

भारत सरकार  
पर्यावरण एवं वन मंत्रालय  
Government of India  
Ministry of Environment & Forests

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Telephone :

तार :

Telegram : PARYAVARAN,  
NEW DELHI

पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स  
PARYAVARAN BHAWAN, C.G.O. COMPLEX  
सादो रोड, नई दिल्ली-110003  
101 ROAD, NEW DELHI-110003

No. J-110 1/11/90-IA-II

Dated 30th July, 1990

OFFICE MEMORANDUM

Subject:- Environmental Clearance for oil production from Godavari off-shore field and on-shore field terminal facility at Surasaniyanar.

This has reference to your letter No. CNGC/SRBC/MAC/E&C/G-6/90 dated 14th March, 1990 in regard to the above subject. The environmental aspects of the project have been examined by the Ministry and clearance is accorded subject to the following conditions:-

- (i) The project authority must submit the comprehensive EIA report for the development of oil/gas fields for this project within a period of 9 months before commencement of the production.
- (ii) The Project Authority must strictly adhere to the stipulations made by the Central Government as part of any international conventions or Merchant Shipping Act.
- (iii) The crude and gas distribution net work should be made in such a manner that the handling terminals need not expand their capacity to excessively high levels.
- (iv) The Project Authority must (a) collect all construction wastes in ships for on-shore disposal (b) control and remove any pollution or contamination which originated above the surface of the sea from negligence, spills of wells, lubricants, ballast and garbages within the project proponent's possession and control and (c) raise and remove all sunken plant structures or objects arising from the proposed activities.
- (v) The Project Authority must shut down the system to provide primary protection by pressure control instrumentation, to prevent or minimise the escape of crude oil or gas.
- (vi) The Project Authority must use such type of chemicals which are permissible and information regarding the type of chemicals used and toxicity must be made available to this Ministry regularly, changes in the use of any type of chemicals in addition to the above should be informed to this Ministry along with their quantity, consumption and toxicity levels. Any Chemicals which have accumulative property in benthos or sediments should be avoided or their use restricted to the minimum. They should monitor their concentration levels in sediments.

- (vii) The Project Authority should monitor the population of marine biota around the proposed exploration area and within a radius of 5 kms. The recorded data should be furnished once in six months to this Ministry. Any major changes observed should be reviewed carefully.
- (viii) The Project Authority must provide air muffs/any other hearing protection measures to the employees at the time of their duty to mitigate the effect of noise.
- (ix) Releases containing pathogenic bacteria, viruses and parasites which survive in marine life must be completely precluded by adequate treatment measures on the platforms.
- (x) The Project Authority must undertake adequate measures to minimise the burning of gas in flares and for smoke reduction at all the off-shore installations. The flare should be non-luminous at all stages of operations. This will reduce the build up of particulate matter in the environment. They should measure hydrocarbon emissions at regular intervals.
- (xi) The Project Authority must strictly adhere to the regulations made by MARPOL Conventions 1973/1978, for setting limits, for discharges from off-shore oil-gas exploration and production activities.
- (xii) The Project Authority must perform Static sheen Test of any other approved test for the drilling fluids, drill cuttings that are discharged into the sea.
- (xiii) The Project Authority must establish oil spill control centres at vulnerable areas with high pollution potential. The Project Authority must prepare contingency plan for (a) blowout, (b) major fire (c) oil spill and (d) Hydrogen Sulphide emissions.
- (xiv) The Project Authority must regularly analyse the characteristics of solid wastes before they are discharged into the sea from drilling rigs and process platform including kitchen wastes.
- (xv) The Project Authority must ensure that the liquid solid wastes would not disturb the marine ecosystem. The recorded data for analysis should be furnished to this Ministry, State Pollution Control Board once in six months.
- (xvi) The Project Authority must set up adequate no. of monitoring stations for sampling and analysis of various parameters including objectionable chemicals, in water, sediments, fish and other biological materials for heavy metals.
- (xvii) The Project Authority must establish their own laboratory facility for sampling and analysis of various parameters under the supervision of competent person.
- (xviii) The Project Authority must prepare a safety audit system and a mock rehearsal must be carried out regularly to

- xxviii) test the reponsive-ness of the concerned.
- (xix) The Integrated disaster management plan on the basis of risk analysis duly approved by Nodal Agency must be submitted to this Ministry alongwith the comprehensive EIA report for review. This should cover detailed analysis of the explosion, fire and their cascading effect with respect to pressure wave radiation and fire borne impacts etc.
- (xx) The Project Authority must widen and strengthen the existing road for transporting the crude at their own cost and in consultation with the State Government, till the proposed pipeline for transportation of crude is ready.
- (xxi) The Project Authority should perform by bio-assay test with suitable phytoplankton.
- (xxii) The flaring of gas should be kept as minimum as possible.
- (xxiii) The reclamation at on-shore facility should be done without indiscriminate quarrying of fill material. The project authorities may explore the possibility of using drill cuttings as land fill material.
- (xxiv) A separate environment management cell with suitably qualified technical personnel to carry out various functions related to environmental management to be set up under the control of senior technical personnel who will directly report to the Chief Executive.
- (xxv) Adequate fund provision (capital and recurring exp.) must be made for environmental control measures and the fund so provided should not be diverted for any other proposes.
- (xxvi) The Ministry may add any other stipulations after review of comprehensive EIA report, for development of oil-gas fields of ONGC's off-shore basin.
- (xxvii) The Project Authority must not start commercial production at the proposed sites before getting final clearance from environmental angle.

2. This Ministry or any other competent authority may stipulate any further conditions after reviewing the Impact Assessment Report or any other reports prepared by the project authority.

3. This Ministry may revoke the clearance if implementation of the stipulated conditions is not satisfactory.

4. The above conditions will be enforced, inter-alia under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, and the Environment (Protection) Act, 1986.

The Secretary,  
Deptt. of Chemicals & Petrochemicals  
Shastri Bhavan,  
New Delhi.

(S.R. Singh)  
Secretary, ISEI

No. J-11011/6/91-1A  
Government of India  
Ministry of Environment & Forests  
IA Division  
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Parivahan Bhawan  
CGO Complex,  
Lodi Road  
New Delhi-110003.

19th December 1991

OFFICE MEMORANDUM

Sub: Environmental Clearance for Oil/Gas Production  
from Ravva Off-Shore Field in Godavari Basin  
and On-Shore Terminal Facility at Sarasamam.

The undersigned is directed to refer to the above proposal and to state that the information furnished in comprehensive EIA has been examined and the project is accorded final environmental clearance subject to the compliance of conditions stipulated below. These conditions are in addition to those stipulated vide our O.M. No. J-11011/1/90-IA dated 30th July 1990.

- i. Environment audit report should be submitted to this Ministry once every year.
- ii. A detailed study on the impacts (short term and long term) of laying sub-sea pipeline (at the time of laying) should be carried out and a report submitted within 6 months to this Ministry.
- iii. A detailed report on the impact of the proposed project on mangroves and steps taken to reduce the adverse impact should be submitted to this Ministry within six months.
- iv. Facilities to tackle disaster in case of accidental oil spill or blow-out should be developed before commencement of the project.
- v. The stacks height of both bath-blaster & flare should be increased to appropriate height in consultation with Andhra Pradesh State Pollution Control Board.
- vi. The flare should be of 40 m. height with injection facilities.
- vii. Ground water monitoring should be carried out and should be regularly reported.

965-5  
27/12/91 (MRS)  
12/12/91 (MRS)

G.G. (C.F.)  
Date 31/12/91

12/12/91  
27/12

G.G. (C.F.) - P1B

- viii. The project authority should prepare a well-defined scheme for disposal of sludge generated in the treatment plant. The site for disposal of solid waste should be identified based on scientific study. The plan for disposal should be submitted to the Ministry within one year.
- ix. The proposed post-project monitoring should be strictly implemented and a report submitted to this Ministry every six months. The location and frequency of monitoring for the proposed environmental parameters should be identified on scientific basis in consultation with Andhra Pradesh State Pollution Control Board.
- x. The storage tanks and spheres must conform to the stipulations made by Chief Inspectorate of Factories, Controller of Explosive etc. wherever required.
- xi. A report on status of implementation of conditions stipulated by this Ministry should be submitted to this Ministry every year from date of issue of this letter.

*sd/-*  
(Dr. R. Kumar)  
Senior Scientific Officer

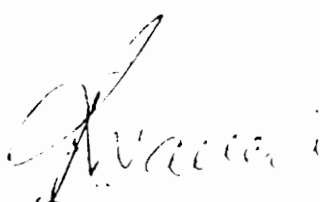
To

The Secretary  
Ministry of Petroleum & Natural Gas  
Udyog Bhawan  
New Delhi-110011.

Copy to:

1. Chairman, Oil & Natural Gas Commission, Tel Bhawan, Dehradun.
2. Chairman, Andhra Pradesh Pollution Control Board, 6-6-215/124, Kavadiquda, Secunderabad-500003.
3. Chairman, Central Pollution Control Board, Parliament Bhawan, CBD-cum-Office Complex, East Arjan Nagar, Delhi-110032.
4. Chief Conservator of Forests (South), Department of Forests, No. 463, 1st Main, III Block, III Stage, East Arjan Nagar, Bangalore-560079.

5. Director (Regional Office Cell), Ministry of Environment and Forests, New Delhi.
6. Adviser (IM), Planning Commission, Yojana Bhawan, Parliament Street, New Delhi-1.
7. Adviser (P&D), Planning Commission, Yojna Bhawan, Parliament Street, New Delhi-1.
8. Joint Secretary (Plan Finance), Department of Expenditure, North Block, New Delhi-110001.
9. Monitoring File.
10. Guard File.
- ✓ 11. Record File.

  
(Dr. R. Warrior)  
Senior Scientific Officer