

# Managed Services for OIL's E&P Databank System

## 1. Preamble

1.1 Oil India Limited (OIL) is a premier public sector E & P enterprise under Govt. of India. Presently in India, OIL have offices at Duliajan (Assam), Noida (UP), Jodhpur (Rajasthan), Kolkata (West Bengal), Bhubaneswar (Orissa), Guwahati (Assam) and Kakinada (Andhra Pradesh).

OIL's present operational areas are primarily located in Assam, Arunachal Pradesh and Rajasthan. In its operational area, OIL has various field installations like Oil Collecting Stations (OCS), Gas Compressor Stations (GCS), Gas Gathering Stations (GGS), Drilling locations, Seismic Survey Camps, Crude Oil Pumping stations, etc.

OIL being a major upstream company, with its in-house operations ranging from seismic data acquisition, drilling & production operations and transportation, an ever-growing stream of E&P data is being generated on a continuous basis. To ensure security, confidentiality and ready availability of this enormous and invaluable data assets coupled with huge legacy data volume, a disciplined effort on E&P data management became necessary. Such an endeavour at OIL was initiated in the year 2005 through a turnkey project implementation based on solution from M/s Landmark. An infrastructure towards this was installed at OIL's Field Headquarters at Duliajan, Assam.

1.2 The existing E&P Databank System at Duliajan comprises of the following application modules:

- a. **Petrobank MDS (Master Data Store):** The Petrobank MDS is used to upload data such as cultural data (mining lease licenses, petroleum exploration licenses), seismic data (surveys, navigations, velocities, SEGYS), well data (well headers, wellbores, well logs, wells with archive data-well commentaries), archive objects, etc. into the Databank.
- b. **Power Explorer:** This is a web-interface used to view the data residing in Petrobank MDS.
- c. **Recall:** It is a 3<sup>rd</sup> party solution from Petris to upload well logs into the Databank. The Recall software is embedded into the Petrobank MDS software.
- d. **Openworks:** It is a Project Management Database to store well, curve, fault and seismic navigation data.
- e. **Web OpenWorks:** This is a web-interface used to view the data residing in Openworks database.

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- f. **OpenSpirit:** It is the integration platform used to transfer data from Geoframe to Openworks.
- g. **Openwells:** It is a Drilling and Well Services operations reporting application used to capture data for drilling and well services operations, which can be used for performance analysis or analysed using Landmark Engineering applications.
- h. **TOW/cs:** The Oilfield Workstation/client-server is designed to provide enterprise-wide collection, storage and analysis of production data. TOW/cs is an integrated suite of applications used for:
  - a. Field data capture
  - b. Production management and optimization
  - c. Production accounting
  - d. Daily and monthly operations reporting
  - e. Regulatory reporting
- i. **Neura:** A suite of software used for digitizing well logs and subsequently entering into the databank system.

1.3 While data generation is a continuous process at OIL through its various operations, populating the E&P Databank accordingly with the newly generated data is quite important. To streamline this, OIL plans to sustain the activity through outsourcing to a third party. Accordingly, OIL requests Expressions of Interest (EOI) from interested and capable vendors to provide E&P Databank Managed Services at Duliajan.

## **2. Scope of Work**

- a. The scope of work mentioned in this document is only indicative. The detailed scope of work will be finalized after a Pre-Bid meeting with all participating vendors in Expression of Interest (EOI).
- b. The service provider will use the hardware and software provided by OIL to carry out their activities.
- c. The current version of E&P Databank Software Modules is based on Landmark's R2003 suite of applications. This version of R2003 is due for up-gradation to the next major release of R5000. The service provider will have to be well versed in all the applications mentioned above in the current version of R2003. However, the service provider must ensure that it possesses the necessary skillset to continue with the managed services in an uninterrupted manner as and when upgrade to R5000 materializes.

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- d. The service provider will have to load data pertaining to various domains using the intended Application Module. The quantum of data, frequency of data-loading/entry will be as per OIL's requirement.
- e. Whenever required, the service provider will have to scan maps etc. followed by digitization of these scanned maps using software provided by OIL.
- f. Service provider will need to scan document such as well- commentary, technical notes etc. and upload the same into the Databank as archive objects.
- g. Service provider must ensure confidentiality of data.

### **3. Eligibility Criteria:**

- a. Vendors must be well-versed with minimum two (2) years' experience of E&P Data Management related activities and solutions for upstream Oil and Gas Company during the last five (5) years. Documentary evidence for the same has to be provided with EOI.
- b. Vendors must have minimum annual turnover of ₹100 crores for the last three (3) years. Documentary evidence for the same has to be provided with EOI.