RISK ASSESSMENT

(DUCTING ERECTION)

PROJECT / LOCATION:	DATE OF ASSESSMENT:	DATE OF NEXT ASSESSMENT
ABC	01-01-2025	01-01-2026

TASK / ACTIVITY
Ducting Erection

SR.	What are / tasks / activity?	Who could be harmed and how?	Risk Level			Existing Risk Control Measures/Recovery Measures	What further measures are required?	Residual Risk			Remarks
			L	S	RR			L	S	RR	
1.	Transport of Ducting	▯ Traffic collision, fall of material				▯ Conduct PEP talk before loading/unloading. ▯ Only inspected vehicles found fit shall be engaged. ▯ Condition of vehicle shall be checked and approved before transport of units ▯ The duct material shall be firmly placed in the truck. ▯ Duct shall be tightly secured using Nylon ropes. ▯ Vehicle with suitable platform & foldable side gates shall be engaged to prevent fall of items.	▯ Use a traffic spotter during loading/unloading in high-traffic or confined areas. ▯ Install barriers or cones to demarcate the work area. ▯ Avoid transportation during adverse weather conditions (e.g., high winds or rain) that may compromise load stability. ▯ Utilize anti-slip mats or rubberized supports under the ducting. ▯ Double-check tension in securing straps after initial tightening. ▯ Employ lifting aids (e.g., forklifts with proper attachments) to minimize manual handling risks. ▯ Ensure the load is evenly distributed to avoid tipping or imbalance during transport. ▯ Keep spill kits and first aid kits in vehicles.	1	3	L	Site engineer / Section In- charge

							Train drivers in emergency response procedures. Conduct periodic checks to ensure compliance with transport safety standards. Review loading/unloading procedures regularly. Maintain transportation permits, if applicable. Keep a record of transported materials for traceability.				
2.	Installation of Ducting	Fall of men from Ladder/scaffold. Fall of material from Height. Injury from using hack saw, cutter, drilling machine etc. Dust, debris and Splinters.				All Personnel equipments shall be worn by workmen. Sufficient workmen / Rigger shall be engaged for unloading of ducting. Use of safety helmets, Shoes, Florescent Jacket, and other relevant PPE's ensured for all workers. Tools and material shall not be scattered around the work place and shall be neatly stacked in a convenient location.	 Perform weight assessments of ducting to determine the appropriate handling method. Use mechanical lifting devices such as hoists or vacuum lifters for large or awkwardly shaped ducting. Assign spotters to guide and monitor the transportation process, especially in congested areas. Avoid transportation during adverse weather conditions to reduce slipping and material handling hazards. Install physical barriers along transportation routes to protect nearby personnel. Conduct a JHA for the specific transportation route and ducting type to identify hazards and required controls.				Site engineer / Section In- charge

							Install fall protection systems for elevated areas where ducting might be transported or installed. Ensure ducting is stored securely at the destination to prevent rolling or collapse. Develop an emergency response plan for accidents during transportation, such as spills or injuries.				

Risk Matrix

LIKELIHOOD	SEVERITY: Insignificant	Minor	Moderate	Serious	Major	Catastrophic
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

Consequences:

6 – Catastrophic – Multiple fatalities
5 – Major - Single Fatality
4 – Serious – Permanent disability
3 – Moderate – Lost Time Injury
2 – Minor – Medical Treatment
1 – Insignificant – First Aid Case

24 - 36	Extreme	Immediate action required, Activity should not to proceed in current form
15 - 20	High	Prompt action required, including interim actions. Activity should be modified to include remedial action and planning.
8 - 12	Medium	Schedule action including any interim countermeasures e.g. implement safe work procedures, signage, instructions
4 - 6	Low	Activity can operate subject to management and or modification,
1 - 3	Very Low/ Negligible	Risk almost certainly acceptable, no action required unless escalation of risk is possible

Likely Frequency:

Likelihood (of Adverse Event Occurring)			
	Description	**Health & safety**	**Environmental**
6	Almost certain or imminent	Occurs all the time	Continuous or will happen frequently
5	Highly likely	Common occurrence, Occurs multiple times in a year	Happens 5 – 10 times per year
4	Likely or could occur	Know to occur in the last 12 months	1 – 5 times per Year
3	Not likely, but possible	Has occurred in an industry worldwide	Once every 5 years
2	Unlikely	Has not occurred in over 10 years of the same activity	Not happened in over 10 years
1	Rare	Theoretically possible, but not expected to occur	theoretically possible, but not expected to occur

Prepared by: HSE Engineer	**Reviewed by: HSE Manager**	**Approved by:**

Sign:	Date:	Sign:	Date:	Sign:	Date: