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PROJECT / LOCATION:	DATE: 00-00-2024	DATE OF NEXT ASSESSMENT
Job No.		00-00-2025

#### TASK / ACTIVITY

Fire Hazards

No	Hazard	Hazard	0		Risk Level		Diels Control Managemen	R	esidu	ıal Risk	Domorko
•		Category (P/E/A/R/LG)	Consequence	P R	S	E/H/M/L/ N	Risk Control Measures	P R	S	E/H/M/L/ N	Remarks
1.	Fire due to Hot Works	People and assets	Suffocation, Burn, Serious Injury, Fatality, Property Damage.	3	5	Н	<ul> <li>Competent operatives to be appointed for all hot work operations.</li> <li>Hot work permit must be obtained prior to start any hot work operations in the site.</li> <li>All precautions mentioned in the permit and any extra precautions required also to be taken to carry out hot work.</li> <li>Supervisor must monitor the hot work operation continuously.</li> <li>Fire watch as recommended in the PTW to be carried out after completing the hot work. (Time to be extended according to the Risk involved in the area.)</li> </ul>	1	5	L	



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Electrical Generators, DB,	2.	Fire due to Electricity	People and assets	Suffocation, Burn, Serious Injury, Fatality, Property Damage.	3	5	Н	<ul> <li>All hot work equipment must be disconnected prior to leave the area.</li> <li>Dry powder extinguisher with bucket full of water should be kept nearby hot work area</li> <li>Competent supervisor and operatives to be appointed to carry out electrical installation, maintenance and repair on site.</li> <li>All electrical installation and wiring should be complying with Local Authorities standard.</li> <li>Do not use damage electrical equipment, cables and accessories.</li> <li>Proper grounding of all electrical equipment and tools.</li> <li>All electrical installations and equipment must be inspected prior to use and periodically.</li> <li>All live electrical cables to be protected to avoid damages.</li> <li>Dry powder &amp; CO2 extinguishers with sign board should be kept nearby Electrical Generators, DB,</li> </ul>	1	5	L	
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3.	Fire due to Improper storage of Flammable and combustible Items.	People and assets	Suffocation, Burn, Serious Injury, Fatality, Property Damage.	3	5	Н	<ul> <li>Designated storage area to be provided for flammable and combustible materials.</li> <li>All hazardous (Flammable) items to be stored &amp; handled as per MSDS.</li> <li>Do not store flammable items at work place, to be return to store after work.</li> <li>Proper training as per MSDS to be given to all those who are working with flammable items.</li> <li>Ensure flammable storage areas are equipped with adequate fire protection systems. Dry powder &amp; CO2 extinguishers with sign board should be kept nearby chemical / flammable/ material storage area</li> </ul>	1	5	L	
4.	Fire due to Smoking	People and assets	Suffocation, Burn, Serious Injury, Fatality, Property Damage.	3	5	Н	<ul> <li>Include non-smoking Policy in Induction training, Tool Box / Safety Awareness Talk.</li> <li>Designated smoking areas only to be used for smoking.</li> <li>Do not bring the smoking material inside the site / work area.</li> <li>Dry powder extinguisher with sign board should be kept at the designated smoking area</li> </ul>	1	5	L	



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5.	Fire due to Poor	People and assets	Suffocation, Burn,	3	5	Н	All combustible wastes to be	1	5	L	
	Housekeeping		Serious Injury,				removed on a daily basis.				
			Fatality, Property Damage.				Empty chemical containers to				
			Damaye.				be disposed as per MSDS.				
							<ul> <li>Dip trays to be provided to all</li> </ul>				
							stationary plants and				
							equipment to contain fuel or				
							oil spillages and the tray				
							must be cleaned daily. Fire				
							extinguishers to be kept				
							within 30meter radius, with				
							sign boards and methods of				
							how to use extinguishers				
6.	Fire due to Lightning.	People and assets	Suffocation, Burn,	2	5	М	Sufficient Lightning arrestors	1	5	L	
			Serious Injury,				to be installed as per				
			Fatality, Property				standard.				
			Damage.				Standard electrical wiring				
							system with proper earthing.				
							ELCB, RCD, MCB etc to be				
							installed in the electrical				
							circuits.				
							All electrical circuits to be				
							deactivated while in thunder				
							storm / lightning.				
7.	Fire due to Arson	People and assets	Suffocation, Burn,	2	5	М	Educate all employees	1	5	L	
			Serious Injury,				regarding the consequences				
		Fatality, Property				of fire accidents.					
			Damage.				<ul> <li>Smoking stuffs, match boxes,</li> </ul>				
							lighters etc. are not to be				
							permitted in site / work area.				
							Provide security at all				
							vulnerable points.				



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							<ul> <li>Proper and close supervision and monitoring at all times.</li> </ul>				
8.	Lack of Fire Detection, Fire warning and Fire Fighting Equipment.	People and assets	Suffocation, Burn, Serious Injury, Fatality, Property Damage.	3	5	Н	<ul> <li>Sufficient Fire Fighting equipment (Extinguisher, hose reels, water buckets etc.) to be provided in all areas according to the risk.</li> <li>Fire detection and extinguishing systems to be installed in the offices.</li> <li>Fire sprinkler system to be activated in the Basement storage areas.</li> <li>Do not misplace the Fire Fighting Equipment from Fire Points.</li> </ul>	1	5	L	

#### **5.2 Risk Assessment Guidelines**

		Consequences:						
LI		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	6 – Catastrophic – Multiple fatalities
K E	1	1	2	3	4	5	6	<b>5 – Major</b> - Single Fatality
LI	2	2	4	6	8	10	12	4 – Serious – Permanent disability
н	3	3	6	9	12	15	18	3 – Moderate – Lost Time Injury
0	4	4	8	12	16	20	24	2 - Minor - Medical Treatment
O D	5	5	10	15	20	25	30	1 - Insignificant - First Aid Case
	6	6	12	18	24	30	36	<b></b>
	24 - 36 Extreme							
	15 - 20 High	Prompt action required action and planning.	modified to incl	lude remedial				



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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:**

Likeli	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	Para	Theoretically possible, but not expected to occur	theoretically possible, but not expected							
	Rare	Theoretically possible, but not expected to occur	to occur							

The **Residual Risk** has been calculated following the assumption of control measures implementation.

Prepared by: HSE Engineer		Reviewed by: HSE Mana	ger	Approved by:			
Sign:	Date:	Sign:	Date:	Sign:	Date:		