

**RESTORATION / REJUVENATION OF
RIVER GANGA
SUGGESTIONS / PROPOSALS FOR
PHASE- I, SEGMENT 'B'
(HARIDWAR TO KANPUR)**

**Submitted before
Hon'ble National Green Tribunal (NGT)
in the matter of O.A. No. 501 of 2014 and
in compliance of Order dated 05.07.2016.**

**CENTRAL POLLUTION CONTROL BOARD (CPCB)
DELHI**

(16.08.2016)

RESTORATION / REJUVENATION OF WATER QUALITY OF RIVER GANGA- (PHASE- I- SEGMENT B- HARIDWAR TO KANPUR)

1. PREAMBLE

- (i) River Ganga has unique water quality ascribing to its bactericidal property and having other elements of importance.
- (ii) Before many years / centuries, the river was not blocked for any purpose and due to limited habitation on the bank of the River, hardly there was disposal of any waste into the River.
- (iii) Now, the River Ganga is blocked / dammed at many places (Upper Himalyan stretches and on the plains such as Haridwar, Bijnor, Narora and Kanpur) and water has been diverted for various uses. As a result, the water quality and ecological sanctity is threatened.
- (iv) Water quality of River Ganga is showing presence of bacterial contamination besides reporting of presence of trace pollutants like heavy metals and pesticides in some of the studies.

2. RESTORATION/ REJUVENATION – SUGGESTIONS

That Hon'ble NGT in its Order Dated 26.7.2016 directed that *"Consequently, we grant one final opportunity to all the Authorities, Ministries and State Governments to put forward their suggestions, proposals and the data within ten days from today"*

River Ganga can be restored and rejuvenated by adopting following means :

- (a) Uninterrupted and enhancing flow;
- (b) Stopping disposal of sewage and industrial effluents into River or if disposed, it should be of bathing river quality standards;
- (c) Both banks of River to be protected for waste disposal, encroachment and ensuring its dredging as per scientifically accepted methods.

In this context, CPCB has following suggestions for kind consideration:-

3. INDUSTRIAL POLLUTION CONTROL

The actions need to be taken and to be continued are proposed as under :

- (i) All the industries discharging industrial effluents should transmit online data of their effluent quality on uninterrupted basis to CPCB and SPCBs. These industries should also submit fortnightly data of effluent quality based on samples collected manually and getting it analysed through laboratory recognised under Environment Protection Act.
- (ii) The Chhoyya drain reported to be having coloured water, due to disposal of any or by all three suspected industries; (M/s Mohit Papers, M/s Mohit Petrochemicals, Jain Distillery) should be directed to clean the drain and make it colourless and its cost be borne by these industries.
- (iii) The CETP at Jajmau, Unnao and Banthar should be upgraded to meet the standards of Fixed Dissolved Solids (FDS) and chromium at first instance within 12 months and followed by tertiary treatment (may be Reverse Osmosis / Evaporation).
- (iv) SPCB of Utrakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal should disseminate pollution control compliance status of all the industries on their website. Similarly, each consented industry should also disseminate their pollution control compliance on the entry gate on daily basis as well as on their website. In future, prior to the granting permission to any industry to operate in the catchment area of Ganga, the industry should not be permitted till it has proper system of reutilisation of effluents instead of its discharging into any drain.

4. SEWAGE MANAGEMENT

- (i) Thirty (30) storm water drains carrying sewage and sullage and other wastes joining River Ganga at various locations, should have flow measuring systems at the terminal points for assessing quantity of waste water being discharged.
- (ii) The identified 30 sewage carrying drains joining River Ganga and any other small or big should be hygienically maintained and properly dredged at regular interval of time. Dredged material should be disposed properly without having any environmental impacts.
- (iii) Till full-fledged Sewage Treatment Plants (STPs) are set-up, local bodies/ concerned institution responsible for sewage treatment, should set up transitory / intermediary system for treating sewage flowing in the drains on

in-situ basis to reduce existing pollution load. Such systems should be in-place within 6 months.

- (iv) Sewage treatment plants should meet the criteria suggested standards of CPCB (< 230 MPN) with reference to fecal coliform bacteria. New STPs planner for future and those existing STPs to be upgraded to meet new standards should have simultaneous plan for utilisation of treated sewage.

5. WATER QUALITY MANAGEMENT OF TRIBUTARIES

The programmes relating to industrial pollution control [para 3 (i) to (iv)] and as well as for sewage management, [para 4 (i) to (iv)] should also be made applicable to the two important tributaries of Ganga that is, Kali East and Ram Ganga.

6. FLOW

On experimental and observation basis, the Irrigation Department of Uttar Pradesh, will release of some more quantity of water into River Ganga from Narora barrage and monitoring that this release do not have any consequences on other users like farmers, etc. The Irrigation Department will submit fortnightly report to the Ministry of Water Resources indicating the quantity of water released and quantity of water flowing in River Ganga in various locations from Narora to Kanpur.

7. SURVEILLANCE

CPCB and SPCB of Uttar Pradesh will continue to monitor water quality of river Ganga at various locations and monthly data will be published on their websites.

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SALIENT FEATURES OF SEGMENT 'B' OF RIVER GANGA

1. Length of River from Haridwar to Kanpur : **543 Km.**

2. Total No. of industries : **746**
565 Operational
71 Self closed
110 Closed by board

3. Industrial effluent being disposal : **212.42 MLD**
(565 operational)
Quality :
Estimated BOD load :

4. Total no. of Common Effluent Treatment Plant (CETP)
 - (a) Jajmau (Tanneries) : 36 MLD
Non complying
 - (b) Unnao (Tanners) : 4.5 MLD
Non complying
 - (c) Banther (Tanneries) : 4.15 MLD
Non complying
 - (d) Rumapur : Closed

5. Quality of sewage generation :
No. of STPs : **5** (on Ganga main Stem)
3 were non-complying
out of 4 monitored.

Total No. of Drains : 30

6. Tributaries joining Ganga : Kali East & Ramganga

