	VEDANTA LIMITED – VALUE ADDED BUSINESS	Format No.:	VL/IMS/PP2/MECH/WI/17
	INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05.04.2021
	<u>Work instruction for MCW valve repair work</u>	Revision No.:	02
		Page No.:	1 of 2

Objective: - Removing of MCW pump discharge valve and refitting
Scope: - power plant Accessories
Ref.: - valve maintenance manual
Responsibility: - Engineer In charge & Fitter on job
PPE's to be used: Helmet, Safety shoes, Hand gloves and complete sealed goggle

Aspect, impact

Waste Generation Land contamination & Resource Depletion

Hazards identified

Mechanical hazard -

1. Fall of valve on feet, hand while shifting
2. Entanglement while operating , shifting the valve
3. Fall of valve while keeping in vertical
4. Human behavior aspect of operators : Operator nature, alcoholism, casual approach & non usage of PPE's
5. Back Pain due to improper handling

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.

Procedure


Work No 1: Valve dismantling

- Take proper work permit of MCW pump
- Insure valve must be closed condition during starting of the work
- Make proper stand for attaching the chain block and fixed chain block at center of the valve by giving slide tension.
- Remove one by one all bolts.
- Remove the valve by pushing from one side and down the chain block.
- Rest the valve outside the pipe line

Work No 2: Valve assembling

- After completing the pipe line job cut the gasket and shift the valve with the help of chain block.

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		Page No.:	2 of 2

- Make proper position of the valve and put all bolts.
- Insure that all bolts will be properly tightened.
- After that close the work permit.

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