

HW/JD/JB

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J-11012/53/95-IA-II(I)

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भारत सरकार

पर्यावरण एवं वन विभाग

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण वन सौ. जी. जी. कॉम्प्लेक्स

PARYAVARAN BHAVAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODHI ROAD, NEW DELHI-110003

Dated 3.7.95.

OFFICE MEMORANDUM

Sub: Development of the Ravva oil and Gas Field located near The Godavari Basin, A.P. by M/s Command Petroleum (India) Pvt.Ltd. Joint Venture with ONGC - environmental clearance.

The undersigned is directed to refer to the letter dated 21st Sept. and 14th Nov. 95 from M/s Command Petroleum Pvt.Ltd. regarding the development of Ravva Oil and Gas Fields near Godviri Basin and installation of additional onshore terminal facilities.

The environmental aspects of the projects have been examined by the Ministry and environmental clearance is accorded subject to compliance of the following conditions:-

A. Onshore Facilities

- (i) The project authorities must strictly adhere to the stipulation made by the Andhra Pradesh State Pollution Control Board for the onshore terminal facilities.
- (ii) On site and offsite Emergency Preparedness Plan required under Rules 13 and 14 of the Management, Storage and Import of Hazardous Chemicals Rules, 1989 should be prepared and approved by the nodal agency.
- (iii) The project proponents should take appropriate measures

to store the oily sludge in the crude tanks until a long term plan for disposal of oily sludge has been finalized in consultation with the SPCB. A report on the proposed disposal plan should be submitted to this Ministry for review within six months. The feasibility of recovering oil from the oily sludge should also be considered.

- (iv) Efforts should be made by the project proponent to reduce the flaring in the existing platform to the maximum extent possible. As indicated in the EMP, an Indair Flare stack with scrubbers should be provided. The height of the stack should be as per guidelines of the Central Pollution Control Board.
- (v) For facilities proposed within 500 mts of the High Tide line, necessary approvals under CRZ notification should be obtained.

(B. Offshore Facilities.

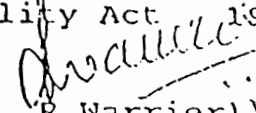
- i. The project authority must strictly adhere to the stipulations made by the Central Government as part of any International Convention(s) or Merchant Shipping Act;
- ii. The project authority must (a) dispose off construction wastes (b) control and remove any pollution or contamination of the sea due to spills of oil from the wells, lubricants, ballast and garbages resulting from the project activities and (c) raise and remove all sunken plant structures or objects arising from the proposed activities in accordance with MARPOL convention 1973/1978.
- iii. The project authority must use such chemicals which are permissible and information regarding the type of chemicals used and toxicity must be made available to this Ministry alongwith their quantity, composition and toxicity level. Chemicals which have accumulative property in benthos or sediments should be avoided or their use restricted to the minimum. The concentration levels of chemicals specially heavy metals in sediments, fauna, flora and fish tissues should be monitored at regular intervals.
- iv. The project proponent should provide Barium recovery facilities.
- v. Only water based drilling muds and cutting having a low toxicity should be used for drilling operation. The drilling fluids should be reused to the maximum extent possible and should be discharged into the ocean only when not suitable for further drilling. Adequate solids control and fluid handling system should be provided to

ensure minimum losses to the ocean.

- vi. Horizontal Direction Drilling (HDD) technique should be adopted during the laying of the export pipeline.
- vii. The pigging chemicals used for cleaning the interfield pipelines should not be discharged into the ocean but collected after use and returned to the gas and condensate export line. To minimize accidental releases/contain oil spill the pigging chemicals should be stored in defined bunded areas.
- viii. Release containing pathogens, bacteria, viruses and parasites which survive in marine life must be completely precluded by adequate treatment measures on the platforms.
- ix. The project authority must strictly adhere to the regulations made by MARPOL convention 1973/1978 for setting limits, for discharges from off-shore oil/gas exploration and production activities.
- x. The project authority must perform static sheen test or any other approved test for the drilling fluids and drill cuttings that are discharged into the sea to ensure that there is no discharge of free oil in the sea. Strict compliance with the CPCB discharge standard of 40 ppm oil should be ensured.
- (xi) The project authority must set up adequate number of monitoring stations within an area of 400 M radius around the drilling rigs, processing platforms, the point of discharge of drilling muds and drilling fluids. The monitoring should cover oil and grease in produced water, hydrocarbon in deck drainage etc.
- (xii) The project authority must analyse relevent parameters including chemicals, hydrocarbons and heavy metals in water, sediments and their concentration levels in sediments on fauna, flora and fish tissues and should furnish the data to this Ministry every six months.
- xiii. The project authority should monitor the population of marine biota including fishes for the effects of these drilling operations preferably within a radius of 7 kms. The recorded data should be furnished once in six months to this Ministry. Any major change observed should be reviewed carefully and necessary preventive measures should be taken immediately.
- xiv. The project authority must provide ear plugs/muffs as protection measures to the employees at the time of their duty to mitigate the effect of noise.
- xv. The project authority must prepare a safety audit

conditions will be fully implemented by the project authorities within the specified time frame.

5. The above conditions will be enforced inter alia under the Water (Prevention & Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1988, the Environment (Protection) Act, 1986 and the Public Liability Act, 1991.

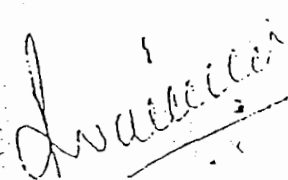

(Dr. R. Warriar)
Joint Director,

Secretary,
Ministry of Petroleum & Natural Gas, Shastri Bhawan -
Govt. of India, Shastri Bhawan -
New Delhi.

Copy to:-

Oil Command Petroleum (India) Pvt Ltd

1. The Managing Director, (The Q Circle, IC Gee Gee Crescent, 114, Poonamallee High Road, Madras - 600084.
2. The Chairman Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi.
3. Chairman, Andhra Pradesh Pollution Control Board, Andhra Pradesh.
4. Secretary, Deptt. of Environment, Govt. of Andhra Pradesh Andhra Pradesh.
5. Director (Regional Office Cell), Ministry of Environment & Forests, Parvavaran Bhawan, New Delhi.
6. Chief Conservator of Forests, Regional Office, Bangalore.
7. AD (Monitoring Cell), Ministry of Environment and Forests, Parvavaran Bhawan, New Delhi.
8. Monitoring File.
9. Guard File.
10. Record File.


(Dr. R. Warriar)
Joint Director.