	<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 - Finding IAC leakage in total system		Doc. ID: NTPL/AHD/SOP-10	
Issue No.: 01	Issue date: 06.11.2018	Revision date: 13.12.2024	Revision No.: 01

1.0 PURPOSE:

To describe the procedure for Finding Instrument Air leakage in total system.

2.0 SCOPE:

Finding instrument air leakage in our total system of 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 Instrument air for AHS division.

6.0 ACTIVITIES:

- PLC Operator informs that instrument air pressure is too low to run the system.
- Check Instrument air compressors for any visible leakage, any warnings or alarms.
- In leakage is detected, inform the operator and turn off the compressor.
- Apply the LC by Shift In-charge.
- Then, arrest the leakage on the compressor side.
- If there is no problem in compressor side, leakage will be checked in field.
- All ISH instrument air pipelines, cylinders, solenoid valves, C&I panels, purging lines and receiver tanks to be checked carefully.
- If any leakage is found, it will be arrested.
- All ESP hopper instrument air pipelines, cylinders and solenoid valves to be inspected, if any leakage is found, then it will be arrested.
- Ask the operator to verify if the instrument air pressure has improved.
- If instrument air pressure has not improved, then repeat the procedure to identify and arrest any remaining leaks.

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- Finally, once pressure is confirmed to be within range, inform the operator and system can be taken into service.
- Ensure the working area is cleaned and all tools/materials are properly stored after completion of work.

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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