

# **INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR PROVISION OF RADIO FREQUENCY IDENTIFICATION (RFID) SOLUTION: MOEP/SDP/EOI/01/2017-2018**

## **OBJECTIVE**

The Ministry of Energy and Petroleum, State Department of Petroleum (MoEP/SDP) wishes to engage the supplier for provision of Radio Frequency Identification (**RFID**) solution for managing Liquefied Petroleum Gas Cylinders.

### **1.0 Objective of the RFID exercise**

It is a unique anti-counterfeit, marketing and asset control system that will:

- Help in cylinder inventory management and tracking of cylinders across the distribution/supply chain.
- Instigate a digital asset control system covering the distribution chain.
- Leverage on the capabilities provided by the RFID solution.
- Integrate to the USSD platform being developed separately to build a consumer centric marketing solution.
- Help to build a database of LPG customers and understand consumption patterns.
- Support tracking of safety of the LPG cylinder including tracking of cylinder validation dates.
- Overall help to increase the turnaround of LPG cylinders through undertaking targeted consumer campaigns informed by the data generated from the RFID solution.

## **TERMS OF REFERENCE (TOR)**

- Radio Frequency Identification(RFID) solution with ULTRA HIGH FREQUENCY(UHF) tags with a specified read range, it should be able to be incorporated in areas with electromagnetic interference(EMI)
- It should be a total solution that can be integrated with existing machinery at an LPG tank firm and the filling machines.
- It should have product line integration, with existing ERP and compatibility with USSD.
- The solution must be accompanied by UHF, RFID tags and EX certified readers.
- Create an LPG database; implement an LPG cylinder management software that will handle LPG cylinder tracking and movement management.
- Implement a consumer platform-GPS mapping of distribution centers, use of mobile phones for order placement and payment making (cashless payments).
- Training for the operators who will carry out identification, tagging and operation of the control solution.
- Loyalty program solution.

## **MANDATORY REQUIREMENTS /ELIGIBILITY/QUALIFICATIONS**

- 1) The certificate of Incorporation from the country of operation/registration with regulatory and other relevant bodies.
- 2) Provide evidence of undertaking assignments of similar nature particularly in the Oil and Gas industry as the prime contractor. Provide a document that demonstrates completion of a similar project. The document should contain the name of the client, the assignment, the email address and the telephone number.
- 3) Proposed technical approach, design philosophy, methodology and provision of (RFID) solution.

Participation: This EOI has been placed in the ministries websites: [www.energy.go.ke](http://www.energy.go.ke) or [www.treasury.supplier.go.ke](http://www.treasury.supplier.go.ke).

Expression of interest (EOI) clearly marked **“INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR PROVISION OF RADIO FREQUENCY IDENTIFICATION (RFID) SOLUTION”**: MOEP/SDP/EOI/01/2017-2018 to be deposited in the tender box at **Ministry’s Reception Area on 24<sup>th</sup> Floor** or to be addressed to:

**The Principal Secretary,  
Ministry of Energy and Petroleum,  
State Department of Petroleum,  
P.O. Box 30582-00100.  
NAIROBI**

So as to be received on or before **Thursday, 22<sup>nd</sup> September, 2017 at 1000hrs (East African Time) OR E-mail: [pspetroleum@energy.go.ke](mailto:pspetroleum@energy.go.ke)**