

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 1 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Company Name:	ABC	Prepared by:	
Functional Area/SOW:	UPS Room	Approved by:	

Ref.	Hazards & Risks Associated with the Activity	Risk Rating			Response, Precautions, and Control Measures	Residual Risk			Details, Comments, and Notes	Action by
		C o n s e q u e n c e s	L i k e l i h o o d	R i s k R a t i n g		C o n s e q u e n c e s	L i k e l i h o o d	R i s k R a t i n g		
1.	Delivery - Traffic, Damage to materials	3	2	6	Follow traffic rules, check the speed limit, scan the road, keep distance to the vehicle in front, and check the condition of the vehicle to make sure it is in good condition this includes the horn, brake, signal lights, and side mirror rear side mirror). Materials must be stacked firmly, anchored properly, and protected by covers. All drivers and their assistants should have minimum PPE before proceeding to the destination	1	2	2	The contact personnel should inform the supplier of compliance before the acceptance	Project Manager/Engineer /Foramen QHSE Engineer
2.	Construction of concrete foundation and containment (slab and bund wall). Providing earth grounding (Copper Rod) - Physical injury	3	2	6	Wear safety glasses, safety gloves, safety shoes, safety helmet, and visibility vest, manual handling must be a buddy system, competent and authorized personnel will do the job. Access & egress must be clear from any obstruction.	1	2	2	The engineer /Supervisor / Foreman should check and ensure compliance	Project Manager/Engineer /Foramen



RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR

Page 2 of 9

Department
QHSE

Document Ref. No.
HSE DOCS-RA-DG-00

Issue Date
00-00-0000

Revision
00

3.	Loading and unloading using equipment - property damage, personal injury	4	4	16	Use inspected and certified equipment, check the right inspected gear, only certified and authorized personnel will do the job, never allow anyone to stay underneath the suspended load, must be secured by permits if necessary, avoid contact with overhead power lines, check the ground condition and the pathways, assign certified rigger/banks man. Isolate the area or provide warning signs and watchmen to warn others. Ensure proper positioning of the crane before lift.	2	2	4	The engineer/ Supervisor / Foreman should conduct proper housecleaning before and after work. FM /Supervisor should include this control measure in their daily STARRT talk and will observe during processing.	QHSE Engineer
4.	Using electrical power tools and mechanical tools- struck by, hit by, fall, electrocution	3	3	9	Use inspected tools, and check before its use to ensure it is in good condition, only trained and authorized person should use the tools, handle them with care, and not point to others, no horse playing, they must be secured by a permit if necessary	2	2	4	FM /Supervisor should include this control measure in their daily STARRT talk and must monitor it from time to time	Project Manager/Engineer /Foramen
5.	Construction of housing - physical injury	3	2	6	Wear safety glass, safety gloves, safety shoes, safety helmet, and visibility vest, manual handling must be buddy system, competent and authorized personnel will do the Job	1	2	2	The engineer Supervisor I Foreman should check and ensure compliance	QHSE Engineer
6.	Erection of diesel tank - Property damage and physical injury	3	2	6	Use inspected and certified equipment, check the right inspected gear, only certified and authorized personnel will do the job, never allow anyone to stay underneath the suspended load, must be secured by permits if necessary, avoid contact with overhead power lines, check the ground condition and the pathways, assign certified rigger/banks man. Ensure the tank has a vent pipe, access ladder, and containment and is provided with appropriate and sufficient fire extinguishers. Ensure that the hoses and valves are in good condition by checking them.	1	2	2	FM /Supervisor should include this control measure in their daily STARRT talk and will observe during processing. The engineer /Supervisor/ Foreman should check and ensure compliance	Project Manager/Engineer /Foramen
7.	Energizing - Electrocution, fire	4	4	16	Only authorized and competent personnel electricians and mechanics are allowed to the task, isolate the area with warning signs	2	2	4	Engineer to ensure all preventive and control measures comply	QHSE Engineer
8.	Break down	4	4	16	The operator should check the generator regularly and preventive maintenance must be done every week. Conduct proper housekeeping before and after work, and dispose of the empty waste property.	2	2	4	The engineer to monitor the inspection	Project Manager/Engineer /Foramen

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 3 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Table-I: Rating of Likelihood of Occurrence

S. No.	Descriptor	Likely Frequency	Probability
1.	Frequent /Almost Certain	Occurs frequently	5
2.	Often	Occurs several times per year	4
3.	Likely	Has occurred more than once per year	3
4.	Possible	Has occurred once per year	2
5.	Rare	Never occurred	1

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 4 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Table II: Rating of Severity of Consequence

Area impacted	Health & Safety Consequences				
	Insignificant (Score = 1)	Minor (Score = 2)	Moderate (Score = 3)	Major (Score = 4)	Catastrophic (Score = 5)
Human Health and Safety	Minor injuries, which may require self-administered first aid. Injured personnel can continue to perform normal duties.	Injuries requiring on-site treatment by the medical practitioner. Personnel unable to continue to perform duties.	Serious injuries require off-site treatment by medical practitioners or immediate evacuation to the hospital. Potential long-term or permanently disabling effects.	Single fatality.	Multiple fatalities.

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 5 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Production Loss	An incident event without causing production loss.	Production loss or delay of up to one week.	Production loss or delay of one week to one month.	Production loss or delay for over one month.	Loss of license to operate or ability to produce indefinitely.
Total Cost of Impacts or Incident Event	Financial loss (compensation, fines, cost to repair, plant damage) of less than AED/USD 0,000.	Financial loss (compensation, fines, cost to repair, plant damage) of AED/USD 0,000 – AED/USD 00,000.	Financial loss (compensation, fines, cost to repair, plant damage) of AED/USD 00,000 – AED/USD 000,000	Financial loss (compensation, fines, cost to repair, plant damage) of AED/USD 000,000 – AED 00M.	Severe financial penalties or legal liabilities. Financial loss (compensation, fines, cost to repair, plant damage) of greater than AED/USD 00M.

Table III: Risk Rating Matrix

RISK ASSESSMENT MATRIX		Severity of Consequence				
		Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Likelihood	Rare (1)	1	2	3	4	5
	Possible (2)	2	4	6	8	10

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 6 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

<i>i h o o d o f O c c u r r e n c e</i>	Likely (3)	3	6	9	12	15
	Often (4)	4	8	12	16	20
	Frequent/ Almost Certain (5)	5	10	15	20	25

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 7 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

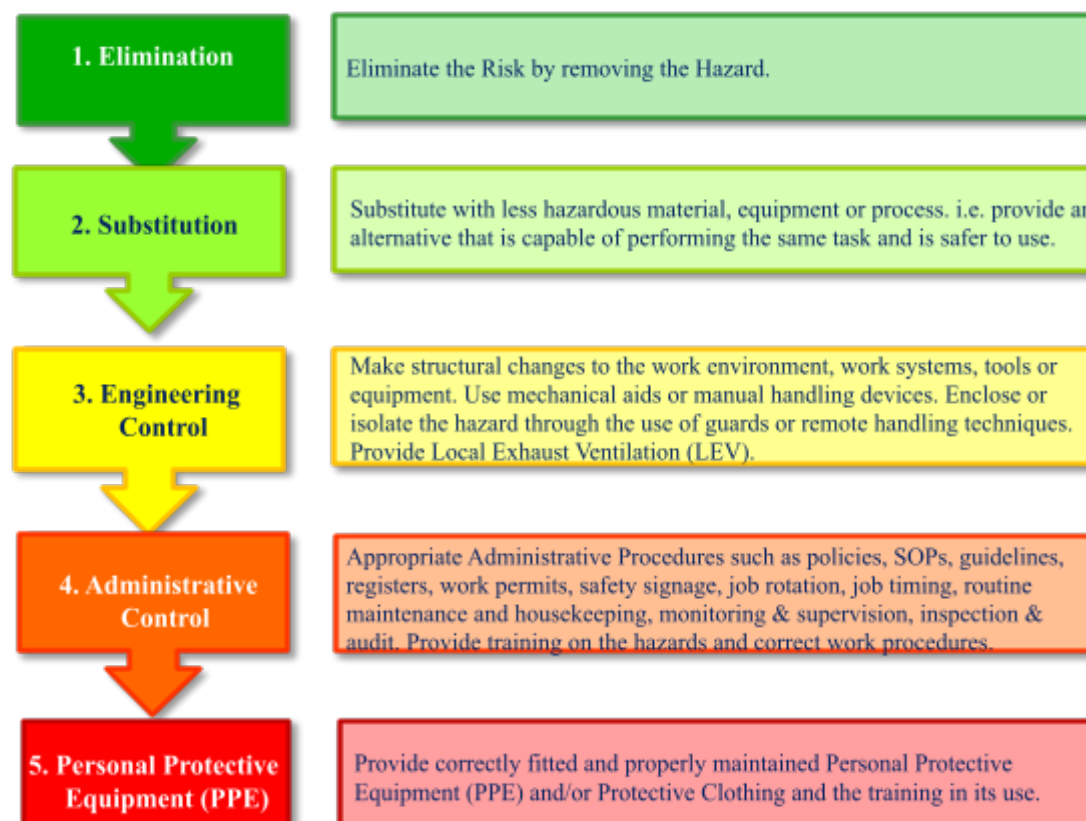
Table IV: Risk Categorization & Prioritization

Risk Categorization & Prioritization		
Risk Factor	Risk Category	Action Required
15 – 25	Extreme Risk	Unacceptably High Activity or industry should not proceed in its current form.
8 – 12	High Risk	Unacceptably High Activity or industry should be modified to include remedial planning and action and be subjected to detailed HS impact assessment
4 – 6	Moderate Risk	Acceptable but must be managed at ALARP Level Activity or industry can operate subject to management and/or modification
1 – 3	Low Risk	Acceptable without further action required No immediate action is required unless escalation of risk is possible

	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 8 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Figure-1: Hierarchy of OSH Control Measures *(in the order of preference)*

(* Controls identified may be a mixture of the hierarchy to minimize the probability and/or severity of the risk)



	RISK ASSESSMENT FOR INSTALLATION OF DIESEL GENERATOR			Page 9 of 9
	Department QHSE	Document Ref. No. HSE DOCS-RA-DG-00	Issue Date 00-00-0000	Revision 00

Assessed by:			Reviewed by:			Assessment Details:
Signatures:			Signatures:			
Name & Designation:			Name & Designation:			