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भारत सरकार

पर्यावरण एवं वन मंत्रालय

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण भवन सी० जी भो० कॉम्प्लेक्स

PARYAVARAN BHAWAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODHI ROAD, NEW DELHI-110003

Dated 5th August, 1996.

OFFICE MEMORANDUM

No. J-11011/1/96-IA.II(I).

Sub: Expansion of Mangalore Refinery from 3 MTPA to 9 MTPA including 67.5 MW captive power plant and three D.G. sets (1x500 KVA and 2x2000 KVA) by Mangalore Refinery and Petrochemicals Limited (MRPL) - Environmental Clearance reg.

This has reference to an application received in this Ministry in December, 1995 and subsequent letters of 27th March, 1996, 20th May, 1996; and 24th June, 1996 on the above subject from Managing Director (Tech), MRPL, Bombay.

2. The proposal has been examined and environmental clearance is accorded to the project for Phase-II i.e. 6 MTPA subject to the conditions and environmental safeguards stipulated below:-

- i. The project authorities must obtain final NOC from the State Pollution Control Board before operating expansion facilities of 6 MTPA.
- ii. SPCB before granting "consent to operate" should ensure about adherence to safeguards stipulated in this letter.
- iii. The project authority must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government.
- iv. Any further 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.
- v. Total emissions of SO₂ from the expanded facilities should be in the range 30-40 TPD maximum. Only low sulphur fuel should be used.
- vi. The gaseous and particulate matter emissions from various process units should conform to the standards prescribed by the

45

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.

- vii. Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided.
- viii. Low NOx burners to avoid excessive formulations of NOx should be provided.
- ix. At least five 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 SO₂, NO_x, 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.

Fugitive emissions of H₂ from storage tanks, crude oil tanks etc., should be minimized by adopting necessary measures.
- xi. Adequate facilities for monitoring the fugitive emissions should be planned, data recorded and maintained.
- xii. The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary.
- xiii. Designing of LPG spheres including the exclusion zone should be finalised in consultation and approval of the Department of Explosives.
- xiv. Liquid effluents from the refinery should conform to the standards as prescribed by the State Pollution Control Board/Ministry of Environment and Forests under the EPA, 1986. Treatment effluent should be subjected to bio assay test. Recycling/reuse of the treated effluent should be as per orders of the Karnataka Government, of December, 1995.
- xv. Adequate number of influent and effluent quality monitoring stations should be set up with adequate facilities especially for the parameters like phenols, sulphides, oil and grease, suspended solids, BOD (3 days at 27°C), COD, pH and flow.
- xvi. System to recover oil from oily sludges and incinerator for burning the residues should be provided.
- xvii. Hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the EPA, 1986 and necessary approval of State Pollution Control Board for safe collection, treatment, storage and disposal of hazardous wastes

should also be obtained.

- xviii. Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994.
- xix. Cutting of trees from the project site should be kept to minimum while developing the site and planning infrastructural facilities.
- xx. The industrial township should not be located in the down wind direction with respect to the refinery.
- xxi. Noise levels in the work environment should not exceed 85 dB. The workers engaged in the noisy places should be provided with the ear plugs/muffs.
- xxii. A green belt of adequate width and density (2000-2500 trees/ha.) should be developed in consultation with the local DFO/Agriculture Department preferably using native plant species. A minimum of 30% of the land area should be earmarked for this purpose.
- xxiii. Suitable alarm system and standard procedure for permitting the information on fire or accidental release of hazardous/toxic substances to the nearby areas and the proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided.
- xxiv. Necessary approvals from Chief Explosives Directorate, Inspector of Factories, Fire Safety Inspector etc. should be obtained and copies of approval letters be made available to this Ministry.
- xxv. The project authorities must set up laboratory facilities for collection and analysis of samples under supervision of competent technical personnel, who will directly report to the Chief Executive.
- xxvi. A separate environmental management cell with suitably qualified people to carry out various functions should be set up under the control of a Senior Executive, who will report directly to the Head of the organisation.
- xxvii. The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for any other purpose and year-wise expenditure should be reported to this Ministry.
- xxviii. Six monthly reports on the compliance status of project implementation vis-a-vis above environmental measures should be submitted to Regional Office of this Ministry at Bangalore.

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xxviii. Six monthly reports on the compliance status of project implementation vis-a-vis above environmental measures should be submitted to Regional Office of this Ministry at Bangalore.

3. The above conditions are in addition to conditions no. 10, 11, 13 & 14 of this Ministry's letter No. J-11011/6/89-IA.II dated 1st February, 1991 and those contained in letter No. J-11011/6/89-IA.II of 30th April, 1993.

4. This Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities.

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 and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981; the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 with their amendments and rules.

(K.K. JAIN)
Joint Director

The Secretary,
Ministry of Petroleum and Natural Gas,
Government of India,
Shastri Bhavan,
New Delhi-110001.

Copy to:-

1. The Chairman, Mangalore Refinery & Petrochemicals Ltd. Arcadia, 7th Floor, 195 NCPA Marg, Nariman Point, Bombay-21. A set of EIA report & other documents be sent to addressee No. 4.
2. Chairman, Karnataka State Pollution Control Board, No. 25, 6th 7th & 8th Floor, Public Utility Building, M.G. Road, Bangalore.
3. Chairman, Central Pollution Control Board, Parivesh Bhavan, CGD-cum=Office Complex, East Arjun Nagar, Delhi-110032.
4. Chief Conservator of Forests, Regional Office, Kendriya Sadan, 4th Floor, II Block, 17th Main Road, E&F Wing, Koramangala, Bangalore.

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5. Joint Secretary, (PF-II), Ministry of Finance, Department of Expenditure, North Block, New Delhi.
6. Adviser (PAMD), Planning Commission, Yojana Bhavan, New Delhi.
7. Monitoring file.
8. Record File.



(K.K. JAIN)
JOINT Director