



# PPN POWER GENERATING COMPANY PRIVATE LIMITED

## 330 MW PPN POWER PLANT

09<sup>th</sup> September 2020

### PROJECT COMPLETION AND PERFORMANCE CERTIFICATE

**Equipment: Hyundai 6.6 KV, 1500 KW, 495 RPM vertical motor sl. no. 99MSTV0780 of CWP # 2**

**Reference: Work order no. PPGC/MM/804/204004, dt.15-May-2020, Amend 1 dt. 25.06.2020**

Our subject CWP motor #2 had an issue of increasing no-load current with the original no-load current of 70 Amps increasing to a high 90 Amps over the years. This issue was referred to Edison Electrical Works, Manalur, Chidambaram, India, for a solution.

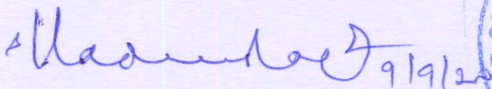
After detailed data analysis, Edison Electrical Works diagnosed the root cause of this increased no-load current was axial misalignment of stator and rotor cores without even opening the motor and recommended immediate dismantling of the motor to correct the problem. While these discussions were going on, the CWP motor #2 tripped on stator earth fault.

The work of dismantling the CWP#2 motor, repair of the motor and reassembly was awarded to Edison Electrical Works as per above referred work order. Upon dismantling the CWP #2 motor, the original assessment by Edison Electrical Works that the stator-rotor cores misalignment as the root cause for higher no-load current was found to be accurate. The stator core had moved down by over 225 mm as no locks for stator core+winding assembly was provided by OEM. This root cause also caused stator earth fault.

CWP #2 stator was transported to Edison Electrical Works and the rectification of stator-rotor core misalignment and the stator earth fault was successfully carried out by them within two weeks. The CWP #2 motor was reassembled and successfully commissioned on 2<sup>nd</sup> Sep 2020 on no-load in decoupled condition. Motor no-load current was restored to the original factory value of 70 Amps. The CWP #2 motor was coupled to the pump and commissioned successfully on full pump load (100% valve open) on 3<sup>rd</sup> Sep 2020 and the motor performance on load (of 150 Amps) was found to be fine with all electrical, mechanical and temperature parameters well within the limits.

This certificate is issued confirming the successful project completion of the repair of our CWP #2 motor by Edison Electrical Works, India, and in appreciation of their assessment and professional approach to successfully solving this perennial problem for us. We wish them continued success in all their future endeavours.

For-PPN Power Generating Company Pvt. Ltd.,



**B.Vadivelrajan**  
**Deputy General Manager (MM&C)**



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