

Title	RISK ASSESSMENT FOR INSTALLATION OF AUTOMATIC REVOLVING DOOR AT COMMERCIAL BUILDINGS.		
Company:	Inventue Metal Products Industries LLC		
Site:	Park Heights I & II, Dubai Hills.	Total pages - 6	
Ref: Doc. No: IMPI-SPML-RA-134 REV NO-00	Rev: 00		Date: 26.11.2019

1. Hazards and Risk Identifications					2. Risk Evaluations and Controls							
Sl.	Activity Description	Health, Safety Hazards and Environmental Aspects	Health, Safety Risks and Environmental Impacts	Initial Risk Rating			Control Measures	Law / Compliance	Residual Risk Ratings			Person in-charge (P/C)
				L	S	R			L	S	R	

01	Mobilization of Manpower	<ul style="list-style-type: none"> Unskilled workers Non-awareness of site-specific rules & regulation. Non-availability of PPE. Adverse weather conditions. Non-Awareness of Emergency Procedures 	<ul style="list-style-type: none"> Personal injury. Property damage 	4	3	12	<ul style="list-style-type: none"> Safety boots, Safety Helmets, Safety Jacket, Safety goggles, Coverall, Safety Hand gloves along with full body Safety Harness and it should anchor to the Rigid object. All works shall be carried out under continues & Competent Supervision All supervisors/foreman must undergo HSE Evaluation. 	Y	1	3	3	Project Manager/ Engineer/ Foreman/ Safety officer/ Logistic Supervisor monitor the vehicle movement
02	Use of Power Tools	Leads to eye injuries, general cuts and bruises, electrical hazards, noise and	<ul style="list-style-type: none"> Electrocution Temperory ringing in ears, Noise induced hearing loss Cuts injuries and fatality 	4	4	16	<ul style="list-style-type: none"> Pre use checks should be carried out before the work starts MSRA & SWP Should be communicated prior to commencement of work Appropriate 110v power tools should be used for the job Electrical cables should be 		1	4	4	Site Engineer, Site supervisor & Foremen

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							<ul style="list-style-type: none"> routed safely through 30 ma RCD. The use of frayed or worn electrical cords or cables shall be prohibited Use of ear plug to reduce noise level 					
03	Work at Height	<ul style="list-style-type: none"> Falls FromHeight Falling Material / Objects falling 	Fatality, Trauma, major/minor Injury Damage to property below.	3	4	12	<ul style="list-style-type: none"> MSRA,, Pre Task Brief's / TBT to be given to all involved in task Work at height to be carried out by competent workers All machineries and tools shall be secured with lanyard Full body safety harness Shall be worn appropriately 		2	2	4	Site Engineer, Site supervisor & Foremen

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							<p>with proper fitting and anchored on proper anchorage point</p> <ul style="list-style-type: none"> Daily visual inspection shall be conducted before using the safety harness. Appropriate PPE to be worn by site personal such as Hard Hat, Safety Shoe, Safety Goggle, High visibility vests, Nitrile coated cut resistant hand gloves. full body safety harness. All works shall be carried out under continues & Competent Supervision Mobile scaffolding must be erected by competent person and inspected Castor wheels should be locked before use 												

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04	Manual Handling	Handling ,heavy and awkward shape of Load, Twisting Repeated movements, Inappropriate lifting posture	Musculoskeletal disorders, work related upper limb disorders, back pain,	3	3	9	MSRA should be in work location & communicated to all employees prior to start task <ul style="list-style-type: none"> Trained and competent personnel to be employed. Manual handling should be in accordance to DM requirements. In house & On job Manual Handling training should be provided Pre Task Brief and Toolbox talks to be conducted for highlighting the hazards of manual handling Ensure adequate Supervision Job rotation and job breaks If load is heavy more personnel should be allotted to evenly distribute the load. Repetitive movements 		1	3	3	Project manager / Engineer/ Safety officer/ / Logistics supervisor

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							<p>should be avoided.</p> <ul style="list-style-type: none"> • Proper posture and angle should be maintained while lifting • Use mechanical aids such as wheeled A frames staidest shall be used where feasible instead of manually handling. • Appropriate PPE to be worn by site personal such as Hard Hat, Safety Shoe, Safety Goggle, High visibility vests, Nitrile coated cut resistant gloves 					
05	Use of hand tools	Faulty Hand tools, Falling of hand tool	Major or minor injury to personnel including crush / cut injuries	3	3	9	<ul style="list-style-type: none"> • Hammer screw driver and all other hand tools should be in good condition before usage. • Never horse play with hand tools. • Never leave any hand tools in the site after completion of work, ensure that all hand tools should be 		1	3	3	Site Engineer, Site supervisor & Foremen

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							handover in the store at the end of the day. <ul style="list-style-type: none"> Ensure that eye protection, hand gloves, helmet, safety shoes should be provided for workforce. Tools to be leashed to hand. Proper ppe shall be used. Leash before using in heights 					
06	Emergency Procedures	<ul style="list-style-type: none"> Non-awareness of emergency procedures. Obstructed access Non-awareness of assembly points	<ul style="list-style-type: none"> Confusion Personal injury 	3	3	9	<ul style="list-style-type: none"> Workers shall be briefed with emergency procedure plan during Pre-task briefing. Access/Egress shall be free from obstruction to deal with any emergency. Assembly points shall be located/ identified and adequate sign boards shall be posted.	Y	1	3	3	Site Engineer, Site supervisor Foremen Safety officer

RISK MATRIX

1. Identify Risks – These may include brainstorming, Interacting with workforces, Site visit, systematic process reviews, Process Hazard Analysis and Job Observations

2. Analyse Risks – Determine consequences and likelihood of each risk. Write these items onto the table next to each risk.

Severity		Likelihood	
Level	Descriptor	Level	Descriptor
1	Minor	1	Improbable

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2	Appreciable	2	Remote
3	Serious	3	Occasional
4	Major	4	Probable
5	Catastrophic	5	Frequent

3. Evaluate Risks –Use the grid below to identify the level of risk.

How severely could it		How likely is it to be that bad?					
		-	+		+	++	
Hurt someone or how will could it make someone? Risk, 8-14= Medium Risk, 15-19= High Risk, 20-25= very high risk		1-7=Low	Extremely unlikely to occur	Unlikely to occur	Could possibly or known to occur	likely to occur more than once	Common or repeating occurrences
!(1)	Minor (Not significant / No lost time)	1	2	3	4	5	
!!(2)	Appreciable (First aid required)	2	4	6	8	10	
!!!(3)	Serious (medical attention and several days off work)	3	6	9	12	15	
!!!!(4)	Major (Fatality)	4	8	12	16	20	
⚡	Catastrophic (Multiple fatality)	5	10	15	20	25	

4. Identify and evaluate existing risk controls – Identify what happens already to manage the risks and consider how well these strategies are working (good, adequate, variable). How does this affect the level of risk? Fill these items in on the table. If you are not happy with the level of risk at this stage proceed to step 5.

5. Further risk treatments and opportunities for improvement – What actions are needed to bring risks to an acceptable level (these actions are incorporated into other planning processes and include responsibilities, resources and timelines)? What opportunities are there for improvement? Write these onto the table.

Prepared by: Sawad S A

Reviewed by: Ram Mohan Nagaraj

Inventure HSE Officer

Project Manager