

Hazard Identification, Risk Assessment And Risk Control Register (HIRA)														Page No.						
Activity	Sub-Activities	E	R / NR	Hazard	Risk	Legal	Probability	Consequence	Resultant	Risk level	Sig. Hira No.	Priority No.	Objective No.	Additional Controls						
														Operational Control						
														E	S	EC	W	P	OCP No	MP No
Fettling																				
Filing	Collect the castings after heat treatment by manual moving trolley.		R	Sprain due to manual handling of the trolley.	Sprain		2	2	4	M										
			R	Fall of material on the level	Incident		2	2	4	M										
	Fixing the casting inside the bench vice		R	Sharp edges that may contact with skin	Cut injury		2	2	4	M										
	Removal of the unwanted material with the help of file and chisel		R	Sliding of hand between stationary and movable part.	Cut injury		2	2	4	M										
			R	Fall of casting from height	Foot injury		2	1	2	L										
			R	Slipping of tool	Injury		2	1	2	L										
	After completion of filing Keep the casting in the designated bin.		R	Fall of casting	Foot Injury		2	1	2	L										
	Collect the chips.		R	Chips may contact with skin	Cut injury		2	2	4	M										
			R	Burr may inhale	Respiratory inhalation		2	1	2	L										
	Disposal of chips		R																	
Gate cutting (Band saw)																				

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	Receive the castings from the GDC department by fork lift.	R	Fall of casting	Foot Injury		2	1	2	L										
		R	Site transport	Incident		2	2	4	M										
	Keep the casting on table.	R	Manual handling of the casting	Sprain		2	1	2	L										
		R	Sharp edges that may contact with skin	Cut injury		2	2	4	M										
	Switch on the machine	R	Exposure to electrical energy	Electric shock		2	1	2	L										
	(A)Push the casting against the vertical moving blade.	R	Sharp edges that may contact with skin	Cut injury		2	2	4	M										
		R	Slipping of the casting	Cut injury		2	2	4	M										
		R	Sliding of hand between stationary and movable part.	Cut injury		2	2	4	M										
		R	Hot casting may contact with skin	Burn		1	1	1	L										
	After completion of gate cutting remove the casting, runner and risers and deposit in the respect bin.	R	Sharp edges that may contact with skin	Cut injury		2	2	4	M										
Fettling																			
Filing	Collect the castings from band saw	R	Fall of casting	Incident		2	1	2	L										
	Fixing the casting inside the bench vice	R	Sharp edges that may contact with skin	Cut injury		2	2	4	M										
	Removal of the un wanted material with the help of file	R	Sliding of hand between stationary and movable part.	Cut injury		2	2	4	M										
		R	Fall of casting from height	Foot injury		2	1	2	L										

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Proprietor

	Keep the casting in the designated bin.	R	Manual handling of the casting	Sprain	2	1	2	L												
	Collect the burr.	R	Burr may contact with skin	Cut injury	2	1	2	L												
		R	Burr may inhale	Respiratory inhalation	2	1	2	L												
Grinding		R																		
Belt grinder	Collect the castings from filing	R	Fall of casting	Incident	2	1	2	L												
	Switch on the belt grinder.	R	Exposure to electricity	Electric shock	2	1	2	L												
	Hold the casting against the abrasive wheel.	R	Sliding of hand between stationary and movable part.	Cut injury	2	2	4	M												
		R	Burr may contact with eye	Eye injury	2	1	2	L												
		R	Burr may ingest through mouth	Respiratory inhalation	2	1	2	L												
		R	Al dust may inhale	Respiratory inhalation	2	1	2	L												
	Keep the casting in the designated bin.	R	Manual handling of the casting	Sprain	2	1	2	L												
		R	Hot casting may contact with skin	Burn	2	1	2	L												
	Collect the burr.	R	Burr may contact with skin	Cut injury	2	1	2	L												
		R	Burr may inhale	Respiratory inhalation	3	1	3	M												
Pneumatic grinder		R																		
	Collect the castings for grinding	R	Fall of casting	Incident	2	1	2	L												
	By the application of pneumatic grinder remove the un wanted material.	R	Al dust may inhale	Respiratory inhalation	2	1	2	L												

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		R	Slipping of tool	Cut injury	2	2	4	M											
		R	Burr may fall in the eye	Eye injury	2	1	2	L											
	Keep the casting in the designated bin.	R	Manual handling of the casting	Sprain	2	1	2	L											
	Collect the burr.	R	Burr may contact with skin	Cut injury	2	1	2	L											
		R	Burr may inhale	Respiratory inhalation	2	1	2	L											
	R NR	Routine	P	Probability	RISK LEVEL			L	Low	H	High								
		Non-routine	C	Consequences				M	Medium	E	Emergency								

Rating	POO	Injury	Illness
1	UNLIKELY	Injury not calling for	Illness having momentary discomfort
2	LIKELY	Injury calling for first aid	Illness due to acute exposure or hospitalisation for
3	VERY LIKELY	Injury leading to temporary/	Illness due to chronic exposure having last long effect.

POO - Probability of Occurrence

MATRIX		
3	3/M	6/H
2	2/L	4/M
1	1/L	2/L
	1	2
	Probability	

Abb	Description	Input For
E	Elimination	MP
S	Substitution	MP
EC	Engineering Control	MP
W	Warnings/Signage/Admin Control	OCP
P	Personal Protective Equipments	OCP

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 Proprietor