



SPEED POST

B-29016/04/06/IPC-1/13037
To

February 19, 2020

The Chairman
Madhya Pradesh Pollution Control Board
Paryavaran Parisar
E-5, Arera Colony
Bhopal - 462 016

SUB: DIRECTIONS UNDER SECTION 18(1) b OF THE WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 IN THE MATTER OF WATER POLLUTION IN THE RIVER CHAMBAL CAUSED BY INDUSTRIES LOCATED IN NAGDA REGION, MADHYA PRADESH-reg

WHEREAS, under Section 17 of the Water (Prevention & Control of Pollution) Act, 1974, one of the function of the State Pollution Control Boards (SPCBs)/Pollution Control Committees(PCCs) is to plan a comprehensive programme for the prevention, control or abatement of pollution of streams, wells and air pollution in the State/UT and to secure the execution thereof; and

WHEREAS, under section 16 of the Water (Prevention and Control of Pollution) Act, 1974 one of the functions of the Central Pollution Control Board (CPCB), constituted under Water (Prevention and Control of Pollution) Act, 1974 is to coordinate activities of the State Pollution Control Boards and Pollution Control Committees and to provide technical assistance and guidance to SPCBs / PCCs; and

WHEREAS, a reference dated December 30, 2019 from Hon'ble Member of Parliament (Lok Sabha), Ujjain, Madhya Pradesh has been received regarding water pollution in the river Chambal caused by industries located in Nagda region, Madhya Pradesh; and

WHEREAS, the Chambal river stretch from Nagda to Rampura has been identified by Central Pollution Control Board as polluted river stretch and Madhya Pradesh Pollution Control Board (MPPCB) has prepared an action plan for rejuvenation of river Chambal in compliance of the Hon'ble NGT order dated 20.9.2018 in the matter of O.A. 673/2018; and

WHEREAS, a team of officers from CPCB Head office Delhi and Regional office Bhopal along with a representative nominated by Hon'ble M.P. inspected the area during January 07-08, 2020 to investigate the matter and observed the following:

- The pH values found 5.9 & 5.5 at 02 locations of river Chambal i.e. 200m downstream after confluence of industrial-domestic & 3.5km downstream of river Chambal near Parmarkhedi village respectively, which indicate water is not fit for irrigation as per designated best use Water Quality Criteria.
- High level of Mercury in the range of 0.0025 mg/l- 0.0364 mg/l (more than 0.001 mg/l) found in 06 water samples, Lead in the range of 0.015 mg/l - 0.375 mg/l (more than 0.01 mg/l) found in 7 water samples & Aluminium in the range of 0.04 mg/l - 2.565 mg/l (more than 0.03 mg/l)

found in 10 water samples collected from river Chambal, dug well(s) and hand pump(s) and which indicates water is not fit for drinking purpose as per BIS-10500:2012.

- c. High level of Mercury in the range of 0.004 mg/l-0.0364 mg/l (more than 0.001 mg/l) found in 03 water samples, Lead 0.025 mg/l (more than 0.01 mg/l) found in 1 water samples & Aluminium in the range of 0.06 mg/l - 0.735 mg/l (more than 0.03 mg/l) found in 6 water samples collected from piezometer(s) of M/s Grasim Chemical Industry (Chemical Division) and which indicates contamination with old secured land fill (SLF) containing mercury bearing brine sludge.
- d. M/s Grasim Industries Ltd. (Chemical Division) has installed piezometers in North & South direction of industry to assess any leakage from new SLF site and it was observed that river Chambal is flowing in West direction of industry.
- e. A study was conducted by CSIR-NEERI, Hyderabad on "Assessment of groundwater quality in and around M/s Grasim Industries Limited, (Chemical Division), Nagda in May 2018, which mentioned that lead concentration in the ground water samples many time higher than the desirable limits (0.01mg/l) under BIS 10500:2012 at buffer zone of 5 km surrounding the industry.
- f. M/s Grasim Industries Ltd (Chemical Division) and M/s Lanxess India Pvt. Ltd. have achieved zero liquid discharge (ZLD).
- g. High values of Sulphate i.e. 3161 mg/l was found in river Chambal water sample at downstream of the M/s Grasim Industries Ltd (Staple Fiber Division) which is due to discharge of industrial effluent after treatment to the industrial drain joining to river Chambal. M/s Grasim Industry Ltd. (SFD) Nagda has submitted action plan to fulfil zero liquid discharge (ZLD) condition till January 2021 & deposited bank guarantee of Rs. 15 crore to MPPCB, Bhopal on 30.11.2019. Currently, industry is restricted by MPPCB to discharge up to 12500 KLD.
- h. The Municipal council of Nagda has prepared DPR of Rs. 61.40 Crore for the sewerage line & treatment of domestic waste water generated from Nagda Town. The project is pending for sanctioning & tendering in M.P. Urban Development Company Bhopal (MPUDC).
- i. The Water Resources Department, Ujjain informed that Barrage-cum-diversion scheme of Rs.64.14 Cr. is proposed at Ninawada kheda (about 7 km downstream of Nagda town) and will be used for dilution purpose of polluted water coming from Nagda town.
- j. The Public Health Engineering Department (PHED) & the M.P. Jal Nigam Maryadith Periyogna has prepared scheme of Rs 29.29 Crore to supply potable water in affected village along the bank of Chambal River.
- k. The Regional Office, MPPCB has prepared & submitted a study project named "Study of Underground water quality in adjacent villages of River Chambal from village Piploda (Distt- Ujjain) to village - Tal (Distt Ratlam) of Rs 1.14 Crore for sanctioning from MPPCB, Bhopal Head Office.

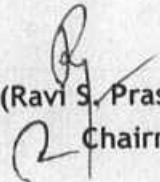
WHEREAS, water quality of the surrounding area including river Chambal has been deteriorated due to the discharge of industrial effluent as well as domestic effluent: and

Now therefore, in exercise of the powers conferred under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974, Madhya Pradesh Pollution Control Board (MPPCB) is hereby directed to issue necessary directions u/s 33 A of the Water Act, 1974 to the industries of Nagda i.e. M/s Grasim Industries Ltd. (Chemical Division ii. M/s Grasim Industries Ltd (SFD) iii. M/s Lanxess India Pvt. Ltd. and also to the local bodies of Madhya Pradesh for compliance of following:

- (i) MPPCB shall fix the responsibility of the industrial units contaminating river water & ground water and shall levy environmental compensation charges on non-complying units and local agencies in case of delayed action plans.
- (ii) M/s Grasim industries (Chemical Division) shall establish piezometers in proper direction of river Chambal to detect the groundwater contamination. The unit shall carry out a detailed leak detection study around the old SLF w.r.t damage liners of old SLF and leakages to be repaired immediately for prevention of further contamination of ground water.
- (iii) The bank guarantee of Rs 15 crore of M/s Grasim Industry Ltd. (SFD) shall be forfeited, in case time bound action plan for implementation of ZLD is not achieved by the unit.
- (iv) M/s Grasim Industries (SFD) shall install online flow meter in CS₂ stacks to quantify the CS₂ emission in Kg/ton of fibre and connect all the OCEMS installed at stacks with CPCB server immediately.
- (v) M/s Grasim industries (Chemical Division) & M/s Lanxess India Pvt. Ltd. shall include their by-product acids in hazardous waste authorization immediately.
- (vi) M/s Lanxess India Pvt. Ltd. shall not operate without valid Consent to Operate and control fugitive emission/odorous in ambience of plant premises by preventing leakages.
- (vii) The industries having Zero Liquid discharge shall be directed to install PTZ camera and online flow meter at ETP area and provide connectivity to MPPCB server immediately.
- (viii) The Public Health Engineering Department, Nagda shall ensure to supply drinking water immediately in affected villages & to seal the water sources where increased concentration of Lead (Pb) was found in CSIR-NEERI (2018) report.
- (ix) The Municipal council of Nagda shall expedite the sanctioning & tendering of Rs. 61.40 Crore project for the sewerage line & treatment of domestic waste water generated from Nagda Town.
- (x) MPPCB shall also direct the Municipal Council not to discharge the untreated sewage to the river.

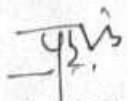
- (xi) The hazardous waste generated from the industries in Nagda region shall be transported only through GPS enabled transport vehicles and MPPCB shall keep a vigil on the same.
- (xii) Local administration shall keep vigil on illegal discharge of acid/industrial waste in river Chambal in closed co-ordination with Emergency Response Centre and Sub-regional office of MPPCB.
- (xiii) MPPCB shall initiate a study on ground water contamination and remediation measures in Nagda & adjacent villages immediately.
- (xiv) A detailed health study for Nagda region to be carried out in light of synergistic health effects of pollutant by engaging any reputed government institute working in the field of Research in Environmental Health by MPPCB.

MPPCB shall acknowledge the receipt of directions immediately and action taken report to ensure compliance of above directions shall be submitted within 30 days from the date of receipt of directions.


(Ravi S. Prasad)
Chairman

Copy to:

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(Prashant Gargava)
Member Secretary