear power projects in India. The development of indigenous vendors has ensured long term support to Nuclear power stations in case of problems and to facilitate easy availability of spares for the life of the plants. **BHEL** has been committed to the nation's power development programme and has reaffirmed its commitment to the Indian Power Sector by equipping itself by way of contemporary technology, state-of-the-art manufacturing facilities and skilled technical manpower. Significantly, the company has established the capability to deliver power plant equipment of 20,000 MW per annum.

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