



MECHANICAL SOP

Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MEC/10
Issued By: S & P		Approved By: Head – Mech	
Mechanical Maintenance of Equipments			

MAINTENANCE OF AIR SLIDE FAN & LUBRICATION OF AIR SLIDE FAN

Scope: to repair the air slide fan & replacement of bearings

Responsibility: Maintenance Technician

Accountability: Mechanical-Section Engineer

PPE:

1. Safety helmet
2. Safety shoe
3. Mask

TOOLS:

1. Required Tools

Hazard Analysis:

Risks associated:

Mitigating Measures

Rotation of the Equipment

Electrical Hazard;

Can be operated from remote

Engagement of clutch:

Inter lock to be ensured

Training needs:

1. Usage of tools and Nature of Hazards
2. Usage of PPEs

Procedure:

1. Line clearance to be taken for air slide fan.
2. Switch off the air slide fan.
3. Isolate the air slide fan drive coupling & air slide fan shaft coupling.
4. Remove the pin & bush coupling/spider/tyre coupling/ etc.,
5. Dismantle the Plummer block top covers.
6. Dismantle the cover for the air slide fan impellor.
7. Remove the coupling & separate the shaft & impellor.
8. Check for scoring marks on the shaft & confirm.
9. Remove the coating inside the impellor & repair for any cracks.
10. Assemble the shaft with bearings and impeller and check for static balance.
11. Couple the fan with drive motor and check for final alignment.
12. Confirm the lubrication of the new bearings & return the line clearance.
13. Trial run & observe for any abnormalities & run on load.



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Emergency / Emergency Shut OFF:

1. If any injury is there, and inform to the Security Havildar / safety department or call
Emergency number 516 / 222 / 523/9865177444

Records/Annexure:

1. Maint. Of Air slide fan procedure
2. JSA is enclosed below.

JOB SAFETY ANALYSIS:(JSA)

Job Safety Analysis	Job: Maint. Of Air slide fan	Date:	Analysis by:	Reviewed by:
Title of employee doing job:	Supervisor: Section Supervisor	Department: Mechanical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety helmet, Safety shoe, & Safety belt.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action



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Remove impellor.	Hit injury	Proper chain block arrangements	Usage of Improper arrangements	Ensure the proper arrangements
Trial run	Hit injury	Proper tightening of coupling bolts and ensure the cover bolt tight and any foreign particle inside housing	Impeller get cracks	Before LC clearing to confirm bolt tightening of coupling bolts and check the housing.

HEAD MECHANICAL

HEAD TECHNICAL