

# BRIEF SUMMARY

## 1.0. Summary of the Project

### 1.1. Background

Vedanta Limited (Cairn Oil & Gas<sup>1</sup>) is one of the largest independent oil and gas exploration and production companies in India. Vedanta Ltd. has been granted hydrocarbons exploration and production license in the CB-ONHP-2017/10 block by MoP&NG, Government of India (GoI) under the Revenue Sharing Contract (RSC). As per the provisions of the RSC, Vedanta Ltd. proposes to carry out oil and gas exploration (including seismic surveys, exploratory and appraisal drilling), and early production. The block covers an area of 2100 Sq.Km in Banaskantha District of Gujarat and 666 Sq. km in Jalore District of Rajasthan.

### 1.2 Proposed Project

The proposed project is green field in nature. The proposed project activities include:

- i. Seismic surveys and data acquisition;
- ii. Drilling of 70 nos. of exploratory (including appraisal) wells and testing of wells;
- iii. At the post appraisal phase, appraisal well(s) will be taken to production by setting up of early Production Units (EPU)s/Quick Production Units (QPU)s for well fluid processing and early production of up to 28,000 BOPD crude oil and 4.2 MMSCFD associated natural gas.

### 1.3 Resource Requirement

#### 1.3.1 Land requirement:

- i. Typical Size of 300 m x 300 m (approx.) for each one well pad (drill site);
- ii. RoU of 30 m (approx.) width for accommodating suitable access roads connecting to well pads, laying of infield interconnecting pipelines, OHL and other utilities in future;

#### 1.3.2 Water Requirement

During seismic surveys, the water requirement will be 20 - 30 m<sup>3</sup>/day for domestic use. For the drilling activities, water requirement will be of 750 – 1300 m<sup>3</sup>/well (for mud preparation); 25 – 50 m<sup>3</sup>/day/well (for miscellaneous activities) and 20 - 30 m<sup>3</sup>/day/well (domestic use). During the early production phase, for each typical QPF location, water (for process, domestic consumption and greenbelt & miscellaneous use) requirement will be 15 – 18 m<sup>3</sup>/day. The water requirement will be sourced locally through approved/ authorized sources of surface water and/ or ground water (e.g. PHD bore wells, privately owned bore wells, Irrigation Dept./ Water Resources Dept. of State Govt.). In case, required water could not be sourced from locally available approved sources, ground water will be extracted after obtaining permission from CGWA/ State Govt.

#### 1.3.3 Power Requirement

For drilling activities, power requirement will be 2,450 kVA (approx.) and to be sourced through diesel generators of 3 x 1000 kVA (two working + one standby), 2 x 350 kVA (one working + one standby) and 2 x 100 kVA (one working + one standby).

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<sup>1</sup> Cairn India Ltd. got merged with Vedanta Limited with effect from 11<sup>th</sup> April, 2017

For the early production, power requirement will be met through state electricity grid and/ or installation of Diesel/ Gas Engine Generator(s) using produced (associated) natural gas.

#### **1.3.4 Man power requirement**

Temporary influx of population is likely to occur during all phases of the project life cycle. However, for most of the construction works the local villagers would be employed.

For the technical jobs highly technical and trained workforce would be sourced from outside based on experience of working in the field of hydrocarbon exploration and production.

The seismic surveys are expected to take 6 - 8 months to complete and will require a crew of 300 - 500 persons. The drilling activities will require manpower of 80 – 100 per well.

#### **1.4 Project Cost**

The estimated cost of the project is given below:

- 1) Physical Surveys Cost estimated to be approximately INR 65.821 Crore.
- 2) Average Cost per well for exploratory & appraisal well drilling is estimated to be INR 14 Crore.
- 3) Average cost of each EPU (Early Production Unit)/ QPU (Quick Production Unit) is estimated to be INR 44.13 Crore.