

# MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- - Format1.0/BO/CC/ROHQ/EIC-NG-12373-15/CO(amalgamation)/CC-6690  
Date- 06/06/2015

To,  
M/s. Bharat Petroleum Corporation Ltd  
S. No.133,134,135,136 A/B,137,at Pol Depot.NH-7  
At Borkhedi, Tal &Dist: Nagpur.

Subject: Consent to Operate with amalgamation of Existing with expansion in  
storage & handling of Petroleum products in RED category

Ref : Minutes of Consent Committee meeting held on 30/5/2015

Your application CO1503000254

Dated: 27<sup>th</sup> Feb ,2015.

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent to operate is granted for period upto 31/5/2017.
2. The total capital investment of the industry is Rs. 42.7 Crores. (C.I. of Existing project is Rs.34.47 Cr and C.I of expansion of project is Rs. 8.23 Cr) As per CA certificate submitted by industry).
3. The Consent to Operate with amalgamation of Existing storage & Handling of Petroleum products with Expansion in storage & handling of Petroleum products  
A)valid for existing storage of Petroleum products for maximum capacity of 18,157 KL a time for following products:

No.	Tank Number	Product Name	Maximum Capacity at a time in KL
1	ULP 1	Motor Sprit	1330
2	ULP 2	Motor Sprit	1330
3	ULP 3	Motor Sprit	100
4	SKO 1	Superior Kerosene Oil	1330.
5	SKO 2	Superior Kerosene Oil	1330
6	SKO 3	Superior Kerosene Oil	45
7	HSD 1	High Speed Diesel	3189
8	HSD 2	High Speed Diesel	3189
9	HSD 3	High Speed Diesel	3189
10	HSD 4	High Speed Diesel	1330
11	HSD 5	High Speed Diesel	1330
12	HSD 6	High Speed Diesel	45
13	FO 1	Furnace Oil	20
14	SPD 1	Empty	100
15	ETH 1	Ethanol	100
16	ETH 2	Ethanol	100
17	LDO 1	Light Diesel Oil	100
		Total	18157

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B) valid for expansion in storage and handling of Petroleum products for maximum capacity of 11,746 KL at a time as below for following products:

No.	Tank Number	Product Name	Maximum Capacity at a time in KL
1	ATF-1	Aviation Turbine Fuel	4241
2	ATF-2	Aviation Turbine Fuel	4241
3	ATF-3	Aviation Turbine Fuel	200
4	ULP-4	Motor Spirit	3064
		<b>Total</b>	<b>11746</b>

**4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	NA	As per Schedule-I	100% recycle for flushing, gardening within own premises
2.	Domestic sewage	3.5		

**5. Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr. No.	Description of stack/ source	Capacity	Number Of Stack	Standards to be achieved
1	DG Set	65 KVAX2	1	As Per Schedule -II
2	DG Set	25 KVA	1	As Per Schedule -II
3	DG Set	250 KVA	1	As Per Schedule -II
4	DG Set	125 KVA	1	As Per Schedule -II

**6. Conditions about Non Hazardous Wastes:**

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Nil	NA	NA	NA

**7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:**

Sr. no.	Type Of Waste	Category	Quantity	UOM	Treatment & Disposal
1.	Bottom sludge & Filter contaminated with oil	3.3	As & when generated	MT/A	CHWTSDF
2.	Oily Sludge emulsion	4.1	As on actual	MT/A	By bioremediatio process

8. The industry shall comply all the provisions of the HW (M & H) Rules, 2008 including use of Manifest System, Filing of annual returns, safe disposal of Hazardous Waste etc.
9. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
10. This consent shall not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

11. Industry shall comply with the provisions of MSIHC Rules, 1989 as amended thereafter.
12. This consent is issued with overriding effect of existing consent vide No.MPCB/RO(HQ)/EIC-NG-7893-12/R/B/CC-1783 Dated 28/2/2013.
13. The applicant shall comply conditions stipulated in Environmental Clearance granted by Govt. of Maharashtra vide No. SEAC-2013/CR-319/TC-2 dated 4<sup>th</sup> March,2015.

For and on behalf of the  
Maharashtra Pollution Control Board

*Mirash*  
27/11/15  
(P.K.Mirashe)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	3,75,000/-	237222	30/5/2012	SBI
2.	30,000/-	240685	5/10/2012	SBI
1.	60,100/-	241728	20/11/2012	SBI

PP has submitted Consent to Operate fee ie. Rs. 50,100/- for said expansion of project which is adjusted from earlier submitted balanced consent fee of Rs.60100/-,as mentioned in Consent granted by the Board vide No.BO/MPCB/RO(HQ)/EIC-NG-8114-12/E/CC-7927 Dated 23/9/2013.

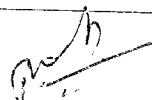
Copy to:

1. Regional Officer – Nagpur & Sub-Regional Officer-Nagpur –II MPCB. They are directed to ensure the compliance of the consent conditions as per their jurisdiction.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- (i) **Trade effluent Treatment:** NIL
- (ii) **Sewage Treatment:** Domestic sewage shall be soaked in a soak pit which got clean periodically. overflow, if any shall be used for gardening/plantation only.
- (iii) **The Industry shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under**  
The daily water consumption for the following categories is as under:
- |                              |     |          |
|------------------------------|-----|----------|
| (i) Domestic                 | ... | 3.00 CMD |
| (ii) Industrial Processing   | ... | 0.00 CMD |
| (iii) Industrial Cooling     | ... | 0.00 CMD |
| (iv) Agriculture / Gardening | ... | 1.00 CMD |
- (iv) The Industry shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.
- (v) Monitoring of ground water (through Peizometric wells) and soil at atleast three location at quarterly interval (every 3 months) shall be carried out to ascertain that these are not getting polluted.
- (vi) The smooth & safe operation of the tankage and pipelines shall be ensured by incorporating a computerized SCADA (Supervisory Control and Data Acquisition) system coupled with vigilance squad to physically check the pipelines for leakage. If, any leakage in the pipeline is detected the product pumping shall be immediately suspended. Necessary precautions for cordoning the affected area shall be taken and use of leaking pipeline shall be discontinued.
- (vii) The offsite emergency preparedness plan prepared by industry shall have scenario for pipeline leakage, spillage during transfer and handling of petroleum during movement of tanker to client's site. Industry shall intimate MPCB immediately along with other agencies concerned incase of such leakage /spillage.
- (viii) The industry shall provide facilities for containing spills during tank/tanker filling operations and in no case shall such spills enter into nearby storm drains.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to install the Air pollution control (APC) system and also proposed to erect following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity	UOM	S%	SO <sub>2</sub>
1	DG Set (65 KVx2)	Acoustic enclosure	7.0*	HSD	540	Ltr/Hr		---
2	DG Set (25 KVA)	Acoustic enclosure	7.0*	HSD				
3	DG Set (250 KVA)	Acoustic enclosure	7.0*	HSD	200	Ltr/Day	-	--
4	DG Set (125KVA)	Acoustic enclosure	7.0*					

\* Above roof of the building in which it is installed.

2. The Industry shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
3. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
4. Standards for Emissions of VOC Pollutants :

Sr. No.	Petrochemical process / compounds	Maximum emission limit (mg/Nm <sup>3</sup> ) dry basis.
1	MA, PA, Phenol	20
2	Ethyl benzene (EB), Styrene, Toulene, Xylene, Aromatics, EG, PG	100
3	Non-methane HC (paraffin), Acetone, olefins	150

5. **Storage of Volatile Liquids : General Petroleum Products**

- (1) Storage tanks with capacity between 4 to 75m<sup>3</sup> and total vapour Pressure (TVP) of more than 10 kpa should have Fixed Roof Tank (FRT) with pressure valve vent.
- (2) Storage tank with the capacity between 75 to 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Root Tank (IFRT) of External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.

*[Handwritten Signature]*

(3) Storage tanks with the capacity of more than 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Roof Tank or External Floating Roof Tank or Fixed Roof Tank with vapour control system.

(4) The tanks with the capacity of more than 75 m<sup>3</sup> and total vapour Pressure (TVP) of more than 76 kpa should have Fixed Root Tank with vapour control system.

(5) Requirement for seals in Floating Roof Tanks:

(i) (a) IFRT and EFRT shall be provided with double seals with minimum vapour recovery of 96%.

(b) Primary seal shall be liquid or shoe mounted for EFRT and vapour mounted for IFRT. Maximum seal gap width will be 4 cm and maximum gap area will be 200 cm<sup>2</sup>/m of tank diameter. (c) Secondary seal shall be rim mounted. Maximum seal gap width will be 1.3 cm and maximum gap area will be 20 cm<sup>2</sup>/m of tank diameter. (d) Material of seal and construction shall ensure high performance and durability.

(ii) Fixed Roof Tanks shall have vapour control efficiency of 95% and vapour balancing efficiency of 90%

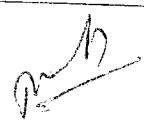
(iii) Inspection and maintenance of storage tanks shall be carried out under strict control. For the inspection, API RP 575 may be adopted, In-service inspection with regard seal gap should be carried out once in every six months and repair to be implemented in short time. In future, possibility of on-stream repair of both seals shall be examined.

Emission control for Road tank truck/Rail tank wagon loading		
Loading of Volatile Products	Gasoline and Naphtha:	
	(i) VOC reduction, %.	(i) 99.5
	(ii) Emission, gm/m <sup>3</sup>	(ii) 5
Benzene:		
	(i) VOC reduction, %	(i) 99.99
	(ii) Emission, mg/m <sup>3</sup>	(ii) 20
Toluene/Xylene:		
	(i) VOC reduction, %	(i) 99.98
	(ii) Emission, mg/m <sup>3</sup>	(ii) 150
Note:		
(i) It shall be applicable for Gasoline, Naphtha, Benzene, Toluene and Xylene loading.		
(ii) Road tank Truck shall have Bottom loading and Roll tank wagon shall have Top submerged loading.		
(iii) Annual leak testing for vapour collection shall be done.		

6. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(7) VOC Emission Controls:

- a) The industry shall take all operational practices & implement control measures to limit VOC emission during breathing (tank evaporative emission) and during filling of storage tanks as mandated under storage tank provision of GSR 186 (E) Dt. 18.03.2008.
- b) Industry shall keep record indicating type of chemical stored in different tanks & submit the same to MPCB every month.
- c) The tanks shall be maintained as per the API RP 575 Standards and provided with modern instrumentation to ensure that there shall be no leakage or spillage during handling.
- d) The industry shall have preventive maintenance plan and keep records of preventive maintenance carried out. For IFR Tanks, this shall include regular inspection of seals, seal gap, condition of various sleeves, jackets etc.
- e) The industry shall monitor vapour pressure in the tanks. The industry shall spray water on tank shells by water sprinkler installed, provided tank vapour pressure exceeds set norms. Industry shall maintain records of operation of fire water sprinkler & submit the same to MPCB every month.
- f) The industry shall provide adequate arrangement for capturing VOC emissions during tanker filling. This shall include providing compatible lids (with suitable openings for filling pipe and fume extraction vent) to close the manholes on the tanker top so that no VOC emissions leaks into the environment. Alternately bottom loading of tankers with leak proof vapour collection facilities at the manholes will be provided. Compatible loading arms with level gauge, metered flow to tanker to ensure control filling to be provided. Vapour capturing hoses shall be connected to central header and shall have extra provision for collecting VOC emissions from maintenance activities and during pigging of pipelines.
- g) The collection header shall be connected to Air pollution control system consisting of brine chiller followed by activated carbon/charcoal to meet standard as given in GSR - 186 (E) Dt. 18.03.2008.
- h) The industry shall explore possibility of collecting vapors from open manholes during tank washing and diverting the same to the air pollution control system provided.
- i) Industry shall ensure that the nitrogen / air used during pigging operations shall be diverted to the air pollution control system provided.
- j) The air blown from manifold to tanker filling point shall be diverted to air pollution control system provided.
- k) High level alarm synchronized with cut off capacity shall be provided to the storage tanks.
- l) The internal roads shall be cement concrete and shall be maintained with adequate green belt.
- m) The Industry shall monitor ambient air quality on a monthly basis and the emission of Volatile Organic Compound particularly Toluene, Xylene and non methane Hydro Carbon from MoEF approved laboratory.
- n) The Industry shall not cause any nuisance in surrounding area.



**Schedule-III**

**Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed (Rs.)	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Operate with amalgamation	3,00,000	15 days	Compliance of consent conditions.	31.5.2017	31.9.2017

Maharashtra Pollution Control Board

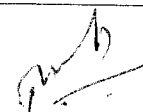
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## Schedule-IV

### General Conditions:

- 1) The Industry shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) The Industry shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the Industry shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 3) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 4) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc shall go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 5) The industry shall comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 6) An inspection book shall be opened and made available to the Board's officers during their visit to the Industry.
- 7) **The Industry shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).**
- 8) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website([www.mpcb.gov.in](http://www.mpcb.gov.in)).
- 9) Conditions for D.G. Set
  - a) Noise from the D.G. Set shall be controlled by providing an acoustic enclosure or by treating the room-acoustically.
  - b) Industry shall provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
  - c) Industry shall make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - e) A proper routine and preventive maintenance procedure for DG set shall be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
  - f) D.G. Set shall be operated only in case of power failure.
  - g) The Industry shall not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - h) The Industry shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel



- 10) The Industry shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 11) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 12) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 13) During transportation handling of Petroleum product if any accident occurs, the industry shall make emergency arrangement having responsibility to control the situation.
- 14) Industry shall obtain necessary clearances under the Forest (Conservation) Act, 1980 and the Wildlife (Protection) Act, 1972.
- 15) The storage tanks shall be kept in good conditions all the year round with adequate maintenance.
- 16) The project authority shall prepare On-site & Off-site emergency preparedness plan based on detailed risk analysis.

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Maharashtra Pollution Control Board