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Contents

1. Enviro	nmental and Social Risks	2
1.1 Envi	ironmental Risks	2
5.2.1	Exploration	
5.2.2	Oil Field Development and Transportation (Pipelines and Tankers)	
5.2.3	Refining	
5.2.4	Retail	
5.2.5	Decommissioning	6
5.3 Soci	ial Risks	7
5.3.1	Exploration	7
5.3.2	Oil Field Development and Transportation (Pipelines and Tankers)	8
5.3.3	Refining	1:
5.3.4	Retail	12
5.3.5	Decommissioning	13

1. Environmental and Social Risks

1.1 Environmental Risks

5.2.1 Exploration

Life Cycle Phase and Activity	Risks	Controls
Seismic Survey	 Habitat depletion, fragmentation and degradation - Land clearance/disturbance, loss of vegetation, erosion Opening up of previously inaccessible land to agriculture and development - habitat loss Use of explosives Atmospheric emissions: vehicular and plant exhaust emissions Pollutants (VOC, NOX, SOX, PM10, CO, CO2, etc) Greenhouse gas production Dust and noise local air quality Landscape scarring and visual impact - habitat fragmentation 	Minimize facility footprint - optimization of operations and processes to minimize energy and water consumption Emissions management- • Equipment maintenance and use of silencers, Noise and Vibration Management Plan • Emissions inventory, air quality monitoring and management, Air Quality Management Plan • Explosives – use non TNT (dynamite) based, or thumper trucks in preference to explosives Use of Best Available technology Not Entailing Excessive Cost (BATNEEC)
Exploratory Drilling	Gas venting and flaring Natural hazards and risks - well blow outs, localized land subsidence, land/water contamination	Emergency preparedness and spill prevention plan-

5.2.2 Oil Field Development and Transportation (Pipelines and Tankers)

Life Cycle Phase and	Risks	Controls
Activity		

Exploration and Production Drilling

Atmosphericemissions:

- Pollutants (VOC, NOX, SOX, PM10, CO, CO2, etc.)
- Greenhouse gas production
- Gas venting and flaring, releases of hazardous/volatile gases and greenhouse gases, odor, climate change
- Dust and noise local air quality

Natural hazards and risks - well blow outs, combustion and explosions, land and/or water contamination, toxic spillages

Drill muds and cuttings - release of contaminated water

Disruption and pollution of surface water (hydrological) and groundwater (hydrogeological) systems and flows - hydraulic fracturing

Pressure on natural resources - loss of habitat

Climate change - Extreme weather, sea level rise, temperature rise and water availability

Regulatory risks – increasing regulatory burden as development moves into new and more challenging geographies and less well-known technologies.

Emergency preparedness and spill prevention plan

- Controlled venting
- Control and management of pressurized oil and gas from boreholes
- Use of low impact extraction chemicals where alternatives exist
- Water management securing of a sustainable water supply, recycling and reuse wastewater

Marine management plan - especially for offshore drilling

Use of Best Available technology Not Entailing Excessive Cost (BATNEEC)

Environmental and Social Impact Assessment forward looking assessment of

- climate impacts and need to adapt to changing climate conditions over the life of the asset
- regulatory developments

Separation,	Disruption and pollution of surface water	Water management - securing of a sustainable water
Compression and	(hydrological) and groundwater (hydrogeological)	supply, recycling and reuse wastewater
Dehydration	odor - Sulphur production	Emissions management - air quality monitoring and management, Air Quality Management Plan
	Atmosphericemissions: • Release of hazardous/volatile gases, greenhouses gases, air	
Pipelines	 Habitat depletion, fragmentation and degradation – Land clearance/disturbance, loss of vegetation, erosion Opening up of previously inaccessible land to agriculture and development - habitat loss 	Emergency preparedness and spill prevention plan - leak detection systems, cathodic protection, and predictive maintenance in addition to a Habitat Restoration and Remediation Plan
	Localized geotechnical risks - e.g. subsidence	Water disposal and monitoring systems Waste
	Natural hazards and risks - pipeline/pumping station	Management
	leakage, leading to land/water contamination	Use of Best Available Technology Not Entailing Excessive Cost (BATNEEC)
	Significant engineering works	
	Hydrostatic testing	
	Liquid and Solid Waste (production and disposal) - e.g. Pigging (cleaning), sludge disposal	

Tankers (road and sea) – excluding port development	Atmospheric emissions: • Pollutants (VOC, NOX, SOX, PM10, CO, CO2, etc • Greenhouse gas production	Emissions management - emissions inventory, air quality monitoring and management, Air Quality Management Plan
	 Dust and noise (vehicles and seismic shots) 	Emergency preparedness and spill prevention plan
	Road haulage and sea transportation - oil spillages, discharge of tank washing residues and oily ballast water	Use of Best Available Technology Not Entailing Excessive Cost (BATNEEC) - e.g. appropriate transportation vessels and loading and unloading procedures
	Liquid and Solid Waste (production and disposal) - tanker loading and unloading	

5.2.3 Refining

Life Cycle Phase and Activity	Risks	Controls
Refining (new build)	 Habitat depletion, fragmentation and degradation – Land clearance/disturbance, loss of vegetation, erosion Opening up of previously inaccessible land to agriculture and development – habitat loss 	Habitat and biodiversity management
Refining (facility operations	Atmospheric emissions: gas venting and flaring, hazardous/volatile emissions, greenhouse gases, air quality, climate change noise,	Emissions management - emissions inventory, air quality monitoring and management, Air Quality Management Plan Emergency preparedness and spill prevention plan
	Pressure on natural resources - water use and hot water discharges	Use of Best Available Technology Not Entailing
	Odor	Excessive Cost (BATNEEC
	Toxic spillage - contaminated fire water	

5.2.4 Retail

Life Cycle Phase and Activity	Risks	Controls
Petrol Stations and Bulk Storage	Handling and bulk storage – natural risks and hazards Liquid and Solid Waste (production and disposal) - accidental spills and tank leakage, ground/water contamination	

5.2.5 Decommissioning

Life Cycle Phase and Activity	Risks	Controls
Planning and	Land rehabilitation and restoration	Rehabilitation and Remediation Management Plan
Execution		
	Site remediation / clean-up	

5.3 Social Risks

5.3.1 Exploration

Life Cycle Phase and Activity	Risks	Controls
Seismic Survey and Exploratory Drilling	Community health and safety - noise, vibration, dust creation, vehicular movement, emissions and air quality Strain on infrastructure and public nuisance - noise, odor, vibration, dust creation, transport movement, and air quality, strain on transport networks and local infrastructure Communicable diseases - spread of diseases to local/foreign populations Site security and vandalism Cultural / archaeological heritage - damage to /destruction of cultural/historical/archaeological/religious sites Impacts to existing land use: e.g. agriculture, leading to loss of livelihood; changes to access to water resources; impacts to nomadic/grazing routes. Impacts are usually only temporary.	governmental/national/regional/local

	Procurement and supply chain management Compliance with national/regional/local regulations or World Bank guidelines/IFC performance standards
	Compensation for any loss of livelihood that can't be avoided.

5.3.2 Oil Field Development and Transportation (Pipelines and Tankers)

Life Cycle Phase and	Risks	Controls
Activity		
Exploration, Production	Community health and safety - noise, vibration, dust	Social / community baseline assessment - establish community
Drilling,	creation, transport movement, emissions and air quality	profiles (e.g. livelihoods and employment) in project area,
Separation,	social conflict and unrest	through detailed social baseline assessments to inform
Compression and		mitigation measures and the development of long term
Dehydration	Strain on infrastructure and public nuisance – noise, vibration, fore/explosions, dust creation, vehicular	agreed community investment/development
	movement, emissions and air quality, ability of social services capacity to absorb new/foreign populations (supply and demand) e.g. water resources, power, health, education, housing Communicable diseases - spread of diseases to	Management of interface between local communities and outsiders/foreign workers through stakeholder identification and consultation(including governmental/national/regional/local stakeholders)
	local/foreign populations Land acquisition - displacement - temporary and permanent land acquisition leading to poverty, social disruption, migration, involuntary resettlement requiring relocation and compensation claims	Cross-cultural community awareness training for project

Land acquisition - loss of access —loss of crops and land access/ use- nutritional source e.g. staple root crops

Loss of livelihood (income and employment

- Economic displacement, job competition
- Impact on livelihoods and land value, compensation claims), temporary/permanent relocation to communities

Employee health and safety - Employment and Labour standards, e.g. lower standards enabling child labour to takeplace

Disruption of Social / community cohesion and exclusion of vulnerable groups

- Breakdown of social networks and structures
- Socio-economic exclusion of ethnic minorities and indigenous peoples
- Socio-cultural tensions between local and foreign workforce from influx and outflow of migrants/ temporary workers and attraction of seasonal residents to project area

Stakeholder / public consultation and disclosure - inadequate consultation and disclosure with NGO"s, local and national advocacy groups, badly managed

Community investment and development - community investment (both long and short term) e.g. health care facilities, micro-finance initiatives and access to employment

Site security plans - security plans and awareness raising

Health and safety plans - including safe buffer zones around facilities and pipelines

Community health and safety plans - vaccinations and awareness raising on communicable diseases

Resettlement and relocation management - including proper compensation, restoration of livelihoods and living standards developed based on socioeconomic studies

Human resources policies - maximization of local employment

Cultural heritage / archaeology management - identification, classification and protection of cultural / archaeological sites in accordance with the country's laws/internationalstandards and conventions

Community / stakeholder relations management

	social and community relations, negative exposure, compensation claims Impacts on local procurement and business - e.g. unregulated trade Host country governance, national economy and revenue transparency - economy, sustainable growth and inflation, bribery, corruption and extortion, revenue transparency Site Security – inappropriate/heavy handed responses of security personnel may lead to injury to local communities and workers.	
Pipelines	As Exploration, Production Drilling, Separation, Compression and Dehydration	As Exploration, Production Drilling, Separation, Compression and Dehydration
Tankers (road and sea) – excluding port development	Stakeholder / public consultation and disclosure - inadequate consultation and disclosure with NGO"s, local and national advocacy groups, badly managed social and community relations, negative exposure,	Community / stakeholder relations management - management of community tensions, grievances and concerns especially mitigation of impact on traditional fishing grounds

compensation claims	Due sure mont and supply shair management
Impacts on local procurement and business - unregulated trade	Community health and safety plans - vaccinations and
Communicable diseases - spread of diseases to local/foreign populations	awareness raising on communicable diseases Supporting and partnering with host governments to encourage revenue transparency and good governance
Host country governance, national economy and revenue transparency - economy - sustainable growth and inflation, bribery, corruption and extortion, revenue transparency	Compliance with national/regional/local regulations or World Bank Guidelines/IFC Performance Standards

5.3.3 Refining

Life Cycle Phase and Activity	Risks	Controls
Refining (new build)	As Oil Field Development and Transportation	As Oil Field Development and Transportation (Pipelines and
	(Pipelines and Tankers)	Tankers)
Refining (facility operations)	Community health and safety - noise, dust creation, transportmovement, emissions and air quality	Social / community baseline assessment - establish community profiles (e.g. livelihoods and employment) in project area, through detailed social baseline assessments to inform
	Strain on infrastructure and public nuisance - noise, vibration, fore/explosions, dust creation, vehicular movement, emissions and air quality, ability of social	mitigation measures and the development of long term agreed community investment/development
	services capacity to absorb new/foreign populations (supply and demand) e.g. water resources, power, health, education, housing	Community health and safety plans - vaccinations and awareness raising on communicable diseases

Communicable diseases - spread of diseases to local/foreign populations

Land acquisition - displacement - temporary and permanent land acquisition leading to poverty, social disruption, migration, involuntary resettlement requiring relocation and compensation claims

Loss of livelihood (income and employment) -

- Economic displacement
- Job competition and impact on livelihoods and land value, compensation claims), temporary/permanent relocation to communities

Employee health and safety - poor employment and labour standards, e.g. dangerous employee conditions including below standard/regulation health and safety conditions

Host country governance, national economy and revenue transparency - economy, sustainable growth and inflation, bribery, corruption and extortion, revenue transparency

Supporting and partnering with host governments to encourage revenue transparency and good governance

Compliance with national/regional/local regulations or World Bank guidelines/IFC performance standards

5.3.4 Retail

Life Cycle Phase and	Risks	Controls
Activity		

Petrol Station and Bulk Storage	Significant engineering works - Significant engineering works, construction interference with populations	Social / community baseline assessment - establish community profiles (e.g. livelihoods and employment) in project area,
	Community health and safety - noise, dust creation, transport movement, emissions and air quality	through detailed social baseline assessments to inform mitigation measures and the development of long term agreed community investment/development
	Public nuisance - noise, vibration, fore/explosions, dust creation, vehicular movement, emissions and air quality	Human resources policies - maximization of local employment
		Compliance with national/regional/local regulations or World Bank guidelines/IFC performance standards

5.3.5 Decommissioning

Life Cycle Phase and Activity	Risks	Controls
Planning and Execution	Loss of livelihood - economic displacement - loss of community financial support and dependency on project related jobs Loss of livelihood (income and employment) - job competition and – impact on livelihoods and land value, compensation claims), temporary/permanent relocation to communities Land rehabilitation and restoration	Community investment and development - community investment (both long and short term) e.g. health care facilities, micro-finance initiatives and access to employment Rehabilitation and remediation management plan
	Site remediation/clean-up	