



The National Environment Act, No. 5 of 2019

The Environment Impact Assessment Regulations, S.1. No. 153-1

Certificate of Approval of Environmental and Social Impact Assessment

Certificate No. NEMA/ESIA/

This is	to certify that the Pr	roject Brief/Environmental and Social Impact Statemen received from	- ıt
M/s: CH	INA NATIONAL OI ANDA LIMITED	FFSHORE OIL CORPORATION (CNOOC)	-
_	BOX 7862 KAMPAL	<b>A</b>	
submitted in Management	accordance with the Nation t Authority (NEMA) regard	nal Environment Act Cap.153 to the National Environment ding:	-
THE PRO	POSED KINGFISH	IER FIELD DEVELOPMENT AREA	
- (Title of Pro	oject)	DE VIVIA de t	0
briefly desc	ribed as KINGFISHE	ER FIELD DEVELOPMENT AREA	ėï
	0, 1,		Θ,
(Nature, Pullocated at	49.	HOIMA DISTRICTS, UGANDA	
		1800	
	b-county/City/Town/War iewed and was found to:	rd) TAIMAELE DE	
** have signi and made	ificant environmental impa a condition precedent for a	acts and the followimg appropriate mitigation measures were identified approval and implementation:	
	(The relevant co	onditions are attached in the subsequent pages)	
Dated at _	KAMPALA	on 28 FEBRUARY 2020	

Signed

EXECUTIVE DIRECTOR (NEMA)

ORIGINAL: Developer: DUPLICATE: Lead Agency; TRIPLICATE: The Authority; QUADRUPLICATE: Any other relevant agency





CONDITIONS OF APPROVAL FOR THE ENVIRONMENTAL AND SOCIAL IMPACT STATEMENT FOR THE KINGFISHER FIELD DEVELOPMENT AREA (Within the Area defined by Coordinates in Annex 2 in the Districts of Kikuube and Hoima, Uganda)

- 1.0 This Certificate is issued to M/s. CHINA NATIONAL OFFSHORE OIL CORPORATION (CNOOC) UGANDA LIMITED (herein referred to as the Developer) in accordance with the National Environment Act, No. 5 of 2019; the Petroleum (Exploration, Development and Production) Act, 2013; and the National Environment (Environmental Impact Assessment) Regulations S.I.153-1, for the development of the Kingfisher Field Development Area comprising of four (04) well pads, a central processing facility, and supporting infrastructure in Buhuka Parish, Kyangwali Sub county in Kikuube District, and the Feeder Pipeline from Buhuka Parish, Kyangwali Sub county in Kikuube District to Kabaale Parish in Hoima District.
- 2.0 This Certificate applies to the Kingfisher Field Development Area as shown in the maps(s) in *Figures 1 and 2* below:

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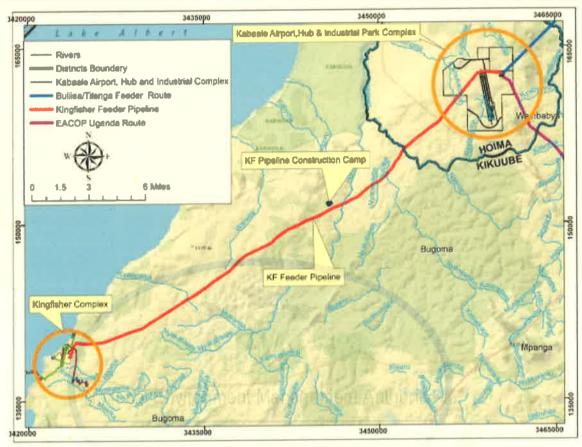
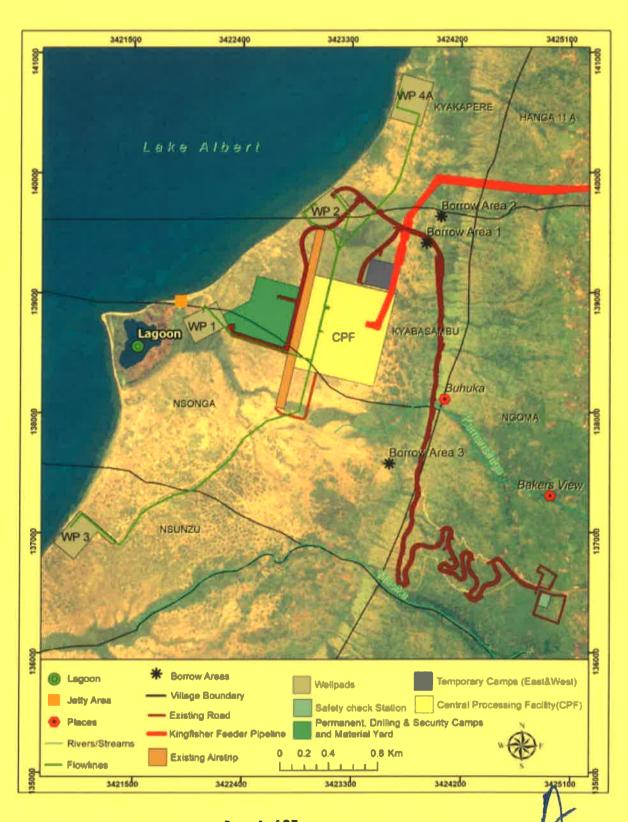


Figure 1: Map showing the Lateral extent of the Kingfisher Field Development Area.





Page 4 of 25





- 3.0 This Certificate of Approval is granted on condition that the Developer shall comply with the approval Conditions stated below, in addition to implementing the mitigation measures outlined in the Environmental and Social Impact Statement (ESIS), and the Environmental and Social Management Plan (ESMP).
- 4.0 The project shall be implemented in compliance with the following laws and regulations;

(a) The National Environment Act, No. 5 of 2019,

- (b) The Petroleum (Exploration, Development and Production) Act, 2013,
- (c) The National Environment (Environmental Impact Assessment)
  Regulations, S.I.153-1,
- (d) The Physical Planning Act, 2010,

(e) The Water Act, Cap. 152,

(f) Uganda Wildlife Act, 2019,

(g) The Petroleum (Refining, Conversion, Transmission and Midstream storage) Act, 2013,

(h) The Occupational Safety and Health Act, 2006,

(i) The Petroleum (Waste Management) Regulations, 2019,

(j) The National Environment (Waste Management) Regulations, S.I. 153-2,

(k) Employment Act, 2006,

(I) The Public Health Act, Cap.281,

(m) The National Environment (Audit) Regulations, 2006,

(n) The National Environment (Standards for Discharge of Effluent into Water or Land) Regulations, S.I. 153-5,

(o) The National Environment (Wetlands, Riverbanks and Lakeshores Management) Regulations S.I No.3, 2000,

(p) And any other applicable laws and regulations.

# 5.0 ADMINISTRATIVE CONDITIONS OF APPROVAL

(i) Issuance of this Certificate of Approval is based on the content of information contained in the Environmental and Social Impact Statement

Page **5** of **25** 





submitted by the Developer on 20<sup>th</sup> December 2018 and the revised submission of 18<sup>th</sup> November, 2019.

- (ii) The Developer shall be held responsible for any omissions, falsified information or any other anomalies in the submitted documents that are contrary to the provisions of the relevant laws governing the proposed project.
- (iii) This Certificate of Approval is <u>VALID for an initial period of 10 YEARS</u> and thereafter this certificate may be revised upon request or when the project area/site conditions change, or as the Authority may deem necessary.
- (iv) The project <u>must commence within the first 24 months</u> (from the date of approval), failure of which this Certificate may be varied, cancelled or otherwise dealt with by the Authority.
- (v) The Executive Director shall be NOTIFIED in writing, of any intention to transfer ownership, vary/alter the project design or components, or surrender of this Certificate of Approval.

### 6.0 SPECIFIC CONDITIONS OF APPROVAL

### 6.1 Central Processing Facility (CPF)

- (i) Ensure that the establishment of the CPF is restricted to the acreage defined by the Coordinates 36N 249692 138157, 250029 138076, 249893 137511, 249645 137571, 249635 137527, and 249547 137550.
- (ii) Landscape the CPF in consultation with the Kikuube District Local Government and the relevant Lead Agencies, with appropriate material and vegetation so as to minimize visual intrusion.
- (iii) Install equipment for control, measurement and monitoring of noise, air quality, water quality (surface and ground), and vibrations.

Page **6** of **25** 





- (iv) Put in place measures to detect and control leakages for both oil and gas within the CPF area.
- (v) Put in place complimentary and backup emergency response systems, including automated detection and warning systems.
- (vi) Install containment bunds of appropriate volumes around all facilities within the CPF where there is bulk storage of petroleum and chemical products.
- (vii) Gas flaring and venting shall be undertaken only in **exceptional circumstances** in accordance with the Petroleum (Exploration, Development and Production) Act, 2013.

#### 6.2 Well pads

(i) Restrict the area of the well pads to the sizes as stipulated in *Table 1* and as defined by the respective GPS Coordinates in *Annex 2*.

Table 1: Approved well pads

Well pad name	Proposed Size (hectares)			
Well Pad 1 (existing)	7.10			
Well Pad 2 (existing)	7.36			
Well Pad 3 (existing)	8.19			
Well Pad 4A (proposed)	9.88			
Total	32.53			

- (ii) Ensure that the critical containment area within the well pads is lined with impervious material.
- (iii) Put in place secondary containment infrastructure around each well pad.
- (iv) Put in place measures to prevent ingress and harm of animals at the well pads during construction and operation.

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Page **7** of **25** 





- (v) Undertake a comprehensive environmental risk assessment for the polymer to be pilot tested for Enhanced Oil Recovery.
- (vi) Ensure that the upgrade of well pad 1 does not impact on the hydrology and ecological functionality of River Kamansiniga and the adjacent lagoon on Lake Albert shoreline.
- (vii) Put in place measures to protect the project potentially impacted shoreline of Lake Albert in accordance with the National Environment (Wetlands, Riverbanks and Lakeshores Management) Regulations S.I No.3, 2000.
- (viii) Put in place measures to ensure that runoff from the well pads does not contaminate the receiving environment.
- (ix) Ensure that the movement/transportation of materials containing chemicals or drilling fluids to and from the well pads are undertaken in a manner that prevents spills and environmental pollution.
- (viii) Gas Flaring and venting is permitted only in exceptional circumstances in accordance with the Petroleum (Exploration, Development and Production) Act, 2013.

# 6.3 Feeder Pipeline and Infield Flow lines

- (i) Ensure that the feeder pipeline and infield flow lines are lined with impervious material and are buried at the appropriate depth.
- (ii) Install leakage and corrosion detectors to monitor the integrity of feeder pipeline and flow lines.
- (iii) Ensure that the installation of the feeder pipeline and infield flow lines does not affect the integrity of wetlands, streams or other water bodies in the project area.
- (iv) Limit vegetation clearance during construction to 20 and 30 meters right of way for the infield flowlines and feeder pipeline, respectively.

Page 8 of 25





- (v) Continuously engage and sensitize the communities living within the neighborhood on issues pertaining to health and safety.
- (vi) Comply with the provisions of the National Environment (Hilly and Mountainous Areas Management) Regulations, 2000 in relation to the aspects of erosion and rock falls during the installation and operation of the feeder pipeline.
- (vii) Provide alternative routes and access for the community where the pipeline will interfere with footpaths, cattle tracks and other utilities.

#### 6.4 Water Abstraction

- (i) Obtain and comply with the conditions of the water abstraction permit as shall be prescribed by the Directorate of Water Resources Management.
- (ii) Develop and implement programs to foster co-existence of water abstraction activities with local livelihoods including fishing, shells harvesting, animal watering points, and water transport, among others.

### 6.5 Jetty

- (i) Seek guidance from the Ministry of Works and Transport regarding the upgrade of the Jetty
- (ii) Obtain a permit from this Authority to undertake construction works in and around the jetty area in accordance with the National Environment (Wetlands, Riverbanks and Lakeshores Management) Regulations S.I No.153-5.
- (iii) Monitor and report any changes in community structure and composition of endemic and migratory species of animals, including their habitats, in and around the lagoon adjacent to the jetty.
- (iv)Develop and implement programs to foster co-existence of the jetty activities with local livelihoods including fishing, shells harvesting, animal watering points, and water transport, among others.

Page 9 of 25





#### 6.6 Infield and Access Roads

- (i) Ensure that all road works are undertaken in accordance with specifications set by the relevant Authorities.
- (ii) Obtain permits prior to construction of access roads across wetlands, streams and rivers in accordance with the National Environment (Wetlands, Riverbanks and Lakeshores Management) Regulations S.I No.153-5
- (iii) Develop and implement a road safety programme for school children, pastoralists and the local community, among others, during construction and operation of roads.

#### 6.7 Borrow pits

- (i) Undertake environmental assessments for any other borrow pits that were not assessed in the ESIS.
- (ii) Prepare an extraction and restoration plan for borrow areas 1, 2 and 3 as in Annex 2, and submit to the Authority for approval before commencement of murram extraction.
- (iii) Put in place measures to maintain the integrity of the escarpment while exploiting the borrow pits at the foot of the escarpment within the Buhuka area.
- (iv) Restrict unauthorized access to the borrow pit sites.

### 6.8 Airstrip

- (i) Obtain guidance from Civil Aviation Authority in regards to the operation of the airstrip during the construction phase.
- (ii) Restrict the airstrip boundary to the coordinates annexed in this Certificate.
- (iii) Comply with Regulations 17 and 28 of the National Environment (Wetlands, Riverbanks and Lakeshores Management) Regulations. S.I.



Page 10 of 25





No. 153-5 in regard to the responsibility to conserve the wetland and river south of the airstrip.

(iv) Restrict unauthorized access of persons and animals at the airstrip.

# 6.9 Materials Yard and the Safety Check Station

- (i) Institute measures to prevent contamination of the ground in sections of the materials yard and safety check station where there is potential of spillage of chemicals.
- (ii) Put in place measures to ensure that runoff from the materials yard and safety check station does not contaminate the receiving environment.

#### **6.10 Camps**

- (i) Restrict the construction of the camps (drilling camp, KF/pipeline construction camp, permanent camp, security camp, temporary (02) camps and mini-camps) to the areas specified in annex 2.
- (ii) Obtain approval for structural plans for the camps from Kikuube District Local Government Authorities prior to construction and comply with building codes in accordance with the Building Control Act, 2013.
- (iii) Preserve existing trees at the camp sites and landscape the sites with appropriate material and vegetation to blend with the surrounding environment.
- (iv) Undertake separate environmental assessments, in accordance with the National Environment (Environmental Impact Assessment) Regulations S.I No.153-1, for any other camps required by the project.
- (v) Restrict unauthorized access to the camps.







#### 7.0 GENERAL CONDITIONS OF APPROVAL

### 7.1 Project Management Obligations

- (i) The Developer shall ensure compliance with all conditions of this certificate, and is liable for omissions and violations occasioned by their contractors and /or assignees.
- (ii) Periodically monitor and report any changes in the baseline conditions in the project area.
- (iii) Liaise with the relevant Lead Agency to identify fish breeding areas within the project area on the Lake and ensure that these areas are not negatively impacted upon.
- (iv) Maintain the buffer zone for all surface water resources in accordance with the National Environment (Wetland, Rivers and Lakeshore) Regulations S.I No.3, 2000 except where permits have been issued.
- (v) Put in place measures to ensure that both surface and underground water resources are protected against contamination and/or pollution from the project activities in accordance with the Water Act, Cap.152 and the National Environment (Standards for Discharge of Effluent into Water and Land) Regulations, S.I. No. 153-3.
- (vi) Put in place systems and mechanisms that minimize noise, vibrations, dust, offensive odors, and other nuisances arising as a result of project activities, including prevention of project –induced vermin invasions.
- (vii) Put in place systems for continuous monitoring of air quality, emissions, noise and vibrations, effluents and other discharges resulting from the project activities
- (viii) Ensure that all equipment used in the project including air conditioners and cooling systems are those permitted under the National Environment (Management of Ozone Depleting Substances and Products) Regulations, S.I No.63/2001

Page 12 of 25





- (ix) Develop and implement an Environment Management System (EMS) in accordance with Section 49 of the National Environment Act No.5 of 2019.
- (x) Undertake environmental compliance audits for individual project components every two (02) years, and in accordance with Section 126 of the National Environment Act No.5 of 2019 and the National Environment (Audit) Regulations, 2006.
- (xi) Maintain records of the environmental management undertakings of the project in accordance with Section 176 of the National Environment Act, No. 5, 2019; and make the records available to the Authority, Environmental Inspectors, and authorized persons upon request.
- (xii) Submit annual reports to the Authority, in accordance with Section 177 of the National Environment Act, No. 5, 2019.
- (xiii) Introduction of invasive species is prohibited in the entire project area.
- (xiv) Liaise with the relevant government institutions to undertake any relevant studies where need arises in course of implementation of the project.
- (xv) Mitigate any other undesirable environmental impacts that may arise due to implementation of the project, but were not foreseen during the assessment and by the time of issuing this approval in accordance with Section 122 (2) of the National Environment Act, No. 5, 2019.

# 7.2 Land Acquisition and Compensation

- (i) The proposed sites for the various project components must be legally acquired in accordance with the Land Act, Cap 277 and other relevant laws of Uganda.
- (ii) Prior to commencement of project activities, ensure that all Project Affected Persons (PAPs) are compensated for the loss occasioned by the project.

Page 13 of 25





#### 7.3 Permits, licenses and other authorizations

- (i) The developer should obtain all the necessary permits, licenses and approvals from this Authority and relevant Lead Agencies including among others; the Ministry of Energy and Mineral Development, the Petroleum Authority of Uganda, the Occupational Health and Safety Department (Ministry of Gender, Labour and Social Development), Directorate of Water Resources Management, the Ministry of Agriculture, Animal Industry and Fisheries, Civil Aviation Authority, the Electricity Regulatory Authority, Kikuube District Local Government, Hoima District Local Government, and town councils before commencement of the proposed project activities.
- (ii) Comply with the terms and conditions of all permits, licenses and authorizations issued to facilitate project implementation.

#### 7.4 Standards

- (i) Comply with the National Environment (Noise standards and control) Regulations S.I No.30/2003.
- (ii) Apply for a temporary permit in accordance with section 106 of the National Environment Act No.5 of 2019, for noise in excess of the prescribed standards.
- (iii) Ensure that all waste water discharged to the environment from the various project components comply with the National Environment (Standards for Discharge of Effluent into Water and Land) Regulations, 1998.
- (iv) Emissions resulting from project activities should not exceed the limits prescribed in *Table 3* and in accordance with the East African Standards.







Table 3: Ambient Air Quality Standards/Tolerance Limits

Table 3: Ambient Air Quality Standards/ Folerance Limits  Designated Areas						
Pollutant	Time weighted Average in µg/m3	Industrial	Residential, Urban,	Urban, Controlled		
		area	Rural & Other area	areas***		
	24 hours**	125	80	20		
Sulphur oxides	One Hour	500	500	500		
(SOX);	Instant Peak (10 min)	500	500	500		
Oxides of Nitrogen	24 hours**	150	80	30		
(NOX);	Instant Peak	940	500			
Respirable particulate matter (RPM) (<10mm)	24 hours**	150	100	75		
Respirable particulate matter; PM2.5	24 hours	75	75	75		
	8 hours**	5	10	1		
Carbon monoxide	1 hour	10	10	2		
(CO) (mg/m3)	24 hours**					
Total VOC (mg/m3)	8 hour**	6	6	6		
Carbon dioxide	8 hours**	16000	2	11		
(CO2) (mg/m3)	1 hour	63000	4	2		
	8 hr	15000				
Hydrogen Sulphide	24 hours**	15000				
LEGEND			10.1	4- 1		
* Annual Arithmetic mean of minimum 104 measurements in a taken twice a week 24 hourly at uniform interval						
b)	** 24 hourly/8 hourly values should be met 98% of the time in a year. However, 2% of the time, it may exceed but not on two consecutive days.					
Whenever and wherever two consecutive values exceed the limit specified above for the respective category, it would be considered adequate reason to institute regular/continuous monitoring and further investigations.						
d)	*The 24-hour limit may not be exceeded more than three times in one vear:					
e) ** 24-hour limit may not be exceeded more than three times vear micrograms/m3						
Where components result from a combustion process, 10% excess oxygen measured will be included. Excess air above 10% will result in dilution of pollutants						



Page 15 of 25





#### **Chemicals management** 7.5

- Comply with Section 70 of the National Environment Act, No.5 of 2019 (i) regarding the use of chemicals during project implementation.
- Comply with the applicable national laws and the Globally Harmonized System (GHS) for classification and labelling of chemicals, in the transportation, storage, handling and disposal of chemicals.
- (iii) Maintain an up-to date register of chemical usage, their Safety Data Sheets and Risk Assessment Report; and avail this information to the Authority upon request.

#### Waste management 7.6

- Manage all Petroleum waste generated during project implementation in accordance with the Petroleum (Exploration, Development and Production) Act, 2013 and the Petroleum (Waste Management) Regulations, S.I No.3 of 2019.
- Ensure that any other waste (hazardous and non-hazardous) generated during project implementation is handled in accordance with the National Environment (Waste Management) Regulations, S.I. No. 153-2.

#### Design and construction 7.7

- Put in place adequate soil stabilization and erosion control measures (i) where appropriate during project implementation.
- Install drainage systems that minimize pollution of the receiving environment at all project sites.
- (iii) Adhere to the building codes relevant to the category of buildings to be established under the project, in accordance with the Building Control Act, 2013 and /or best industry practice.

Page 16 of 25

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- (iv) Ensure that the project infrastructural developments are synchronized with the physical development plans of the relevant host Authorities and/or District Local Governments.
- (v) Ensure that all the project installations and equipment are designed in such a manner so as to blend with the natural environment.
- (vi) Put in place measures to prevent un-authorized access to project sites during construction and implementation.
- (vii) Ensure that lighting installations in the project area minimise glare and light pollution to the surrounding environment.

# 7.8 Oil spill preparedness and emergency response

- (i) Put in place measures to prevent oil spill (acute pollution) and ensure that any person carrying out work on behalf of the developer, either personally or as an employee, contractor or subcontractor prevents oil spills.
- (ii) Develop, maintain and regularly update a comprehensive Oil Spill Contingency Plan in accordance with the National Environment Act No.5 of 2019, the Regulations thereunder and the National Oil Spill Contingency Plan.
- (iii) Put in place an Emergency Preparedness and response Plan in accordance with the Petroleum (Exploration, Development and Production) Act, 2013; and the Petroleum (Refining, Conversion, Transmission and Midstream Storage) Act, 2013 and the Regulations thereunder.
- (iv) Undertake regular drills and exercises to evaluate the effectiveness of the Oil Spill Contingency Plan, and the emergence preparedness and response plan taking into consideration the potential scenarios and participation of key stakeholders.
- (v) Put in place support infrastructure and equipment for prompt remedial action in the event of an oil spill incident and other related accidents/emergencies during operations.

Page **17** of **25** 





(vi) Put in place a comprehensive system to detect, control and manage leakages as well as fire incidents at all project facilities.

### 7.9 Occupational Health Safety and Public Health

- (i) Ensure that all operations, including those of your contactors and subcontractors, are undertaken in compliance with the Occupational Safety and Health Act, 2006 and the Petroleum (Exploration, Development and Production) (Health, Safety and Environment) Regulations, 2016;
- (ii) Put in place appropriate and adequate onsite sanitary facilities separate for the respective sex of project workers in accordance with the Public Health Act, Cap.281
- (iii) Ensure that sanitary facilities are built in such a manner so as to prevent pollution/contamination of underground and surface water sources.
- (iv) Provide safe drinking water for the site workers in accordance with the Public Health Act, Cap.281
- (v) Institute robust housekeeping practices/measures at the project sites and sensitize the project workforce on sound environmental management practices.
- (vi) Smoking in public places, workplaces and means of public transport is prohibited in accordance with the Tobacco Control Act, 2015.

# 7.10 Social and Community Aspects

- (i) Undertake continuous community engagements on issues and/or project activities as appropriate and in understandable languages.
- (ii) Put in place sensitization and prevention programs for both workers and the surrounding community on the dangers of HIV/AIDS, Hepatitis-B and other Sexually Transmitted Diseases (STDs).

Page **18** of **25** 





- (iii) Put in place mechanisms to ensure that project implementation does not prevent use of existing public utilities by communities within the project area.
- (iv) Liaise with the Bunyoro Kitara Kingdom to ensure preservation of cultural heritage within the project area in accordance with the Institution of Traditional or Cultural Leaders Act, 2011 and Historical Monuments Act, 1968.
- (v) Institute policies and rules applicable to all project personnel including contractors and sub-contractors to minimise fraternization that could lead to social disruptions.
- (vi) Ensure that project recruitment is undertaken in compliance with the Employment Act, 2006 and the Petroleum (Exploration, Development and Production) (National Content) Regulations, 2016.
- (vii) Prioritise candidates from the host communities for unskilled labour recruitment opportunities in the project area.
- (viii) Put in place measures to protect workers including those of subcontractors and vulnerable groups against discrimination and unfair treatment among others.
- (ix) Put in place an effective grievance handling mechanism in liaison with the respective District local government and any relevant Lead Agency to appropriately handle any grievances that may arise from affected communities during project implementation.
- (x) Ensure that the Resettlement Action Plan (RAP) is implemented in consultation with the Project Affected Persons (PAPs) and the respective District Local Government.
- (xi) Adhere to applicable traffic rules and regulations, and manage fleet movement to minimize traffic related accidents, nuisances and disruptions to the project host communities.

Page 19 of 25





#### 8.0 NOTIFICATIONS

- (i) Notifications to the Authority and relevant Lead Agencies shall be in writing.
- (ii) Emergency notifications, including malfunction of any system/ project component and the corrective measures taken, shall be done in accordance with the relevant laws.
- (iii) Notify the Authority and relevant Lead Agency on the date of commencement of project activity.
- (iv) Notify the Authority of any intention to decommission any project component.

### 9.0 DECOMMISSIONING

- (i) Undertake an Environmental and Social Impact Assessment for the decommissioning of major project components as may be determined by the Authority.
- (ii) Submit to this Authority, a detailed Decommissioning and Restoration plan for each project component to be decommissioned for approval prior to commencement.
  - (iii) Implement the Decommissioning and Restoration plan in accordance with the conditions of approval.

# 10.0 SUSPENSION/WITHDRAWAL/CANCELLATION CONDITIONS

- 10.1 The Authority may suspend project operations and/or activities for any project component, where there is non-compliance with any of the Conditions set out in this Certificate.
- **10.2** The Authority may withdraw or cancel this certificate where:

Page **20** of **25** 





- (i) There is unauthorized modification of the project implementation or operations that were not evaluated at the time of issuing this Certificate.
- (ii) Substantive undesirable effects that were not contemplated during the issuance of this Certificate of Approval emerge.
- (iii) The developer persistently fails to address negative environmental and social impacts occasioned by the project.
- (iv) Any other reasons the Authority may consider relevant.

### DATED AT KAMPALA ON 28th FEBRUARY, 2020

Signed:

**EXECUTIVE DIRECTOR (NEMA)** 

- c.c The Permanent Secretary,
  Ministry of Water and Environment,
  LUZIRA.
- c.c The Permanent Secretary,
  Ministry of Energy and Mineral Development,
  KAMPALA.
- c.c The Permanent Secretary,
  Ministry of Works and Transport,
  KAMPALA.
- c.c The Permanent Secretary,
  Ministry of Lands, Housing and Urban Development,
  KAMPALA.

Page 21 of 25





- c.c The Permanent Secretary,
  Ministry of Gender, Labour and Social Development,
  KAMPALA.
- c.c The Executive Director,
  Petroleum Authority of Uganda,
  ENTEBBE.
- c.c The Executive Director,
  Uganda National Roads Authority,
  KAMPALA.
- c.c The Executive Director, Civil Aviation Authority, ENTEBBE.
- c.c The Director,
  Directorate of Water Resources Management,
  LUZIRA.
- c.c The Commissioner,
  Occupational Safety and Health Department,
  Ministry of Gender, Labour and Social Development,
  KAMPALA.
- c.c The Chief Administrative Officer, Kikuube District Local Government, KIKUUBE.
- c.c The Chief Administrative Officer,
  Hoima District Local Government,
  HOIMA.
- c.c The Environment Officer, Kikuube District Local Government, KIKUUBE.
- c.c The Environment Officer,
  Hoima District Local Government,
  HOIMA.



Page 22 of 25





#### **ANNEX 1**

### Management plans

- 1) Air Quality management plan;
- 2) Noise and vibration management plan;
- 3) Biodiversity management plan;
- 4) Water management plan;
- 5) Marine works management plan;
- 6) Traffic management plan;
- 7) Community health, safety and security management plan;
- 8) Waste management plan;
- 9) Cultural heritage management plan;
- 10) Labour working conditions and employment management plan;
- 11) Pollution prevention and response management plan;
- 12) Emergency management plan;
- 13) Influx management plan;
- 14) Ecosystem services management plan;
- 15) Visual impact management plan;
- 16) Soil erosion and siltation management plan;
- 17) Greenhouse gas management plan; and
- 18) Health management plan.
- 19) Invasive species management Plan.
- 20) Energy Management Plan
- 21) Contingency Plan for Produced water.







**ANNEX 2: Project Component Coordinates** 



Page 24 of 25

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Infrastructure	Label	LITM 36N	(meters)	Infrastru cture	Label	UTM 36N	(meters)
midstracture	EdipCi	X	Y	minustrate	Edb Ci	X	Y
Airstrip	A-1	249626	138627	Pad 2	P2-1	249672	138933
Airstrip	A-2	249559	138643	Pad 2	P2-2	249769	138811
Airstrip	A-3	249220	137165	Pad 2	P2-3	249605	138681
Airstrip	A-4	249280	137145	Pad 2	P2-4	249528	138709
CPF	CPF-1	249692	138157	Pad 2	P2-5	249474	138776
CPF	CPF-2	250029	138076	Pad 3	P3-1	247595	136257
CPF	CPF-3	249893	137511	Pad 3	P3-2	247732	136142
CPF	CPF-4	249645	137571	Pad 3	P3-3	247566	135944
CPF	CPF-5	249635	137527	Pad 3	P3-4	247429	136059
CPF	CPF-6	249547	137550	Pad 4a	P4-1	250284	139893
Drilling camp	DC-1	249002	138021	Pad 4a	P4-2	250455	139843
Drilling camp	DC-2	249088	137854	Pad 4a	P4-3	250389	139620
Drilling camp	DC-3	248945	137781	Pad 4a	P4-4	250217	139671
Drilling camp	DC-4	248909	137790	Permanent camp	PC-1	249014	138000
Drilling camp	DC-5	248834	137934	Permanent camp	PC-2	249215	137935
	J-1	248388	138042	Permanent camp	PC-3	249142	137711
Jetty Jetty	J-2	248400	138044	Permanent camp	PC-4	248945	137781
Jetty	J-3	248403	138029	Permanent camp	PC-5	249088	137854
	J-4	248412	138031	Safety check station	CS-1	251402	135848
Jetty	J-5	248407	138069	Safety check station	CS-2	251532	135766
Jetty	J-6	248422	138071	Safety check station	CS-3	251476	135/66
Jetty	J-7	248424	138060	Safety check station	CS-4	251380	135675
Jetty	J-8	248436	138062	Safety check station	CS-5	251424	135776
Jetty	J-9	248440	138043	Safety check station	CS-6	251424	135636
Jetty	J-10	248426	138040	Safety check station	CS-7	251508	135605
Jetty	J-10 J-11	248429	138034		CS-8	251613	135599
Jetty	J-12	248468		Safety check station	CS-9	251548	
Jetty	J-12 J-13	248471	138044	Safety check station	CS-10	251348	135370 135443
Jetty			138037	Safety check station			
Jetty	J-14	248339 248338	138009	Safety check station	CS-11	251376	135800
Jetty	J-15	248390	138017	Security camp	SC-1	249150	137708
Jetty KE Comp (pipeline construction comp)	J-16		138027	Security camp	SC-2 SC-3	249176 249318	137782
KF Camp (pipeline construction camp)		272183	150707	Security camp			137737
KF Camp (pi peline construction camp)		272367	150828	Security camp	SC-4	249293	137661
KF Camp (pipeline construction camp)		272461	150684	Temporary camp East	TCe-1	250048	
KF Camp (pipeline construction camp)		272276	150566	Temporary camp East	TCe-2	250184	138393
Lake water intake station	WI-1	249661	138947	Temporary camp East	TCe-3	250117	138114
Lake water intake station	WI-2	249705	138947	Temporary camp East	TCe-4	249911	138163
Lake water intake station	WI-3	249677	138927	Temporary camp East	TCe-5	249944	138291
Lake water intake station	WI-4	249688	138968	Temporary camp East	TCe-6	249995	138376
Material yard	MY-1	249080	138228	Temporary camp West	TCw-1	249824	138387
Material yard	MY-2	249259	138179	Temporary camp West	TCw-2	249950	138357
Material yard	MY-3	249206	137985	Temporary camp West	TCw-3	249924	138301
Material yard	MY-4	249029	138035	Temporary camp West	TCW-4	249887	138169
Pad1	P1-1	248490	137892	Temporary camp West	TCw-5	249778	138195
Pad1	P1-2	248721	138009	Borrow and Disposal Area1		250463	138520
Pad1	P1-3	248802	137850	Borrow and Disposal Area 2		250585	138737
Pad1	P1-4	248571	137732	Borrow and Disposal Area3		250158	136693