

No. J-11011/21/94-IA.II(I)

तार :

Telegram : PARYAVARAN.  
NEW DELHI

दूरभाष :

Telephone : 4364968

टेलिक्स (द्विभाषीय) :

Telox : (bi-lingual) : W-66185 DOE IN

Fax : 4360678

भारत सरकार

पर्यावरण एवं वन मंत्रालय

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स

PARYAVARAN BHAWAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODHI ROAD, NEW DELHI-110003

OFFICE MEMORANDUM

16.2.95

**SUBJECT:** 6 MTPA GRASSROOT REFINERY, INCLUDING CAPTIVE POWER PLANT (C.P.P) AND MARKETING TERMINAL ( BY BPCL ) AT BINA IN M.P. OF BIHARAT OMAN REFINERIES LIMITED - ENVIRONMENTAL CLEARANCE-REG.

This has reference to letter No. CIR:1:12 dated 25.11.94 from Manager (EOEL), Bharat Oman Refineries Limited, Bombay on the above subject.

- 2 The project proposal has been examined and environmental clearance is accorded subject to implementation of the following conditions and environmental safeguards:
- / i. The project authority must strictly adhere to the stipulations made by the M.P. Pollution Control Board and the State Government.
  - / ii. Any expansion of the plant, either with the existing product mix or new product(s) or storage facilities etc., can be taken up only with the prior approval of this Ministry.
  - / iii. Total emissions of SO<sub>2</sub> from the entire refinery complex should not exceed the range 30-40 TPD.
  - / iv. The gaseous emissions from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time, the emissions level should go beyond the stipulated standards. In the event of failure of any pollution control system (s) adopted by the unit, the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.

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- v. Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided.
- vi. Low NOx burners to avoid excessive formulation of NOx should be provided.
- vii. At least four ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO<sub>2</sub>, NO<sub>x</sub>, HC and SPM are anticipated. The monitoring network should be decided based on the modelling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also be planned.
- viii. Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimised by adopting necessary measures. Action plan should be prepared for this purpose and submitted to this Ministry.
- ix. Adequate facilities for monitoring the fugitive emissions should be planned.
- x. The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary.  
→ height of stacks attached to AVU, HCU, CPP etc., should not be less than 100m.
- xi. Designing of LPG spheres including the exclusion zone should be finalised in consultation and approval of the Department of Explosives.
- xii. Ground water should not be tapped for industrial as well as domestic uses including the township. Alternate source has to be finalised keeping in view its impact on other competent users.
- xiii. Recycling/Reuse of the treated effluent to the maximum extent possible should be planned.
- xiv. Adequate number of influent and effluents quality monitoring stations have to be planned with adequate facilities especially for the parameters like phenols, sulphides, oil and grease, suspended solids, BOD, COD, pH and flow.

- ✓ xv. System to recover oil from the oily sludges and Incinerator for burning the residues should be provided.
- ✓ xvi. Hazardous substances and solid wastes should be handled, stored and disposed off as per the Hazardous Wastes (Management and Handling) Rules, 1989 of the EPA, 1986.
- ✓ xvii. Cutting of trees from the project sites should be kept to minimum while developing the site and planning the infrastructural facilities.
- ✓ xviii. The industrial township should not be located in the down wind direction with respect to the refinery.
- ✓ xix. Adequate sanitation facilities and cooking fuel should be provided to the labourers to avoid tree cutting and nuisance in the area.
- ✓ xx. The labourers of contractor(s) should leave the place after completion of the work at site to avoid creation of slum in the adjoining areas of the project.
- ✓ xxi. The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing acoustic hoods, silencers etc., on all the sources of noise generation.
- ✓ xxii. A green belt of atleast 200 m width and adequate density in the downwind direction using native plant species should be developed in consultation with the local DFO.
- ✓ xxiii. Necessary approvals from the Chief Explosives Directorate, Inspector of Factories, Fire Safety Inspector etc., should be obtained and copies of approval letters be made available to this Ministry.
- ✓ xxiv. The project authority should set up laboratory facilities for collection and analysis of samples under the supervision of competent technical personnel, who will directly report to the Chief Executive.
- ✓ xxv. An Environmental Management Cell should be established with suitably qualified people to carry out various functions, and should be set up under the control of a senior executive who will report directly to the Head of the organisation.

- xxvi. Medical surveillance of workers should be done regularly to avoid possibility of contracting occupational diseases against the workers engaged in the various plants and record maintained.
- xxvii. The project authorities should carry out a water balance study at the proposed weir site and submit the report within 12 months.
- xxviii. The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure should be reported to this Ministry.
3. The project authorities should also comply with the additional stipulations and conditions prescribed in the EIA and risk analysis reports.
4. The Ministry or any other competent authority may stipulate any further conditions, after reviewing reports prepared by the project authorities, or after assessing the pollution caused after the implementation of the project.
5. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
6. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981; the Environment (protection) Act, 1986 and the Public Liability Insurance Act, 1991, along with their amendment and rules.

( K.K. JAIN )  
Joint Director

e Secretary  
nistry of Petroleum & Natural Gas  
astri Bhawan  
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PY TO :

✓ The Chairman-cum-Managing Director, Bharat Oman Refineries,  
Mahul, Bombay-400074.

The Chairman, M.P. Pollution Control Board, E-5, Arera  
Colony, Near Habibganj Police Station, Bhopal.

The Chairman, CPCB, Farivesh Bhawan, CBD Complex, East  
Arjun Nagar, Delhi.

CCF, Regional Office, E-3/240, Arera Colony, Bhopal.

Adviser(PAD), Planning Commission, Yojana Bhawan, New Delhi

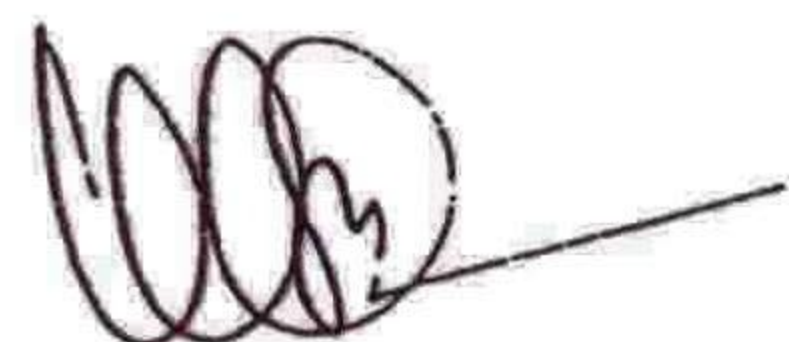
Adviser (PE), Planning Commission, Yojana Bhawan, New Delhi

Jt Secretary (Plan Finance), Deptt of Expenditure, Ministry  
of Finance, North Block, New Delhi.

Guard File.

Monitoring File.

Record File.



( K.K. JAIN )  
Joint Director