



STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012

No. 16060/

IND-I-CON(Misc)-1670

Date: 10.10.2023

NOTIFICATION

Motor Spirit or petroleum refueling stations are a major source of benzene emission which is a carcinogenic compound. The health hazards are mainly due to release of Volatile Organic Compounds (VOC) which are subsequently converted to semi volatiles and results in formation of secondary organic aerosols. Several complaints and Court cases have filed against the environmental concerns related to establishment of petroleum refueling stations.

Central Pollution Control Board has published a guideline for setting up new petrol pumps by its Office Memorandum vide O. M. No. B-13011/1/2019-20/AQM/10809 dated 07/01/2020, in compliance with Hon'ble NGT Order dated 18/01/2019 in OA number 86/2019. Furthermore, CPCB has issued an addendum to the above guideline with regard to minimum distance from water bodies to the petrol pump on 16.08.2021 pursuant to the Orders dated 23.07.2020 and 09.10.2020, in the matter of Suresh Mandaloi Vs. State of M.P. & Ors. [OA no.61 of 2019 (CZ)]. In this matter there were a series of appeals before the Hon'ble Supreme Court and Hon'ble Supreme Court while disposing the Civil Appeal No.421 of 2022, passed its judgement vide order dated 14.03.2023.

In the above background, as per the decision taken in the 128th Board Meeting held on 16.08.2023, and after taking into consideration the decisions of Hon'ble NGT and Hon'ble Supreme Court of India, all the petrol pumps shall follow the following for protection of environment.

1. It is mandatory for all the Retail Petroleum Fuel Filling Stations of Oil Manufacturing Companies such as M/s. IOCL, M/s. BPCL, M/s. HPCL and M/s. Essar Oil and M/s. Nayara and others operating in the twin city of Bhubaneswar and Cuttack to install Vapour Recovery System (VRS) as per CPCB Guideline of dated 07.01.2020.
2. The petroleum product filling Stations is hereby listed under White Category of industries and thus the filling stations are exempted from obtaining Consent to Establish / Consent to Operate from the Board.



3. The Oil Manufacturing Companies shall submit a time-bound plan for installation of VRS in the petrol pumps operating within the cities limits of Cuttack-Bhubaneswar within one month from the issue of this notice.
4. The guidelines published by CPCB dated 07.01.2020 and its addendum dated 16.08.2021 shall be followed by the District Magistrates and Collectors for implementation of sitting criteria while issuing prior approval / NOC / initial approvals for setting up new petroleum fuel filling stations.
5. For details, the CPCB guidelines dated of 07.01.2020 and addendum dated 16.08.2021 can be referred at CPCB website: www.cpcb.nic.in and SPCB website at www.ospcboard.org.

This notification is issued without prejudice to provisions of any other relevant laws for compliance and subject to outcome of any relevant matter pending before Hon'ble Court / Competent Legal forum.

BY ORDER OF CHAIRMAN



MEMBER SECRETARY

Memo No. 16061, Date 10.10.2023

Copy forwarded to:

1. PS to the Chief Secretary, Odisha-cum-Chairman, SPCB, Odisha for kind information of the Chairman, SPCB, Odisha.
2. Director (Env.)-cum-Special Secretary to Govt., Forest, Environment and Climate Change Department., Govt. of Odisha for kind information and necessary action.
3. CEEs / CESs / ACEEs / ACESs, SPC Board, Odisha
4. All the Collector & District Magistrate.
5. All the Regional Officers, SPC Board, Odisha.
6. SLO(II), SPC Board, Odisha.
7. All the Oil Marketing Companies.
8. CEE (CTO), SPCB, Odisha. The System Administrator may be requested to display the Notification and CPCB guidelines in Board's website for public view.



MEMBER SECRETARY



B-13011/1/2019-20/AQM

August 16, 2021

OFFICE MEMORANDUM

Sub: Addendum to the Guidelines for Setting Up of New Petrol Pumps issued on January 07, 2020 -regarding.

CPCB in compliance of the Hon'ble National Green Tribunal order dated January 18, 2019 in O.A. No. 86/2019: Gyanprakash @ Pappu Singh Vs Uoi & Ors. issued guidelines for Setting Up of New Petrol Pumps vide O.M. No. B-13011/1/2019-20/AQM/10809 dated January 07, 2020.

Hon'ble NGT vide further orders dated 23.07.2020 and 09.10.2020, in the matter of Suresh Mandaloi Vs. State of M.P & Ors. (O.A. No. 61 of 2019 (CZ)), directed MoEF&CC and CPCB to submit a report with regard to the minimum distance from water bodies to the petrol pump.

The matter was referred to the Expert Committee and the draft guidelines for implementation in case of petrol pumps near water bodies were prepared. The guidelines also specify the groundwater and soil sampling protocol, frequency of sample collection and the prescribed parameters and screening values to be adopted. The same monitoring protocol and parameters/ values (except for monitoring frequency) need to be adopted for petrol pumps covered under the guidelines dated January 07, 2020.

These draft guidelines were placed in public domain for seeking comments/suggestions from public and concerned stakeholders. These were reviewed by the Expert Committee and the guidelines have been finalised and are hereby issued as addendum to the earlier CPCB Guidelines dated January 07, 2020 for implementation by concerned stakeholders.

This issues with the approval of the Competent Authority.


(P.K. Gupta)
Additional Director & Divisional Head
AQM Div.

Encl.: As Above

To

1. All SPCBs/ PCCs
(As per list enclosed)

with a request to circulate to Commissioner of civil supplies or other similar authorities who look after issues related to petrol pumps at State/ UT level and District Collectors/ Commissioners /Deputy Commissioners.

List of Stakeholders

1.	The Member Secretary Andhra Pradesh State Pollution Control Board D. No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalmvari Street, Kasturibaipet, Vijayavada-520010	2.	The Member Secretary Arunachal Pradesh State Pollution Control Board 'ParyavaranBhavan', Yupla Road, PappuNallah, Naharlagun - 791110 Arunachal Pradesh
3.	The Member Secretary Assam State Pollution Control Board Bamunimaidan, Guvahati - 781021 Assam	4.	The Member Secretary Bihar State Pollution Control Board Parivesh Bhawan, Plot No.N-B/2, Patliputra Industrial Area Patna-800023
5.	The Member Secretary Chhattisgarh Environment Conservation Board Paryavas Bhawan, North Block Sector-19 NayaRaipur - 492 099 Chhattisgarh	6.	The Member Secretary Goa State Pollution Control Board Nr. Pilerne Industrial Estate, Opp. Saligao Seminary, Saligao - Bardez Goa - 403511
7.	The Member Secretary Gujarat State Pollution Control Board Sector 10-A, Gandhi Nagar - 382043 Gujarat	8.	The Member Secretary Haryana State Pollution Control Board C-11, Sector 6, Panchkula, Haryana 134109 Haryana
9.	The Member Secretary Himachal Pradesh State Pollution Control Board ParyavaranBhavan, Phase III, New Shimla - 171009 Himachal Pradesh	10.	The Member Secretary J&K State Pollution Control Board, Parivesh Bhawan, Forest Complex, Gladni, Narwal, transport Nagar, Jammu (J&K)
11.	The Member Secretary Jharkhand State Pollution Control Board T.A Building, HEC Campus, P.O. Dhurwa Ranchi 834004 Jharkhand	12.	The Member Secretary Karnataka State Pollution Control Board ParisaraBhavan, 4 th & 5 th floors Church Street, Bangalore 560 001 Karnataka
13.	The Member Secretary Kerala State Pollution Control Board Plamoodu Junction, Pattam Palace P.O. Thiruvananthapuram - 695004 Kerala	14.	The Member Secretary Maharashtra State Pollution Control Board Kalpataru Point, 3 rd & 4 th floors Sion Matunga Scheme Road No. 6 Opp. Cine Planet, Sion Circle, Sion (E), Mumbai 400 022, Maharashtra
15.	The Member Secretary Madhya Pradesh State Pollution Control Board ParyavaranParisar, E-5 Arera Colony Bhopal - 462016 Madhya Pradesh	16.	The Member Secretary Manipur State Pollution Control Board Lamphelpat, Imphal West D.C. Office Complex - 795004 Manipur
17.	The Member Secretary Meghalaya State Pollution Control Board Arden, Lumpyngngad, Shillong - 793014 Meghalaya	18.	The Member Secretary Mizoram State Pollution Control Board New Secretariat Complex, Khatla, Thlanmual Peng, Aizawl Mizoram 796001
19.	The Member Secretary Nagaland State Pollution Control Board Signal Point, Dimapur, Nagaland - 797112 Nagaland	20.	The Member Secretary Odisha State Pollution Control Board Paribesh Bhawan A-118, Nilakanta Nagar, Unit VIII, Bhubaneswar 751012 Odisha
21.	The Member Secretary Punjab State Pollution Control Board Nabha Road, ITI Rd, Adarsh Nagar, Prem Nagar, Patiala - 147001, Punjab	22.	The Member Secretary Rajasthan State Pollution Control Board A-4 Institutional Area, JhalaneDungri Jaipur - 302004, Rajasthan

23.	The Member Secretary Sikkim State Pollution Control Board State land Use & Environment Cell Govt. of Sikkim, Deorali, Gangtok. Sikkim	24.	The Member Secretary Tamil Nadu State Pollution Control Board No. 76, Mount Salai, Guindy, Chennai - 600032 Tamil Nadu
25.	The Member Secretary Telangana State Pollution Control Board ParyavaranBhavan A-3, Industrial Estate, Sanath Nagar, Hyderabad - 500 018 Telangana	26.	The Member Secretary Tripura State Pollution Control Board Parivesh Bhawan Pt. Nehru Complex, Gorkhabasti P.O., Kunjaban, Agartala. West Tripura - 799 006 Tripura
27.	The Member Secretary Uttarakhand Environment Protection & Pollution Control Board 29/20, Nemi Road, Dehradun - 248001 Uttarakhand	28.	The Member Secretary Uttar Pradesh State Pollution Control Board 3 rd floor, PICUP Bhavan, VibhutiKhand, Gomti Nagar, Lucknow- 226010 Uttar Pradesh
29.	The Member Secretary West Bengal State Pollution Control Board ParibeshBhavan Building, No.10-A, Block -LA, Sector 3, Salt Lake City, Kolkata - 700 091, West Bengal	30.	The Member Secretary Delhi Pollution Control Committee, Government of N.C.T. Delhi 4th Floor, ISBT Building, Kashmere Gate, Delhi-110006
31.	The Member Secretary Andaman & Nicobar Islands Pollution Control Committee, Department of Science & Technology, Dollygunj Van Sadan, Haddo P.O., Port Blair 744102	32.	The Member Secretary Chandigarh Pollution Control Committee, Paryavaran Bhawan, Ground Floor, Sector19 B Madhya Marg, Chandigarh
33.	Member Secretary Daman, Diu & Dadra Nagar Haveli Pollution Control Committee, Office of the Deputy Conservator of Forests, Moti Daman, Daman - 396220	34.	Member Secretary Lakshadweep Pollution Control Committee, Department of Science, Technology & Environment, Kavarati-682555
35.	Member Secretary Pondicherry Pollution Control Committee, Housing Board Complex, Anna Nagar, Pondicherry-600 005		---

2. Joint Secretary (Marketing)
Ministry of Petroleum and Natural Gas, Govt. of India
Shastri Bhavan,
New Delhi - 110001
3. Chief Controller of Explosives
Petroleum and Explosive Safety Organization (PESO)
A Block CGO Complex Fifth Floor Seminary Hills
Nagpur-(Maharashtra) -440006
4. Director
Legal Metrology
Ministry of Consumer Affairs, Food and Public Distribution Deptt. of Consumer Affairs,
Room No.461-A, Krishi Bhawan,
New Delhi - 110 001
5. The Chairman,
M/s. Bharat Petroleum Corporation Limited
Bharat Bhavan, 4 and 6 Currimbhoy Road
Ballard Estate, Mumbai 400 001
6. The Chairman,
M/s. Hindustan Petroleum Corporation Limited
Petroleum House, 17, Jamshedji Tata Road, Mumbai
Maharashtra 400020
7. The Chairman,
M/s. Indian Oil Corporation Limited
Indian Oil Bhawan, G9, Ali Yavar Jung Marg
Bandra East, Mumbai, Maharashtra 400 051
8. The Chairman,
M/s. Shell India Markets Pvt. Ltd.
Plot No. 7, Bangalore Hardware Park,
Devanahalli Industrial Park
MahadevaKodigehalli
Bangalore- 562 149, Karnataka.
9. The Chairman,
M/s Reliance Industries Limited,
Maker Chambers - IV
Nariman Point
Mumbai 400 021, India
10. The Chairman,
M/s. Nayara Energy Limited (Formerly Essar Oil Limited)
5th Floor, Jet Airways Godrej BKC,
Plot No. C-68, G Block
BandraKurla Complex, Bandra East
Mumbai- 450 051

Copy to:

1. Joint Secretary
CP Division
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhavan,
Jorbagh Road, New Delhi – 110 003
2. Regional Director
Regional Directorate, Lucknow
PICUP Bhawan, Vibhuti Khand, Gomti Nagar,
Lucknow– 226010
3. Regional Director
Regional Directorate, Bengaluru
A-Block, Nisarga Bhavan,
1st and 2nd Floors, 7th D Cross, Thimmaiah Road, Shivanagar,
Bengaluru-560079
4. Regional Director
Regional Directorate, Bhopal
Parivesh Bhawan, Paryavaran
Parisar E-5, Arera Colony, Bhopal-462016
5. Regional Director
Regional Directorate, Vadodara
Parivesh Bhawan, Opp. Ward No. 10 VMC Office Subhanpura,
Vadodara –390023
6. Regional Director
Regional Directorate, Shillong
"TUM-SIR". Lower Motinagar,
Near Fire Brigade H.Q., Shillong–793014
7. Regional Director
Regional Directorate, Kolkata
'South end Conclave' Block-502, 5th & 6th Floor, 1582,
Razidanga, Main Road, Kolkata- 700107
8. Regional Director
Regional Directorate, Tamil Nadu
Second Floor, No.77-A, South Avenue Road, Ambattur Industrial Estate, Ambattur
Taluk, Thiruvallur District, Chennai- 600 058, Tamil Nadu.
9. Regional Director
Regional Directorate, Chandigarh
e-mail- gurnamsingh.cpcb@nic.in
10. Regional Director
Regional Directorate, Pune
e-mail - bksharma.cpcb@nic.in
11. PA to CCB
12. AO to MS
13. IT Division : for uploading on CPCB website

ADDENDUM TO GUIDELINES FOR SETTING UP OF NEW PETROL PUMPS

The Hon'ble NGT vide orders dated 23.07.2020 and 09.10.2020, in the matter of Suresh Mandaloi Vs. State of M. P. & Ors. (O.A. No. 61 of 2019 (CZ)), directed MoEF&CC and CPCB to submit a report with regard to the minimum distance from water bodies to the petrol pump.

The matter was subsequently referred to the Expert Committee constituted by CPCB earlier in the matter of guidelines for setting up of new petrol pumps and the following addendum guidelines (to guidelines dated 07.01.2020) have been finalised for implementation in case of petrol pumps near water bodies:

- a) All the surface water bodies irrespective of utility shall be protected from any possible contamination. These include lakes, ponds, streams, rivers, wetlands, canals and creeks, as per revenue records. Retail Outlets shall not be located within a distance of 50 meters from the nearest point of water bodies. In case of streams and rivers, the distance shall be considered from floodway. In case floodway is not defined, the distance shall be considered from firm banks/ edge of river. The siting criterion is to be implemented for all new petrol pumps where construction by OMCs starts post the issuance of these guidelines.
- b) Retail outlets coming within 50 meter to 100 meter from the nearest point of surface water body shall have secondary containment by way of double walled tanks or concrete protection walls around Underground Storage Tank (UST).
- c) Groundwater and soil quality monitoring near the premises of fuel retail outlets shall be conducted by OMCs once a year through E (P) Act, 1986 approved labs or labs with national/international accreditation. The monitoring shall be done for those Fuel Retail Outlets which are located within 100 meter from the nearest point of surface water bodies. These shall be applicable to all petrol pumps, regardless of the date of establishment. In case of any clarification and/or difficulty in obtaining samples for groundwater and soil quality monitoring, OMCs may seek

assistance of local administration/SPCB/PCC/CGWB. Protocol for soil and groundwater monitoring is annexed as Annexure-I.

- d) Groundwater and soil quality monitoring shall also be conducted by OMCs before installation of the new fuel retail outlet, for those retail outlets coming up within 100 meter from the nearest point of surface water bodies.

NOTE: These guidelines are supplementary to all existing relevant Rules, Guidelines, Orders, Notifications such as Wetlands (Conservation and Management) Rules, 2017, Coastal Regulation Zone (CRZ) Notification, 2011 etc. The other measures, prescribed in CPCB guidelines for setting up of new petrol pumps dated 07.01.2020, for containment and treatment of spillages, check on leakages from USTs, treatment and disposal of sludge removed from underground tanks during cleaning, measures for protection of workers' health, audit of all protection measures and monitoring system implemented at petrol pumps, shall also apply to the fuel retail outlets falling in the criteria specified above.

Monitoring protocol specifying the prescribed parameters and screening values annexed with these guidelines (other than the monitoring frequency), shall also be adopted for those retail outlets where CPCB guidelines dated 07.01.2020 are applicable.

These guidelines shall be reviewed from time to time.

Annexure-I

Protocol for monitoring quality of soil and groundwater near the premises of fuel retail outlets

Samples of groundwater being used for drinking purposes shall be collected from at least three different directions with reference to the retail outlet. The sampling point should be preferably within 50m distance from the underground storage tank location at the retail outlet.

The samples shall be analysed for the following parameters:

Table 1.

Sr. No.	Parameter	Screening Values
1.	Total petroleum hydrocarbons (C ₁₀ -C ₄₀)	0.6mg/L
2.	BTEX	i. Benzene- 0.01mg/L ii. Toluene- 0.7mg/L iii. Xylene-0.5mg/L
3.	Methyl Tertiary Butyl Ether	13µg/l
4.	Total PAH	0.0001mg/l

Further, soil sample shall be collected from a borehole within the premises of the fuel retail outlet adjacent to the Underground Storage Tank (UST) pit. The depth of bore hole should be up to 1m below the bottom of the storage tank level. Soil samples shall be analysed for the following parameters:

Table 2.

Sr. No.	Parameter	Screening Values(mg/kg)
1.	Total petroleum hydrocarbons (TPH)	5000
2.	Benzene	5
3.	Toluene	30
4.	Xylene	50
5.	Methyl Tertiary Butyl Ether	100
6.	Total PAH	40

Ground water and soil quality monitoring shall be conducted by OMCs once a year through E (P) Act, 1986 approved labs or labs with national/international accreditation and the reports are to be submitted to SPCB. The soil monitoring shall be done in first six months while groundwater monitoring shall be done in the next six months.

In case of exceedance of screening by any parameter, or in case of leakage resulting in soil/groundwater contamination, the measures/steps as prescribed in the guidelines for setting up of petrol pumps dated 07.01.2020 shall be taken up. Assessment and remediation shall be carried out as per the guidelines issued by MoEF&CC and CPCB.



CENTRAL POLLUTION CONTROL BOARD

DELHI 110 032

January 07, 2020

B-13011/1/2019-20/AQM

10802-10847

OFFICE MEMORANDUM

Sub: Guidelines for Setting Up of New Petrol Pumps in Compliance of Hon'ble NGT order dated January 18, 2019 in OA No. 86/2019: Gyanprakash@ Pappu Singh vs Gol & Ors -regarding.

Hon'ble National Green Tribunal, vide order dated January 18, 2019 in OA No. 86/2019: Gyanprakash@ Pappu Singh vs Gol & Ors directed Central Pollution Control Board and MoPNG to look into the issue of setting up of large number of petrol pumps in the country and directed that appropriate guidelines be issued by the Central Pollution Control Board in exercise of statutory power.

An Expert Committee comprising of members from IIT Kanpur, NEERI, IIP, TERI, MoPNG and CPCB was constituted to frame Guidelines for setting up of new Petrol Pumps including siting criteria and pollution prevention and control measures

The guidelines were placed in public domain and comments/suggestions/objections were invited from public and concern stakeholder and these were reviewed and guideline have been finalised.

The final Guidelines prepared by Expert Committee are hereby circulated for implementation by concerned stakeholders. These guidelines are hereby issued with the approval of the Competent Authority.

(V.K. Shukla)

Additional Director, AQM Div.

Encl.: As Above

To.

1. As per List Enclosed

Copy to:

1. Joint Secretary
CP Division
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhavan,
Jorbagh Road, New Delhi - 110 003

2. PS to CCB

3. PS to MS

GUIDELINES FOR SETTING UP OF NEW PETROL PUMPS

A. Containment and treatment of spillages from fuel filling operations at petrol pumps:

1. Petrol pumps located in areas with high groundwater table i.e. groundwater levels less than 04 meters shall have secondary containment by way of double walled tanks or concrete protection walls so as to minimize groundwater and soil contamination. It shall be the responsibility of OMC to properly get measured groundwater level at the site of proposed petrol pump and ensure implementation of these adequate protection measures for such sites. Details of measures taken by Oil Marketing Company shall be placed in public domain and in case of contradictory view, view of State/ Central Ground Water Board/ Authority will prevail.
2. All new retail outlets shall have underground tanks/ above ground tank and its ancillary components such as pipes, flexible connectors, pumps, fittings etc. protected from leaks due to corrosion by adopting materials (HDPE/ Mild Steel etc.) with required protective coating, as applicable, duly approved by PESO.
3. Any major leakage/ spillage of Petrol, Diesel, Lube Oil (more than 1 barrel-165 litres) occurs at fueling station, concerned OMC shall report to State Pollution Control Board, PESO and District Administration under intimation to CPCB within 24 hours of occurrence.

Operation of concerned underground storage tank (UST) and its ancillary components shall be stopped immediately and not be resumed till corrective measures to contain and stop leakage/ spillages are implemented to the satisfaction of PESO and concerned SPCB.

OMCs will be held liable for Environmental Compensation (imposed by SPCBs/PCCs) and assessment of environmental damage (depending on extent of contamination in soil and groundwater) and site remediation. Consultant/ Expert agency appointed by OMCs for damage assessment and site remediation shall have minimum national/ international experience of 5 years in this field. Various approved methods shall be considered for cleaning underground contaminants.

4. All DUs shall have Auto Cut off Nozzles which shuts dispensation of fuel if its level in customer fuel tank reaches full capacity.
5. Breakaways to be installed for all the hoses of dispensing units to reduce spillage in the event of customer vehicles moves away with nozzle still in the fueling position.

6. Single/ double plane swivel with breakaway coupling shall be installed for all the dispensing units for better positioning of nozzle while refueling so that it does not fall off accidentally.
7. In pressurized dispensation, all dispensing units shall be installed with shear valves to cut the fuel flow from pipe line immediately upon accidental knocking of dispensing units from its position.
8. In pressurized system all Submersible Turbine Pumps (STPs) are to installed with line leak detectors and in the event of pipeline leaks STPs shall stop pumping fuel from underground tanks.
9. Emergency stop button switch shall be provided on the Multi-Product Dispenser (MPD) to stop the dispensation in case of emergency.
10. Automation system shall be installed at all new retail outlets to alert in case of tank leak by way of auto gauging system approved by PESO.
11. All Retail Outlets shall provide overfill alarm through automation.
12. Measures for spill containment in fill point chambers and forecourt area shall be implemented as prescribed by PESO.

B. Check on leakages (Leakage Detection System) from underground storage tanks so as to prevent groundwater and soil contamination:

1. All new retail outlets will have automation system installed which will provide reports on volume balance after every day operation and records shall be maintained.
2. Manual gauging shall be done once in a month and compare the same with Automatic Tank Gauging for accuracy.
3. Daily MS and HSD loss shall not exceed MoPNG prescribed limits. In case of leakage beyond such limits, matter shall be got analyzed by OMCs and further action shall be taken for ascertaining the reasons of losses. In case of leakage resulting in soil / groundwater contamination:
 - a. Concerned OMC shall report to State Pollution Control Board, PESO and District Administration under intimation to CPCB within 24 hours of occurrence. Operation of such underground storage tank (LIST) and its ancillary components shall be stopped immediately.
 - b. Fuel shall be removed immediately from underground storage tank to prevent further release to environment. Measures to prevent explosion due to vapors released due to leakage as recommended by PESO shall be implemented immediately.

- c. OMCs will be held liable for Environmental Compensation (imposed by SPCBs/PCCs) and assessment of environmental damage (depending on extent of contamination in soil and groundwater) and site remediation. Consultant/ Expert agency appointed by OMCs for damage assessment and site remediation shall have minimum national/ international experience of 05 years in this field. Various approved methods shall be considered for cleaning underground contaminants.
 - d. Operation of Underground tank and its ancillary components shall not be resumed till corrective measures to contain and stop leakages are implemented to the satisfaction of PESO and concerned SPCB.
4. All underground tanks and pipelines shall be subjected to test for leaks every 7 years.

C. Policy towards Treatment and disposal of sludge removed from underground tanks during cleaning:

Sludge shall be collected, stored and disposed as per Rule 8 of Hazardous Waste (Management and Transboundary) Rules, 2016 and amendments thereof and records shall be maintained.

D. Installation, Operation and maintenance of Vapour Recovery System:

1. All new retail outlets set up with sale potential of 300KL MS per month and setting up in cities with population more than 1 lakh will be provided with VRS. VRS should be functional by the time of sale of MS touch 300 KL. In case of failure of installation of VRS, Environment Compensation will be levied by SPCBs/ PCCs equivalent to the cost of VRS and this will further increase proportionate to the period of non-compliance.
2. Any new retail outlet set up in cities having population more than 10 lakh and having sale potential of 100 KL MS per month will be provided with VRS. VRS should be installed within a period 03 months from the day of sale of MS touch 100 KL. In case of failure of installation of VRS, Environment Compensation will be levied by SPCBs/ PCCs equivalent to the cost of VRS and this will further increase proportionate to the period of non-compliance.
3. In case of Stage II VRS, nozzle shall be provided with flexible cover flap or other alternative system for proper covering of filling tank and therefore proper recovery of vapors.
4. OMCs are responsible for maintaining installed VRS They have to maintain periodic inspections for A/L regulator as prescribed by Legal Metrology Proper record shall be maintained.

5. Working of dispenser shall be interlinked with VRS functioning. Online system shall be developed within 06 months to monitor status of operation of VRS. In case of non-operation of VRS, the same shall be automatically reported to concerned OMC. VRS shall be brought into operation immediately within 24 hrs and in any case within 72 hrs failing which sale of MS shall be stopped from the fueling station. Proper records of operation of VRS shall be maintained.
6. Work zone monitoring for Total VOC and Benzene shall be conducted by OMCs for petrol pumps selling more than 300 KL/ month and more than 10 lakh population (in first phase) by E(P)Act, 1986 approved labs once in a year to check compliance with OSHA norms (Time-Weighted Average) and report shall be submitted to SPCB. In addition, pilot study shall be conducted by OMCs through expert institutions for online monitoring of VOCs.

E. Ground water and soil quality monitoring within petrol pump selling more than 300 KL I month and more than 10 lakh population shall be conducted by OMCs once in two years through E(P)Act, 1986 approved labs for the following parameters from the nearest source and report submitted to SPCB:

Permissible Limit

Sr.No.	Parameter	Permissible Limit
1.	Total petroleum hydrocarbons	600µg/l
2.	BTEX	i. Benzene- 950µg/l ii. Toluene- 300µg/l iii. Xylenes- a o-xylene- 350µg/l b. m & p- xylene- 200µg/l
3.	Ethanol	1400 µg/l
4.	Methyl Tertiary Butyl Ether	13 µg/l
5.	PAH	0.0001 µg/l

Enforcement agencies including SPCB can collect samples in and around petrol pump to check contamination.

F. Measures for protection of Worker's Health

1. All workers engaged at retail outlets may be covered under ESI. OMC dealers shall implement the personal protective equipment (PPE) as per labor laws.
2. IEC (Information Education Communication) activities should be organized by OMC dealers for workers at regular intervals in-order to sensitize them about harmful impacts of VOC emissions.

G. Audit of all protection measures and monitoring system implemented at petrol pumps:

PESO shall conduct audit of tanks and fuel equipment including pipes, overfill protection equipment and alarm system on annual basis and maintain records.

H. Siting criteria of Retail Outlets:

In case of siting criteria for petrol pumps new Retail Outlets shall not be located within a radial distance of 50 meters (from fill point/ dispensing units/ vent pipe whichever is nearest) from schools, hospitals (10 beds and above) and residential areas designated as per local laws. In case of constraints in providing 50 meters distance, the retail outlet shall implement additional safety measures as prescribed by PESO. In no case the distance between new retail outlet from schools, hospitals (10 beds and above) and residential area designated as per local laws shall be less than 30 meters. No high tension line shall pass over the retail outlet.

These guidelines are supplementary to all existing relevant Rules, Guidelines, Orders etc.