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## **BHEL adds 736 MW Hydro Electric Capacity in the Country in 2014-15; Accounts for 100 per cent of India's Hydro Capacity addition in the Fiscal**

Bharat Heavy Electricals Limited (**BHEL**) has brought a turnaround in the hydro power sector by commissioning 6 hydro sets aggregating to 736 MW, accounting for 100 per cent of the hydro power capacity addition in the country during fiscal 2014-15. Notably, this is also the highest hydro capacity addition in a single year by **BHEL** in the last decade. The feat was achieved by successfully commissioning projects of three major Central utilities - NTPC, NHPC and SJVNL. The projects commissioned by **BHEL** include 2 units (200 MW each) of Koldam Hydro Electric Project (HEP), with which NTPC has made its maiden entry in the hydro sector. In addition, a 130 MW unit of NHPC's Parbati III HEP and 3 units of SJVNL's Rampur (68.67 MW each) were commissioned. Significantly, the two units of NTPC's 4x200 MW Koldam HEP were commissioned on consecutive days. The surface power house comprises 4 Francis turbines of 200 MW rating each, operating under a head of 131.2 metres. **BHEL** has the distinction of executing all the four hydro projects being presently developed by NTPC. Apart from Koldam, the other three hydro projects of NTPC, being executed by **BHEL**, are Tapovan Vishnugad HEP (4x130 MW), Lata Tapovan HEP (3x57 MW) and Rammam Stage-III HEP (3x40 MW). With the commissioning of the fourth unit of the 4x130 MW Parbati III HEP of NHPC, the 520 MW project has now become fully operational. **BHEL** has a long standing association with NHPC beginning with setting up of NHPC's first hydro generating plant at Baira Siul (3x60 MW) in 1981. **BHEL**'s contribution to NHPC's total generating capacity now stands at 1,884 MW. In addition, **BHEL** has commissioned the last three units of 68.67 MW each of Rampur HEP of SJVN Limited. The 412 MW Rampur HEP powerhouse comprising 6 units of 68.67 MW each, is designed to utilise the water that comes out after generation from Nathpa Jhakri HEP and is diverted to the intake of Rampur HEP through a tunnel. The power stations at Jhakri and Rampur are designed to be operated in tandem and the project does not require construction of a dam, reservoir capacity or additional land inundation. The project is equipped with 6 Francis turbines operating at a head of 119 metres. The generation from these HEPs will contribute towards reduction of the greenhouse gas emissions and will help in achieving a low carbon development path for the state as well as the nation. **BHEL** has also booked orders for two major hydro projects viz. Tehri Hydro Development Corporation India Limited's 4x111 MW Vishnugad Pipalkoti HEP and NTPC's 3x40 MW Rammam HEP Stage-III, aggregating to 564 MW during 2014-15. **BHEL** has so far successfully commissioned around 400 Hydro generating sets of various rating in the country, with a cumulative capacity of more than 19,600 MW. **BHEL** is presently executing hydro power projects of around 4,600 MW, which are under various stages of implementation.

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