



SAFETY RISK ASSESSMENT

PIS/2022-23/003

COMPANY	PROMAINT INDUSTRIAL SOLUTIONS					CLIENT	Quality Powder Coatings			WORK	Conveyor Installation		
ASSESSOR						LOCATION				DEPARTMENT	MAINTENANCE/PROJECT		
JOB STEP Break the job into steps. Listing work which may be hazardous	HAZARDS List the hazard or type of harm identified with each step	Risk	Consequence	Likelihood	Risk Ranking	Control Measure List the necessary control measures to be followed to eliminate the identified hazards				Consequence	Likelihood	Risk Ranking	
PTW (Permit to Work)	Lack of knowledge	May be fatal	4	4	8	1.Before start the work shall be Conduct TBT and PTW (NO permit No work) & given instruction to workers regarding activities Only 2.Competent Person performing the Task/Job. 3.Medically fitness should be done 4.Conducted Induction.Manual mode to be done by authorised person with 100% supervision.				2	2	4	
MATERIAL HANDLING MANUALLY	Slip/Trips	Body Injury	2	2	4	1.Provided safe access 2.Removed all unwanted materials from access. 3.TPI of all tools & takels (Electrical, Lifting & Scaf-fold) before start the work.				1	1	2	
	Sharp edge hazard		2	2	4	1.Before start the work shall be Conduct TBT and PTW (NO permit No work) & given instruction to. 2.Make sure carry materials or tools at a time, tip and blade pointed down at your side 3.Provide neccessary PPE's Helmet, safety shoes, reflective jackets, cut resistance hand gloves, nose mask, face shield, safety goggles etc.. 4. Experianced/skelled workers				1	1	2	
Fabrication Work :- Gas Cutting & Welding Work, Granding Work	Fire Hazard	Burn injury / Lose of material	2	2	4	Clear area within 6 mtrs radius, ensure no combustibile material, cover material if can not remove, check there is no loose electrical connections, ensure molten metal is not in direct contact with flammable material				1	1	2	
	Electric shock	Body Injury	2	2	4	Ensure proper sleeved cableing, lugs provided for connection, no open connection, job is given return currect to welding Machine.				1	1	2	
	Slip, trip & fall	Body Injury	2	2	4	Proper cable routing, clear walk way, clear access to welding Machine & Job.				1	1	2	
	Direct contact with hot metal	Health effects	2	2	4	Trained welder & co-welder, use of leather hand gloves, apron & safety shoes, display warnings.				1	1	2	
	Hit by / against		2	2	4	Ensure Third party inspection must be available for farana,sling etc,Experienced operator,vehicle inspection must be carried out before job start by PMV dept.,Singnal man must be present ,Ensure reduced congestion by following layout plan, reduce wokers as many possible, remove extra or scrap material from location, close supervision and All PPEs.				1	1	2	
	Slip, trip & fall		2	2	4	Clear & defined walkways, proper stacking of material, Material must be secured by tying with trailorbed, sleeper must be there minimum 50mm gap must be available. maintain sequence.				1	1	2	



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LOADING & UNLOADING OF Conveyor Track Chain & Structure THROUGH	Miscommunication	Body Injury	2	2	4	Clear method of manual handling, communicated & understood by all workers, clear route of movement & verble or physical sign for loading unloading.		1	1	2	



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Track, chain & structure THROUGH FARANA	Fall from trailer/Fall of Trailer's free movement	Body Injury	2	2	4	Don't allow to climb or stand while in motion, climb from back side only where foot rest is given,			1	1	2
	Trailer roll over		2	2	4	While parking use parking brakes & wheel chockers.			1	1	2
	Poor visibility		2	2	4	Do not over load trailer, tie material, use designated route only, road shall be leveled and compacted, authorised driver only.			1	1	2
	Dust		2	2	4	Provide more lights to increase visibility			1	1	2
	Entanglement		2	2	4	Sprinkling of water at route of vehicle movements regularly			1	1	2
	Fire Hazard & Burn Injury		2	2	4	Non use of loose clothings, proper guarding of rotating parts, fixing of guards			1	1	2
			2	2	4	Don't allow leakage of oil, area free of combustible material, check availability of fire extinguisher nearby vicinity			1	1	2
Fall of plate form	Body Injury	2	2	4	Ensure scaffold proper with green tag before start work at height & take work permit .			1	1	2	



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Score	TABLE OF CONSEQUENCE				Score	LIKELIHOOD		
	People	Plant	Environment					
5 - Very high/Catastrophic	Multiple fatalities	Greater than \$10 million Loss	Catastrophe, destruction OF sensitive environment world wide attention, More than 30 days delay.		5 - Almost Certain	The event is expected to occur in the most circumstances. Likely to occur frequently more than 1 per year		
4 - High/Major	Fatality or permanent disabilities	\$ 1 Million to \$ 10 Million loss	Disaster, High levels of media attention, high cost of clean up, offsite environmental harm, more than 10		4 - Likely/Probable	The event will probably occur in the most circumstances. Likely to occur several times . 1 per year		
3 - Moderate	Major injuries - incapacitations or requiring significant injuries - Medical treatments, non -	\$100 Thousand to \$1 Million loss	Major spill, onsite release, substantial environmental nuisance, more than 1 day delay. (Leads to an additional response group)		3 - Moderate/occasional	The event should occur at some time. Likely to occur some time. 1 per 5 year		
2 - Low/Minor	Minor injuries - first aid treatments (cuts/bruises)	\$10 Thousand to \$ 100 Thousand loss	Significant spills, (leads to a call out of site emergency response group)		2 - remote/unlikely	The event could occur at some time. Unlikely but possible. 1 per 10 year		
1 - Very low/Insignificant	Minor injuries - first aid treatments (cuts/bruises)	Less than \$10 thousand loss	Low environmental impact. Minor spills less than 80 liter.		1 - rare/very unlikely	The event may occur only in exceptional circumstances. Assumed it may not be experienced. 1 per 100 year.		
Risk rating = Consequence + Likelihood					Risk rating - Definitions			
Consequence	Risk rating				Risk rating	Definitions	Action Required	
5	6	7	8	9	10	High	Task not to start till the risk is eliminated or reduced. Bring to the immediate attention of management. Formal assessment required. MUST reduce the risk as a mater of priority.Bring to the immediate attention to the management. Task not to start till the risk is eliminated or reduced. Further assessment required. MUST reduce the risk as a mater of priority.	
4	5	6	7	8	9			
3	4	5	6	7	8	Medium	Bring to the attention of supervision. Review risks and ensure that they are reduced to as low as reasonably practicable. To be dealt with as soon as possible, preferably before the task commences. Introduce some form of hardware to control risk.Needs to be controlled but not necessarily immediately, an action plan to control the risk should be drawn up. Review effectiveness of controls. Ensure responsibilities for control are specified.	
2	3	4	5	6	7			
1	2	3	4	5	6	Low Risk	if practical rescue the risk. Ensure personnel are competent to do the task. Manage by routing procedure. Monitor for change.	
PIS					CLIENT :	QUALITY Powder Coatings		