

Annex I Agreed Programme Summary

Identification of the Programme: IRK - 0000

Programme Title/Name:

Strengthening the Management of the Oil and Gas Sector regarding Resource-, Health-, Safety- and Environment Management in Iraq.

Main implementing institutions

Iraq:

Ministry of Oil, Ministry of Environment

Main Norwegian and/or other Partner institutions:

Ministry of Petroleum and Energy (including Norwegian Petroleum Directorate and Petroleum Safety Authority), Ministry of the Environment (including Directorate for Nature Management and Norwegian Climate and Pollution Authority)

Description of the Programme

Goal:

Assist Iraq in exploitation of the country's oil and gas resources in a sustainable manner (economical, social and environmentally) to meet the needs of present and future generations in Iraq.

The Goal will be refined during the inception period.

Purpose:

Increase capacity, efficiency, transparency and institutional arrangements to facilitate well coordinated and results oriented resource management, environmental management and HSE management in the petroleum sector.

The Purpose will be refined during the inception period.

Outputs

Policy

The focus will be on some of these important policy issues (to be refined during the inception period).

Regulation of the sector / Institutional organization

Legislation

Subordinate regulations / petroleum contracts with high regulatory content

Separate regulatory institutions

National Oil Company

Petroleum Resource management

Fiscal control, revenue management

Petroleum data management

Environmental management issues

Health and safety issues in the petroleum industry

HSE Supervisory philosophy

Information management issues
Drivers for increased use of national goods and services
National Education on university and lower technical level
National Research enhancement

Data Management

The focus will be on:
Further development of reporting regulations
National IT Centre
National coordinate reference system
Systems for cultural and administrative data

Petroleum Resource Management including IOR

The focus will be on projects on some of the following issues:
Resource classification/inventory system/requirements for regulation and guidelines
IOR methodologies and practices for Iraqi oil and gas fields
Resource Planning and planning methodology
Strategic planning / scenario planning
Optimizing the use of gas resources
Fiscal metering (regulations, auditing, metering technologies etc.)

Training

Options considered:
Participation in Petrad's annual 8 week courses (petroleum management and petroleum operations for high level management)
4 weeks training on petroleum policy and resource management, field development and operations (30 participants).
Workshop on followup of long term O&G contracts- (15 from SOC and 15 from other institutions.)
Workshop on accounting and auditing procedures
Leadership and management training for managers in the petroleum sector.
Master programmes.
Tailor made regional (multinational) courses in important disciplines (Data management, Environmental management, Petroleum contracts, Safety management, IOR, etc.) This training can probably be financed externally and Iraq will be invited to participate.

Environmental Issues

Projects will be established on some of the following topics

Regulatory and supervisory framework and methodology (Partly implemented)
Environmental management tools
Base line studies
Environmental Monitoring
Environmental Impact Assessments (partly implemented)
Emergency preparedness Planning and Response Management
Specific Environmental challenges and technologies
Produced water
Production chemicals
Emissions to air

Management of Pollution Data
Flaring reduction - CDM

Health and Safety Issues

The focus will be on:

Regulatory and supervisory framework and methodology

Risk analysis

Emergency Contingency Planning

Assessment of current ability and competence in the petroleum sector on HSE

Fiscal Control / Revenue Management

Optional activity with focus on:

Fiscal

Revenue

Technical cooperation

Focus on some of the following activities:

Access to engineering and project management competence

Access to information about critical technologies

Twinning between research institutions

Training in QA/QC for procurement of products and services in the petroleum industry

Develop a strategy for national petroleum training, research and development based upon the exchange of ideas and experience

The outputs will be refined during the inception period.

Inputs

Norwegian and Iraqi funds

Institutional support

Manpower contributions from Iraqi institutions

To be refined during the inception period.

Main indicators

National policy and legislation

Efficiency and capability of involved Iraqi institutions

Implementation of IOR projects

Resource management planning

Environmental and health and safety monitoring

Monitoring of fiscal metering

Public information of the petroleum activity

To be refined during the inception period.

Major risk factors (internal and external)

Political stability

Delays in the Iraqi legal and regulatory process

Lack of support from MoO top level management

Budget/personnel capacity constraints
Language constraints
Travelling safety constraints (including visa procedures)

Overall budget
NOK 20 mill
US\$ 2 local contribution
To be refined during the inception period.