



ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ  
PUNJAB POLLUTION CONTROL BOARD

No. SEE(HQ-2)/F.no.226/2022.....

Dated. ....

To

1. The Chief Environmental Engineer  
Punjab Pollution Control Board  
Patiala /Ludhiana/Jalandhar and Bathinda
2. The Senior Environmental Engineer  
Punjab Pollution Control Board  
Zonal Office, Patiala-I/II, Ludhiana-I/II/  
Jalandhar/Amritsar and Bathinda
3. The Environmental Engineer  
Punjab Pollution Control Board  
Regional Office, Patiala/Sangrur/Bathinda/Faridkot/  
Batala/Jalandhar-I/II/Hoshiarpur/Mohali/Roop Nagar/  
Amritsar/ Ludhiana-I/II/III/IV and Fatehgarh Sahib

**Subject: Hon'ble NGT (PB) order dated 19.08.2022, in Original Application No. 272/2022, in re: News item published in the Times of India dated 12<sup>th</sup> April, 2022, Titled "Six Killed in chemical factory blast in Gujrat"-Reg. Measures for Organic Spent Solvent Recovery Plants/Units.**

**Reference: CPCB letter no. B-29016/04/06/IPC/4238 dated 09.09.2022**

In pursuance to the directions issued by Hon'ble NGT in its orders dated 19.08.2022 in the matter of O.A. No. 272/2022, (News item published in the Times of india dated 12<sup>th</sup> April, 2022, Titled "Six Killed in chemical factory blast in Gujrat"), CPCB has conveyed the recommendations/measures for organic spent solvent recovery plants/units to be complied by all the SPCBs. A copy of the above directions received from CPCB is added for compliance by all concerned and further necessary action. Regional Offices/Zonal Offices/ Chief offices are requested for meticulous compliance of said recommendations.

DA: As above

Endst. No. SEE(HQ-2)/2022/23615-25

sd/-  
Er. Krunesh Garg  
Member Secretary  
Dated ...09/11/2022

A copy of the above is forwarded to the CEE (HQ)/PBIP/SEE (HQ-1/2/3/4)/EE (HQ-1/2/3/4)/computer section. posted at Head Quarter PPCB, Patiala for information and necessary action. EE (computer) is requested to upload the same on the website of the Board.

Er. Krunesh Garg  
Member Secretary

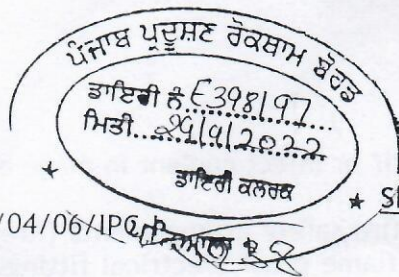
ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ-147001

Vatavaran Bhawan. Nabha Road, Patiala -147001

Phone : Chairman. : 0175-2215793. Member Secretary : 0175-2215802 (O)

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केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

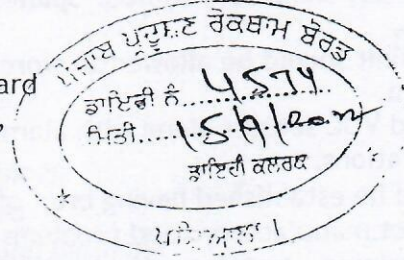
\* SPEED POST/E-mail

B-29016/04/06/IPC/...

September 9, 2022 1519

To

The Member Secretary  
Punjab State Pollution Control Board  
Nabha Road, ITI Rd, Adarsh Nagar,  
Prem Nagar,  
Patiala - 147001.  
Punjab



*[Handwritten signature]*

ਨਵੀਂ ਡਾਕ

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ਮੈਂਬਰ ਸਕੱਤਰ

CEE HR

SEETB

Sub. : Hon'ble NGT (PB) order dated 19.08.2022, in Original Application No. 272/2022, in re: News item published in The Times of India dated 12th April, 2022, titled "Six killed in chemical factory blast in Gujarat" - Reg.

Sir,

This has reference to the Hon'ble NGT order dated 29.08.2022 in the matter of O.A. No272/2022, "News item published in The Times of India dated 12th April, 2022, titled "Six killed in chemical factory blast in Gujarat" wherein it has directed to all SPCBs/PCCs should ensure compliance of following recommendations by the units located in their jurisdiction:

- I. Any organic solvent/ spent solvent handled should have proper MSDS mentioning flash point, name of incompatibility chemicals, etc. and the same should be known to the plant workers.
- II. Regular training to the worker about process details, process and safety (personnel and plant) is required. Training should include handling emergencies like leakage, abnormal temperature, pressure readings, increased emissions, pump failures, failure of air pollution control devices, shock loads or any other accidents likely to occur due to any activity within the premises.
- III. Emergency preparedness should be reviewed by plant management on routine basis. Mock drills must be conducted at least in every six month and on induction of any new operator in the plant. For this, a mock drill calendar should be prepared. Mock drill should always be done under supervision of an expert person. Input on Observer on mock drill should be incorporated in emergency plan.
- IV. All the pressure containing equipment should have pressure release provision.
- V. Every solvent recovery plant should have Supervisory Control and Data Acquisition (SCADA) and Leak Detection and Repair (LDAR) systems.
- VI. Seals, glands and gaskets shall be regularly inspected, without dismantling. Leak detectors should be provided for all piping, valves, seals, flanges, and other pertinent equipment.
- VII. After each batch of distillation, the entire system should be thoroughly cleaned and inspected before start of new batch. SOP in this regard to be prepared and implemented.
- VIII. Flow meters, sensors, measuring devices have to be regularly calibrated and all process parameter monitor should have alert/ siren system. 62672/2022/LAW-HO 120 20.
- IX. All pipework containing hazardous chemicals shall be identified by colour coding or labeling (as per standards notified by Bureau of Indian Standards) and shall be protected to prevent corrosion / damage. The practice to identify the parts of the system that contain gas or liquid and the direction of flow should be followed.
- X. The distillation units shall install double valve system for taking samples during the process to minimize air ingress and provide interlocking arrangement for critical

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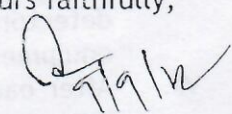
दूरभाष/Tel : 43102030, 22305792. वेबसाइट/Website : www.cpcb.nic.in



- process parameter to shut down the process and/ or inject coolant in place of heat on reactor jackets.
- XI. Flame arrestors, water curtains and adequate fire safety arrangements (fire hydrant, foam system, etc.) shall be installed. Spark / flame proof electrical fittings shall be installed.
  - XII. In no case any unit should be allowed to store petroleum class A or class B or Class C in open to sky area.
  - XIII. Suitable gas and VOC sensors along with alarm system should be installed in the unit at appropriate locations.
  - XIV. A system should be established having brief of operation done in a shift, no. of batches charged, product manufactured and problems encountered or suspected.
  - XV. After every training, training effectiveness should be evaluated for Operational Negligence, Operator fault, Lack of standard operating procedure for transfer of material from one reactor to another and on cleaning of reactors, lack of awareness of personnel on SOP's, non-compliance of SOP's by employees, Noncompliance of safety practices by employees, etc. For this purpose, training calendar and training feedback record should be maintained. Sensitization of workers for SOP adoption should be carried out and day-today practices regularly checked and record should be maintained.
  - XVI. The Regulatory Authorities shall take immediate action against erring industries as per prevailing Rules based on periodic inspections. In addition the Regulatory Authorities shall sensitize the industries about safety norms, industrial best practices, industry specific emission & effluent standards etc.
  - XVII. Plant should be thoroughly inspected by the plant management regularly for short bolting, flange tightening, less number of nuts and bolts than required or designed, firefighting and plant personnel should be cross-checked for chemical stock, understanding of compatibility matrix of chemicals/ spent solvents, etc.
  - XVIII. The manpower of the DISH in the industrial area must be commensurate with the numbers of units in the area with proper training to improve the efficiency of DISH.
  - XIX. Annual safety audit from third party should be made mandatory for every plant and fire adequacy certificate should be made mandatory before operation of distillation plant.
  - XX. Distillation plants should have safe assembly points with signage, signage for safety evacuation and double staircase 62677/2622/LAW-HO 121 21 (opposite to each other) for exiting from process area in case of emergency.

COMP  
E.F.

It is therefore requested to all SPCBs/ PCCs to intimate the concerned industries for compliance of above recommendations.

Yours faithfully,  


(Dinabandhu Gouda)  
Additional Director & DH-IPC-I

Copy to (by e-mail):

- 1. DH- IPC-II,III,IV&V, VI&VII,WQM-II,WM-I,WM-II
- 2. DH- LAW, CPCB
- 3. All RDs by Email

(Dinabandhu Gouda)