	VEDANTA LIMITED – VALUE ADDED BUSINESS	Format No.:	VL/IMS/PP2MECH/WI/18
	INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05.04.2021
	<u>Work instruction for Boiler feed water line valve work</u>	Revision No.:	02
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Objective : Boiler Feed Water Line valve fitting
Scope : Power plant
Responsibility : Engineer in charge and workmen at job
PPEs to be used : Helmet, Safety shoes, safety hand gloves, ear plugs and nose mask

Aspect-Impact

- Fumes, Temperature Health impact
- Steel Scrap Resource Depletion

Hazards Identified

Mechanical Hazard	Falling of object, falling from height
Physical hazard	Temperature
Electrical hazard	Electric shock
Human behavior	Improper housekeeping, Non use of PPEs, Alcoholism, Height phobia

Safety precautions :

- Avoid using mobile phone while working.
- Use appropriate tools required for the job.
- After job always do proper housekeeping.
- Always prevent body from line of action of force.
- Perform proper communication verbal and non-verbal as required.
- Cotton hand gloves, nose mask, white/black goggles should be used
- Proper checking of Welding machine, gas cutting set, grinding, cut off, flexible grinding machine, etc. to be done.


PRECHECKS:-

- Take work permit
- Ensure that feed pumps all discharge valves must be closed.
- Ensure feed water temperature is below 50 degree & PRESSURE IS ZERO.
- Ensure feed pump must be rack out.

PROCEDURE:-

- Before get the clearance from operating department shift the all required material like welding machine, gas cutter, grinding machine, all tools and inform to electrical department for giving connections.
- Open insulation of the line for cutting the pipe.
- Ensure that all line will be drained completely.
- After draining the full line with the help of cutting set cut the line.
- With the help of grinding make v shape on the cutting edge.

Prepared & Reviewed:	Approved:	Issued:
HOD – Mech – PP	Head – Power	MR
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- Position the new valve and start welding the joint.
- After completing the joint do proper cooling of the same.
- Remove the all machines/ tools / waste and shifted to proper designated areas.
- Close the work permit and hand over the operation for leakage testing.

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