**Work Instruction for Welding work**

Objective Safe Gas cutting procedure

Scope Boiler, Turbine and other Plant areas

Responsibility  Engineer in charge and workmen at job

PPEs Welding Helmet, Safety shoes, Safety goggles, safety hand.

gloves, ear plugs, nose mask and apron (fire retardant cloth) if

necessary.

Aspect-Impact

Fume generation Air pollution

Scrap generation Resource depletion

Hazards Identified

Mechanical Hazard Trapping,

Physical hazard Noise, Heat, electrical shock, Exposure to UV and IR radiation

Human behavior loose connections, Non use of PPEs, Alcoholism

PRECHECKS

Welding Machine and cable should be certified by Vedanta Authorised representative.

Condition of welding cables no joints to be allowed and proper end connection.

Condition of power cables no joints to be allowed and proper end socket connection.

Checking of RCCB working before using welding machine.

Condition of holder and machine earthing connections.

PROCEDURE

Shift the welding machine properly in required space and covered properly.

Connect the all welding, earthing and power cables as required.

Switch on the power of welding machine, check the required current and arrange the earthing.

Wear the safety welding helmet, hand gloves and if required apron.

Before starting the welding work ensure the surrounding area to be clear, free form explosions and make the availability of fire extinguisher.

Adjust the current during welding work as required/as instructed by welder.

After completion of work switch off the main supply and remove all connections.

Clean and shift the welding machine and its accessory including safety goggles, chipping hammer, wire brush and hand gloves in to proper designated place in work shop.