

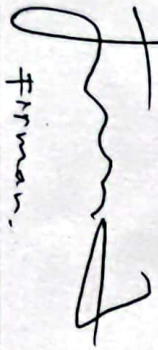
# HAZID WORKSHEET


Facility	ANGSIL-E	Activity	To start up and run diesel engine for pump unit and air compressor
Review Date	13/12/2023	Purpose	To access potential risk on conducting hot work activities as safe zone
HAZID Team:	PUMP SPV - FIRMAN LAKSANA PUMP OPT - UFIZAL		

**Background:**  
 To start up and run hydraulic pump unit.  
 Unit will be operated to pumping chemical in to well.  
 RA is conducted to evaluate and provide additional safety measure towards personnel and equipment during hot work activities.

**Category: Facilities Hazards (Fire and Explosion Hazards)**

Ref No	HAZARDS/ EXPANDERS	CAUSES	CONSEQUENCES	EXISTING SAFEGUARD, IF ANY	INHERENT/ INITIAL RISK	RECOMMENDED SAFEGUARD	RESIDUAL/ FINAL RISK	ACTION PARTY	TARGET DATE			
1	Ignition spark and flame at Power Diesel Engine and exhaust system	Engine was caught on fire and spread to cabin unit	Unavailability of spark and exhaust flame arrestor for Internal combustion engine	Damaged the equipment and cause Injury / fatality to personnel	-Affect the platform, operation, HSE and production	-Spark and arrestor installed cause total exhaust / engine system ESD system functioning and easy to access	-Fire extinguisher (2 units)	P - B3 E - N/A A - B3 R - B2	Check condition of spark and flame arrestor Standby the fire extinguisher Check the functionality of ESD Check the fuel hose / connection. -Prepare the escape route & plan and medical response/ treatment	P - B2 E - N/A A - B2 R - B1	DIMENSION BID	Continuous
2	Top up diesel into equipment	-Fire and explosion -Fuel hose / connection leakage -Electrostatic discharge	-Property damage / fatality	-Earthing wire is connected to metal point.	P - B3 E - N/A A - B3 R - N/A	-Appointed standby person to fill up daily checklist to operate portable machine and upload in e-PTW on daily basis. -Apply buddy system while refueling. -Ensure engine stop prior refueling. -Perform housekeeping after refueling	P - B1 E - N/A A - B2 R - N/A	DIMENSION BID	Continuous			

Prepared By (HAZID Leader): 

Endorsed & Approved By: (OS) 

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