

GUIDELINES DATED 07.01.2020 & 16.08.2021
AS AMALGAMATED AND REARRANGED FOR EASY REFERENCE

A. For Consent to Establish (CTE)

1. Fundamental documents required for seeking Consent to Establish (CTE)

Application for **Consent to Establish** of a new petrol pump must be provided with the following documents

- Site plan of the production unit/project.
- Brief project report which covers the details of raw material, proposed product, the capital cost of the establishment (land and plant machinery), water-balance, water source, and its proposed quantity.
- Land documentation such as rent deed/Registration deed/Lease deed.
- Details of air pollution control/ water pollution control equipment.
- MOA/Partnership Deed.

2. The New petrol Pumps shall also be subjected to the following conditions while selecting site and installation of the pump as directed by the NGT Order and the guidelines of the Central Government as follows

(I) Siting Criteria

- 1) The Retail outlet shall not be located within a radial distance of 50 meters from water bodies, schools, hospitals and residential area designated as per local laws.
- 2) In case of constraints in providing 50 meters distance, the retail outlet shall implement additional safety measures as prescribed by PESO.
- 3) In no case the distance between the retail outlet from schools, hospitals (10 beds & 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.
- 4) The surface water bodies like lakes, ponds, streams, rivers, wetlands, canals and creeks irrespective of utility shall be protected from any possible contamination.
- 5) The Retail outlet coming within 50 meter to 100 meter from the nearest point of surface water body or groundwater levels less than 4 meters, shall have secondary containment by way of double walled tank or concrete protection walls around Underground Storage Tank (UST).

(II) Containment and treatment of spillages:

- 1) Groundwater and soil quality monitoring shall also be conducted by the unit **before installation of the new fuel retail outlets**, if the pump is located within 100 meter from the nearest point of surface water bodies.
- 2) It shall be the responsibility of proprietor to properly get measured groundwater level at the site of proposed petrol pump and ensure implementation of these adequate protection measures for such sites.
- 3) In pressurized dispensation, all dispensing units shall be installed with shear valves to cut the fuel flow from pipeline immediately upon accidental knocking of dispensing units from its position.
- 4) The petrol pump shall have Auto Cut off nozzles which shuts dispensing of fuel if its level in customer fuel tank reaches full capacity. The pump shall also provide overfill alarm through automation.
- 5) Emergency stop button switch shall be provided on the Multi-Product Dispenser (MPD) to stop the dispensation in case of emergency.

(III) Check on leakages:

- 1) All new retail outlets shall have underground tanks/ above ground tanks 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.
- 2) Automation system shall be **installed** at the retail outlet to alert in case of tank leak by way of auto gauging system approved by PESO.
- 3) To prevent groundwater and soil contamination from leakages out of underground storage tanks, 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.

(IV) Containment and treatment of spillages from fuel filling operations at petrol pumps:

- 1) It shall be the responsibility of OMC to properly get measured groundwater level at the site of proposed petrol pump and ensure implementation of adequate protection measures like having secondary containment by way of double walled tanks or concrete protection walls for Petrol pumps located in areas with high groundwater table {refer Sl. No. 2 (II)(2)}. 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) 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 fuelling position.
- 3) Single/double plane swivel with breakaway coupling shall be installed for all the dispensing units for better positioning of nozzle while refuelling does not fall off accidentally.
- 4) 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.
- 5) 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.
- 6) All Retail Outlets shall provide overfill alarm through automation.

B. For Consent to Operate (CTO)

1. Fundamental documents required for seeking Consent to Operate (CTO)

Application for **Consent to Operate** of a new petrol pump must be provided with the following documents

- Copy of the last Consent granted by competent Authority.
- Layout schematics manifesting the detail of manufacturing processes.
- Latest analysis report of effluent, solid wastes, fuel gases and hazardous wastes.
- Balance sheet copy attested by CA.
- Detail relating to land in case trade effluent is discharged on land for percolation.
- Occupation registration accorded by Town & Country Planning Department in case of area development projects/Building & construction projects.
- MOA/Partnership Deed.

2. The New petrol Pumps after obtaining Consent to operate shall also be bound by the following requirement as directed by the NGT Order and the guidelines issued thereof as follows

(I) Containment and treatment of spillages from fuel filling operations at petrol pumps:

Any major leakage/ spillage of Petrol, Diesel, Lube Oil (more than barrel-165 litres) occurs at fuelling 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.

(II) Check on leakages.

- 1) Records shall be maintained on volume balance after every day operation through the automation system installed at underground storage tanks to ensure no groundwater and soil contamination from leakages.
- 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 (UST) 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 vapours 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 Rules 8 of Hazardous Waste (Management & Transboundary Rules, 2016 and amendment thereof and records shall be maintained

SPECIFIC CONDITIONS FOR GRANTING CTO

- 1. Any leakage/spillage of Aviation Turbine Fuel (ATF) should be prevented. If major leakage more than 1 barrel or 165 litres occurs, the Company shall report to State Pollution Control Board, PESO and District Administration under intimation to CPCB within 24 hours of occurrence.
- 2. The automation system installed at the fuel station shall provide volume balance after every day operation and records shall be maintained.
- 3. Manual gauging shall be done once in a month and compare the same with Automatic Tank Gauging for accuracy.
- 4. All tanks and pipelines shall be subjected to test for leaks every 5 years.

5. The company shall implement the personal protective equipment (PPE) as per labour laws.
6. Information Education Communication (IEC) activities should be organized by OMC dealers for workers at regular intervals in order to sensitize them about harmful impacts of VOC emissions.

SPECIAL CONDITIONS FOR 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 Vapour Recovery System. 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. OMCs are responsible for maintaining installed VRS. They have to maintain periodic inspections for AJL regulator as prescribed by Legal Metrology. Proper record shall be maintained.
3. Work zone monitoring for Total VOC and Benzene shall be conducted by OMCs for petrol pumps selling more than 300KL/month 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.
4. Ground water and soil, quantity monitoring within petrol pump selling more than 300 KL/month and more than 10 lakh population shall be conducted by OMCs once in two years through E(P) Act, 1986 approved laboratories for the following parameters from the nearest source and report submitted to SPCB.

Sl. No.	Parameter	Permissible Limit
1.	Total Petroleum Hydrocarbons	600 pg/l
2.	BTEX	i) Benzene-950 pg/l ii) Toluene-300 pg/l iii) Zylene- (a)O-xylene-350 pg/l (b)M&p-xylene-200 pg/l
3.	Ethanol	1400 pg/l
4.	Methyl Tertiary Butyl	13 pg/l
5.	PAH	0.000 pg/l

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