	<p align="center">NLC TAMILNADU POWER LIMITED DEPARTMENTAL PROCEDURE MANUAL (Incorporating ISO 9001:2015, ISO 14001: 2015, ISO 45001:2018 & ISO 50001:2018) STANDARD OPERATING PROCEDURE</p>		
TITLE: - SOP for Checking Vacuum Pump Alignment		Doc. ID: NTPL/AHD/ SOP-13	
Issue No.: 01	Issue date: 06.11.2018	Revision date: 13.12.2024	Revision No.: 01

1.0 PURPOSE:

To describe the procedure for checking vacuum pump alignment.

2.0 SCOPE:

Checking vacuum pump alignment in Ash Handling Division of NTPL.

3.0 RESPONSIBILITY:

Operation and Maintenance Engineer.

4.0 INPUT:


Defect log from Ash Handling Division Operation Team.

5.0 OUTPUT:

Availability of Equipment.

6.0 ACTIVITIES:

- Manually rotate the spare vacuum pump shaft to ensure free rotation.
- Shift the pump to the selected bed using hoists.
- Check the horizontal level alignment of the pump base using a water level tube.
- Check the alignment between the flywheel and motor pulley using a thread.
 - The thread should touch both surfaces (flywheel and pulley) with no visible gap
 - If no gap is observed, the alignment is correct.
- Then, top header and bottom header to be fixed.
- Install the elbow with laying gasket.
- Then, tighten all bolts and nuts.
- Connect the seal water line to the system.
- Check that seal water freely circulates inside the pump and seal water is discharged freely from the silencer.
- Set seal water pressure to the required level.
- Inform the PLC operator to take the trial run.
- Check for any problems in the pump and motor during the trial.

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- Check motor amps in the electrical department for correct operation.
- Finally, check the shutoff pressure.

7.0 RECORDS:

Record No	Record Title	Location	Responsibility	Retention Time
NTPL/AHD/R-09	Daily Maintenance Log	Site Office	Site In-charge	3years

8.0 VERIFICATION, CORRECTIVE AND PREVENTIVE ACTION:

HOD shall ensure adequacy and implementation of the above procedure through periodic interaction with division personnel, and regular review and monitoring of the process and compliances. In case of any observed deviation, correction and preventive action shall be immediately undertaken.

PREPARED BY	REVIEWED BY	APPROVED BY
		
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