



HSE REGULATORY MATRIX

[Ref. Section 5.3 (Legal & Other Requirements) of OGDCL's Integrated HSE System Manual]



Compiled & Updated By:

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OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Islamabad, Pakistan

OIL AND GAS DEVELOPMENT COMPANY LIMITED

HSE REGULATORY MATRIX

At least once per annum, "actual status of compliance" with these regulations shall be ascertained by Location HSE In-Charge after verification from all Sections.

Name of Location: _____

Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
1. Operator to submit to Federal/ Provincial EPA an Environmental Impact Assessment (EIA) for commencing new activities in National Parks (Environment Protected Areas).	Pakistan Environmental Protection Agency (Review of IEE and EIA) Regulations, 2000		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Being initiated and managed at H.O. level.
2. Operator to submit to Federal/ Provincial EPA an Initial Environmental Examination (IEE) for commencing new activities.	The Sindh Environmental Protection Act, 2014 The Khyber Pakhtunkhwa Environmental Protection Act, 2014 The Baluchistan Environmental Protection Act, 2012 The Punjab Environmental Protection Act, 2012	DG Federal/ Provincial EPA, Ministry of Climate Change	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Being initiated and managed at H.O. level.
3. Operator to ensure that no cutting of trees is allowed which is prohibited in certain areas.	Cutting Of Trees (Prohibition) Act, 1975	Forest Department, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Prohibition the clearing of forest for cultivation, grazing, hunting, removing forest produce; quarrying and felling, lopping and topping of trees, branches in reserved or protected areas. Operator shall ensure compliance with this Act. Operator to obtain permission of the Forest Officer, in case any operations are conducted in the areas classified as the forests under this Act.	Forest Act, 1927	Forest Department, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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5. Operator to ensure that no activity is undertaken in the proximity of a protected antiquity, provided under this Act.	Antiquities Act, 1975	Archaeology Department, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6. The local irrigation authorities will be informed in advance before any particular area is taken for exploration purposes. No irrigation structures including canals, head works, small dams, flood bunds and tube wells etc. will be damaged during joint operations. Such operations will be undertaken at a reasonable distance from either side of the channels, main canals, from any important structures on canals, and in or around a barrage. It would not in any way interfere with, or cause hindrance to the works of Irrigation & Power Department and to the normal flow of irrigation supplies in the canals. If any operations are necessary at such locations, the same will be undertaken after consultation with and written approval of the irrigation and power department of the provincial government.	Exploration License	DGPC, Irrigation Dept., Forest Dept., Archeological Dept.,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	--	
7. Operator to ensure that no hunting of endangered species is allowed which is prohibited by this Act in certain areas.	Wildlife Birds And Animals Protection Act, 1912	Wildlife & Parks Department Punjab; Forestry, Environment And Wildlife Department	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Operator to ensure that no wildlife is disturbed in violation of this Act/ Rules by Operator personnel or others in concession areas.	West Pakistan Wildlife Protection Ordinance, 1959/ West Pakistan Wildlife Protection Rules, 1961	KPK; Wildlife Department Punjab; Forest and Wildlife Department, Baluchistan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Protection of factories and mines – (1) The Central Government or the Provincial Government may by order require the owner, manager or agent of any mine, or the occupier or Manager of any factory :- (a) to make, within such period as may be specified in the order, a "report in writing" stating the measures which he has taken or is taking or proposing to take to	The Civil Defense (Special Powers) Rules, 1951	Federal or Provincial Government	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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secure the due functioning of the mine or factory, and the safety of persons and property therein and in the vicinity thereof in the event of an outbreak of fire whether caused by accident or otherwise; (b) to take, with in such period as may be specified in the order, such measures as may be so specified, being measures that taking of which is in the opinion of the Central Government or the Provincial Government necessary for the purposes aforesaid.						
10. Central Government may authorize any person to enter and inspect any factory or mine for the purpose of ascertaining what measures have been or ought to be taken to secure the due functioning of the mine.			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Unused commercial products to be avoided to be disposed and rather to be returned to the vendor or to be used at another location. All non-hazardous wastes should be segregated from hazardous wastes. Any mixture of non-hazardous and hazardous wastes to be disposed as hazardous waste, and must comply with existing hazardous materials storage, use and disposal requirements.	10.3.1 (a) Nonhazardous Waste of DGPC Guidelines for Operational SHE Management 1996	DGPC/ DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Hazardous wastes must be stored, managed and disposed in a safe manner which will not cause harm to humans, animals, or environmental resources. Compliance to be made with the existing hazardous materials storage, use and disposal requirements.	10.3.2 (b) Hazardous Wastes of DGPC Guidelines for Operational SHE Management 1996	DGPC/ DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. The associated gas should not be flared but to be used as "commercially for recycling" where economically and technically feasible. If no delivery of gas can be arranged, permission to be acquired to flare the gas until such time that delivery of gas can be arranged. Where sale, re-injection, processing or other use of associated gas is not economically feasible, DGPC in consultation with the Federal Environment Protection Agency may	8.3 Gaseous Waste of DGPC Guidelines for Operational SHE Management 1996	DGPC/ DG EPA Federal/ Provincial	--	--	<input checked="" type="checkbox"/>	

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issue allowable permits to flare gas under controlled conditions.						
14. The polluter of environment (Location In-Charge) can be penalized/ punished under the Pakistan Penal Code, 1860.	Pakistan Penal Code, 1860	District Magistrate, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. The polluter of environment (Location In-Charge) can be classified as a criminal under the Code.	Code of Criminal Procedure, 1898	District Magistrate, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Appointment of Manager (Location In-Charge's Name, Qualification, and Experience)	Reg-12, 13 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
17. Handing over Taking over Authorization in Manager's absence	Reg-14 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
18. Appointment of HSE Officer (Name, Qualification, and Experience)	Reg-15 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
19. Appointment of Medical Practitioner (Name, Qualification, and Experience)	Rule 10-A (3) of Consolidated Mine Rules, 1952 of Mines Act 1923		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
20. Record of appointment of competent persons to secure thorough supervision of well or field	Reg-17 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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21. Record of regular safety inspection of machinery, equipment, apparatus, and fittings	Reg-18 & Appendix of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
22. Accident Prevention Program Record			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
23. Accident/Illness Register – Forms			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
24. Records; Follow-up on accidents			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
25. Laws available			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
26. Procedure for reporting accidents (whom, how)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
27. Contingency Plans (Fire, H2S etc)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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28. H2S measurement			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
29. Safety Meetings Record			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
30. Work Permit (record kept or not, who issues)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
31. Fire Drills – Frequency records:			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
32. Training for Personnel (First-aid; H2S, Fire) Records & Certification			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
33. Hazardous/Toxic Substances identified			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
34. Confined procedures in effect			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production		
35. Lockout/Tag out procedures in effect			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
36. Emergency Telephone Numbers posted			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
37. Maintenance of Register of Employees			Schedule-A (Rule 11) of Consolidated Mine Rules,1952 of Mines Act 1923	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
38. Over-Time			Schedule-F of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
39. Annual and other leaves			Rule-23 Consolidated Mine Rules,1952 of Mines Act 1923 Schedule-D (Rule 20) of Consolidated Mine Rules,1952 of Mines Act 1923	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
40. Employment: (List showing Number & classification of persons permanently or temporarily employed)				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
41. Working Hours & Rotation System (No. of shifts/day, No. of Hours/shift) (No. of Days-On, No. of Days-Off)				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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42. Leaves & Holidays (Annual, Sick Leaves, Festival Holidays, Others)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
43. Clean & orderly	General (Living Quarters) of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
44. Properly grounded (Earthing last measured & verified)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
45. Electrical wiring & conduits in good order (Date of last check)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
46. Two means of exit provided			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
47. Smoke detectors provided			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
48. Fire Extinguishers / Hose cabinets provided			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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49. Alarms (how initiated/ audible in all areas, last function test)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
50. Ventilation, heating, air-conditioning			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
51. Emergency lighting			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
52. Adequate septic tanks			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
53. Door handles, entrances			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
54. General lighting in the area			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
55. Anti snake measures: Food handling & storage, kitchen			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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56. Laundry			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
57. Provision of blow-out prevention equipment: a) Annular preventer & double arm preventer, the latter to comprise blank rams & rams to close off around drill pipe, tubing or casing being used in the hole. b) Have a working pressure adequate for pressure expected to be encountered.	Reg-178 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
58. Two steel lines connected separately to the blow-out preventer assembly, one for bleeding off pressure & one for killing the well, which shall be-- a) Located below at least one set of blow-out preventer; b) Of a diameter of at least 50 mm; c) Of components having a working pressure equal to that of the blow-out preventers except that part of the bleed-off lines located downstream from the last control valve.	Reg-179 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
59. The bleed-off line shall be directed to a flare pit at least 90 meters from the drilling well, contain a gauge to measure well pressure & chokes which shall be so installed as to insure that-- a) There is a full-opening line from the well head to the pit; b) The chokes can be isolated without shutting in the well. c) When daily one choke is installed it is adjustable (rather than fixed).	Reg-180 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
60. Connection of kill line to the pump manifold.	Reg-181 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines		--	<input checked="" type="checkbox"/>	--	

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	Act 1923					
61. All bleed-off lines & kill lines shall be securely tied down.	Reg-182 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
62. If a well is declared to be one of high blow-out hazard there shall be installed & maintained-- a) A manifold in the bleed-off line which permits the flow from the well to be diverted through a full opening line. b) A gauge in the bleed-off line to measure well pressure; c) A valve in the Kelly or drilling string; d) Stabbing valve that can be connected to the top of any drill pipe or tubing in the well; e) A device to provide, at the drillers position warnings of a change in the level of drilling fluid in the mud pit etc. & f) Heavy mud, in accordance with the pressure or fracture gradient of the open hole, to kill the well when so required.	Reg-183 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
63. -Blow-out preventers shall be provided with means of control located at a distance of 8 meters from the well casings. -Provision of shelter guard between the blow-out preventer controls & the well casing.	Reg-184-1 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
64. Installation of additional controls: -Such additional controls can in no way interfere with the function of the controls required in sub-regulation (1) of this regulation. -Controls shall be sheltered.	Reg-184-2 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
65. Provision & maintenance of a storage type pressure source of sufficient pressure & capacity to effect simultaneously full closure of annular & one arm	Reg-185 of Oil & Gas (Safety in Drilling and Production) 1974		--	<input checked="" type="checkbox"/>	--	

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preventer.	Regulations of Mines Act 1923					
66. Blow-out prevention equipment shall be mechanically tested at least daily & defective equipment shall be made workable.	Reg-186 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
67. Blow-out prevention equipment shall be pressure tested for a period of ten minutes to at least 70 kg/sq cm prior to the drilling.	Reg-187 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
68. All tests shall be recorded. In pressure test, pressure applied & duration of pressure shall also be recorded.	Reg-188 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
69. OM is ensured that sufficient persons understand and are able to operate blow-out preventers.	Reg-189 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
70. Blow-out prevention equipment shall be tested under the supervision of an inspector (CIM).	Reg-190 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
71. An inspector (CIM) may require that the rig crew on shift shall perform a blow-out prevention drill in his presence.	Reg-191 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	--	
72. The well shall be kept full of mud at all times during drilling & particularly when pulling out the drill pipes.	Reg-192 of Oil & Gas (Safety in Drilling and Production) 1974		--	<input checked="" type="checkbox"/>	--	

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	Regulations of Mines Act 1923					
73. Provision of First-Aid facilities (Dispensary has all equipment/ facilities)	General [First-Aid] of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
74. Provision of ambulance (Ambulance fitness, maintenance, equipment etc.)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
75. Displaying of warning notices in hazardous area of 90 meters radius	Reg-340-1 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
76. Intrinsically safe apparatus in hazardous areas; Designated places for smoking	Reg-340-2 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
77. Arrangements to measure the concentration of inflammable & toxic gases or vapors in air	Reg-341 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
78. Intrinsically safe/ flame-proof electric fittings, equipment and apparatus within a radius of 15 meters	Reg-342 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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79. Electric grounding (earthing) of plant, machinery and other steel equipment/structure	Reg-343 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
80. Provision of flare pits and stack for the disposal of inflammable liquids, gases and vapors	Reg-348 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
81. Fire alarm – signals (predefined and approved)	Reg-350 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
82. Fire extinguishers all must be adequate, charged, in brackets, tagged and sealed, arrangement for re-fill	Reg-352 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
83. Layout diagram of emergency response & evacuation system displayed at significant areas	Reg-354 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
84. Weekly examination of firefighting equipment	Reg-355 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
85. Fire pump tested, output pressure-psi			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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86. Local/remote start function			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
87. Number of persons trained in fire fighting			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
88. PPE for firefighters	Reg-356 (1-2) & 357 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
89. Fire blankets (available, number, location)			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
90. Weekly conductance of fire fighting drills			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
91. PPE Provision & Maintenance <ul style="list-style-type: none"> • Safety Helmets • Safety Shoes • Safety Goggles • Rubber Apron • Mask • Gloves • Breathing Apparatus • Safety Belts 			Reg-358-373 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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HSE REGULATORY MATRIX

At least once per annum, "actual status of compliance" with these regulations shall be ascertained by Location HSE In-Charge after verification from all Sections.

Name of Location: _____

Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
92. Provision of flare stack at a well producing sour gas	Reg-236 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
93. Valves, burst plate or rupture disk of a vessel, separator, treater receiving sour gas from a well shall be connected with flare pit in case of oil and for gas shall be connected with flare stack	Reg-237 & 239 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
94. Height of flare stack shall be 12 meters and provided with pilot flame or ignition device; also to be guarded against wind.	Reg-238 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
95. Concentration of H ₂ S shall not exceed 20 ppm and shall be measured once in 24 hours and recorded in a book	Reg-240 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
96. Emergency Preparedness and Response Plan for H ₂ S, uncontrolled emission of gas and oil spills	Reg-242 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
97. Provision of sufficient number of Breathing Apparatus in case of sour environment	Reg-245 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
98. An alternate exit in case retaining wall is more than 1 meter high	Reg-235 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
99. Distance of heater or treater shall not be less than 90 meters from well-head	Reg-246 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
100. Sampling connections, if provided, shall be at a safe and convenient place and on the side opposite to the fire box	Reg-247 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
101. Means of lighting a heater or treater, a pilot torch light	Reg-250 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
102. Blanked off all lines to the vessel, all fires in the vicinity of installation to be put out when a heater or treater is to be opened for inspections/ repairs; and system purged of.	Reg-252 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
103. No work on any section of a treater or heater be undertaken until all sections are bled off gas & fluids	Reg-253 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
104. Provision of flame arresters on all air intakes of burners	Reg-254 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
105. Compressor's building to be of noncombustible material and adequately ventilated to avoid accumulation of hazardous gases	Reg.255 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
106. Each floor of the compressor's building to be provided with two exits	Reg.256 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
107. All electric equipment and fittings of compressor building to be flame proof	Reg.257 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
108. Suction stream of compressor shall be provided with devices to avoid intrusions of liquids in the compressor	Reg.258 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
109. Necessary provision to cutoff gas supply outside the compressor building	Reg.259 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
110. Necessary provision to blow down the gas from compressor and piping to a safer place	Reg.260 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
111. Provision of over speed protection device of every compressor prime mover	Reg.261 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
112. Provision of relieving devices on every gas compressor and pipeline inside the building	Reg.262 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
113. All emergency valves and controls shall be identified by conspicuous signs	Reg.265 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
114. Each separator to be clearly marked with maximum working pressure and anchored to a concrete foundation or secured by guy lines	Reg.266 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
115. Separators to be equipped with safety valves set not to exceed the maximum working pressure & burst heads set at pressure not to exceed 1.5 times the maximum working pressure	Reg.267 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
116. Provision of pressure gauge & a clearly visible liquid level gauge, marked with maximum allowable fluid, & a dump valve	Reg.268 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
117. Each separator to be provided with such arrangement to by-pass the inflow if so required	Reg.269 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
118. Flare pits and stacks to be located at a site not less than 90 meters horizontally cross-wind or down-wind from the process units, tanks or any source of inflammable gases and vapors	Reg.271 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
119. Arrangements to ignite the flare pit and stack	Reg.272 – 275 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
120. Height of flare stack to be 9 meters from the surrounding topography	Reg.276 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
121. Blow lines to flare stack to be securely anchored at the end and at all points where its direction changes	Reg.277 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
122. Suitable arrangements to continuously separate liquids from the inflammable gas before its discharge to flare stack	Reg.278 of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
123. Contents labeled: Labels understood "Fire hazard" "no smoking", "no hot work"	General [Fuel Safety] of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
124. Tanks vented: Vents open			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
125. Fire extinguishers provided: Within easy reach/suitable type			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
126. Fuel tanks safely located			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
127. Fuel transfer equipment: In good condition, static ground device, "deadman control nozzle"			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
128. Fuel transfer procedures posted & enforced: Date of last procedure checked			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
129. General housekeeping: No visible leaks			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
130. Spill prevention equipment provided; curbs, drip pans, sumps, etc.: How is pollution prevented?			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
131. Ladder secured & in good condition			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
132. Pressurized tanks rated for pressure: Certification expiry date			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
133. Overfill: If tank overfills, what happens to spill?			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
134. Flammable liquids stored properly & labeled: Away from heat, oxygen bottles, oxidizing agents			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
135. Fire extinguishers provided: Available nearby			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
136. "No smoking" signs: Must be clearly visible			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
137. Items prevented from falling: Toe plate, cages, otherwise secured			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
138. Supplies stacked neatly on shelves			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
139. Wiring & outlets in good order, lighting adequate			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
140. Trash containers; covered container for oil saturated rags			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
141. Walkways clean			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
142. Combustibles away from light fixtures: Kept separate & clearly labeled/hazard signs			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
143. Pallets of sack material & mud properly stacked in an orderly fashion			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
144. Torn sacks cleaned up; kept to a minimum			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
145. Caustic soda & other hazardous chemical: Properly labeled, stored & handled	General [Chemicals] of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
146. No asbestos products ("flo-seal", etc.) on location			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
147. Chemical warning signs			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
148. Adequate ventilation			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
149. Light work			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
150. Eye wash & personal protective equipment available & used			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
151. Forklift properly maintained & operated safely: Driver properly trained/ qualified			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
152. Material Safety Data Sheets (MSDS): Readily available, copies with medics & HSE, and operational areas			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
153. Paint & paint thinner containers covered	General [Storage] of Oil & Gas (Safety in Drilling and Production) 1974 Regulations of Mines Act 1923	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
154. Explosion proof lighting & ventilation provided for paint storage			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
155. Safety cans available or transporting of paint thinner			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
156. Spill prevention equipment provided, curbs, drip, pans, drains, sumps etc.			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
157. Chemical warning signs			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
158. Eye wash and protective equipment			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
159. Flammable liquid stored and labeled properly			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
160. General housekeeping			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
161. Quarterly basis, monitoring of Effluents for the given parameters and reporting to provincial EPA: (i) Flow (ii) pH = 6 – 9 (iii) Temperature Increase = < 3 C (iv) BOD5 = 80 mg/l (v) COD = 150 mg/l	Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by	DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
(vi) TSS = 200 mg/l (vii) TDS = 3500 mg/l (viii) Oil/Grease = 10 mg/l (ix) Phenol = 0.1 mg/l (x) Chloride = 1000 mg/l	Industry) Rules 2001, SRO 528(1)/2001 Sindh Environmental Industrial Waste Water, Effluents, Domestic, Sewerage, Industrial Air Emission and Ambient Airs, Noise For Vehicles, Air Emissions for Vehicles and Drinking Water Quality Standards 2015 Sindh Environmental Quality Standards (Self-Monitoring & Reporting by Industry) Rules 2014 Punjab Environmental Quality Standards for Municipal & Liquid Industrial Effluent, 2016					
162. Quarterly basis, monitoring of Emissions for the given parameters and reporting to provincial EPA: (i) CO = 800 mg/Nm ³ (ii) Hydrogen Sulphide = 10 mg/Nm ³ (iii) PM10 = 300 mg/Nm ³ (iv) SOx = 100 ug/Nm ³ (annual average); 400 ug/Nm ³ (max. 24-hrs interval); 100 tons per day (Based on one percent sulphur content in fuel oil.) (v) NOx = 130 nanogram per joule of heat input (vi) NOx = 400 mg/Nm ³ (gas fired power plants) (vii) NOx = 600 mg/Nm ³ (oil fired power plants)	Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by Industry) Rules 2001, SRO 528(1)/2001 Sindh Environmental Industrial Waste Water, Effluents, Domestic,	DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
	Sewerage, Industrial Air Emission and Ambient Airs, Noise For Vehicles, Air Emissions for Vehicles and Drinking Water Quality Standards 2015 Sindh Environmental Quality Standards (Self-Monitoring & Reporting by Industry) Rules 2014 Punjab Environmental Quality Standards for Industrial Gaseous Emissions, 2016					
163. Annual basis, monitoring of Diesel Vehicle Exhausts: (i) CO = 4.0 g/kWh [ECE R-49] for Trucks and Buses + Large good vehicles + Older Vehicles (ii) HC = 1.1 g/kWh [ECE R-49] for Trucks and Buses (iii) HC = 7.0 g/kWh [ECE R-49] for Large good vehicles and Older Vehicles (iv) NOx = 7.0 g/kWh [ECE R-49] for Trucks and Buses (v) NOx = 1.1 g/kWh [ECE R-49] for Large good vehicles and Older Vehicles (vi) PM = 0.15 g/kWh [ECE R-49] for Trucks and Buses + Large good vehicles + Older Vehicles (vii) Noise 85 db(A) sound meter at 7.5 meters from the source	Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by Industry) Rules 2001, SRO 528(1)/2001 Sindh Environmental Industrial Waste Water, Effluents, Domestic, Sewerage, Industrial Air Emission and Ambient Airs, Noise For Vehicles, Air Emissions for Vehicles and Drinking Water Quality Standards	DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production																												
	2015 Punjab Environmental Quality Standards for Motor vehicle Exhaust and Noise, 2016																																
164. Annual basis, monitoring ambient air quality (due to flare/vent): <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Sulphur Dioxide (SO₂)</td> <td style="width: 25%;">Annual Average* = 80 ug/m³ 24 hours** = 120 ug/m³</td> <td style="width: 60%;">Ultraviolet Fluorescence method</td> </tr> <tr> <td>Oxides of Nitrogen as (NO)</td> <td>Annual Average* = 40 ug/m³ 24 hours** = 40 ug/m³</td> <td>Gas Phase Chemiluminescence</td> </tr> <tr> <td>Oxides of Nitrogen as (NO₂)</td> <td>Annual Average* = 40 ug/m³ 24 hours** = 80 ug/m³</td> <td>Gas Phase Chemiluminescence</td> </tr> <tr> <td>O₃</td> <td>1 hour = 130 to 180 ug/m³</td> <td>Non dispersive UV absorption method</td> </tr> <tr> <td>Suspended Particulate Matter (SPM)</td> <td>Annual Average* = 360 to 400ug/m³ 24 hours** = 500 to 550 ug/m³</td> <td>High Volume Sampling, (Average flow rate not less than 1.1 m³/minute)</td> </tr> <tr> <td>Respirable Particulate Matter.PM₁₀</td> <td>Annual Average* = 120 to 200 ug/m³ 24 hours** = 150 to 250 ug/m³</td> <td>B Ray absorption method</td> </tr> <tr> <td>Respirable Particulate Matter. PM_{2.5}</td> <td>Annual Average* = 25 to 40 ug/m³ 24 hours** = 40 to 75 ug/m³</td> <td>B Ray absorption Method</td> </tr> <tr> <td>Lead (Pb)</td> <td>Annual Average* = 1.0 to 1.5 ug/m³ 24 hours** = 1.5 to 2 ug/m³</td> <td>ASS Method after sampling using EPM 2000 or equivalent Filter Paper</td> </tr> <tr> <td>Carbon Monoxide (CO)</td> <td>8hours** = 5 mg/m³ 1 hour** = 10 mg/m³</td> <td>Non Dispersive Infra Red (NDIR) method</td> </tr> </table>	Sulphur Dioxide (SO ₂)	Annual Average* = 80 ug/m ³ 24 hours** = 120 ug/m ³	Ultraviolet Fluorescence method	Oxides of Nitrogen as (NO)	Annual Average* = 40 ug/m ³ 24 hours** = 40 ug/m ³	Gas Phase Chemiluminescence	Oxides of Nitrogen as (NO ₂)	Annual Average* = 40 ug/m ³ 24 hours** = 80 ug/m ³	Gas Phase Chemiluminescence	O ₃	1 hour = 130 to 180 ug/m ³	Non dispersive UV absorption method	Suspended Particulate Matter (SPM)	Annual Average* = 360 to 400ug/m ³ 24 hours** = 500 to 550 ug/m ³	High Volume Sampling, (Average flow rate not less than 1.1 m ³ /minute)	Respirable Particulate Matter.PM ₁₀	Annual Average* = 120 to 200 ug/m ³ 24 hours** = 150 to 250 ug/m ³	B Ray absorption method	Respirable Particulate Matter. PM _{2.5}	Annual Average* = 25 to 40 ug/m ³ 24 hours** = 40 to 75 ug/m ³	B Ray absorption Method	Lead (Pb)	Annual Average* = 1.0 to 1.5 ug/m ³ 24 hours** = 1.5 to 2 ug/m ³	ASS Method after sampling using EPM 2000 or equivalent Filter Paper	Carbon Monoxide (CO)	8hours** = 5 mg/m ³ 1 hour** = 10 mg/m ³	Non Dispersive Infra Red (NDIR) method	Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by Industry) Rules 2001, SRO 528(1)/2001 Sindh Environmental Industrial Waste Water, Effluents, Domestic, Sewerage, Industrial Air Emission and Ambient Airs, Noise For Vehicles, Air Emissions for Vehicles and Drinking Water Quality Standards 2015 Punjab Environmental Quality Standards for Ambient Air, 2016	DG EPA Federal/ Provincial	--	--	<input checked="" type="checkbox"/>	
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Carbon Monoxide (CO)	8hours** = 5 mg/m ³ 1 hour** = 10 mg/m ³	Non Dispersive Infra Red (NDIR) method																															
* Annual arithmetic mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval.																																	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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			Seismic	Drilling	Production					
<p>** 24 hourly /8 hourly values should be met 98% of the time in a year. 2% of the time, it may exceed but not on two consecutive days.</p>										
<p>165. Quarterly basis, monitoring noise levels:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Noise –dB(A) Leq* 55 (Day Time); 45 (Night Time)</td> <td style="width: 50%;">Residential Camp Area</td> </tr> <tr> <td>Noise –dB(A) Leq* 75 (Day Time); 65 (Night Time)</td> <td>Engine Hall, Plant Premises</td> </tr> </table> <ol style="list-style-type: none"> 1. Day time hours: 6.00 a.m to 10.00 p.m. 2. Night time hours: 10.00 p.m. to 6.00 a.m. 3. Silence zone: Zone which are declared as such by the competent authority. An area comprising not less than 100 meters around hospitals, educational institutions and courts. 4. Mixed categories of areas may be declared as one of the four above-mentioned categories by the competent authority. <p>*dB(A) Leq: Time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.</p>							Noise –dB(A) Leq* 55 (Day Time); 45 (Night Time)	Residential Camp Area	Noise –dB(A) Leq* 75 (Day Time); 65 (Night Time)	Engine Hall, Plant Premises
Noise –dB(A) Leq* 55 (Day Time); 45 (Night Time)	Residential Camp Area									
Noise –dB(A) Leq* 75 (Day Time); 65 (Night Time)	Engine Hall, Plant Premises									
<p>166. Flammable Liquids Monitoring at Condensate Storage Tanks, Refueling Area, Condensate Loading Areas, Chemical Storage (Need basis/ Annually)</p> <ul style="list-style-type: none"> (i) Methanethiol (Methyl Mercaptan) Odor Threshold: 0.002 ppm TWA: 10 ppm STEL: 15 ppm (ii) Benzene Odor Threshold: 1 ppm TWA: 1 ppm STEL: 5 ppm (iii) Toulene Odor Threshold: 1 ppm 										
		<p>Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by Industry) Rules 2001, SRO 528(1)/2001</p> <p>Punjab Environmental Quality Standards for Noise, 2016</p>	<p>DG EPA Federal/ Provincial</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
		<p>OSHA</p>	<p>EPA</p>	<p>--</p>	<p>--</p>	<input checked="" type="checkbox"/>				

OIL AND GAS DEVELOPMENT COMPANY LIMITED

HSE REGULATORY MATRIX

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)															
			Seismic	Drilling	Production																
(iv) Xylene Odor Threshold: 1 ppm TWA: 150 ppm STEL: 150 ppm (v) Methanol (Methyl Hydroxide/ Monohydroxymethane) TWA: 200 ppm STEL: 250 ppm																					
167. Notify employees on initiation/ reassignment of employment amidst following atmospheric condition and provide continuous monitoring equipment, SCBA/ SAR, buddy system, wind sock, warning signs if levels exceed and provide Emergency Preparedness & Response Plan (i) H2S TWA: 10 ppm STEL: 15 ppm (ii) SO2 TWA: 2 ppm STEL: 5 ppm	6.1- 6.4 Safety Procedure & ER of DGPC Guidelines for Operational SHE Management 1996	DGPC	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
168. National Standards for Drinking Water Quality <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Properties/ Parameters</th> <th style="width: 25%;">Proposed Standard Values For Pakistan</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="background-color: #f2f2f2;">Bacterial</td> </tr> <tr> <td>1.</td> <td>All water intended for drinking (E.Coli or Thermotolerant Coliform bacteria)</td> <td>Must not be detectable in any 100 ml sample</td> </tr> <tr> <td>2.</td> <td>Treated water entering the distribution system (E.Coli or thermotolerant coliform and total coliform bacteria)</td> <td>Must not be detectable in any 100 ml sample</td> </tr> <tr> <td>3.</td> <td>Treated water in the distribution system</td> <td>Must not be detectable in any 100 ml sample. In case of large</td> </tr> </tbody> </table>	#	Properties/ Parameters	Proposed Standard Values For Pakistan	Bacterial			1.	All water intended for drinking (E.Coli or Thermotolerant Coliform bacteria)	Must not be detectable in any 100 ml sample	2.	Treated water entering the distribution system (E.Coli or thermotolerant coliform and total coliform bacteria)	Must not be detectable in any 100 ml sample	3.	Treated water in the distribution system	Must not be detectable in any 100 ml sample. In case of large	Pakistan Environment Protection Act XXXIV, 1997, National Environmental Quality Standards (NEQS), NEQS (Self Monitoring and Reporting by Industry) Rules 2001, SRO 528(1)/2001 Sindh Environmental Industrial Waste Water, Effluents, Domestic, Sewerage, Industrial Air Emission and Ambient	DG EPA Federal/ Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
#	Properties/ Parameters	Proposed Standard Values For Pakistan																			
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1.	All water intended for drinking (E.Coli or Thermotolerant Coliform bacteria)	Must not be detectable in any 100 ml sample																			
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			Seismic	Drilling	Production		
	(E.coli or thermo tolerant coliform and total coliform bacteria) supplies, where sufficient samples are examined, must not be present in 95% of the samples taken throughout any 12-month period.	Airs, Noise For Vehicles, Air Emissions for Vehicles and Drinking Water Quality Standards 2015					
Physical							
4.	Colour	≤ 15 TCU				Punjab Environmental Quality Standards for Drinking Water, 2016	
5.	Taste	Non objectionable/ Acceptable					
6.	Odour	Non objectionable/ Acceptable					
7.	Turbidity	< 5 NTU					
8.	Total Hardness as CaCO ₃	< 500 mg/l					
9.	TDS	< 1000					
10.	pH	6.5-8.5					
Radioactive							
11.	Alpha Emitters bq/L or pCi	0.1					
12.	Beta emitters	1					
Chemical							
	<i>Essential Inorganics</i>	<i>mg/Litre</i>					
13.	Aluminum (Al) mg/l	≤0.2					
14.	Antimony (Sb)	≤0.005					
15.	Arsenic (As)	≤0.05					
16.	Barium (Ba)	0.7					
17.	Boron (B)	0.3					
18.	Cadmium (Cd)	0.01					
19.	Chloride (Cl)	<250					
20.	Chromium (Cr)	≤0.05					
21.	Copper (Cu)	2					
Toxic							
	<i>Toxic Inorganics</i>	<i>mg/Litre</i>					
22.	Cyanide (CN)	≤0.05					
23.	Fluoride (F) ⁺	≤1.5					
24.	Lead (Pb)	≤0.05					
25.	Manganese (Mn)	≤0.5					
26.	Mercury (Hg)	≤0.001					
27.	Nickel (Ni)	≤0.02					
28.	Nitrate (NO ₃) ⁺	≤50					

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">29.</td> <td style="width: 60%;">Nitrite (NO2)*</td> <td style="width: 30%;">≤3</td> </tr> <tr> <td>30.</td> <td>Selenium (Se)</td> <td>0.01</td> </tr> <tr> <td>31.</td> <td>Residual chlorine</td> <td>0.2 – 0.5 at consumer end 0.5-1.5 at source</td> </tr> <tr> <td>32.</td> <td>Zinc (Zn)</td> <td>5.0</td> </tr> </table>	29.	Nitrite (NO2)*	≤3	30.	Selenium (Se)	0.01	31.	Residual chlorine	0.2 – 0.5 at consumer end 0.5-1.5 at source	32.	Zinc (Zn)	5.0						
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32.	Zinc (Zn)	5.0																
169. Fatal accident - Inform CIM immediately by phone or fax - Notice in Form-VIII within 48 hours - Place of accident shall not be disturbed for 3 clear days	Sec. 20 (1)-a, Sec. 20(1)-b, Reg. 10 (1) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974	Chief Inspector of Mines, Ministry of Petroleum and Natural Resources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
170. Serious accident - Inform CIM immediately by phone or fax - Notice in Form-VIII within 48 hours - Final accident report in Form-IX within 3 months	Sec. 3(k), Sec.20 (1)-a, Reg. 10(1) & 10(5) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
171. Minor accident - Notice on Form-VIII within 15 days - Final accident report in Form-IX within 3 months	Sec. 20 (2), Reg. 10(2) & 10(5) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
172. Dangerous occurrence - Inform CIM immediately by phone or fax - Notice in Form-VIII within 48 hours	Sec.20 (1)-b-c-d-e-f-g Reg. 10(1) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
173. Minor or Serious accident converts into fatal accident - Inform CIM immediately by phone or fax - Notice in Form-VIII within 48 hours giving reference to the earlier notice	Reg. 10(3) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
174. Minor accident converts into serious accident - Inform CIM immediately by phone or fax - Notice in Form-VIII within 48 hours giving reference to the earlier notice	Reg. 10(4) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
175. Detection of Occupational Disease; Notice in Form-X to CIM within 48 hours	Reg. 11 of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
176. Detection of Epidemic Disease; Notice in Form-X to CIM within 48 hours	Reg. 11 of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
177. End of the year Returns to CIM; Annual Returns in Form-I, II, III, IV & V to CIM on or before 21 st February	Reg. 3(1) of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
178. Change in name or ownership of a well or field (within 07 days, CIM informed in writing)	Reg. 7 of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
179. New appointment of agent or manager or change of address or contact numbers (within 07 days, CIM informed in writing)	Reg. 8 of Returns, Notices and Records, Oil and Gas (Safety in Drilling and Production) Regulations 1974		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Requirement	Regulation, Law, Recommended Practice	Authority/ Stakeholders	Applicable			Status of compliance with regulations/ Comments (or Action taken in case of non-compliance)
			Seismic	Drilling	Production	
180. Employment Record: Register of employees schedule A	Sec. 28(1), Rule-11 of Returns, Notices and Records, Consolidated Mine Rules,1952		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
181. Overtime Record: Register of overtime schedule F	Sec. 25-a(3), Rule-23 of Returns, Notices and Records, Consolidated Mine Rules,1952		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
182. Annual leaves Record: Register of annual leaves- schedule G	Rule 23-A of Returns, Notices and Records, Consolidated Mine Rules,1952		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
183. Casual leaves Record: Register of causal leaves, sick leave, and festival holidays schedule F	Rule 23-A of Returns, Notices and Records, Consolidated Mine Rules,1952		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
184. <u>General duties of Employer (Location/ Area Manager)</u> Every employer shall inter-alia ensure that there exists effective method for: <i>a) systematically identifying existing standards to workers at work; and</i> <i>b) systematically identifying new hazards to workers at workplace and</i> <i>c) regularly assessing each hazard identified and determining whether or not it is a significant hazard.</i> Where there occurs any accident or harm, he shall take all practicable steps to ensure that the occurrence is so investigated as to determine whether it was caused by or arise from a significant hazard. Without prejudice to the generality of the duty of an employer	Section 4-6 of The Sindh Occupational Safety And Health Act 2017	Directorate of Labor Sindh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
<p>under the preceding sub-sections the duty of the employer shall:</p> <p>a) provide and apply of processes systems of work and tasks to be safe and without risks of injury to health.</p> <p>b) provide and maintain tools, machinery, equipment and appliances which are safe and without risks of injury to worker's health</p> <p>c) make arrangements to ensure the safety and absence of risk of injury to health of workers in connections with the use, handling, storage, disposal and transport of articles, materials and substances</p> <p>d) make arrangements to control and prevent physical , chemical, biological, radiological, ergonomics, psychosocial or any other hazards affect the safety and health of workers and other persons at workplace.</p> <p>e) provide such information, instructions, training and supervision as in necessary to ensure safety and health at work of all workers;</p> <p>f) maintain workplace or place of work in a condition which is safe, clean, orderly and without risks of injury to health and the provisions and maintenance of safe means of access to and egress from it;</p> <p>g) inform the workers in an understandable manner before any work commences, the hazards associated with their work risk involved and the preventive and protective measures that need to be taken;</p> <p>h) provide for the workers, where necessary (when hazards cannot be otherwise eliminated and controlled) adequate protective clothing and protective equipment of a type approved by Government to prevent every risk of injury and of adverse effects on health;</p> <p>i) maintain particulars of all accidents occurring at the workplace;</p> <p>j) provide measures, where necessary including adequate first aid arrangements to deal with emergencies dangerous occurrences accidents and industrial disasters.</p>						

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			Seismic	Drilling	Production	
k) take all practical measures for the prevention of fires and for the provision of safety measures in the event of fire.						
<p>185. <u>General duties of worker and volunteer</u></p> <p>It shall be the duty of every worker and volunteer while at workplace to ensure;</p> <p>a) The safety and health of the other persons who may be affected by acts or omission at workplace of that worker and shall not willfully do anything to endanger himself or others;</p> <p>b) That the worker and volunteer cooperates with the employer or any other on whom a duty or requirement, in fulfilling such duty or requirement;</p> <p>c) That the worker and volunteer shall use any protective clothing and protective equipment provided to that worker; &</p> <p>d) That the worker and volunteer does not willfully interfere with or willfully misuse any means, appliance, convenience or equipment or any other thing provided for securing the safety and health of person at the workplace.</p> <p>If an issue arises as to unsafe work, which poses an immediate threat to the safety or health of workers and volunteer, the matter shall be resolved through dispute resolution procedures. Where the threat cannot be controlled, the worker or volunteer affected thereby may cease work. Provided that where work is ceased for reasons explained above, the employer has the right to direct the concerned workers and volunteers to undertake temporary alternative work.</p> <p>A worker shall also report any occupational accident, occupational disease, dangerous occurrences or commuting accident in accordance with occupational safety and health policy applying at that place of work.</p>	Section 8 of The Sindh Occupational Safety And Health Act 2017		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
<p>186. <u>General duties of Supplier as regards articles and substances for use at work.</u></p> <p>It shall be the duty of supplier who designs, manufactures, imports or supplies any article for use at workplace to take specified steps sufficient;</p> <p><i>i) to ensure, so far as is reasonably practicable, that the article is so designated and constructed as to be safe and without risks to health when properly used.</i></p> <p><i>ii) to carry out or arrange for carrying out of such testing and examination as may be necessary for the performance of the duty imposed on him by the preceding paragraph.</i></p> <p><i>iii) to take such steps as are necessary to secure that there will be available in connection with the use of the article at work adequate information about the use for which it is designed and has been tested and about any condition necessary to ensure that when put to that use, it will be safe and without risk to health</i></p> <p><i>iv) to ensure so far as reasonably practicable that the substance is safe and without risk to health when properly used.</i></p> <p>It shall be the duty of supplier who designs manufactures or supplies any tools, machinery, equipment or substance for use at work to ensure:</p> <p><i>i) that such tools, machinery, equipment or substance is safe and without risk of injury to health when correctly used with regard to safe practices</i></p> <p><i>ii) that persons to whom such tools, machinery, equipment or substance are supplied be proved with all information as regards handling, commissioning use and maintenance.</i></p> <p>Explanation:- <u>Supply of tools, machinery and equipment includes handling, assembling, installing, erecting and testing.</u></p>	<p>Section 9 of The Sindh Occupational Safety And Health Act 2017</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			Seismic	Drilling	Production	
187. Where an accident occurs at workplace, no person shall, unless authorized to do so by an Inspector, remove or in any way interfere with or disturb any wreckage, articles, substance or thing related to the incident except to the extent necessary.	Section 24 of The Sindh Occupational Safety And Health Act 2017		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
188. Effective & suitable provision shall be made for securing & maintaining in every work-room: - Adequate ventilation by the circulation of fresh air; and - Such temperature as will secure to workers therein reasonable conditions of comfort and prevent injury to health, and in particular: - The walls & roofs shall be of such material and so designed that such temperature shall not be exceeded but kept as low as practicable - Such adequate measures as are practicable shall be taken to protect the workers by separating the process which produces extremely such temperature from the work room by insulating the hot parts or by other effective means.	Ventilation & temperature (Section 17) of Sindh Factories Act 2015	Directorate of Labor Sindh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
189. No stationary internal combustion engine shall be operated unless the exhaust is conducted into open air and the exhaust pipes are insulated to prevent scalding and radiation heat, and no internal combustion engine shall be operated in any room unless effective measures have been taken to prevent such accumulation of fumes.	Dust & fumes (Section 18) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
190. No work-room shall be over-crowded to an extent injurious to the health of the workers employed therein. There shall be provided for every worker employed in a work-room at least 500 ft ³ of space.	Overcrowding (Section 20) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
191. Lighting - Proper lighting in latrines, passages, stairs, hoists, factory ground and other parts - Lighting at regular working places not to be less than 6	Lighting (Sections 19 & 33-J) of Factory Act 1934 & Provincial Factory Rules		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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<p>feet candles (64.5 lux or lumens) at a level of 3 feet above the ground</p> <ul style="list-style-type: none"> - Lighting in the interior posts where persons pass not to be less than 1 foot candle (10.76 lux or lumens) at floor level - Emergency lighting of special points in work-room and passages to function automatically in case of a failure of the ordinary electric system 	Lighting (Section 21) of Sindh Factories Act 2015					
<p>192. Effective arrangements shall be made to provide and maintain at suitable points conveniently situated for all workers employed therein, a sufficient supply of wholesome drinking water. All such points shall legibly be marked as "Drinking Water" in a language understood by the majority of workers and no such point shall be situated within 20' of any washing place, urinal or latrine.</p> <p>193. Wherein more than 250 workers are ordinarily employed, provision shall be made for the cooling of drinking water during the hot weather by effective means and for distribution thereof and arrangement shall also be made for the daily renewal of water if not laid on.</p>	Drinking Water (Section 22) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>194. Sufficient latrines and urinals of prescribed types shall be provided conveniently situated and accessible to workers at all times while they are in the working areas; such latrines and urinals shall be adequately lighted and ventilated; all such latrines and urinals shall be maintained in a clean and sanitary condition at all times with suitable detergents or disinfectants or with both.</p>	Latrines and urinals (Section 23) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>195. Each worker shall be provided with a "hygiene card" in which during the month of January and July every year the entries shall be recorded after examination by appointed doctor to the effect that the worker is not suffering from any contagious or infectious disease. If a worker is found to be suffering from any contagious or infectious disease on an examination, he shall not be appointed on work till he is declared free of such a</p>	Precautions against contagious or infectious disease (Section 25) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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disease.						
196. In every factory wherein not less than 500 workers are ordinarily employed, the occupier or manager shall employ such number of Welfare Officers, having such qualifications, to perform such duties and on such terms and conditions as may be prescribed.	Welfare Officer (Section 28) of Sindh Factories Act 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
197. Gauge glasses to Boilers having pressure exceeds 100 lbs per sq. inch	Pressure Plants Sections 33) of Factory Act 1934 & Provincial Factory Rules		--	--	<input checked="" type="checkbox"/>	
198. Register for examination of lifting machines	Crane and other lifting machinery (Sections 33) of Factory Act 1934 & Provincial Factory Rules		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
199. Testing of crane and other hoisting machines with gear to be tested with a 25% excess proof load with safe working load of upto 20 tons			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
200. Safety measures to prevent any person from falling into the Pits, Sumps & Opening in Floor	Pits, Sumps & Opening in Floor (Sections 33E) of Factory Act 1934 & Provincial Factory Rules		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
201. Carrying of Loads -No adult male worker to carry load beyond 200 lbs. - Women over 17, max. weight 50 lbs. -Male between 15 & 17, max. weight 50 lbs. - Female between 15 & 17, max. weight 40 lbs. - Child below 15 years, max. weight 35 lbs.	Carrying of loads (Sections 33 f) of Factory Act 1934 & Provincial Factory Rules		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
202. Provision of effective screen and goggles for the protection of eyes	Protection of Eye (Sections 33-G) of Factory Act 1934 & Provincial Factory Rules		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

OIL AND GAS DEVELOPMENT COMPANY LIMITED

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			Seismic	Drilling	Production	
203. Provision of egress or manhole of 18" dia. for confined space with dangerous fumes	Precautions against dangerous fumes (Sections 33 K) of Factory Act 1934 & Provincial Factory Rules		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
204. Pits to be used for storage or disposal of produced saltwater should be lined with the capability of not causing pollution of surrounding agricultural land or pollution of surface or subsurface water. Evaporation ponds used for disposal of production water to be constructed to prevent vertical and horizontal seepage.	10.1.2 Produced Water Pits of DGPC Guidelines for Operational SHE Management 1996		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
205. Installation Guidelines –Underground Injection Well Disposal: (i) Surface Casing to be set at least 200 feet below lowermost underground source of drinking water and cemented back to the surface (ii) Casing and cementing to take place as to prevent movement of fluids into or between underground sources of drinking water or agricultural sources of freshwater. (iii) Injection wells to be equipped with tubing set on a mechanical packer, no higher than 150 feet above the top of the disposal zone.	10.1.4 (b)-(d) Installation Guidelines – Underground Injection Well Disposal of DGPC Guidelines for Operational SHE Management 1996	DGPC/ EPA	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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206. Operating Guidelines –Underground Injection Well Disposal (i) Depth (meters) of the target zone of injection to be so that it has no current or potential future use as a reservoir for drinking water or agricultural use. (ii) Injection between the outermost casing protecting the aquifers and the well bore to be prohibited. (iii) Calculation of maximum injection pressure (psi) at the wellhead so as to assure that the pressure during injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to the aquifers which must be protected. (iv) Injection pressure not to cause the movement of injection or formation fluids into an underground source of drinking water.	10.1.5 (a)-(d) Operating Guidelines – Underground Injection Well Disposal of DGPC Guidelines for Operational SHE Management 1996		--	--	<input checked="" type="checkbox"/>	
207. Observation of injection pressure, flow rate and cumulative volume at reasonable intervals no greater than thirty days: a. Weekly for produced fluid operations; b. Monthly for enhanced recovery operations; and c. Daily for injection of liquid hydrocarbons and injection for withdrawal of stored hydrocarbons.	10.1.6 (b) Monitoring Guidelines – Underground Injection Well Disposal of DGPC Guidelines for Operational SHE Management 1996		--	--	<input checked="" type="checkbox"/>	
208. Discharge to Surface Water a. To ensure that the receiving water has adequate assimilation capacity. b. The produced water must be tested and must be below 500 ppm chlorides and 10 ppm oil and grease content to allow discharge. c. To prohibit from discharging produced water, where a sensitive resource is defined as: a coral community, mangrove, fish farm or intensive commercial fishing	10.1.8 (a)-(d) Discharge to Surface Water – Underground Injection Well Disposal of DGPC Guidelines for Operational SHE Management 1996		--	--	<input checked="" type="checkbox"/>	

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area, tourism recreation area, national park or area which is a known habitat for endangered, threatened or rare species. d. Quarterly reports of discharge volumes and quality of the discharge to be sent to Federal EPA and other interested provincial government agencies on a quarterly basis.						
209. Annual Inspection of Boilers for renewal of Certificate	Section 8(3), 8(4) & Rule 25(a) of Boiler Act 1923 & Provincial Boiler Rules 1926 (Amended 1986)	Provincial Directorate of Industries & Mineral Development (Boiler Inspection Wing)	--	--	<input checked="" type="checkbox"/>	
210. Prohibition of Certain Discharges	Section 11 of Boiler Act 1923 & Provincial Boiler Rules 1926 (Amended 1986)		--	--	<input checked="" type="checkbox"/>	
211. Permission for Handling of Hazardous Material	Section 14 of Boiler Act 1923 & Provincial Boiler Rules 1926 (Amended 1986)		--	--	<input checked="" type="checkbox"/>	
212. Operator (or ensure Contractor) to obtain License form Inspector of Explosives for: a) storage/ possession and use of explosive (and detonator) and its accessories; and b) transportation of explosive (and detonator) and its accessories from licensed premises to specified place therein.	Explosive Rule 2010/ Explosives Act, 1884 (for Import And Storage Of Explosives Materials)	Inspector of Explosives, Provincial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
213. To obtain the License for the Extraction of LPG	Liquefied Petroleum Gas (Production and Distribution) Rules, 2001 and the OGRA Ordinance 2002	Oil and Gas Regulatory Authority (OGRA)	--	--	<input checked="" type="checkbox"/>	

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214. A licensee shall locate, construct, maintain and operate his works connected with storage, filling and transportation of LPG in accordance with a license and shall comply with the provisions of the gas cylinder rules.	Section 26. Protection of Public of Petroleum Rules 1937/ Gas Cylinder Rules 1940	Inspector of Explosives, Provincial	--	--	<input checked="" type="checkbox"/>	
215. A licensee shall mark with conspicuous signs on the place at which the storage tanks are located.	Section 28. Marking of Storage of Petroleum Rules 1937		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
216. <u>Application for license.</u> An application for grant of license shall be filed with the Agency in Form-A of Schedule-II. 217. <u>Validity of license.</u> A license shall be valid for a period of one year from the date of issue.	Section 4 & 13 of The Hazardous Substances Rules, 2014	Ministry of Environment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
218. <u>Packing and labeling.</u> (1) A container of a hazardous substance shall be of such size, material and design as to ensure that – (a) it can be stored, transported and used without leakage and safely; (b) the hazardous substance therein does not deteriorate in a manner as to render it more likely to cause, directly or in combination with other substances, an adverse environmental effect. (2) The following information shall be printed conspicuously, legibly and indelibly on every container of a hazardous substance:- (a) name of the hazardous substance; (b) name, address and license number of the licensee; (c) net contents (volume or weight); (d) date of manufacture and date of expiry, if any; (e) a warning statement comprising – (i) the word "DANGER!" in red on a contrasting background; (ii) a picture of a skull and cross-bones; (iii) pertinent instructions for use, storage and handling and safety precautions relating thereto.	Section 9 of The Hazardous Substances Rules, 2014		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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<p>(f) instructions regarding return or disposal of the empty container: Provided that if the hazardous substance has an inner container as well as an outer container, the information shall be printed on both containers: Provided further that if it is impracticable to print the aforesaid information on the container itself due to its size, material or design, the same shall be printed on a label or tag which shall be conspicuously affixed or attached to the container in such manner as to render it difficult to remove. The empty chemical containers or drums may not be used for other purposes.</p> <p>(g) basic instructions mentioning immediate steps to be taken in case of any accident or emergency, preferably in local language.</p>						
<p>219. <u>Conditions for premises.</u></p> <p>(1) The premises in which a hazardous substance is generated, collected, consigned, treated, disposed of, stored or handled shall - (a) comply with the conditions specified in Schedule-IV; (b) be fitted with a notice on the outer door or gate bearing the following information:- (i) the words "DANGER ! HAZARDOUS SUBSTANCE!" in red, on a contrasting background; and (ii) a prominent picture of a skull and cross-bones.</p> <p>(2) In case of import of hazardous substances, proponent shall provide approval from Climate Change Division (International Convention Wing) Government of Pakistan.</p>	<p>Section 10 of The Hazardous Substances Rules, 2014</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>220. <u>General safety precautions.</u></p> <p>(1) A licensee shall ensure that the following safety</p>	<p>Section 11 of The Hazardous Substances Rules, 2014</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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<p>precautions are conveyed to persons to whom the hazardous substances are sold or delivered:- (a) carefully read and follow the instructions and safety precautions printed on the container; (Urdu or local language translation of the same may be preferably given to the local buyers); (b) when opening the container, wear protective clothing and equipment including helmet or cloth cap, safety spectacles or goggles, respirator or mask, rubber or plastic gloves, and work boots, as may be required; (c) avoid contact of the hazardous substance with exposed skin or eyes, and if such contact occurs, wash the exposed area immediately and consult a doctor; (d) avoid contaminating clothing, gloves and footwear with the hazardous substance, and if such contamination occurs, remove the clothing, gloves and footwear immediately and wash the same thoroughly before reuse; (e) do not eat, drink or smoke in the vicinity of hazardous substances.</p>						
<p>221. <u>Safety precautions for workers.</u></p> <p>A licensee shall ensure that the following safety precautions are taken in respect of workers employed by him for handling hazardous substances: (a) No worker aged below eighteen years or over sixty years shall be employed for any job involving physical handling of hazardous substances. (b) All workers shall be thoroughly trained in safety precautions for handling hazardous substances and shall be supervised by qualified supervisors. (c) Protective clothing and equipment comprising helmet or cloth cap, safety spectacles or goggles, respirators or masks, rubber or plastic gloves and work-boots shall be available for all workers who may be exposed to any hazardous substance, and no worker shall be permitted</p>	<p style="text-align: center;">Section 12 of The Hazardous Substances Rules, 2014</p>		☑	☑	☑	

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<p>on job unless and until he is wearing such protective clothing and equipment.</p> <p>(d) Adequate supply of water shall be made available to the workers for personal washing as well as for washing their protective clothing and equipment.</p> <p>(e) Protective clothing and equipment of the workers shall be washed and cleaned as often as may be required to ensure their efficacy.</p> <p>(f) No worker shall be permitted to eat, drink or smoke till he has removed his protective clothing and equipment, washed his hands and face, and left the place of work.</p> <p>(g) All fire-fighting, emergency and safety equipment shall be frequently checked and properly maintained.</p> <p>(h) First-aid medical facility equipped with required antidotes shall be available in the premises, supervised by trained staff.</p> <p>(i) Medical check-up of all workers shall be carried out at the time of employment and at least once a year thereafter.</p> <p>(j) A record of every worker shall be maintained containing, amongst other details, his name and address, his medical check-up history, and the hazardous substances handled by him.</p>						
<p>222. <u>Notification of major accident.</u></p> <p>(1) Where a major accident occurs on the premises of a licensee, the licensee shall immediately notify the Agency concerned and shall submit within twenty four hours and weekly thereafter, a report in Schedule-V.</p> <p>(2) On receipt of the report, the Agency shall require the licensee to carry out a detailed environmental audit of the major accident and initiate necessary action, in accordance with the approved safety plan or otherwise, to control the major accident, mitigate its adverse environmental effect and prevent it from recurring.</p>	<p>Section 18 of The Hazardous Substances Rules, 2014</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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<p>223. <u>Waste management plan.</u></p> <p>(1) The waste management plan, if required to be submitted by an applicant under EPA Act, shall - <i>(a) provide for the generation, collection, transport and disposal of the hazardous waste in a manner which shall protect against an adverse environmental effect;</i> <i>(b) ensure that the hazardous waste is not mixed with nonhazardous waste, unless the applicant can prove that such mixing will better protect against an adverse environmental effect.</i></p> <p>(2) The waste management plan shall be reviewed every year by the licensee to take into consideration the development of new technologies and management practices which can better protect against an adverse environmental effect, and if required revised waste management plan and fresh environmental impact assessment shall be submitted with the application for renewal of license.</p> <p>(3) If the waste management plan provides for export of the hazardous waste, such export shall only be allowed if it is in accordance with a bilateral, multilateral or regional agreement or arrangement that conforms to the requirements of Article 11 of the Convention on the Control of Trans-boundary Movements of Hazardous Waste and Their Disposal, Basel, 1989.</p> <p>(4) The licensee shall inform the Agency on a yearly basis about - <i>(a) the quantity and characteristics of hazardous waste generated in the previous year; and</i> <i>(b) progress regarding implementation of the waste management plan.</i></p>	<p>Section 19 of The Hazardous Substances Rules, 2014</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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224. Operator to ensure general compliance with all standards stipulated in the Pakistan Nuclear Regulatory Authority ordinance, 2001 and the rules promulgated thereunder, if NORM (naturally occurring radioactive materials) is encountered in petroleum storage vessels during petroleum production operations.	Pakistan Nuclear Regulatory Authority Ordinance, 2001 (For NORM Deposits in Condensate Storage Tank)	Pakistan Atomic Energy Commission (PAEC)	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
225. Follow the procedure for obtaining the pertinent License(s) from the Pakistan Atomic Energy Commission.	Pakistan Nuclear Safety And Radiation Protection Regulations, 1990		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
226. Weld integrity inspections through Certified Radiography Tests; Compliance dose limits are followed.	PNA Guidelines		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
227. Act provides that the employer is bound to pay compensation to a worker where personal injury has resulted in the course of the work.	Workers Compensation Act, 1923	Ministry of Labor & Manpower, GOP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
228. Precautions to be adopted by consumers, owner electrical contractor, electrical workmen, licensees and other suppliers of energy: No electrical installation work, including additions, alterations, repairs adjustments to existing installation, except such replacement of lamps, and fans, fuses, switches and other component parts of the installations as in no way alters its capacity or character shall be carried out upon the premises or on behalf of any consumer or owner for the purposes of the supply of energy to such consumer or owner, except by an electrical contractor licensed by the Provincial Government in this behalf and under the direct supervision of a person holding certificate of competency issued by the Provincial Government.	Rule 48 of Electricity Rules 1937; Electricity Act 1910	Electric Inspector, Provincial	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			<i>Seismic</i>	<i>Drilling</i>	<i>Production</i>	
229. Construction, Insulation and earthing of electric supply-licensed apparatus: (i) All electrical supply-lines and apparatus shall be sufficient in power and size and of sufficient mechanical strength for the work they may be required to undergo and, so far as is practicable, shall be so constructed, installed, protected, worked and maintained as to prevent danger. (ii) All insulating material shall be chosen with special regard to the circumstances of its proposed use. It shall be of mechanical strength sufficient for its purpose, and, so far as practicable, shall be of such a character or so protected as fully to maintain its insulating properties under working conditions temperature and moisture. (iii) No live parts shall be so exposed as to be capable of being touched by persons not intended to have access to them, (iv) Every part of a system shall be kept efficiently insulated from earth, accept that: a) the neutral point of a poly phase system may be earthed at one pint only; b) the mid-voltage points of any system, other than a concentric system may be earthed at one point only.	Rule 49 of Electricity Rules 1937; Electricity Act 1910	Electric Inspector, Provincial	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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230. Identification of earth and earthed neutral conductor and position of switches and cut-outs therein: (i) An indication of a permanent nature shall be provided to the earthed or earthed neutral conductor, or the conductor which is to be connected thereto, to enable such conductor to be distinguished from any live conductor. (ii) No cut-out, link or switch arranged to operate simultaneously on the earthed conductor and live conductor shall be inserted or remain inserted in any earthed conductor of a two-wire system or in any earthed neutral conductor of multi wire two-wire system or in any earthed neutral conductor of a multi wire system or in any conductor thereto with the following exceptions: a) A link for testing purposes, or b) A switch for use in controlling a generator or transformer, or c) A switch or link in the connection between the earthed conductor or the earthed neutral conductor and earthed at a generating station or sub-station for use in testing and emergencies only.	Rule 51 of Electricity Rules 1937; Electricity Act 1910		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
231. Metal casings on any electric supply-line or apparatus: All metal casings or metallic covering containing or protecting any electric supply-line or apparatus shall be connected with earth and shall be so joined and connected across all junction-boxes and other openings as to make good mechanical and electrical connection throughout their whole length.	Rule 54 of Electricity Rules 1937; Electricity Act 1910		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
232. Distinction of Circuits of different pressures: The owner of every generating station, sub-station, junction-box, or pillar in which there are any circuits or apparatus intended for operating a different pressures, shall ensure that the respective circuits are readily distinguishable from one another.	Rule 56 of Electricity Rules 1937; Electricity Act 1910		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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233. Connection with earth of frames of generators etc.: The frame of every generator, stationery motor, and so far as is practicable, portable motor, and the metallic parts (not intended as conductors) of all transformers and regulating or controlling apparatus connected with the supply, shall be earthed by two separate and distinct connections with earth.	Rule 57 of Electricity Rules 1937; Electricity Act 1910		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
234. Lifting of Gas Cylinders: (i) Suitable cradles, slings, clamps or other effective means to be used when lifting cylinders with a hoist or crane (ii) Valves, shrouds and caps not to be used for lifting cylinders unless they have been designed and manufactured for this purpose (iii) Gas cylinders not to be raised or lowered on the forks of lift trucks unless adequate precautions are taken to prevent them from falling.	Gas Cylinder Rules 1940, Department of Explosives, Ministry of Industries and Production		--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
235. Transport of Gas Cylinders: (i) Fitting of suitable protective valve caps and covers to cylinders, when necessary, before transporting to help prevent moisture and dirt from gathering in the valve of the cylinder, in addition to providing protection during transport. (ii) Gas cylinders to be securely stowed to prevent them from moving or falling. (normally in the vertical position, unless instructions for transport state otherwise) Regulators and hoses to be disconnected from cylinders whenever practicable. (iii) Gas cylinders not to be projected beyond the sides or end of a vehicle (eg fork-lift trucks) (iv) Gas cylinders to be clearly marked to show their	Gas Cylinder Rules 1940, Department of Explosives, Ministry of Industries and Production	Inspector of Explosives, Provincial	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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(v) contents (including their UN Number) and the danger signs associated with their contents The transport of gas cylinders to be made subject to carriage requirements. For example, that: a) the vehicle is suitable for the purpose; b) the vehicle is suitably marked to show that it is carrying dangerous goods; c) the driver is suitably trained; and d) the driver carries the appropriate documentation about the nature of the gases being carried.			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
236. Storage of Gas Cylinders: (i) Gas cylinders not to be stored for excessive periods of time. (ii) Stocks of gas cylinders to be rotated to ensure first-in-is-first-used. (iii) Gas cylinders to be stored in a dry, safe place on a flat surface in the open air. If this is not reasonably practicable, store in an adequately ventilated building or part of a building specifically reserved for this purpose. (iv) Gas cylinders containing flammable gas should not be stored in part of a building used for other purposes. (v) Protect gas cylinders from external heat sources that may adversely affect their mechanical integrity. (vi) Gas cylinders should be stored away from sources of ignition and other flammable materials. (vii) Avoid storing gas cylinders so that they stand or lie in water. (viii) Ensure the valve is kept shut on empty cylinders to prevent contaminants getting in. (ix) Store gas cylinders securely when they are not in use. They should be properly restrained, unless designed to be freestanding. (x) Gas cylinders must be clearly marked to show what			--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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			<i>Seismic</i>	<i>Drilling</i>	<i>Production</i>	
they contain and the hazards associated with their contents. (xi) Store cylinders where they are not vulnerable to hazards caused by impact, e.g. from vehicles such as fork-lift trucks.						

Signature
Compliance "Checked" by Location HSE Rep.

Date:

Signature
"Endorsed" by Location In-Charge for due compliance

Date: