

MAHARASHTRA STATE POWER GENERATION COMPANY LTD.**Bhusawal Thermal Power Station**

GRAM : 'POWERGRID' BHUSAWAL
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An ISO 9001:2000 QMS/
 ISO 14001 : 2004 EMS/
 OHSAS 18001 : 1999
 Certified Unit

Office of
 The Chief Engineer(O&M)
 Bhusawal Thermal Power Station
 Deepnagar, Tal. - Bhusawal
 Dist - Jalgaon (M.S.) PIN - 425307

Ref: BTPS/CE/TM-II/ P 0645

Date : 12.03.2012

19 MAR 2012

Appreciation Letter

Ref:1) BTPS/CE/TECH/PUR/ IT-21/2011/eT-8499 No. 6968 dtd. 14/07/2011.
 2) Letter No. Swati/MAHAGENCO/BHUSAWAL/12316 dtd. 19/11/2011.

This is to appreciate the sincere efforts put in by M/s. Swati Energy & Projects (P) Ltd., Mumbai, during the capital overhauling of 210 MW BHEL manufactured unit No.2, at BTPS.

We are pleased to record that, the COH work was carried out with utmost precision, proactive approach and discipline, in the presence of 2 Nos of Russian experts of OEM, arranged by M/s. Swati Energy & Projects (P) Ltd., Mumbai.

M/s. Swati Energy & Projects (P) Ltd., Mumbai carried out the following special jobs along with the routine COH work, which were carried out for the first time since the installation of the unit.

- 1) Use of Dynamometer to balance the load distribution on HP-IP cylinder.
- 2) Complete replacement of HPT/IPT sealing & packing strips of all stages at blade tips.
- 3) In-situ refurbishment of LPT diaphragm No. 27th & 31st stage.

The said unit is in operation for more than 25 years. Deformation was observed in the vertical keys of HP/IP casing, during cleaning of pedestal sliding surface at bearing No.2. This had caused load imbalance and also damaged the gland seals. This problem was rectified by use of Dynamometer and restoring proper thermal expansion of turbine casing. This has also helped in solving the vibration problem in turbine bearing No.2. The machine was put in service after COH on dated 17/10/2011 and is running continuously since then, without problem on turbine side.

We expect more such OEM technology support solutions from them to improve important parameters of our TG sets.

cfw
 Chief Engineer (O&M)
 MSPGCL, BTPS, Deepnagar.

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Work Completion Certificate

- Ref:1) COH PO No. BTPS/CE/TECH/PUR/ /T-21/2011/eT-8499 No. 6968 dtd.
 14/07/2011.
 2) Letter No. Swati/MAHAGENCO/BHUSAWAL/12316 dtd. 19/11/2011.

Capital overhauling work of Unit No.2, 210 MW LMZ design turbine set, at BTPS MSPGCL, is carried out by M/s. Swati Energy & Projects (P) Ltd., Mumbai from 26.08.2011 to 08.10.2011 [barring to barring] and unit was synchronized on date 17.10.2011.

Along with overhauling of HPT/IPT/LPT as per the scope of work, following critical jobs for which special repairs and restoration were carried out at site by M/s Swati Energy & Project (P) Ltd.

- 1) Middle pedestal restoration.
- 2) Repair of 27th & 31st stage diaphragm.
- 3) Replacement of damage stellite strips of 27th & 31st stage LP blades.
- 4) Replacement of HP/IP Glands.
- 5) Slow speed balancing of LP Rotor.

This capital overhaul was carried out under the supervision of Russian Experts from M/s. OJSC Power Machines, Russia.

The complete COH work is carried out within stipulated period and work is found satisfactory.

S/MD
 Chief Engineer (O&M)
 MSPGCL, BTPS, Deepnagar.