		Ĺ													_					1
				н	azard Ide	entificatio	n, Risk Assess	ment And	Risk Cont	rol Regi	ister (HIRA)							Page No.		
Activity	Sub-Activities	E	R/NR	Hazard	Risk		Probability	Consequ	Resulta	Risk	Sig. Hira	Priori	Objecti ve No.					Additional Control		
Activity	Sub-Activities	E	R/NR	Hazard	KISK	Legal	Probability	ence	nt	level	No.	ty No.		E	S	EC		OCP No	MP No	_
Melting																				
Receiving of ingots and rej	Requisition given to stores .		R																	
from stores		H															+			-
	Transfer the ingots bundle and rejection by forklift to melting.		R	Site transsport	1	Incident		2	2	4	м									
			R	Fall of material on the level	2	Incident		2	2	4	м									
			NR	Wetting of material due to rain	3	Incident		2	2	4	м									
Charging into the melting furnace.	Cut the ingots strip		R	Strip may contact with skin	4	Cut Injury		2	2	4	м									
	Lift the ingots with hands(manual lifting) and throw it into the furnace.		R	Manual lifting of Al ingots	5	Sprain		2	2	4	м									
			R	Fall of ingot/rej casting from height	6	Foot Injury		2	2	4	м									
	Lift the ingots with hands(manual lifting) and put it in trolley		R	Manual lifting of Al ingots	7	Sprain		2	1	2	L									
			R	Fall of material on the level	8	Foot Injury		2	1	2	L									
Melting operation	Put oily cotton inside the furnace	П	NR	Oily cotton may contact with skin	9	Skin irritation		2	1	2	м				П		1			
		П	NR	Smoke that may inhale	10	Kespirat ory inhalatio		2	1	2	м				H					$\top$
	Keep the fire	H	NR	Fire & explosion	11	Incident		2	2	4	м				H		+			
		Н	NR	High noise	12	Partial		2	2	4	м				H		$\dagger$			
						deafness											+			+
	Starting of the Melting furnace blower Furnace oil pump and burner&Exhaust blower and Scrubber pump		R	Exposure to electrical energy	13	Electric shock		2	2	4	м									
	Adjustment the flame.		R	Fall of person on the level	14	Body injury		2	2	4	м									
	Melt the charge.		R	Exposure to heat radiation	15	Skin irritation/ Dehydrat		2	2	4	м									
	Wrapling the charge with scrapper		R	Exposure to heat radiation	16	Skin irritation/ Dehydrat ion		2	2	4	м									
		Н	R	Molten metal may contact with skin	17	Bum		2	2	4	м						1			
	Take the molten metal sample into the sampling cup with spoon.		R	Fall of molten metal	18	Bum		2	1	2	L									
		П	R	Exposure to heat radiation	19	Skin		2	1	2	L				П		1			
	Quench the solidified sample in water		R	Hot sample may contact with	20	Burn		2	1	2	L				H		+			_
Sanatan anahain	Collect the Argon cylinder from stores.	Н	R	skin Fall of cylider	21	Injury		2	2	4	м						+			-
Specio maryas																	+			1
	Store the cylinder in site.  Scratch surface of the sample on table belt	H	R	Fall of cylider	22	Injury		2	1	2					H		+			-
	grinder	H	R	Slipping of the tool	23	injury		2	1	2	L				$\mathbb{H}$		+			-
		Н	R	Chips may contact with eye	24	injury		2	2	4	М				Н		+			1
		H	R	Slipping of the Job	25	Incident		2	1	2	L				$\parallel$	_	1			_
	Analyse the sample	Ц	R							0					Ц		1			_
	Print the report	Ц	R							0					Ц		1			
Temperature measurement	Measure the temperature with thermocouple.	Ц	R	Exposure to heat radiation	26	Skin irritation		2	1	2	L									
	Switch off the blower and burner	Ц	R	Exposure to electrical energy	27	Electric shock		2	1	2	L				Ц					1
Preheating of the laddle.	A)Connect the preheating burner to the supply(LPG and air)		NR	Manual handling of the burner	28	Incident		2	2	4	м									
	Keep the laddle in right position	Ц	NR	Hot laddle may contact with skin	29	Burn		2	2	4	М									
	Put the burner above the laddle(Preheating stand)		NR	Manual handling of the burner	30	Incident		2	1	2	L									
	Put the fire manually	П	NR	Fire & explosion	31	Incident		2	2	4	м									
	Open the LPG Cylider and Air valve	П	NR	Fire & explosion	32	Incident		2	2	4	м				П					
	Regulate the LPG and Air flow.		NR	Fire & explosion	33	Incident		2	2	4	н									
	After completion of pre heating close the valves of LPG and air supply.		NR	Fire & explosion	34	Incident		2	2	4	м									



	I										_		T	
	Remove the burner and keep in their respective place.	NR	Burner may contact with skin	35	Bum	2	1	2	L					
	Cover the laddle with Ceramic blanket	NR	Blanket may contact with skin	36	Skin irritation	2	1	2	L					
	B)Plug in Electrical Preheated Laddle& Switch on	R	Exposure to electrical energy	37	Electric shock	2	2	4	м					
Tapping of the liquid metal	Bring the pre heated laddle nearer to the pouring spout with crane	R	Exposure to heat radiation	38	Skin irritation	2	1	2	L					
	Keep the laddle in right position	R	Exposure to heat radiation	39	Skin irritation	2	1	2	L		+			
	Tapping of the liquid metal into the laddle from the farmace.	R	Fall of molten metal	40	Bum	2	2	4	м					
		R	Manual handling of the furnace	41	Sprain	2	2	4	м					
		R	Fire	42	Incident	2	2	4	н		T	Ħ		
Cleaning of the melting Furnace.	Put coveral-5 over the melting furnace walls.	R	Fumes may inahale	43	Respirat ory inhalatio	2	2	4	м					
	Scrap the walls with the help of scrapper.	R	Preheated scrapper may contact with skin	44	Bum	2	2	4	м					
	Remove the dross with the help of skimmer in designated bin.	R	Fall of dross	45	Bum	2	2	4	м					
		R	Manual handling of the dross	46	Sprain	2	2	4	м		$^{\dagger}$	Ħ		
		R	Fumes may inahale	47	Respirat ory inhalatio	2	2	4	м					
Degassing	Collect the Nitrogen cylinder from stores.	R	Fall of cylinder	48	Foot Injury	2	1	2	L		1	Ħ		
	Store the cylinder in site.	R	Fall of cylinder	49	Foot Injury	2	2	4	м					
		R	Explosion of the cylinder	50	Incident	2	2	4	м					
	Transfer the laddle to degassing station with crane or Forklift.	R	Exposure to heat radiation	51	Skin irritation	2	1	2	L					
	Put the laddle in designated place for degassing.	R	Exposure to heat radiation	52	Skin irritation	2	1	2	L					
	Put Coveral flux to the melt	R	9)Fumes may inhale	53	Respirat ory inhalatio	2	1	2	L					
	Mix thoroughly with skimmer and remove the dross into the dross bin	R	11)Fall of dross on body	54	Bum	2	2	4	м					
		R	14)Manual handling of the dross	55	Sprain	3	1	3	м					
		R	9)Fumes may inhale	56	Respirat ory inhalatio	2	2	4	м					
		R	13)Exposure to heat radiation	57	Skin irritation	2	1	2	L		1	Ц		
		R	11)Splashing of the molten metal may contact with skin	58	Bum	2	1	2	L					
	Bring the degassing machine arm of the degassing machine to working position.	R	Manual handling of the machine	59	Sprain	2	1	2	м					
	Open the nitrogen cylinder with key.	R	Gas may inhale	60	Respirat ory inhalatio	2	1	2	м					
	Adjust the cylinder pressure ,working pressure and nitrogen flow.	R	Explosion of the cylinder	61	Incident	2	2	4	м					
	(a)Keep the machine in auto mode.	R	Exposure to electrical energy	62	Electric shock	2	1	2	L					
	Start the machine.	R	Fall of molten metal due to stirring action	63	Bum	2	1	2	м					
	Add GR 510,GR 2815 and Mod alloy to the melt.	R	Exposure to heat radiation	64	Skin irritation	3	1	3	м					
	After completion of the degassing clean the degassing rotor	R	Exposure to heat radiation	65	Skin irritation	3	1	3	м					
	Close the nitrogen cylinder valve with key.	R	Gas may inhale	66	Respirat ory inhalatio	3	1	3	м					
	Keep the degassing machine arm in idle position.	R	Manual handling of the machine	67	Sprain	3	1	3	м					
	Transfer the molten metal to LPDC/GDC with fork lift or crane.	R	Exposure to heat radiation	68	Skin irritation	3	1	3	м					
		R	Fall of metal from height	69	Bum	2	2	4	м			$\dagger$		
		R	Metal in contact with skin	70	Bum	2	2	4	м			Ħ		
		R	Manual handling of the laddle	71	Sprain	2	2	4	м					
	(b)Keep the machine in manual mode.	NR	Exposure to electrical energy	72	Electric shock	2	1	2	м					
	Down the degassing rotor into the molten metal.	NR	Splashing of the molten metal that may contact with skin	73	Bum	2	2	4	м					
	Start on the rotation of the rotor.	NR	Spillage of the molten metal	74	Bum	2	2	4	м					
	Set the RPM of the rotor.	NR	Exposure to electrical energy	75	Electric shock	3	1	3	м					



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	Add GR 510,GR 2815 and Mod alloy to the melt.		NR	Exposure to heat radiation	76	Skin irritation		3	1	3	м							
	After completion of the degassing stop the rotation of the rotor.		NR	Exposure to heat radiation	77	Skin irritation		3	1	3	м							
	Up the degassing rotor.		NR	Exposure to heat radiation	78	Skin irritation		3	1	3	м							
	Clean the degassing rotor		NR	Exposure to heat radiation	79	Skin irritation		3	1	3	м							
	Close the nitrogen cylinder valve with key.		NR	Gas may inhale	80	Respirat ory inhalatio		3	1	3	м							
	Keep the degassing machine arm in idle position.		NR	Manual handling of the machine	81	Sprain		3	1	3	м					Ī		
	Mix thoroughly with skimmer and remove the dross into the dross bin.		NR	Fall of dross	82	Bum		2	2	4	м							
			NR	Manual handling of the dross	83	Sprain		3	1	3	м							
			NR	Fumes may inahale	84	Respirat ory inhalatio	1	3	1	3	м							
			NR	Exposure to heat radiation	85	Skin irritation		2	2	4	м							
			NR	11) Splashing of the molten metal may conatct with skin	86	Burn		3	1	3	м							
	Transfer the molten metal to LPDC/GDC with fork lift or crane.		R	Exposure to heat radiation	87	Skin irritation		3	1	3	м							
		J	R	Fall of metal from height	88	Bum		2	2	4	м				J			
				Metal contact with skin	89	Bum		2	2	4	м							
			R	Manual handling of the laddle	90	Sprain		3	1	3	м							
Density checking machine(Vaccum tester)	Switch on the density checking mackine(.vaccum tester)		R	Exposure to electrical energy	91	Electric shock		2	1	2	L							
	Open the lid of the vaccum chamber.		R	Manual handling of the lid	92	Sprain		2	1	2	L							
	Take the molten metal with spoon and pour it in the sampling cup kept inside the chamber.		R	Fall of molten metal	93	Bum		2	1	2	L							
			R	Exposure to heat radiation	94	Skin irritation		2	1	2	L							
	Switch on the vaccum		R	Exposure to electrical energy	95	Electric shock		2	1	2	L							
	Close the lid of the vaccum chamber		R	Manual handling of the lid	96	Sprain		2	1	2	L							
	After completion of cycle time open the lid and remove the sample.		R	Manual handling of the lid	97	Sprain		2	1	2	L							
	Quech the sample and visually inspect the suirface of the sample.		R	Hot sample may contact with skin	98	Bum		2	1	2	L							
Degassing rotor changing	Removal of the damaged rotor in hot Condition with pipe wrench.		R	Exposure to hot environment	99	Bum		2	1	2	L							
	keep the damaged rotor in dust bin.		R	Manual handling of the damaged rotor(Hot rotor)	100	Bum		3	1	3	м							
	Hold the rotor holder with hand .		R	Manual handling of the holder	101	Incident		3	1	3	м							
	Replacing of the rotor with preheated rotor.		R	Manual handling of the preheated rotor	102	Bum		3	1	3	м							
	Check the threads of the rotor		R	may contact with skin	103	Cut injury		3	1	3	м							
	Keep the rotor into the holder and threading up with hands.		R	Manual handling of the damaged rotor(Hot rotor)	104	Bum		3	1	3	м							
	Hold the degassing rotor with chain above the metal in H.F.		NR	Exposure to heat radiation	105	Skin irritation		3	1	3	м							
	Dip the preheated rotor into the metal		NR	Splashing of the molten metal may conatct with skin	106	Bum		2	2	4	м							
	Keep the rotor in molten metal until the metal is removed or remove the degassing rotor from the molten metal and poking with the rod.		NR	Exposure to heat radiation	107	Skin irritation												
	After cleaning the rod clean the area and keep the rotor in designated place		NR	Manual handling of the cleaned rotor(Hot rotor)	108	Burn												
Lining of the melting furnace	Removal of the old lining	T	NR	1)Fall of bricks on working level	109	Cut		2	2	4	м							
	Lining with new material		NR	1)Fall of bricks on working level	110	Cut		2	2	4	м							
Storage of consumables(flux es)	Receive the consumable items from stores.		R	Fall of consumables	111	Incident		2	1	2	L							
Disposal .	Collection of damaged stalks		R	Fall of stalk	112	Foot Injury		2	1	2	L							
	Collection of empty plastic bags		R	Residue may contact with skin	113	Skin irritation		2	1	2	L							
			R	Residue may ingest through mouth	114	Omitting		2	1	2	L							
	Collection of empty cylinders		R	Cylinder may fall on the foot	115	Injury		2	1	2	L							
Power hack saw operation	Clamp the blade		NR	Sharp edges may contact with skin	116	Cut injury		2	2	4	м							
												-		_				



March   Professor of our was the following of flower of																	_			
Mode for function of the State Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Fix the Job to be cutted		NR	Slipping of the material	117	Cut injury		2	2	4	м								
Adamenyation of the question step for control state		Switch on the machine		NR	Exposure to electrical energy	118			2	2	4	м								
Market Ma		Adjust the speed of the machine		NR	Manual handling	119	Sprain		2	1	2	L								
Note the standard of the stand		After completion of the operation stop the machine		NR	Exposure to electrical energy	120	Electric shock		2	2	4	м								
March   Professor of our was the following of flower of		Remove the blade		NR	Sharp edges may contact with skin	121	Cut injury		2	2	4	м					T			
Down the control with the death.   Fig.   Expense to the antible   125   Section	Dross Reclamination	Put the wet dross into the bucket.		R	Falling of dross	122	Burn		3	2	6	н	1	2				1	EOHS/OCP/28	
Note the sentifical state the decision of the results of the res				R	Exposure to heat radiation	123			3	1	3	м			T		T			
Note the relations of the cases   No.   Separate the description compton   10   Service   No.		Down the ram(Fork) into the dross.		R	Exposure to heat radiation	124			3	1	3	м								
R   Personany substance   128   Control   Parameter   129   Control   Parameter   12		Start the rotation of the ram.		R	Exposure to electrical energy	125	ution		3	1	3	м					T			
Sum the blower    R   Frame many include   120				R	Fumes may inahale	126	Respirat ory inhalatio	Р	3	1	3	м	2	1				-	EOHS/OCP/28	
Sear the blower    R   Superant we described recogn   120				R	In adequate thermal environment	127	stroke		3	1	3	м					T			
After completions of the process step the manufaction of the growth and marked with the marked		Start the blower		R	Fumes may inahale	128	Respirat ory inhalatio	Р	3	1	3	м	3	1				•	EOHS/OCP/28	
entioned filter from a content of the zeros.  R Pursus now jouthhale  131 Symptote for the content of the zeros.  Reporter to heart reduction.  132 Sections  Stop the belower  Culfect the motal into the bins.  R Fall of motal content with data.  R Sprain doe to manual handling of the troubley.  R Fall of motal and the level.  R Fall of motal and the level.  R Fall of motal and the level.  R Fall of conting of the north with data.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting of the model and the level.  R Fall of conting to the level.  R Fall of conting to the level.  R Fall of conting to the level.  R R				R	Exposure to electrical energy	129	Electroc ution		3	1	3	м								
Reference may inhalar 131 Control Part Sequence to heart refusions 132 Control Part Sequence to heart refusions 132 Control Part Sequence to heart refusions 132 Control Part Sequence to heart refusions 133 Control Part Sequence to heart refusions 133 Control Part Sequence to described energy 134 Control Part Sequence to described energy 134 Control Part Sequence to described energy 134 Control Part Sequence to describe energy after heart treatment by Reference to describe the casting after heart treatment by Reference to describe the casting make the breach vice Reference to describe the casting make the breach vice Reference to describe the casting make the breach vice Reference to describe the casting make the breach vice Reference to describe the casting make the breach vice Reference to th		After completion of the process stop the rotation of the ram.		R	Exposure to heat radiation	130	Skin irritation		3	1	3	м								
Collect the metal into the bin.   R   Exposure to beer relations   13   Electrical contents   13   E				R	Fumes may inahale	131	ory inhalatio	Р	3	1	3	м	4	1				1	EOHS/OCP/28	
Cellect the metal into the bin.  R Fall of metal contact with skin.  R Fall of metal contact with skin.  R Fall of metal contact with skin.  Special due to manual handling of the metal moving toulty.  Cellect the carding after best textamout by manual moving toulty.  R Special due to manual handling of the moving toulty.  R Sharp edges that may contact with skin.  R Sharp edges that may contact with skin.  R Sharp adges that may contact with skin.  R Sharp adges that may contact with skin.  R Sliding of hand between statemary and moveble part.  R Sliding of hand between statemary and moveble part.  R Slipping of food  I play  R Slipping of food  I play  R Slipping of food  R Sl		Up the fork		R	Exposure to heat radiation	132			3	1	3	м								
Collect the carings after heat treatment by measured moving trolley.  Response of the treatment by measured moving trolley.  Response of the unique of the treatment of the level blooderst with skin.  Fixing the carding inside the bench vice  Response of the unique of the unique of the treatment with the help of file and chied  Response of the unique of the unique of the carding in the carding from height figure of the carding from height figure of the carding from height figure of the unique of the un		Stop the blower		R	Exposure to electrical energy	133			3	1	3	м								
Collect the casting after heat treatment by manual marving trolley.  R Fall of material on the level localests  R Fall of material on the level localests  R Fall of material on the level localests  R Emonal of the unwated material with the help of file and chied  R Fall of easting from height  R Fall of easting from height  R Slapping of two language  R Fall of easting from height  R Slapping of two language  R Slappin		Collect the metal into the bin.		R	Fall of metal contact with skin	134	Bum		3	1	3	м								
Collect the casting after heat treatment by manual marving trolley.  R Fall of material on the level localests  R Fall of material on the level localests  R Fall of material on the level localests  R Emonal of the unwated material with the help of file and chied  R Fall of easting from height  R Fall of easting from height  R Slapping of two language  R Fall of easting from height  R Slapping of two language  R Slappin																				
Collect the casting after heat treatment by manual marving trolley.  R Fall of material on the level localests  R Fall of material on the level localests  R Fall of material on the level localests  R Emonal of the unwated material with the help of file and chied  R Fall of easting from height  R Fall of easting from height  R Slapping of two language  R Fall of easting from height  R Slapping of two language  R Slappin																				
The properties of fling Keep the casting in the decignated bin.  Responsed of the unwanted material with the help of fife and chined  Responsed of fling keep the casting in the designated bin.  Responsed of fling Keep the casting in the designated bin.  Responsed of fling keep the casting in the designated bin.  Responsed of chips	Fettling		Н												+	+	+			
Fall of material on the level  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied  Removal of the un wanted material with the help of file and chied	E:1:	Collect the castings after heat treatment by manual moving trolley.		R	Sprain due to manual handling of the trolley.	Sprain		2	2	4	м				•					
Principle content passes the electric vice	rining			R	Fall of material on the level	Incident		2	2	4	м				T	1	Ť			
help of file and chied  R Fall of casting from height Foot spiny R Slipping of tool R Fall of casting R Slipping of tool R Fall of casting R Foot spiny R Foot spiny R Foot spiny R Fall of casting Foot spiny R Foot spiny R Fall of casting Foot spiny R Foot spiny R Foot spiny R Fall of casting Foot spiny R Chips may contact with skin Cut injury R Burr may inhale R Repirato Y Substation R Burr may inhale R Repirato Y Substation R R Substation R Substatio		Fixing the casting inside the bench vice		R	Sharp edges that may contact with skin	Cut injury		2	2	4	м									
R Pall of casting from height R Slipping of tool Injury 2 1 2 L  After completion of fling Keep the casting in the designated bin.  R Chips may contact with skin Cut injury 2 1 2 L  Callect the chips.  R Chips may contact with skin Cut injury 2 2 4 M  Disposal of chips R Dur may inhale Respiratory substation R Disposal of chips R Disposal of chips R Disposal of chips		Removal of the un wanted material with the help of file and chisel		R	Sliding of hand between stationary and movable part.	Cut injury		2	2	4	м									
After completion of fling Keep the casting in the designated bin.  R Fall of easting Foot Injury 2 1 2 L  Cellect the chips.  R Chips may contact with skin Cut injury 2 2 4 M  R Durr may inhale Registratory or substation  R Disposal of chips				R	Fall of casting from height			2	1	2	L				T					
the designated bin.  Collect the chips.  R Chips may contact with skin. Cut injury 2 2 4 M  Respirato y abadation  Disposal of chips  R  Disposal of chips  R			П	R	Slipping of tool	Injury		2	1	2	L				T	1				
R Burr may inhale Propinto y habitation  Disposal of chips R  Disposal of chips R		After completion of filing Keep the casting in the designated bin.		R	Fall of casting	Foot Injury		2	1	2	L									
R Burr may inhale by a 2 1 2 L  Disposal of chips R  Burr may inhale by abalation 2 1 2 L  abate milling fland		Collect the chips.		R	Chips may contact with skin	Cut injury		2	2	4	м									
Disposal of chips R				R	Burr may inhale			2	1	2	L									
utting(Band		Disposal of chips		R																
	Gate cutting(Band saw)																			



															_			
	Receive the castings from the GDC department by fork lift.		R	Fall of casting	Foot Injury		2	1	2	L								
		$\vdash$	R	Site transsport	Incident		2	2	4	м					t			
	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	м								
	Switch on the machine		R	Exposure to electical 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	м								
			R	Slipping of the casting	Cut injury		2	2	4	м								
		H																
			R	Sliding of hand between stationary and movable part.	Cut injury		2	2	4	м								
			R	Hot casting may contact with	Bum		1	1	1	L								
				skin											H			
	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	м								
	respect out.																	
Fettling															L			
iling	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	м								
	Removal of the un wanted material with the		R	Sliding of hand between	Cut injury		2	2	4	м					T			
	help of file			stationary and movable part.					<u> </u>	-					1			
			R	Fall of casting from height	Foot 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					Γ			
			R	Burr may inhale	Respirato ry		2	1	2	L								
irinding			R		inhalation													
lelt 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	м								
			R	Burr may contact with eye	Eye injury		2	1	2	L								
			R	Burr may ingest through mouth	Respirato ry		2	1	2	L								
		Н	R	Al dust may inhale	inhalation Respirato ry		2	1	2	L					t			
	Keep the casting in the designated bin.		R	Manual handling of the casting	inhalation		2	1	2	L					H			
	Reep the casting in the designated out.	H		Hot casting may contact with											+			
			R	skin	Bum		2	1	2	L								
	Collect the burr.	L	R	Burr may contact with skin	Cut injury		2	1	2	L					L			
			R	Burr may inhale	Respirato ry inhalation		3	1	3	м								
neumatic rinder			R															
	Collect the castings for grinding		R	Fall of casting	Incident		2	1	2	L					T			
	By the application of pneumatic grinder		R	A1 days 12 .	Respirato		2			L					t			
	remove the un wanted material.		K	Al dust may inhale	ry inhalation		2	1	2									
			R	Slipping of tool	Cut injury		2	2	4	м					L			
			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					t			
		$\vdash$	R	Burr may inhale	Respirato ry		2	1	2	L					t			
	_	L		,	inhalation			Ľ.	Ĺ	Ė					L			
	R NR		Routine Non-	P	Probabilit	у		RISK LEVE	L	Low		н		High			_	
		_	routine	С	Consequ	ences		1	м	Medium		E		Emerger				
			Rating 1	POO UNLIKELY	Injury	Iline	ess having			MATRI			Abb	Elimina	ation	escription		Input For MP
			2	LIKELY	not calling Injury	di Illness	omentary scomfort due to acute	3	3/M	6/H	9/E		s	Substit	tution			MP
			3	VERY LIKELY	for first Injury	hospital Illness	posure or isation for more due to chronic	nsequenc	2/L	4/M	6/H		EC	Engine	ering	Control		MP
			-		leading to temporar	avnoei	ure having last ng effect.		1/L		3/M							
					y / permane nt			1	1/L	2/L	SIM							
					disability			J	1	2 Probab	3					gnage/Admin		OCP
			P00 - Pr	obability of Occurrence						outile			P	Person	al Pr	otective Equip	oments	OCP