

Our Ref: CO&G\GGN\MOEF\19\05\02

Date: 17 May 2019

The Director (IA – II) Division,
Ministry of Environment & Forests,
Indira Paryavaran Bhavan, Vayu Wing, 3rd Floor,
Jor Bagh Road, New Delhi-110003.

Subject: “Expansion of Offshore & Onshore Oil & Gas Exploration, Development & Production in existing Ravva Field, PKGM-1 Block (of 331.26 km²) located near Surasaniyanam Village (S.Yanam) in Krishna Godavari Basin, East Godavari District, Andhra Pradesh” – submission of Final EIA report regarding.

MoEFCC References:

1. File No. IA-J-11011/41/2018-IA-II(I), ToR Proposal No. IA/AP/IND2/72440/2018 dated 24 March 2018.
2. File No. F. No. J-11011/81/2013-IA II (I) dated 23 February 2015
3. File No. F. No. 11-20/2015-IA.III dated 25 May 2017
4. File no. 10-28/2004-IA-III dated 31 March 2006
5. File no. J-11011/207/2004 IA II(I) dated 04 August 2005
6. File no. J-11011/50/2001 IA II dated 17 September 2001
7. File no. J-11011/84/2000 IA II dated 30 January 2001
8. File no. J-110/2/59/95 1A II (I) dated 3 July 1996
9. File no. J-11011/6/91 IA dated 19 December 1991
10. File no. J-11011/11/90 IA dated 30 July 1990

Sir/Madam,

Cairn Oil and Gas is a division, which is now part of the Vedanta Group, has been producing hydrocarbons from the PKGM-1 (Ravva) offshore Block since 1994. The Ravva oil and gas Block is located in the Bay of Bengal off the coast of Andhra Pradesh, India in the PKGM-1 license area of the Krishna-Godavari Basin. The area of the Block is 331.26 km². Over the years due to aging of the reservoir, production of oil and gas has declined; now this expansion Project will help in drilling additional wells, there by achieving oil and gas production to originally approved production level of 50,000 barrel of oil per day (BoPD) from existing 15,000 BoPD and 2.32 million standard cubic meter per day (MMSCMD) from existing 1.40 MMSCMD.

Cairn engaged ERM India Private Limited to carry out an Environmental Impact Assessment study (including risk assessment) and prepare a detail environmental and social management plan with the suitable mitigation measures. The CRZ maps for the expansion Project are prepared by National Centre for Sustainable Coastal Management (NCSCM), Chennai. The EIA study has been carried out based on the Terms of Reference (TOR) issued by MoEF&CC File No IA-J-11011/41/2018-IA-II(I) dated 24 March 2018.

Public hearing / public consultation was carried out on 11th October 2018 under the Chairmanship of the Joint Collector & additional District Magistrate, East Godavari District at 11:00 am at Beach Front, S.Yanam. An approved proceeding of the same has been attached as received from Andhra Pradesh Pollution Control Board in the final EIA report and also a point wise response / clarification/ compliance status has been provided on the issues raised during the public hearing, as part of the final EIA report.

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CIN: L13209MH1965PLC291394

We would also like to mention that in the previous EC obtained dated 23rd February 2015 and CRZ Clearance dated 24th May 2017, we had permission on the following project details

- i. Installation of 1 new platform (RI) to develop & produce contingent hydrocarbon resource in the field.
- ii. Drilling of 20 development wells, 6 from new RI Platform and 14 from existing platforms (4 nos. from RF, 3 nos. from RC, 3 nos. RG and 4 nos. from RE Platforms).
- iii. Drilling of /6 exploratory /appraisal wells to assess presence of hydrocarbons in pools.
- iv. Laying of 3 new interconnecting pipelines (of total 14 km length) in the offshore region connecting the proposed new RI Platform with the existing RB and RG Platforms as per the following arrangement:
 - a. 4 km, 8" subsea oil pipeline from new RI Platform to existing RB Platform for oil production.
 - b. 4 km, 4" subsea gas lift pipeline from new RI Platform to existing RB Platform.
 - c. 6 km, 8" subsea gas pipeline from RI Platform to existing offshore RG Platform.

However, as per the detail engineering study, it has been found that the existing pipelines from RB Platform being old (~almost 20 years old) and underperforming require modifications of connecting new RI Platform to existing RF Platform instead to existing RB Platform as was proposed earlier. In this regard, we seek following modification of pipelines connecting from offshore RI Platform:

- i. 20 km, up to 20" subsea oil pipeline from new RI Platform to existing RD Platform for oil production;
- ii. 7 km, up to 6" subsea gas lift pipeline to be laid from new RI to existing RF Platform;
- iii. 8 km, up to 8" subsea water injection pipeline to be laid from new RI Platform to existing RF Platform; and
- iv. 7 km, up to 12" subsea gas pipeline to be laid from new RI Platform to existing RG Platform.

The above-mentioned increase in the lengths of laying subsea pipelines from the new RI Platform to existing RF (instead of existing RB Platform as proposed earlier) and RG Platforms will be in the offshore region. Since RF Platform is located away from new RI Platform, there is increase in the pipelines length comparison to originally estimated pipelines length.

We, hereby submit the final EIA/EMP along with CRZ maps prepared as per approved TOR after incorporating the issues raised during Public Consultation for considering the proposal for the environmental clearance (EC). We are also attaching the CRZ related No Objection Certification (NOC) issued by APCZMA vide letter no. 138/APCZMA/CRZ/IND/2019/91 dated 3rd April 2019.

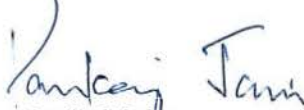
We highly appreciate for considering the Project on priority and accord Environmental and CRZ Clearance to the oil and gas Project, which is very crucial to the India's energy need. Please find enclosed the following documents:

1. Project Executive Summary
2. Copy of the approved TOR and TOR compliance as part of Summary report of EIA
3. EIA/EMP and Risk assessment reports including compliance to PH observations in EIA report.
4. CRZ maps and CRZ NOC letter
5. Approved Public Hearing proceedings.

We also seek amendment to earlier EC dated 23rd May 2015 and CRZ Clearance dated 24th May 2017 of pipelines laying from new offshore RI Platform to existing offshore RF Platform (instead to RB Platform as was proposed earlier) and existing offshore RG Platform as per pipelines detail described above.

Thanking You,

Yours truly,



Pankaj Jain

President – Offshore SBU & ExCo Member

Enclosure: As above