

BEFORE THE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH NEW DELHI .

Original Application No.324 of 2021 (PB).

IN THE MATTER OF:

In re: News item published on 21.11.2021 in the Indian Express titled  
“Lakes of Bengaluru : Industrial effluents, raw sewage; stinky tale of  
Chandrapura lake”

Next Date 03/08/2022.

INDEX

| Sr.No | Description                                                                    | Pages No. |
|-------|--------------------------------------------------------------------------------|-----------|
| 1.    | Action Plan on behalf of the Deputy Commissioner,<br>Bangalore Urban District. | 1-4       |
| 2.    |                                                                                |           |

New Delhi  
Date 01 /08/2022,

Filled By :-

  
(Mr. DARPAN KM Adv.)  
Advocate for the Respondent .  
( Government of Karnataka . )  
Kar/1053/2009.  
Office K-6, LGF, Lajpat Nagar-3,  
New Delhi - 110024  
Mob. 9899125060/9968638862

Hon'ble National Green Tribunal, principal Bench, New Delhi in its Original Application No. 324/2021. Related to Chandapura Lake of Chandapura TMC limits has constituted a technical committee. On 06.07.2022 committee under the Chairmanship of Chief Secretary, Government of Karnataka has given directions to submit Action Plan to control the discharge of effluents into the drains connecting Chandapura lake. The ULBs coming under the catchment area of Chandapura lake such as Hebbagodi CMC, Bommasandra TMC, Jigani TMC and Chandapura TMC have prepared an action plan as per directions of Technical Committee Recommendation as mentioned below.

|    |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | To carryout mapping in Chandapura lake catchment area to identify all drains carrying mixed effluents and entering the lake.                                         | The map of Chandapura lake catchment area and flow details of natural drains has been obtained from Karnataka State Remote Sensing Application centre (KSRSAC). Total station survey of Chandapura lake catchment area is under process by Deputy Director of Land Records. The mapping as per the directions by Hon'ble NGT will be completed by first week of August.                                                                                                                                              |
| 2  | To take immediate steps to control the discharge of untreated effluents into the drains.                                                                             | The ULB's in the catchment areas of Chandapura lake such as Hebbagodi CMC, Jigani TMC, Bommasandra TMC and Chandapura TMC have been directed to take immediate steps to stop the discharge of untreated effluents in to the drains joining Chandapura lake through other intermediate lakes accordingly this office has contacted an expert from IISC Bangalore Professor Lakshminarayan for guidance and to start Inline Water Treatment in the drains carrying untreated water in to Chandapura lake and awareness |
| 3  | Alternative technologies or any other sustainable technologies shall be explored immediately on priority, based on the feasibility with respect to field conditions. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



|   |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                    | <p>program for the staff and elected representatives of ULB's will be conducted before end of July-2022 and there after the work of providing Inland Water Treatment technology will be started and is expected to be completed by October-2022.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4 | <p>To prepare time bound short-and long-term action plans for rejuvenation of the lakes in the catchment area.</p> | <p>There are 38 lakes in Bangalore Urban District ULB areas, The four ULB's which are in Chandapura lake catchment area are having 21 lakes. ULB's have been instructed to take action to control the discharge of drains directly to the lake. Kittaganahalli lake of Bommasandra TMC is being developed by Bommasandra industrial area association under CSR fund. Veerasandra lake by M/s Titan. The DPR for rejuvenation of Kammasandra lake of Hebbagodi CMC has been submitted to Karnataka Tank Conservation and Development Authority (KTCDA) for approval. M/s CDD India will take up the rejuvenation work after approval from KTCDA. In the same manner the DPR's for rejuvenation of all the lakes in Chandapura lake catchment area will be taken up with CSR funds of private companies and Government grants.</p> <p>As a permanent solution to keep the lakes contamination free, the DPR's for implementation of UGD system of Hebbagodi CMC -153 crores, Bommasandra TMC -109 crores have been submitted to Government for approval.</p> |

Preparation of DPR's of UGD system in Jigani and Chandapura is under process.

**The Lake details :-**

| Name of ULB     | Total No. of lakes |
|-----------------|--------------------|
| Hebbagodi CMC   | 08                 |
| Chandapur TMC   | 08                 |
| Jigani TMC      | 03                 |
| Bommasandra TMC | 02                 |
| <b>Total</b>    | <b>21</b>          |

5 To ensure the treatment and conformity to the drinking water standards of borewell water before supplying it for drinking purposes, since some of the borewells are having a high concentration of Nitrates, NH<sub>3</sub>, SO<sub>4</sub> and / or hardness.

As per directions of the Hon'ble NGT, water samples of ULB Borewells are tested for portability of drinking water status 40 number of borewells have been already tested and remaining 484 borewells samples will be tested by second week of August-2022.

The details of borewells is as follows.

**Name of ULB :-**

| Name of ULB     | Total No. of Borewells | No. of borewells tested |
|-----------------|------------------------|-------------------------|
| Hebbagodi CMC   | 163                    | 10                      |
| Chandapur TMC   | 118                    | 10                      |
| Jigani TMC      | 134                    | 10                      |
| Bommasandra TMC | 109                    | 10                      |
| <b>Total</b>    | <b>524</b>             | <b>40</b>               |

All the 524 borewells water test report will be done by 15-08-2022.



6 To explore decentralized composting methods for treatment of municipal solid waste.

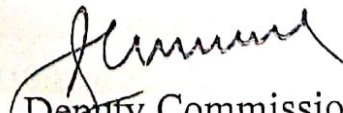
1. Lands have been identified and allotted to all four ULBs for SWM plants.
2. All the four ULB's are having MOU with Sahas Zero Waste Management Pvt. Ltd. Jigani for disposal of dry waste.

Bio medical waste is being given to Maridi Bio Industries Pvt. Ltd. For disposal.

For wet waste - Action Plans for 03 Biomethanisation plants of capacity 2 tones per day for Rs.60.00 Lakhs each has been approved for Hebbagodi CMC, Jigani, Chandapura TMC, plants will be operational by Dec-2022. Vermi compost system is proposed in Bommasandra TMC and will be operational by February-2023.

The Solid Waste details :-

| Name of ULB     | Current Population as on 2022 | No. of Wards | Waste Generation per day (TPD) | Wet waste (TPD) | Dry waste (TPD) | Other waste (TPD) |
|-----------------|-------------------------------|--------------|--------------------------------|-----------------|-----------------|-------------------|
| Hebbagodi CMC   | 98558                         | 31           | 30                             | 17              | 10.40           | 2.60              |
| Chandapur TMC   | 29585                         | 23           | 09                             | 5               | 3.1             | 0.9               |
| Jigani TMC      | 26154                         | 23           | 08                             | 4               | 2.9             | 1.1               |
| Bommasandra TMC | 34591                         | 23           | 10                             | 6               | 3.6             | 0.4               |
| <b>Total</b>    | <b>188888</b>                 | <b>100</b>   | <b>57</b>                      | <b>32</b>       | <b>20</b>       | <b>5</b>          |

  
 Deputy Commissioner,  
 Bangalore Urban District,  
 Bangalore.