



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು-560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavan", 1st to 5th Floors, # 49, Church Street, Bangalore - 560 001, Karnataka, INDIA

NO.KSPCB/HPI/067/CFEx/2011-12/ 399

DATE:

// By RPAD//

6 SEP 2011

TO:

The Managing Director
M/s Mangalore Refinery & Petrochemicals Ltd.,
Post: Kuthethoor Via Katipalla
Mangalore - 575 030.

Sir,

Sub: Consent for Establishment for increasing the production capacity of refining crude oil from 12.5MMTPA to 13.6 MMTPA by revamp of CDU-1 and revamp of Gas Hydrodesulphurization unit (GOHDS) TO PRODUCE EURO-IV quality HSD and unit capacity enhancement from 1.35 MMTPA to 1.74 MMTPA .

Ref: 1) CFE application submitted on 01.01.2009

- 2) Inspection report of Regional Officer, KSPCB, Mangalore, Vide No: 401 dated; 30.05.2009.
- 3) Environmental Clearance F.No. J-11011/8/2009-IA II(I) dated 23.12.2009
- 4) T.O. letter No. KSPCB/CEO/SEO/17-Cat/MRPL/2009-10/4330 dtd 22.02.10
- 5) MoEF Office Memorandum No. J-11013/5/2010-IA.II(T) dated 23.05.2011
- 6) Your letter dated 25.05.2011
- 7) Proceedings of CCM held on 02.07.2011

M/s. Mangalore Refineries and Petrochemicals Limited (subsidiary of ONGC), Kuthethoor via Katipalla Mangalore-575030 an existing industry engaged in the Processing of 12.5MMTA crude oil. Subsequently vide ref (1) industry has applied for Consent for Establishment for enhancing crude oil processing capacity from existing 12.5MTPA to 13.6MMTPA through a new pre-fractionator unit at the upstream of CDU-1, revamp of Gas Oil Hydro-desulfurization system (GOHDS) to produce EURO-IV quality HSD and the unit capacity enhancement from 1.35 MMTPA to 1.74 MMTPA and additional storage to handle the throughput of the refinery. T.O vide ref (4) has addressed a letter to MoEF seeking clarification on the moratorium declaring the said area as critically polluted by the CPCB. Now, vide ref (6) you have again sought the CFEx stating that the MoEF has lifted the Moratorium on 23.05.2011. The subject was discussed in the consent committee meeting held on 02.07.2011 and committee after detailed deliberations recommended the issue of CFE with conditions to plant at least 50,000 saplings during the season.

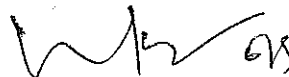
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Considering the request made by the industry the Board hereby accords consent under Water (Prevention & Control of Pollution) Act 1974, and the Air (Prevention & Control of Pollution) Act 1981, refinery crude oil processing capacity enhancement from existing 12.5MTPA to 13.6MMTPA to manufacture the products namely 1) LPG, 2) Naptha, 3) Motor Spirit, 4) Keroscene, 5) ATF, 6) Diesel, 7)LSHS, 8) Furnace Oil, 9) Bitumen, 10) Sulphur, 11) Nitrogen, 12) Mixed Xylene. The quality and different product manufactured depends on the crude quality processed and vary accordingly which is limited to the maximum 13.6MMTA, by installing a new pre-fractionator unit at the upstream of CDU-1, revamp of Gas Oil Hydro-desulfurization system (GOHDS) to produce EURO-IV quality HSD and the unit capacity enhancement from 1.35 MMTPA to 1.74 MMTPA and additional storage to handle the throughput of the refinery, subject to the following conditions.

1. This consent for establishment is valid for a period of **Five years** from the date of issue.
2. The applicant shall not undertake expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary license/clearance from other relevant statutory agencies before taking up construction.
 - a. The industry shall not under take expansion/ diversification/modernization, change of location of site etc., without prior clearance from the board.
 - b. In the event of the resultant pollution load generated from the expansion exceeds the existing pollution load as committed by the industry, at any point of time under any circumstances, after commissioning of the plant, the Board reserves the right to withdraw consent for establishment to the industry to follow the procedure as laid down under EIA Notification 1994.
 - c. The industry shall comply with the condition given under consent for operation and previous CFE's issued till date.

I. Water pollution control:

1. The applicant shall recycle during Non-Monsoon Season 70 to 75% of treated trade effluent and balance shall be discharged to sea at a distance of 650 meters inside the sea form Chitrapura shore and 6.5 meters below the surface, as identified by National Institute of Oceanography, Goa. En-route to the sea, the treated effluent shall pass through an open channel of 500 meters length and there after shall be pumped to sea as stated above.
2. The open channel provided in the pipeline route should be covered with covers which could easily be lifted for inspection, it is the responsibility of the applicant to keep a watch and ward to avoid any tampering of the pipeline, open channel effluent etc.,
3. It is the responsibility of the applicant to maintain the quality of the treated effluent at the sump after the open channel (at APMC yard) and before discharge into sea.
4. The applicant shall provide alternate power supply for pumping the effluent from sump provided at APMC yard.



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5. All the contaminated rain water during monsoon shall be treated and discharged to sea through submarine pipeline.
6. The solid biodegradable waste from the colony and canteen shall be treated in biogas digester. The Biogas shall be used as fuel in the canteen.
7. The existing quantity of effluent generated from the process shall be treated in the WWTP-I and II for domestic and industrial treatment.
8. The discharge from the premises of the applicant shall pass through terminal manhole/manholes where from the Board shall be free to collect samples at any time in accordance with the provisions of the Act or Rules made there under
9. The applicant shall adhere to the water balance and effluent generation as mentioned in the annexure I.

II. AIR POLLUTION CONTROL:

1. The industry shall ensure that the ambient air quality in its premises shall conform to the National Ambient Air Quality Standards specified in Environment (Protection) Rules.
2. Total SO₂ emission will remain within the existing limit of 40 TPD.
3. The industry shall take all the necessary efforts to control odour nuisance caused due to emission from the industry.
4. There shall not be any increase in noise level by the stationary noise sources and the industry shall ensure comply with noise regulatory standards.

III. HAZARDOUS WASTES (MANAGEMENT & HANDLING) RULES:

1. The only hazardous waste generation source is spent catalyst from GOHDS unit. The net increase in the spent catalyst generation will be 117 Tonnes from this proposed project.
2. The Oily sludge generated to be Bioremediated for its disposal.
3. The applicant shall abide by the conditions stipulated in the authorization issued under HWM rules.

IV. GENERAL:

1. The industry shall arrange for alternate power supply to run and operate the essential units of effluent treatment plant/control equipments, in event of break down of regular supply from Electricity Board. The industry shall provide separate energy meters to the Water and Air pollution control systems wherever appropriate.
2. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
3. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.


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4. The industry shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation.
5. The industry is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.
6. The applicant shall comply with all the Rules and guidelines issued from time to time.
7. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
8. This CFE does not give any right to the Party/Project Authority/Industry to forego any legal requirement, that is necessary for setting/operation of the plant.
9. The industry shall furnish point wise compliance to the conditions given under this consent for establishment within 30 days.
10. Industry should plant at least 50,000 saplings this year

Please note that this is only consent for establishment issued to you to proceed with the formalities for infrastructure facility and does not give any right to proceed with establishment of all the individual units. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air from individual units shall have to be obtained by remitting prescribed consent fee. The application for consent to individual units has to be made 45 days in advance.

**FOR AND ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD**

Sd/-
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Encl.: Annexure-I

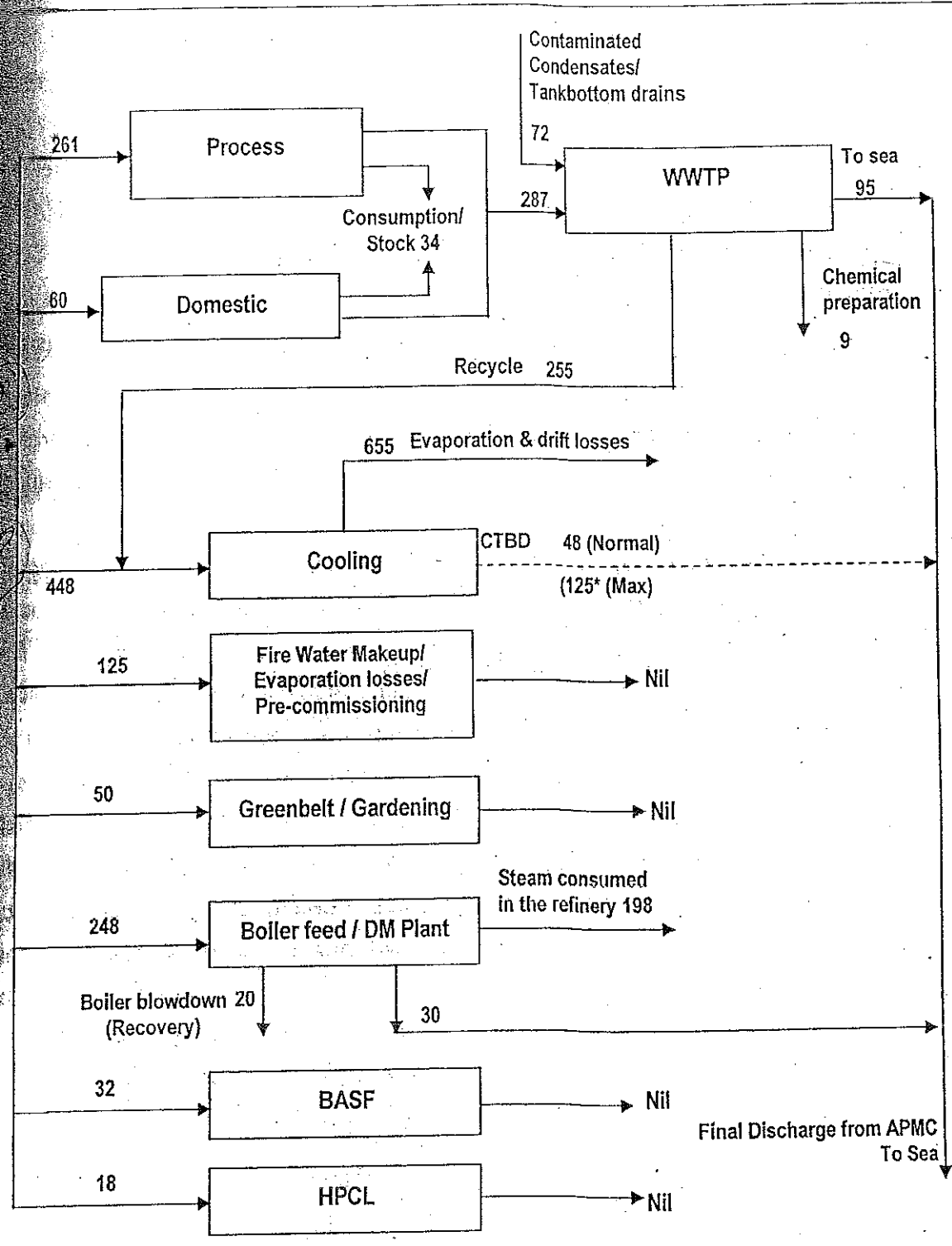
Note:

1. *It is advised to provide all necessary healthcare facilities to employees & local people and shall carry out routine health survey among employees & local people and tests like Spirometry, Pulseoxymetry, Lung function test, etc.*
2. *It is advised to regularly check the health of workers exposed to very high noise levels and suitable measures to avoid any ill effects shall be taken.*
3. *It is advised to take all safety measures to avoid any injury to its employees and local people as per the approved Onsite and Offsite Emergency Plan.*

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, Mangalore, for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Master copy (CFE-Cell).
4. Office copy.


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* Maximum expected during contingencies

Note : All Figures in m³/hr

Fig. 4.2.3.1: Estimated Cumulative Water Balance at MRPL with Proposed Projects (Phase I & II)

