



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ  
**Karnataka State Pollution Control Board**

cc: CM. Padur

Hfgrh  
2/5/10

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ  
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

NO. KSPCB/SEO-17Cat/EO/ISPRL/CFE/2009-10  
// By RPAD//

DATED:

14 MAY 2010

To

The Occupier,  
M/s. Indian Strategic Petroleum Reserves Ltd.,  
301, World Trade Centre,  
3<sup>rd</sup> Floor, Babar Road,  
New Delhi - 110001.

Sir,

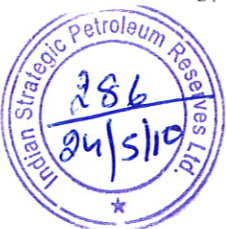
Sub: Consent for Establishment (CFE) under the Water (Prevention & control of Pollution) Act 1974 and Air (Prevention & control of Pollution) Act 1974 for Crude Oil Storage and Handling facility of capacity 2.5 Million Metric Tons at Padur & Herur villages, Udupi taluk & district by M/s. Indian Strategic Petroleum Reserves Ltd., - reg.,

- Ref: 1) CFE application dated 30.12.2009  
2) Inspection of the unit on 05.01.2010  
3) Environmental Clearance issued by SLEIA No. SEIAA: 62: IND: 2008 dated 31.12.2009  
4) Proceedings of the 19<sup>th</sup> Consent Committee Meeting (CFE) EIA held on 31.03.2010.

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With reference to the above, it is to be informed that, the Board hereby accords consent for establishment under the Water (Prevention & Control of Pollution) Act 1974, and the Air (Prevention & Control of Pollution) Act 1981, to M/s. Indian Strategic Petroleum Reserves Ltd., for Crude Oil Storage and Handling facility of capacity 2.5 Million Metric Tons at Padur & Herur villages, Udupi taluk & district, subject to the conditions mentioned below:

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.



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5. The applicant shall comply with all the conditions stipulated in the Environmental Clearance issued by SLEIAA, Karnataka State vide Ref (3).
6. The applicant shall take all necessary pollution prevention steps during the construction period.

#### **I. WATER CONSUMPTION:**

1. The water source shall be from Mulki river and the total water consumption shall be as below:

Sl. No.	Consumption	Water consumption
1	Domestic purposes	0.5 KLH
2	Industrial Purpose	20 KLH

#### **II. WATER POLLUTION CONTROL:**

1. The details of effluent generation and method of treatment and mode of disposal shall be as below:

Sl. No.	Waste water details	Quantity in KLH	Treatment	Disposal
1	Domestic	0.3	Shall be treated in the Septic tank and soak pit.	Soak pit.
2	Industrial	20	Treated in ETP	Treated effluent shall be used for green belt development, water curtain replenishment, fire water and horticulture.

2. The domestic waste water shall not exceed quantity of 0.3 KLH and the same shall be disposed into septic tank with soak pits. No overflow from the soak pit is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part – I and Part – II.
3. The waste water contaminated with crude oil generated from water seepage into the cavern either from groundwater or from water curtain and the waste water from boiler blow down, cooling water blow down and backwash of DM plant shall be treated in ETP.
4. The seepage water shall be treated in ETP in two stages, stage 1 & 2 followed by coarse filter. The treated water shall be completely recycled back in the process for water curtains. The entire system shall be operated as a zero effluent discharge system, approved as per the flow diagram submitted along with the application as per Annexure-I
5. Actual treatment flow sheet shall be submitted with complete design details and flow diagram. All the treatment units shall be totally impervious.

  
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6. The applicant shall provide flow measuring devices at both inlet and outlet of ETP along with separate energy meter for the ETP and maintain logbooks for hourly recording for verification of inspecting officers.
7. The discharge from the premises 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.
8. The groundwater table variation over a period of time and during various seasons shall be monitored and results shall be furnished to the Board.
9. Details of remedial measures to prevent groundwater contamination shall be furnished.
10. The treated effluent holding tank with minimum 5 days retention capacity shall be provided for conducting bio-assay test.
11. The applicant shall monitor the seepage water quantity and characteristics on regular basis.
12. There shall be no bypass or discharge of effluents outside the factory premises.
13. The applicant shall implement Rain water harvesting measures for continuous recharge of groundwater in the area
14. The industry shall provide self monitoring system for the effluents.
15. The applicant is liable to reinstate or restore damage or destroyed elements of environment at his cost, falling which the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by competent agency or committee.

### III. WATER CESS:

1. The industry shall comply with the provisions of Water (Prevention and Control of Pollution) Cess Act, 1977, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said Water (Prevention and Control of Pollution) Cess Act, 1977, and 2003.

### IV. AIR POLLUTION CONTROL:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure – II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under.
2. The type of emissions, rate of emissions, tolerance limits, stack heights and the Air pollution equipments shall be as specified in **Annexure-II**.

  
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3. The industry shall upgrade/modify/replace/change the control equipments/chimney heights if they are found inadequate to meet the standards stipulated. Prior permission of the Board shall be obtained for the same.
4. The industry shall take suitable measures against for any episodal discharge/emissions and shall submit the proposals in this regard.
5. There shall not be any additional air pollution sources from the proposed activity. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.
6. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.
7. The applicant shall provide proper collection and conveying system for Volatile gases release during the operations from the storage area to flare in the flare stack of appropriate height periodically.
8. Micro Meteorological Weather Monitoring Station shall be established.
9. The industry shall take all necessary measures to avoid odour nuisance from the surrounding area.
10. The industry shall ensure that the ambient air quality in its premises shall conform to the new National Ambient Air Quality Standards specified in Environment (Protection) Rules.

#### V. NOISE POLLUTION CONTROL:

1. The industry shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time as specified in the Environment (Protection) Rules.

#### VI. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

Description	Method of disposal
Rock Debris	Stored and used as aggregate for future use.

1. The industry shall collect, treat and dispose off all solid waste generated from the process other than wastes covered under the Hazardous Waste (Management & Handling) Rules, in such manner so as not to cause environmental pollution.
2. The solid waste generated in the form of excavated rock mass like powdered material, hard rock mass and stone aggregate material shall be stored in old quarries for future use as aggregate, for use as building material, roads, landfill etc. depending on the quality.

#### VII. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES 2008:

  
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The industry shall comply with Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008 and shall apply for authorization for the same.

Description	Method of disposal
De Waxing Sludge	Mode of treatment & disposal shall be furnished
ETP sludge	TSDf

The quantity of De Waxing Sludge generated shall be furnished.

#### VIII. GENERAL:

1. 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.
2. The industry shall not commission the proposed plant for trial or regular production unless necessary water pollution control equipments are installed to the satisfaction of the Board. The industry shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.
3. 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.
4. 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.
5. 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.
6. 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.
7. The applicant shall comply with all the Rules and guidelines issued from time to time.
8. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
9. 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.
10. The industry shall furnish point wise compliance to the conditions given under this consent for establishment within 30 days.



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Please note that this is only consent for establishment issued to you to proceed with the formalities for establishment of the industry and does not give any right to proceed with trial/regular production. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance of commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

FOR AND ON BEHALF OF  
KARNATAKA STATE POLLUTION CONTROL BOARD

  
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**Encl.: Annexure-I & II.**

**Note:**

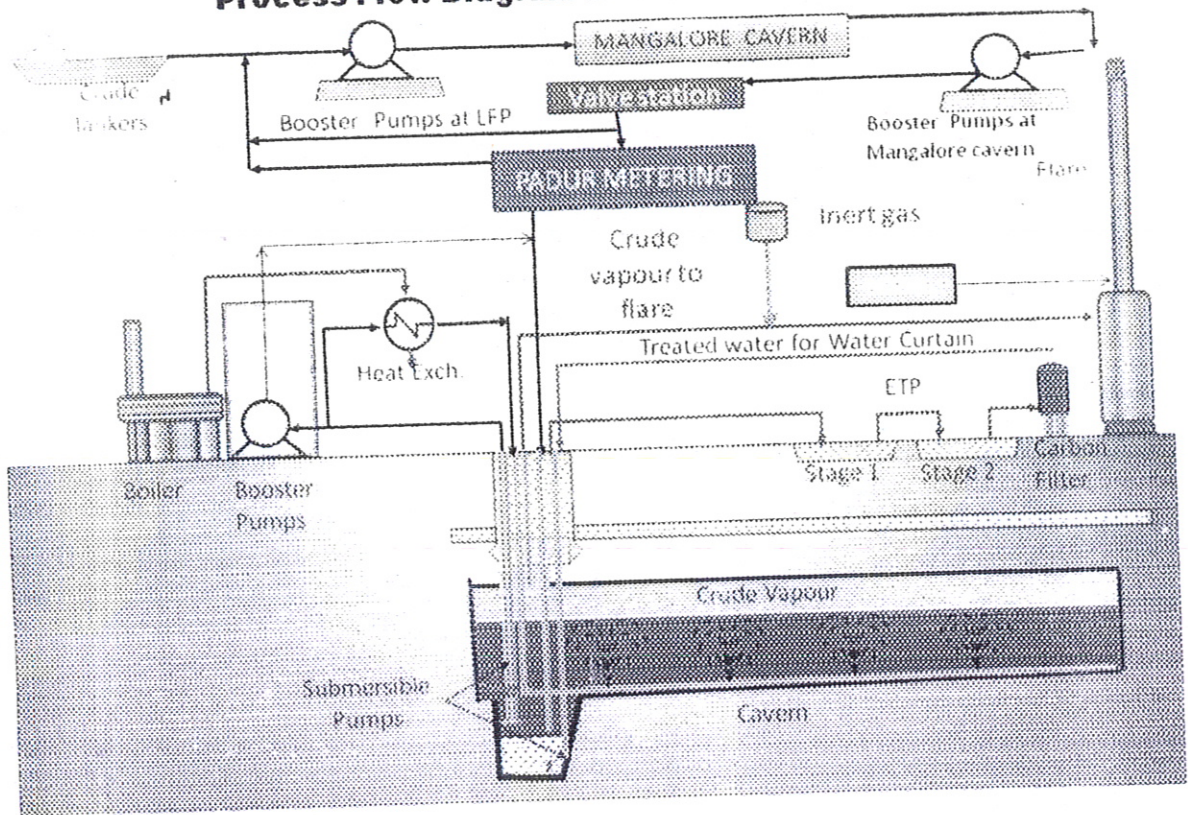
1. *It is advised to provide all necessary healthcare facilities to employees & local people and shall carry out routine health survey among employees & local people and tests like Spirometry, Pulseoxymetry, Lung function test, etc.*
2. *It is advised to regularly check the health of workers exposed 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.*

  
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# ANNEXURE I

## Process Flow Diagram of Crude Cavern Storage



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## ANNEXURE -II

Sl. No	Chimney attached to	Minimum chimney height to be provided above ground level	Rate of emission on NM <sup>3</sup> /Hr.	Constituents to be controlled in the emission	Tolerance limits mg/NM <sup>3</sup>	Air pollution Control equipment to be installed, in addition to chimney height as per Col.(3)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.	Remarks
1	2	3	4	5	6	7	8	9
1	10 TPH Boiler(Diesel) 2No.	40m AGL	--	SO <sub>2</sub>	--	As per Col(3)	Before commissioning.	1. The emission rate of all chimneys shall be reported within 30 days.
2	Flare (NG/LPG)	30m AGL	--	--	--	As per Col(3)		2. There shall be no smell or odour nuisance from the industry.
3	400 KVA D.G.set	7m ARL	--	SO <sub>2</sub>	--	with Acoustic Enclosures		3. There shall be no other source of air pollution.

  
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