WORK INSTRUCTION FOR GRINDING

Objective Safe grinding procedure

Scope Boiler, Turbine and other Plant areas

Responsibility  Engineer in charge and workmen at job

PPEs Helmet, Safety shoes, Hand gloves, Dust mask, and Safety goggles

Aspect-Impact

Generation of scrap Land contamination

Noise generation air pollution

Hazards Identified

Mechanical Hazard Contact, Entanglement, Impact, Cut injury

Physical Hazard Electric shock

Ergonomic hazard improper grinding posture

Human behavior Non use of PPEs, Alcoholism

Procedure

Only trained and authorized personnel will carry out grinding activity.

Grinding machines to be used for Grinding should be certified by Company's Authorized Representative.

While grinding ensure that there is no man or combustible material within 5 meter range.

Before fixing the grinding/cutting wheel on the machine, following things will have to be ensured.

Do’s

Guard on the machine is in good condition. Expiry date of the wheel is marked on the wheel. Any wheel beyond the expiry date shall not be used under any circumstances.

Speed marked on the wheel should be greater than or equal to speed of the machine. Under no circumstances, machine with higher RPM shall be used with a wheel of lower RPM.

Cable to be checked for any damages.

Scrap material to be collected & stored in allocated places.

Use proper tool for removing the grinding wheel.

Wheel used should clearly mention RPM, Expiry Date, Size. Preferably Bosch, KPT wheels to be used.

Don’t

Remove guard from grinding machine.

Do not over tighten the grinding wheel.

Do not tap or hammer or force the grinding wheel on shaft.