	VEDANTA LIMITED – VALUE ADDED BUSINESS	Format No.:	VL/IMS/PP2/MECH/WI/11
	INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05.04.2021
	<u>Work instruction Welding procedure</u>	Revision No.:	02
		Page No.:	1 of 2

Objective: Welding
Scope : Entire plant
Responsibility : Engineer in charge and workmen at job
PPEs to be used: Helmet, Safety shoes, safety hand gloves, ear plugs, nose mask , Leather apron, leather hand gloves, goggles, face shield, welding shield and Leather arm

Aspect-Impact

Scrap generation Land contamination
 Fire Air Pollution

Hazards Identified

Mechanical Hazard Tripping,
 Fall from height,
 Entangling between moving parts
 Fall of spares, tools, material etc
 Chemical hazard Fire & explosion, Fumes
 Physical Hazard Temperature, Radiation
 Electrical Hazard Electrocutation
 Human behavior improper housekeeping, Non use of PPEs, Alcoholism, over confidence, negligence, 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.


PRECHECKS:-

- 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.
- Condition of holder, Holder should be fully insulated 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.

Prepared & Reviewed:	Approved:	Issued:
HOD – Mech – PP	Head – Power	MR
05.04.2021	05.04.2021	05.04.2021

	VEDANTA LIMITED – VALUE ADDED BUSINESS	Format No.:	VL/IMS/PP2/MECH/WI/11
	INTEGRATED MANAGEMENT SYSTEM	Revision Date:	05.04.2021
	<u>Work instruction Welding procedure</u>	Revision No.:	02
		Page No.:	2 of 2

- Before starting the welding work ensure the surrounding area to be clear, free from explosions and make the availability of fire extinguish.
- 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.
- All the Welding butts to be cleaned and shifted to proper designated place

Prepared & Reviewed:	Approved:	Issued:
HOD – Mech – PP	Head – Power	MR
05.04.2021	05.04.2021	05.04.2021