



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

BY REGISTERED AD

November 07, 2017

B-29016/04/06/IPC-1/ 13127

To

M/s Punjab Alkalies & Chemicals Ltd.  
Nangal-Una Road,  
Naya Nangal, Dist. Ropar  
Punjab-140 126

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 -reg.

WHEREAS, the Chlor alkali industries are identified as one of the 17 categories of highly polluting industries which have been discharging environmental pollutants directly or indirectly into the ambient air and water, having potential threat to cause adverse effect on the water and air quality; and

WHEREAS, the M/s Punjab Alkalies & Chemicals Ltd., Punjab (herein after referred as the Unit) which comes under Petrochemical category, has installed the online continuous effluent monitoring system for the parameters pH, TSS & Flow and online continuous emission monitoring system (OCEMS) for the parameter HCl & Cl<sub>2</sub>; and

WHEREAS, a closure direction under section 5 of Environment (Protection) Act, 1986 was issued to the Unit dated March 17, 2017 was revoked on July 27, 2017 with a condition that the Unit shall obtain valid CTO from PPCB and ensure compliance of norms; and

WHEREAS, it was observed by the IT division of the CPCB that the 41 SMS alert were generated for the parameter pH of OCEMS during the month of 15 June-15 July; and

WHEREAS, the Unit was inspected by a team of officials from CPCB Regional Directorate, Lucknow on October 06, 2017 to assess the adequacy of the existing pollution control measures and OCEMS, observations of team are as follows:

1. The Unit does not have a valid CCA from PSPCB under water & Air Act (expired on 30.12.2016) and applied for renewal and also does not have a valid authorization under Hazardous & other waste Rules, 2016 from PPCB.
2. The Unit was found operational but ETP was not operational and only pH adjust of effluent was done and after neutralization it was mixed with fresh water and used for plant irrigation in their premises.
3. The secondary treatment was found non functional since 11.07.2017 and also observed in damage condition.
4. The effluent samples from preliminary collection tank of ETP after pH adjustment was highly acidic nature (pH: 3.08 < 6.5-9.0) with high TDS (3641 mg/l > 2000 mg/l) & chloride (2718 mg/l > 1000 mg/l). The high value of Sodium Absorption ratio (SAR: 32.3 > 26) indicates that the effluent was not suitable for plant irrigation.
5. During visit, it was observed that six old brine disposal pits are not closed and capped.
6. During visit, Ground water samples were collected from two piezometer wells near old brine disposal pits and the analysis result are exceeding the permissible limits of

BIS w.r.t. TDS- (5584 mg/l > 2000 mg/l), Cl-(3027 mg/l > 1000 mg/l) in Piezometer Well-1 and TDS- (2832 mg/l > 2000 mg/l), Cl-(1238 mg/l > 1000 mg/l) in Piezometer Well-II.

7. The online pH meter installed at pH adjustment tank was found non-functional.
8. The OCEMS for parameter pH, BOD, COD, TSS was placed in HPDE tank with diluted water. The OCEMS system was showing constant values for parameters pH (8.13), TSS (28.27 mg/l), COD (148.37 mg/l) & BOD (3.98 mg/l).
9. The Unit has not provided leachate collection system in the active brine mud disposal pit as well as in old brine mud disposal pits.
10. The Unit has kept a large amount of brine mud sludge in an open area near old brine mud disposal pits.

WHEREAS, the Ministry of Environment & Forests, Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

**NOW THEREFORE**, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, the following directions are being issued:

1. The Unit shall immediately close down all the plant operations and shall not resume till the compliance is achieved and permission is obtained from the CPCB for the same.
2. The Unit shall submit the treatment adequacy report of ETP & emission monitoring system from any reputed Government organisation.
3. The Unit Shall have a valid CCA from PSPCB under water & Air Act (expired on 30.12.2016) and a valid authorization under Hazardous & other waste Rules, 2016 from PPCB for operation.
4. The Unit shall provide regular operation of ETP and shall not mix effluent after neutralization to the fresh water.
5. The Unit shall provide regular operation and maintenance of secondary treatment.
6. The Unit shall manage proper treatment of effluent in preliminary collection tank of ETP after pH adjustment as to achieve the prescribed standards.
7. The Unit shall properly close and cover six old brine disposal pits.
8. The Unit shall carry out ground water contamination remedial steps to achieve the norms prescribed by BIS.
9. The Unit shall place OCEMS analysers at the ETP outlet tank without any dilution and Online data shall be transmitted without any tampering.
10. The Unit shall provide acoustic enclosures and proper exhaust pipe at the three DG sets of capacity 500 KVA, 625 KVA and 515 KVA.
11. The Unit shall provided leachate collection system in the active brine mud disposal pit as well as in old brine mud disposal pits.

12. The Unit shall provide proper storage and disposal of Hazardous waste like brine mud sludge as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

The Unit M/s Punjab Alkalies & Chemicals Ltd., Punjab shall submit the compliance report for the direction at point 1 above immediately on receipt of direction. Failure to comply with the above directions will attract action in accordance with the provision of the Environment (Protection) Act, 1986.

08/11/2017  
(S. P. Singh Parihar)  
Chairman

Copy to:

1. The Chairman  
Punjab State Pollution Control Board  
Vatavaran Bhawan, Nabha Road,  
Patiala-147001
2. The Managing Director  
Punjab State Power Corporation Limited:  
PSEB Head Office, The Mall  
Patiala, Punjab-147001
3. The Advisor (CP Division)  
Ministry of Environment, Forests and Climate Change  
Prithvi Wing, 2<sup>nd</sup> Floor, Room No. 216  
Indira Paryavaran Bhawan  
Aliganj, Jor Bagh Road, New Delhi - 110003
4. The Regional Director  
Central Pollution Control Board  
Zonal Office (North), PICUP Bhawan  
Vibhuti Khand, Gomti Nagar Lucknow-226010
5. I/c, IPC-VI, CPCB, Delhi
6. I/c, IT Division, CPCB, Delhi

With request to disconnect electricity supply of the unit and allowing supply only for domestic & security purposes.

(A. Sudhakar)  
Member Secretary