

Hazard Identification, Risk Assessment And Risk Control Register (HIRA)																						
Activity	Sub-Activities	E	R/ NR	Hazard	Haza rd No	Risk	Present control	Legal	Proba bilty	Conseq uence	Result ant	Risk level	Sig- Haza No.	Priorit y No.	Objc tive No.	Plant:-						
																E	S	EC	W	P	Addt Oper	
MELTING FURNACE MAINTENANCE	Heater replacement.		R	Substance may cause harm by come in contact with skin.	375	Cut & burn injury	ECHS/OCP/MAIN T/20		2	2	4	M										
	Heater sleeve & lugs replacement.		R	Substance may cause harm by come in contact with skin.	376	Cut & burn injury	ECHS/OCP/MAIN T/20		2	2	4	M										
	Clean oil pump, manifold, pipeline & gauges.		R	Substance may cause harm by come in contact with skin.	377	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
	Burner dismantling.		R	Substance may cause harm by come in contact with skin.	378	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
	Clean burner nozzle.		R	Fall of person on the level.	379	Incident.	ECHS/OCP/MAIN T/22		2	2	4	M										
			R	Substance may cause harm by come in contact with skin.	380	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
			R	Fumes that can inhaled	381	Respiratory inhalation.	ECHS/OCP/MAIN T/22		2	1	2	L										
	Replace burner seal.		R	Penetration of sharp object.	382	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
	Replace flange gasket.		R	Substance may cause harm by come in contact with skin.	383	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
	Clean suction & return line filter.		R	Fall of person on the level.	384	Incident.	ECHS/OCP/MAIN T/22		2	2	4	M										
FETTLING (BELT GRINDER) MAINTENANCE			R	Substance may cause harm by come in contact with skin.	385	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
			R	Fire	386	Incident	ECHS/OCP/MAIN T/22		2	2	4	M										
	Replace Suction & return line oil filter.		R	Fall of person on the level.	387	Incident.	ECHS/OCP/MAIN T/22		2	2	4	M										
			R	Substance may cause harm by come in contact with skin.	388	Cut injury	ECHS/OCP/MAIN T/22		2	2	4	M										
	Dubricate moving parts		R	Fall of person on the level.	389	Incident.	ECHS/OCP/MAIN T/24		2	2	4	M										
	Contactor contact cleaning or replacement		R	Substance may cause harm by come in contact with skin.	390	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Start grinder & ensure OK for production		R	Exposure to electrical energy.	391	Electrocution	ECHS/OCP/MAIN T/14		2	2	4	M										
	Check motor current.		R	Exposure to electrical energy.	392	Electrocution	ECHS/OCP/MAIN T/14		2	2	4	M										
DECORING M/C MAINTENANCE	Clean all machine parts.		R	Substance may cause harm by come in contact with skin.	394	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Lubricate moving parts		R	Fall of person on the level.	395	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Check oil level in FRL unit.		R	Fall of person on the level.	396	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	CYLINDER SEAL REPLACEMENT																					
	Replace seal.		R	Penetration of sharp object.	397	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Assembled cylinder.		R	Substance may cause harm by come in contact with skin.	398	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	PNEUMATIC VALVE MAINTENANCE & HOSE PIPE REPLACEMENT OR TIGHTENING.																					
	Clean spool & valve from inside by using Diesel.		R	Fall of person on the level.	399	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
GATE CUTTING & BAND SAW MACHINE MAINTENANCE	ELECTRICAL MAINTENANCE																					
	Contactor contact cleaning or replacement.		R	Substance may cause harm by come in contact with skin.	400	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Connection tightening of all contactor, limit switches & all electrical switches.		R	Substance may cause harm by come in contact with skin.	401	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Clean all machine parts.		R	Substance may cause harm by come in contact with skin.	402	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Clean power pack,pump,manifold & hydraulic cylinder by using cotton waste.		R	Substance may cause harm by come in contact with skin.	403	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Dubricate moving parts.		R	Fall of person on the level.	404	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Check oil level in FRL unit.		R	Fall of person on the level.	405	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	HYDRAULIC POWER PACK MAINTENANCE																					
	Check oil level & oil condition of power pack.		R	Fall of person on the level.	406	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Open drain valve & drain hydraulic oil.		R	Fall of person on the level.	407	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Collect scrapped oil in oil barrel.		R	Substance may cause harm by come in contact with skin.	408	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Clean power pack.		R	Fall of person on the level.	409	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Remove suction & return line filter.		R	Substance may cause harm by come in contact with skin.	410	Cut injury	ECHS/OCP/MAIN T/14		2	2	4	M										
	Clean suction & returnline oil filter.		R	Fall of person on the level.	411	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Take hand pumps & insert in oil barrel.		R	Fall of person on the level.	412	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	CYLINDER SEAL REPLACEMENT																					
	Clean cylinder spare.		R	Fall of person on the level.	413	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Replace seal.		R	Fumes that can inhaled	414	Respiratory inhalation.	ECHS/OCP/MAIN T/14		2	2	4	M										
	Clean spool & valve from inside by using Diesel.		R	Fall of person on the level.	415	Incident.	ECHS/OCP/MAIN T/14		2	2	4	M										



Hazard Identification, Risk Assessment And Risk Control Register (HIRA)																	
DEPARTMENT	Maintenance	E	R / NR	Hazard	Hazard No	Risk	Present control	Legal	Probability	Consequence	Result	Risk level	Sig. Hira No.	Priority No.	Objective No.	Plant:-	
Activity	Sub-Activities															Addit Oper	
DUST COLLECTORS MAINTENANCE	ELECTRICAL MAINTENANCE																
	Connection tightening of all contactor, limit switches & all electrical switches.	R		Substance may cause harm by come in contact with skin.	416	Cut injury	ECHS/CCP/MAIN T/14		2	2	4	M					
	Clean all machine parts.	R		Substance may cause harm by come in contact with skin.	417	Incident.	ECHS/CCP/MAIN T/14										
	Lubricate moving parts.	R		Substance may cause harm by come in contact with skin.	418	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
	Greasing to all bearing	R		Substance may cause harm by come in contact with skin.	419	Cut injury	ECHS/CCP/MAIN T/14		2	2	4	M					
	MAINTENANCE OF VIBRATOR																
	Remove bags	R		Substance may cause harm by come in contact with skin.	420	Cut injury	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Dust may be inhaled.	421	Respiratory inhalation.	ECHS/CCP/MAIN T/14		2	2	4	M					
	Clean bags	R		Flying foreign body in eye.	422	Eye injury.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Dust may be inhaled.	423	Respiratory inhalation.	ECHS/CCP/MAIN T/14		2	2	4	M					
	Replace bags	R		Flying foreign body in eye.	424	Eye injury.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Substance may cause harm by come in contact with skin.	425	Cut injury	ECHS/CCP/MAIN T/14		2	2	4	M					
	BATTERY																
	FORK LIFT	Check battery voltage by Voltmeter.				426		ECHS/CCP/MAIN T/14		2	2	4	M				
Top up distilled water.		NR		Exposure to electrical energy.	427	electrocution	ECHS/CCP/MAIN T/14		2	2	4	M					
Apply petroleum jelly to battery contacts		NR		Fall of person on the level.	428	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
battery replacement		NR		Exposure to electrical energy.	429	electrocution	ECHS/CCP/MAIN T/14		2	2	4	M					
COOLANT & WATER FILLING IN RADIATOR																	
Fill the coolant in radiator tank.		R		Fall of person on the level.	430	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
DIESEL FILLING IN DIESEL TANK																	
Fill diesel in diesel tank.		R		Fall of person on the level.	431	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Manual handling.	432	Sprain	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Fall of person on the level.	433	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Fumes that can inhaled	434	Respiratory inhalation.	ECHS/CCP/MAIN T/14		2	2	4	M					
TOP UP ENGINE OIL LEVEL & HYDRAULIC OIL LEVEL																	
Top up engine oil.		NR		Fire.	435	Incident	ECHS/CCP/MAIN T/14		2	2	4	M					
Top up hydraulic oil.		NR		Fall of person on the level.	436	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Manual handling.	437	Sprain	ECHS/CCP/MAIN T/14		2	2	4	M					
Remove suction & return line filter.		NR		Fall of person on the level.	438	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
		NR		Substance may cause harm by come in contact with skin.	439	Cut injury.	ECHS/CCP/MAIN T/14		2	2	4	M					
Clean suction & returnline oil filter.		R		Fall of person on the level.	440	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Substance may cause harm by come in contact with skin.	441	Cut injury.	ECHS/CCP/MAIN T/14		2	2	4	M					
		R		Fall of person on the level.	442	Incident.	ECHS/CCP/MAIN T/14		2	2	4	M					

