

GOVERNMENT OF ANDHRA PRADESH  
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (K) DEPARTMENT

**Letter No.1282446/K/2020**

**Dated:07.02.2024**

**From**

The Special Chief Secretary to Government,  
Government of Andhra Pradesh,  
MA&UD Department,  
AP Secretariat, Velagapudi.

**To**

The Secretary,  
Ministry of Jal Sakti,  
MoHUA., Government of India,  
New Delhi. (w.e. p. 2445 to 2506 cf)

Sir,

**Sub:-** MA & UD Department - National Green Tribunal – Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018 - Monthly Progress Report for the Month of December, 2023 - Furnished – Regarding.

**Ref:-** 1. Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dated.24.09.2020.  
2. From the CDMA, AP, Lr.Roc.No.12057/54/2020/Lsec, dated: 07.02.2024 through e-mail.

\* \* \* \* \*

In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference 1<sup>st</sup> cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of December, 2023, Which was received vide reference 2<sup>nd</sup> cited, for taking further necessary action.

Yours faithfully,

*K. Santhosh*

for Special Chief Secretary to Government

**Copy to:-**

The Commissioner & Director of Municipal Administration, AP.

**National Mission for Clean Ganga**  
**Format for submission of Monthly Progress Report for Month of December 2023**  
**in the NGT Matter OA No. 673 of 2018**  
**(in compliance to NGT order dated 24.09.2020)**  
**For the State of Andhra Pradesh**

**Overall status of the State:**

- I.** Total Urban Population (as per 2011 -Census) : @1.5 Crore
- II.** Estimated Sewage Generation (MLD) : 1503.20 MLD

**III. Details of Sewage Treatment Plants:**

- Existing STPs and Treatment Capacity (27 ULBs) : 640.35 MLD (72 Nos)
- Present Gap in Treatment Capacity in MLD : 862.85 MLD
- Quantity of Sewerage Treated : 501.40 MLD
- Reuse of Treated water (Qty) : 186.83 MLD
- Capacity of STPs under Construction : 703.75 MLD
  - Capacity of under construction STP's (33 ULBs) : 500.77 MLD  
by ENC (PH) (59 STPs)
  - Capacity of Under Construction STPs at : 89.65 MLD  
APTIDCO Houses (65 ULBs) (106 STPs)
  - Capacity of under s under Construction STPs : 113.37 MLD  
Under SBM 2.0 (28 ULBs) (53 STPs/ NSTPs)
- Gap in treatment capacity after completion of  
above STPs : 159.10 MLD.
- STPs sanctioned Under SBM 2.0 & under  
Tender Process (below 1 lakh population)  
(Out of 569.00 MLD, work orders issued for : 455.67 MLD (66 ULBs)  
113.33 MLD capacity) (107 STPs)
- STPs sanctioned under AMRUT 2.0 : 413.51 MLD (26 ULBs)  
(26 ULBs -373.27 MLD)  
Including 40.24 MLD Capacity STPs of Kurnool& Narasapuram)  
(Rs.1829.28 Crs by Government of India  
(DPRs under preparation)

### III (A) Details Existing STPs in the State:

| Sl. No | City / Town | Location of STP       | Date of Commissioning | Existing STP Capacity (in MLD) | Utilization capacity (in MLD) | Operational Status of STP | Compliance Status of STP                                                                                                                                                                                            |
|--------|-------------|-----------------------|-----------------------|--------------------------------|-------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | GVMC        | Old town              | 05/2019               | 38.00                          | 38.00                         | Operational               | Complied                                                                                                                                                                                                            |
| 2      |             | Appughar              | 09/2010               | 25.00                          | 25.00                         | Operational               | Complied                                                                                                                                                                                                            |
| 3      |             | Mudasarlova           | 04/2008               | 13.00                          | 13.00                         | Operational               | Complied                                                                                                                                                                                                            |
| 4      |             | Narava                | 08/2001               | 54.00                          | 54.00                         | Operational               | Complied                                                                                                                                                                                                            |
| 5      |             | Anakapalle            | 04/2018               | 15.00                          | 15.00                         | Operational               | Complied                                                                                                                                                                                                            |
| 6      |             | Madinabagh            | 2018                  | 2.00                           | 2.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 7      |             | Yathapalem Colonies   | 04/2008               | 2.50                           | 2.50                          | Operational               | Complied                                                                                                                                                                                                            |
| 8      |             | Srinagar              | 04/2008               | 0.50                           | 0.50                          | Operational               | Complied                                                                                                                                                                                                            |
| 9      |             | Karnavani palem       | 12/2019               | 5.00                           | 0.0                           | -                         | STP was commissioned in December, 2019 & is now under non-utilisation due to delay in giving HSCs. Now, the defunct electro-mechanical equipment is being refurbished & being put to utilisation. (1500 HSCs given) |
| 10     |             | Mantripalem           | 04/ 2008              | 1.00                           | 1.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 11     |             | Aganampudi            | 12/2015               | 6.00                           | 6.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 12     |             | Rathi Cheruvu         | 09/ 2019              | 2.00                           | 2.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 13     |             | Kommadi / Madhurawada | 08/2018               | 4.00                           | 4.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 14     |             | Bakkannapalem         | 08/ 2011              | 1.00                           | 1.00                          | Operational               | Complied                                                                                                                                                                                                            |
| 15     |             | Marikavalasa          | 12/ 2012              | 2.00                           | 2.00                          | Operational               | Complied                                                                                                                                                                                                            |

| Sl. No | City / Town       | Location of STP       | Date of Commissioning | Existing STP Capacity (in MLD) | Utilization capacity (in MLD) | Operational Status of STP | Compliance Status of STP                                                                                                                                                                        |
|--------|-------------------|-----------------------|-----------------------|--------------------------------|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16     |                   | Vambay Colony         | 08/ 2011              | 3.00                           | 3.00                          | Operational               | Complied                                                                                                                                                                                        |
| 17     |                   | YSR Nagar             | 08/ 2011              | 2.00                           | 2.00                          | Operational               | Complied                                                                                                                                                                                        |
| 18     |                   | Boyapalem             | 08/ 2011              | 1.00                           | 1.00                          | Operational               | Complied                                                                                                                                                                                        |
| 19     |                   | Narava                | 10/2022               | 54.00                          | 15.00                         | Operational               | Complied                                                                                                                                                                                        |
| 20     |                   | Paradesi-palem        | 08/2022               | 2.00                           | 0.50                          | Operational               | Complied                                                                                                                                                                                        |
|        |                   |                       | <b>Sub Total</b>      | <b>233.00</b>                  | <b>187.50</b>                 |                           |                                                                                                                                                                                                 |
| 21     | Rajamahendravaram | Hukumpeta             | 01/2009               | <b>30.00</b>                   | <b>30.00</b>                  | Operational               | Complied                                                                                                                                                                                        |
| 22     | Vijayawada        | Ajith Singh Nagar-1   | 05/2011               | 40.00                          | 40.00                         | Operational               | Complied                                                                                                                                                                                        |
| 23     |                   | Ajith Singh Nagar-2   | 05/2012               | 20.00                          | 20.00                         | Operational               | Complied                                                                                                                                                                                        |
| 24     |                   | Ramalingeswar Nagar-1 | 06/2012               | 20.00                          | 20.00                         | Operational               | Complied                                                                                                                                                                                        |
| 25     |                   | Ramalingeswar Nagar-2 | 10/2006               | 10.00                          | 10.00                         | Operational               | Complied                                                                                                                                                                                        |
| 26     |                   | Autonagar -1          | 03/2005               | 10.00                          | 10.00                         | Operational               | Complied                                                                                                                                                                                        |
| 27     |                   | Autonagar -2          | 12/2018               | 10.00                          | 10.00                         | Operational               | Complied                                                                                                                                                                                        |
| 28     |                   | Jakkampudi            | 07/2017               | 20.00                          | 20.00                         | Operational               | Complied                                                                                                                                                                                        |
|        |                   |                       | <b>Sub Total</b>      | <b>130.00</b>                  | <b>130.00</b>                 |                           |                                                                                                                                                                                                 |
| 29     | Tirupathi         | Thukivakam            | 09/2018               | <b>50.00</b>                   | <b>33.00</b>                  | Operational               | Complied                                                                                                                                                                                        |
| 30     | Kadapa            | Nanepally             | Aug 2012              | <b>20.00</b>                   | <b>10.00</b>                  | Under Rehabilitation      | A new STP 20MLD capacity is under construction at Nanapally under AMRUT Scheme, as the existing STP has become redundant for Rehabilitation and it will be completed by end of September, 2024. |
| 31     | Pulivendula       | Rotarypuram           | 10/2022               | <b>10.00</b>                   | <b>5.00</b>                   | Operational               | Complied                                                                                                                                                                                        |

| Sl. No | City / Town  | Location of STP        | Date of Commissioning | Existing STP Capacity (in MLD) | Utilization capacity (in MLD) | Operational Status of STP | Compliance Status of STP                                                                                              |
|--------|--------------|------------------------|-----------------------|--------------------------------|-------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 32     | Tadipatri    | Gannevaripalle         | 10/2010               | 3.50                           | 3.50                          | Operational               | Complied                                                                                                              |
| 33     |              |                        | 10/2010               | 8.00                           | 8.00                          | Operational               | Complied                                                                                                              |
|        | Puttaparthi  |                        | <b>Sub Total</b>      | <b>11.50</b>                   | <b>11.50</b>                  |                           |                                                                                                                       |
| 34     |              | Sai Nagar              | 07/2001               | 0.50                           | 0.50                          | Operational               | Complied                                                                                                              |
| 35     |              | Gokulam                | 07/2001               | 0.50                           | 0.20                          | Operational               | Complied                                                                                                              |
| 36     |              | Prasanthi Gram         | 07/2001               | 0.50                           | 0.0                           | Under Rehabilitation      | STP is under rehabilitation in full scale & will be brought to operational by March, 2024                             |
|        |              |                        | <b>Sub Total</b>      | <b>1.50</b>                    | <b>0.70</b>                   |                           |                                                                                                                       |
| 37     | Narsaraopeta | CPT Road               | 02/2018               | <b>15.55</b>                   | <b>9.50</b>                   | Operational               | Complied                                                                                                              |
| 38     | Nellore      | Janardhan Reddy Colony | -                     | 5.00                           | 5.00                          | Operational               | Complied                                                                                                              |
| 39     |              | Allepuram              | -                     | 55.00                          | 55.00                         | Operational               | Complied                                                                                                              |
| 40     |              | Drivers Colony         | -                     | 11.00                          | 0.00                          | Operational               | STP is brought to operation through interception of sewage & House Service Connections are simultaneously in progress |
|        |              |                        | <b>Sub Total</b>      | <b>71.00</b>                   | <b>60.00</b>                  |                           |                                                                                                                       |
| 41     | Kurnool      | Jammichettu            | 03/2019               | 0.80                           | 0.80                          | Operational               | Complied                                                                                                              |
| 42     |              | Sankal Bagh            | 03/2019               | 0.80                           | 0.80                          | Operational               | Complied                                                                                                              |
| 43     |              | Tungabhadra Pump House | 03/2018               | 0.80                           | 0.80                          | Operational               | Complied                                                                                                              |
|        |              |                        | <b>Sub Total</b>      | <b>2.40</b>                    | <b>2.40</b>                   |                           |                                                                                                                       |
| 44     | Tadepalli    | Mahanadu-1             | 12/2018               | 0.20                           | 0.20                          | Operational               | Complied                                                                                                              |
| 45     |              | Mahanadu-2             | 12/2018               | 0.20                           | 0.20                          | Operational               | Complied                                                                                                              |

| Sl. No | City / Town | Location of STP    | Date of Commissioning | Existing STP Capacity (in MLD) | Utilization capacity (in MLD) | Operational Status of STP | Compliance Status of STP |
|--------|-------------|--------------------|-----------------------|--------------------------------|-------------------------------|---------------------------|--------------------------|
|        |             |                    |                       | <b>0.40</b>                    | <b>0.40</b>                   |                           |                          |
| 46     | Kondapalli  | Security Colony    | 12/2021               | 0.80                           | 0.40                          | Operational               | Complied                 |
| 47     |             | Security Colony    | 01/2023               | 2.00                           | 0.00                          | Operational               | Complied                 |
|        |             |                    |                       | <b>2.80</b>                    | <b>0.40</b>                   |                           |                          |
| 48     | Yemmiganuru | Soganur Road       | 06/2022               | <b>19.80</b>                   | <b>5.00</b>                   | Operational               | Complied                 |
| 49     | Ongole      | Koppolu            | 10/2022               | <b>15.00</b>                   | <b>15.00</b>                  | Operational               | Complied                 |
|        | <b>15</b>   | <b>Grand Total</b> |                       | <b>612.95</b>                  | <b>501.40</b>                 |                           |                          |

### III (B) Details of STPs Under Construction in the State:

| S. No. | Location          | Scheme Name | No. of STP | Capacity of the plant (in MLD) | Physical Progress in % | Completion Timeline | Status                                                                                             |
|--------|-------------------|-------------|------------|--------------------------------|------------------------|---------------------|----------------------------------------------------------------------------------------------------|
| 1      | Kakinada          | AMRUT       | 1          | 5.00                           | 75%                    | March - 2024        | In Progress                                                                                        |
| 2      | Srikakulam        | AMRUT       | 1          | 10.00                          | 45%                    | -                   | Govt. have accorded permission for closure of contract                                             |
| 3      | Vizianagaram      | AMRUT       | 1          | 5.00                           | 54%                    | -                   | Govt. have accorded permission for closure of contract vide G.O. Ms No. 73 Dt:01-06-2023.          |
| 4      | Rajamahendravaram | AMRUT       | 1          | 5.00                           | 66%                    | March - 2024        | In Progress                                                                                        |
|        |                   | NRCP        | 1          | 50.60                          | 0%                     | -                   | Work will be Grounded                                                                              |
| 5      | Eluru             | AMRUT       | 1          | 5.00                           | 99%                    | March - 2024        | Under Trail Run                                                                                    |
| 6      | Bhimavaram        | AMRUT       | 1          | 5.00                           | 85%                    | March - 2024        | In Progress                                                                                        |
| 7      | Tadepalligudem    | AMRUT       | 1          | 5.00                           | 25%                    | Mar - 2024          | In Progress                                                                                        |
| 8      | Machilipatnam     | AMRUT       | 1          | 5.00                           | 48%                    | -                   | The Government have accorded permission for closure of Contract vide G.O.Ms. No. 72 Dt: 01-06-2023 |

| S. No. | Location       | Scheme Name | No. of STP | Capacity of the plant (in MLD) | Physical Progress in % | Completion Timeline | Status                                        |
|--------|----------------|-------------|------------|--------------------------------|------------------------|---------------------|-----------------------------------------------|
| 9      | Gudivada       | AMRUT       | 1          | 5.00                           | 80%                    | March - 2024        | In Progress                                   |
| 10     | Vijayawada     | JNNUR M     | 1          | 20.00                          | 95%                    | March - 2024        | In Progress                                   |
| 11     | Tenali         | AMRUT       | 1          | 10.00                          | 83%                    | March - 2024        | In Progress                                   |
|        |                | 14 FC       | 1          | 2.00                           | 30%                    | -                   | Work stopped due to court case                |
| 12     | Chilakaluripet | AMRUT       | 1          | 5.00                           | 30%                    | March - 2024        | In Progress                                   |
| 13     | Kavali         | AMRUT       | 1          | 15.00                          | 95%                    | March - 2024        | In Progress                                   |
| 14     | Nellore        | HUDCO       | 1          | 20.00                          | 85%                    | -                   | -                                             |
|        |                |             | 1          | 14.00                          | 0%                     | -                   | The site issue resolved work will be grounded |
| 15     | Tirupati       | Smart City  | 1          | 25.00                          | 85%                    | March - 2024        | In Progress                                   |
| 16     | Srikalahasti   | AMRUT       | 1          | 7.00                           | 53%                    | March - 2024        | In Progress                                   |
| 17     | Madanapalle    | AMRUT       | 1          | 5.00                           | 22%                    | August- 2024        | In Progress                                   |
| 18     | Kadapa         | AMRUT       | 1          | 20.00                          | 50%                    | August- 2024        | In Progress                                   |
| 19     | Anantapuramu   | AMRUT       | 1          | 10.00                          | -                      | Dec-2024            | Agreement Concluded work will be Grounded     |
| 20     | Dharmavaram    | AMRUT       | 2          | 8.00                           | -                      | Dec-2024            | Agreement Concluded work will be Grounded     |
| 21     | Guntakal       | AMRUT       | 1          | 8.00                           | 2%                     | -                   | Agreement Concluded work will be Grounded     |
| 22     | Kurnool        | AMRUT       | 1          | 2.00                           | 95%                    | March-2024          | In Progress                                   |
|        |                | AMRUT       | 1          | 10.00                          | 25%                    | August-2024         | In Progress                                   |
| 23     | Nandyal        | AMRUT       | 1          | 10.00                          | 48%                    | March-2024          | In Progress                                   |
| 24     | Adoni          | AMRUT       | 1          | 5.00                           | 31%                    | March-2024          | In Progress                                   |
| 25     | Guntur         | OTSFA       | 1          | 10.00                          | 70%                    | March-2024          | -                                             |
|        |                |             | 1          | 20.00                          | 60%                    | March-2024          | -                                             |
|        |                |             | 1          | 42.00                          | 51%                    | March-2024          | -                                             |
|        |                |             | 1          | 28.00                          | 51%                    | March-2024          | -                                             |

| S. No. | Location           | Scheme Name | No. of STP | Capacity of the plant (in MLD) | Physical Progress in % | Completion Timeline | Status                                                                                                                    |
|--------|--------------------|-------------|------------|--------------------------------|------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------|
|        |                    |             | 1          | 23.00                          | 0%                     | -                   | The site issue resolved, Work will be grounded                                                                            |
| 26     | Pulivendula        | PLAN        | 1          | 1.50                           | 97%                    | March-2024          | In Progress                                                                                                               |
|        |                    |             | 1          | 1.50                           | 82%                    | March-2024          | In Progress                                                                                                               |
|        |                    |             | 5          | 2.50 (0.50 MLD x 5 Nos)        | 70%                    | March-2024          | In Progress                                                                                                               |
|        |                    |             | 1          | 0.02                           | 60%                    | March-2024          | These 4 STPs are being executed through Compact Unit STPs & 60% work completed & expected to be completed by January 2024 |
|        |                    |             | 1          | 0.07                           |                        |                     |                                                                                                                           |
|        |                    |             | 1          | 0.08                           |                        |                     |                                                                                                                           |
|        |                    |             | 1          | 0.10                           |                        |                     |                                                                                                                           |
| 27     | Rayachoti          | PLAN        | 5          | 6.90                           | 5%                     | August- 2024        | In Progress                                                                                                               |
|        |                    |             | 1          | 15.50                          | 2%                     | August- 2024        | In Progress                                                                                                               |
| 28     | Kanigiri           | AIIB        | 1          | 6.00                           | 2%                     | August- 2024        | New site is identified & handing over of site is under process                                                            |
| 29     | Sullurpet          | AIIB        | 3          | 8.00                           | 4%                     | August- 2024        | Sites handed over, Designs under finalization.                                                                            |
| 30     | Allagadda          | AIIB        | 1          | 5.00                           | 2%                     | August- 2024        | Sites handed over, Designs under finalization. PMC to Clear designs.                                                      |
| 31     | Nandikotkur        | AIIB        | 1          | 5.00                           | 0 %                    | August- 2024        | Site to be handed over                                                                                                    |
| 32     | Madakasira         | AIIB        | 1          | 5.00                           | 2%                     | August- 2024        | Sites handed over, Designs under finalization PMC to Clear designs.                                                       |
| 33     | Proddutur          | PLAN        | 1          | 24.00                          | -                      | -                   | Agreement Concluded and work will be Grounded. Designs under finalization                                                 |
|        | <b>Grand Total</b> |             | <b>59</b>  | <b>500.77</b>                  |                        |                     |                                                                                                                           |



### III C) Details of STPs Under Construction in APTIDCO Housing Colonies:

| Sl. No | Name of the ULB  | Name of the Location | Capacity in MLD | Physical Progress in % | Completion Timeline |
|--------|------------------|----------------------|-----------------|------------------------|---------------------|
| 1      | 2                | 3                    | 4               | 5                      | 6                   |
| 1      | Srikakulam       | Patrunivalasa        | 2.10            | Completed              | Complied            |
| 2      | Vizianagaram     | Saripalli            | 1.50            | Completed              | Complied            |
| 3      | GVMC             | Satyanarayanapuram   | 1.50            | 87%                    | March-2024          |
| 4      | GVMC             | Parawada             | 0.50            | Completed              | Complied            |
| 5      | Tadepalli Gudem  | a. Kondruprolu-I     | 2.00            | 85%                    | March-2024          |
| 6      |                  | b. Kondruprolu-II    | 0.75            | 80%                    | March-2024          |
| 7      | Palakollu        | Penukulapadu         | 3.50            | 85%                    | March-2024          |
| 8      | Kavali           | Maddurupadu          | 1.50            | Completed              | Complied            |
| 9      | Atmakur          | Nellorepalem         | 1.00            | Completed              | Complied            |
| 10     | Gudur            | Gandhinagar          | 3.70            | Completed              | Complied            |
| 11     | Kurnool          | Jagannadhagattu      | 0.50            | 92%                    | March-2024          |
| 12     |                  |                      | 0.50            | 92%                    | March-2024          |
| 13     |                  |                      | 1.00            | 94%                    | March-2024          |
| 14     |                  |                      | 1.50            | 94%                    | March-2024          |
| 15     |                  |                      | 2.00            | 94%                    | March-2024          |
| 16     | Nandyal          | SRBC Colony          | 1.00            | 92%                    | March-2024          |
| 17     |                  |                      | 1.00            | 95%                    | March-2024          |
| 18     |                  | Nandhamuri Nagar     | 1.00            | 95%                    | March-2024          |
| 19     |                  |                      | 1.00            | 95%                    | March-2024          |
| 20     | Adhoni           | Siriguppa Road       | 1.00            | 90%                    | March-2024          |
| 21     |                  |                      | 1.00            | 90%                    | March-2024          |
| 22     | Peddapuram       | Valuthimmapuram      | 2.00            | 96%                    | June - 2024         |
| 23     | Mandapeta        | Gollapunta           | 3.00            | 87%                    | June - 2024         |
| 24     | Pithapuram       | Gorsa                | 0.50            | Completed              | Complied            |
| 25     | Ramachandrapuram | Kothuru (Ph-I)       | 0.75            | 90%                    | June - 2024         |
| 26     | Amalapuram       | Bodasukurru          | 1.00            | 70%                    | June - 2024         |

| Sl. No | Name of the ULB   | Name of the Location      | Capacity in MLD | Physical Progress in % | Completion Timeline                                          |
|--------|-------------------|---------------------------|-----------------|------------------------|--------------------------------------------------------------|
| 27     | Rajamahendravaram | Bommuru-I                 | 1.50            | 96%                    | June - 2024                                                  |
| 28     | Rajamahendravaram | Torredu                   | 0.50            | 93%                    | June - 2024                                                  |
| 29     | Samalkota         | Jaggamvaripeta            | 0.50            | 93%                    | June - 2024                                                  |
| 30     | Samalkota         | Uppuvarisatram            | 0.50            | 98%                    | June - 2024                                                  |
| 31     | Tenali            | Chinaravuru               | 0.60            | Completed              | Complied                                                     |
| 32     | Ponnuru           | Nidubrolu                 | 1.25            |                        |                                                              |
| 33     | Chilakaluripeta   | Purushothapatnam          | 2.80            |                        |                                                              |
| 34     | GVMC              | Dabbanda                  | 0.90            | 90%                    | Completed but Waiting for power Supply to take up Trial run. |
| 35     | GVMC              | Aganampudi (Tri Junction) | 1.10            | 80%                    |                                                              |
| 36     | Vijayawada        | Jakkampudi I (A)          | 0.90            | 90%                    | Completed but Waiting for power Supply to take up Trial run. |
| 37     | Vijayawada        | Jakkampudi II (B)         | 0.60            | 90%                    |                                                              |
| 38     | Vijayawada        | Jakkampudi III (C)        | 0.90            | 90%                    |                                                              |
| 39     | Vijayawada        | Jakkampudi IV (D)         | 0.90            | 90%                    |                                                              |
| 40     | Gudivada          | Mallayapalem I            | 1.60            | Completed              | Complied                                                     |
| 41     | Gudivada          | Mallayapalem II           | 2.70            |                        |                                                              |
| 42     | Machilipatnam     | Gosangam II               | 0.50            | 90%                    | Jan- 2024                                                    |
| 43     | Machilipatnam     | Rudravaram II             | 0.70            | 82%                    | Jan- 2024                                                    |
| 44     | Mangalagiri       | RGK Colony -I             | 0.80            | Completed              | Complied                                                     |
| 45     | Guntur            | Vengalayapalem I & II     | 1.50            | 95%                    | March-2024                                                   |
| 46     | Repalle           | Repalle II                | 0.60            | 50%                    | March-2024                                                   |
| 47     | Piduguralla       | Kondamodu II              | 1.30            | 80%                    | March-2024                                                   |
| 48     | Macherla          | Gorrilamandhi-II          | 0.50            | 80%                    | March-2024                                                   |
| 49     | Srikalahasthi II  | S.W. Hostel -II           | 0.90            | 95%                    | Completed but Waiting for power Supply to take up Trial run  |
| 50     | Chittoor          | Murukumbattu -II          | 1.30            | 96%                    |                                                              |
| 51     | Puttur            | Nandimangalam -II         | 0.20            | 95%                    |                                                              |
| 52     | Punganur          | Ethuru -II                | 0.70            | 95%                    |                                                              |
| 53     | Madanapalli       | Venkappakota -II          | 0.90            | 95%                    |                                                              |

| Sl. No | Name of the ULB  | Name of the Location    | Capacity in MLD | Physical Progress in % | Completion Timeline                                         |
|--------|------------------|-------------------------|-----------------|------------------------|-------------------------------------------------------------|
| 54     | Srikalahasthi I  | Rajiv Nagar -I          | 1.00            | 95%                    | Completed but Waiting for power Supply to take up Trial run |
| 55     | Kakinada         | Kakinada(Paralovapeta)  | 1.50            | 60%                    | March-2024                                                  |
| 56     | Rajahmundry      | Bommuru-II              | 1.50            | 60%                    | March-2024                                                  |
| 57     |                  | Namavaram               | 0.75            | 64%                    | March-2024                                                  |
| 58     | Ramachandrapuram | KothuruIII              | 1.00            | 67%                    | April -2024                                                 |
| 59     | Naidupeta-II     | Biradawada              | 0.90            | 90%                    | April -2024                                                 |
| 60     | Sullurupeta-II   | Mannrupoluru            | 0.80            | 90%                    | April -2024                                                 |
| 61     | Venkatagiri-II   | Chevireddypalli         | 0.80            | 90%                    | April -2024                                                 |
| 62     | Nellore          | Akkacheruvupadu-II      | 1.60            | 90%                    | April -2024                                                 |
| 63     | Nellore          | Kallurupalli-II         | 1.10            | 87%                    | April -2024                                                 |
| 64     | Nellore          | Kondlapudi II&III       | 1.20            | 87%                    | April -2024                                                 |
| 65     | Kandukur         | Uppucheruvu-I           | 1.40            | 90%                    | Feb - 2024                                                  |
| 66     | Markapur         | Pedanagulavaram Road -I | 0.50            | 40%                    | Feb - 2024                                                  |
| 67     | Vizianagaram     | Sonia nagar             | 0.50            | 90%                    | March-2024                                                  |
| 68     | Nellimarla       | Nellimarla              | 0.30            | 90%                    | March-2024                                                  |
| 69     | Rajam            | Kancharam               | 0.20            | 70%                    | March-2024                                                  |
| 70     | Amadalavalasa    | Byrsastrulla-pet        | 0.30            | 90%                    | March-2024                                                  |
| 71     | Bobbili          | Bobbili                 | 0.80            | 77%                    | March-2024                                                  |
| 72     | Saluru           | Saluru                  | 0.60            | 74%                    | March-2024                                                  |
| 73     | Parvathipuram    | Parvathipuram           | 0.40            | 75%                    | March-2024                                                  |
| 74     | Tanuku           | Indiramma Colony        | 0.20            | 5%                     | Feb- 2024                                                   |
| 75     | Tanuku           | BalaBalaji              | 0.30            | 5%                     | Feb- 2024                                                   |
| 76     | Jangareddygudem  | Markandeyapuram -II     | 0.40            | 5%                     | Feb- 2024                                                   |
| 77     | Nidadavolu       | Tirugudem -II           | 0.50            | 5%                     | Feb- 2024                                                   |

| Sl. No | Name of the ULB           | Name of the Location      | Capacity in MLD | Physical Progress in % | Completion Timeline |
|--------|---------------------------|---------------------------|-----------------|------------------------|---------------------|
| 78     | Kovvuru                   | Pedathallapunta -II       | 0.30            | 5%                     | Feb- 2024           |
| 79     | Eluru                     | Ponangi road              | 2.50            | 5%                     | Feb- 2024           |
| 80     | Eluru                     | Kotturu road              | 0.20            | 5%                     | Feb- 2024           |
| 81     | Vinukonda                 | Vellaturu road II         | 0.70            | 30%                    | Feb- 2024           |
| 82     | Kanigiri                  | Chakirala -III            | 0.50            | 30%                    | Feb- 2024           |
| 83     | Giddaluru                 | Modempalli -III           | 0.60            | 30%                    | Feb- 2024           |
| 84     | Addanki                   | Singarakonda -III         | 0.50            | 30%                    | Feb- 2024           |
| 85     | Nuziveedu                 | M.R. Apparao colony II    | 1.30            | 25%                    | Feb- 2024           |
| 86     | Tiruvuru                  | PT Kotturu I              | 0.40            | 25%                    | Feb- 2024           |
| 87     |                           | PT Kotturu II             | 0.40            | 25%                    | Feb- 2024           |
| 88     | Jaggiahpetta              | Gurukulapathasala II      | 1.60            | 25%                    | Feb- 2024           |
| 89     | Nandigama                 | Hanumanthupalem II        | 0.20            | 25%                    | Feb- 2024           |
| 90     | Vuyyuru                   | Gemini School -II         | 0.90            | 25%                    | Feb- 2024           |
| 91     | Vuyyuru                   | Gandigunta -II            | 0.30            | 25%                    | Feb- 2024           |
| 92     | Vuyyuru                   | Raghava estates -II       | 0.10            | 25%                    | Feb- 2024           |
| 93     | Adavitakkilapadu (Guntur) | Adavitakkilapadu          | 2.00            | Completed              | Complied            |
| 94     | Kadapa                    | Chinnachowk -I            | 1.00            | 75%                    | March-2024          |
| 95     | Kadapa                    | Chalamareddypalli -II     | 1.00            | 75%                    | March-2024          |
| 96     | Jammalamadugu             | Gudemcheruvu -II          | 1.00            | 73%                    | March-2024          |
| 97     | Rayachoti                 | Sibyala -II               | 0.50            | 68%                    | March-2024          |
| 98     | Yerraguntla               | Yerraguntla road -II      | 1.00            | 75%                    | March-2024          |
| 99     | Nandyal                   | Alyyalurimitta            | 1.00            | 42%                    | March-2024          |
| 100    | Allagadda                 | Chinthakuntla Village-III | 0.60            | 80%                    | March-2024          |
| 101    | Tadipatri I &II           | Gannavaripalli -I&II      | 2.75            | 76%                    | March-2024          |
| 102    | Dharmavaram               | Regatipalli-II            | 0.75            | 72%                    | March-2024          |
| 103    | Hindupur                  | Kotipi-II                 | 0.70            | 72%                    | March-2024          |
| 104    | Kadiri                    | Hindupur road-II          | 0.60            | 74%                    | March-2024          |
| 105    | Puttaparthi               | Karnataka nagepalli-II    | 0.25            | 60%                    | March-2024          |

| Sl. No | Name of the ULB | Name of the Location | Capacity in MLD | Physical Progress in % | Completion Timeline |
|--------|-----------------|----------------------|-----------------|------------------------|---------------------|
| 106    | Ananthapur      | Pandameru-3          | 1.25            | 70%                    | March-2024          |
| 107    | Guntakal        | Dhonimukkala-3       | 1.25            | 67%                    | March-2024          |
| 108    | Raydurgam       | Mallapuram-3         | 0.60            | 67%                    | March-2024          |
| 109    | Ichapuram       | Ichapuram            | 0.10            | 20%                    | Feb- 2024           |
| 110    | Palasa          | Palasa               | 0.40            | 25%                    | Feb- 2024           |
| 111    | GVMC            | Appikonda            | 0.40            | 37%                    | Feb- 2024           |
| 112    | GVMC            | Mulagada             | 0.20            | 30%                    | Feb- 2024           |
| 113    | GVMC            | Nadipur              | 0.50            | 35%                    | Feb- 2024           |
| 114    | GVMC            | Sangivalasa          | 0.30            | 32%                    | Feb- 2024           |
| 115    | GVMC            | Kondakoppaka         | 0.20            | 32%                    | Feb- 2024           |
| 116    | GVMC            | Sirasapalli          | 0.30            | 60%                    | March-2024          |
| 117    | GVMC            | AtchauLova-1         | 1.00            | 60%                    | March-2024          |
| 118    | GVMC            | AtchauLova-2         | 1.00            | 60%                    | March-2024          |
| 119    | Yelamanchili    | Yelamanchili         | 0.20            | Completed              | Complied            |
| 120    | Narsipatnam     | Narsipatnam-1        | 0.60            | 60%                    | March-2024          |
| 121    |                 | Narsipatnam-2        | 0.30            | 60%                    | March-2024          |
| 122    | CRDA            | Ananthavaram         | 0.20            | Completed              | Complied            |
| 123    |                 | Dondapadu            | 0.50            |                        |                     |
| 124    |                 | Thulluru             | 0.20            |                        |                     |
| 125    |                 | Mandadam             | 0.20            |                        |                     |
| 126    |                 | Inavolu              | 0.30            |                        |                     |
| 127    |                 | Nowluru              | 0.30            |                        |                     |
| 128    |                 | Penumaka             | 0.30            |                        |                     |
| 129    |                 | Nidamaru             | 0.30            |                        |                     |
|        | <b>Total</b>    |                      | <b>117.05</b>   |                        |                     |

- Out of 129 STPs 23 STPs are Completed in TIDCO Colonies : 27.40 MLD (23 Nos)

### **III D) STATUS OF STPs UNDER RIVER STRETCHES**

- Central Pollution Control Board has newly identified 3 Nos., Polluted River Stretches i.e., Gosthani, Upputeru & Vasishta in Andhra Pradesh and also delisted 5 Polluted River Stretches, previously listed out.
- It is submitted that the River stretches of Gosthani & Upputeru reported by Central Pollution Control Board are within Rural areas. The BOD Level of Gosthani River reported by CPCB was 8.6 and as per the Report of the APPCB for the month of December, 2023, the average BOD levels of the said River for the last months (October, 2023 to December, 2023) is 4.53, which is below admissible level.
- The BOD level of Upputeru River reported by CPCB is 3.4 & as per the Report of the APPCB for the Month of December, 2023, the average BOD levels reported for the last 3 months (October, 2023 to December, 2023) are 2.7 which is below admissible level.
- Regarding Vashista River, it is submitted that the Stretches (Locations) are Upstream of Narsapuram Town before confluence of town sewage (Code 4365) and Down Stream of Narsapuram Town after confluence of town sewage (Code 4366). In both the said two locations, the BOD levels observed by Central Pollution Control Board before confluence of the Town Sewage at Upstream of the River is 5.9, which is below admissible level and after confluence of Town Sewage at Downstream of the River is 58, which is above admissible level. As per the Report given by the AP Pollution Control Board, Vijayawada for the month of December, 2023, the average BOD Levels for the last 3 months' taken at the two identified Stretches of River Vashista (October, 2023 to December, 2023) i.e., Upstream and Downstream are 1.8 and 1.9 respectively (Codes: 4365 & 4366), which are below admissible levels prescribed.
- However, it is further submitted that one STP is taken up with a capacity of 8.00 MLD with an estimated cost of Rs.14.60 Crs under SBM 2.0 in Narsapuram Municipality and Land Acquisition is under process. However, the Central Pollution Control Board will also be requested for instructions for preparation of action plan and to submit for further necessary action, in view of the above position.

### **III E) Status of STPs & NSTPs in the ULBs with below 1 Lakh Population:**

**State Level Technical Committee and State High Power Committee have approved the construction of STPs in ULBs with below 1 lakh population:**

(There are 74 ULBs with below One lakh population)

- Proposed STPs in : 66 ULBs
- Proposed Capacity for the year 2040 : 569.00 MLD
- Total Project Cost : Rs.1445 Cr

As mentioned above, City Sanitation Action Plans and DPRs for 66 ULBs were completed and submitted to Director, SBM & Director, CPHEEO, New Delhi for release of funds.

In 74 ULBs, 8 ULBs are excluded, as the STPs of 90 MLD capacities are being constructed with AIIB funds in Sullurpet, Nandikotkur, Allagadda, Madakasira and Kanigiri and State Special Grant in Pulivendula and Rayachoti. Puttaparthi is having 3 existing STPs.

- For balance 66 ULBs, cluster wise tenders were floated for 569 MLD and no response was received during 1st and 2nd call tenders.
- Due to no response, proposals are revised to float tenders in phased manner.
- As per Government Order 227, permission was accorded to float tenders in 48 ULBs. Among those in 28 ULBs where Govt. land is available (covers 131.37 MLD) are formed into 8 Clusters. Tender process is completed in 8 clusters and Work Order issued in 7 Clusters. The Agency in Cluster 2 has requested for cancellation as they are not willing to extend their bid validity.

Land Alienation for construction of certain STPs is completed by the District Collectors and advance possession of Ac 61.83 cents Government Land/Other Department Land is given in 31 ULBs for construction of STPs with a capacity of 131.57 MLD.

The Government accorded administrative sanction vide G.O.Rt.No.227, dated 10.04.2023 of MA & UD Department to initiate Land Acquisition in 22 ULBs under Phase-I to construct STPs/NSTPs. Land Acquisition Award passed by the District Collectors in 8 ULBs for construction of 9 STPs and Land Acquisition is in process in 13 ULBs for construction of 13 STPs for acquiring Ac 59.65 cents. Fresh Tenders were floated in 8 Clusters for construction of 53 STPs with a capacity 131.37 MLD in 28 ULBs.

**Cluster-Wise Abstract on STPs Tenders:**

| Sl. No.       | Cluster no. | No. of ULBs | Total No. of Projects (STP+NSTP)       | Proposed Capacity (MLD) | Land available (in Ac) | Project Cost Rs.in Cr |
|---------------|-------------|-------------|----------------------------------------|-------------------------|------------------------|-----------------------|
| 1             | Cluster 01  | 6           | 19<br>(1-STP, 18-NSTPs)                | 7.58                    | 3.38                   | 13.428                |
| 2             | Cluster 02  | 4           | 8<br>(6-STPs, 2-NSTPs)                 | 18.04                   | 8.62                   | 29.792                |
| 3             | Cluster 03  | 3           | 5<br>(4-STPs, 1-NSTP)                  | 22.54                   | 9.07                   | 37.245                |
| 4             | Cluster 04  | 3           | 3<br>(3-STPs)                          | 14.10                   | 4.17                   | 23.265                |
| 5             | Cluster 05  | 2           | 4<br>(1-STP, 3-NSTPs)                  | 8.45                    | 3.64                   | 14.172                |
| 6             | Cluster 06  | 4           | 6<br>(2-STPs, 4-NSTPs)                 | 19.23                   | 7.84                   | 32.074                |
| 7             | Cluster 07  | 2           | 3<br>(3-STPs)                          | 22.90                   | 8.51                   | 37.785                |
| 8             | Cluster 08  | 4           | 5<br>(2-STPs, 3-NSTPs)                 | 18.53                   | 7.48                   | 30.813                |
| <b>Totals</b> |             | <b>28</b>   | <b>53<br/>(22-STPs &amp; 31-NSTPs)</b> | <b>131.37</b>           | <b>52.71</b>           | <b>218.573</b>        |

**Cluster 1 Details:**

| District Name | Name of the ULB | Total No. of Projects (STP+NSTP) | Proposed Capacity (MLD) |
|---------------|-----------------|----------------------------------|-------------------------|
| Srikakulam    | Amadalavalasa   | NSTP 02                          | 0.142                   |
|               |                 | NSTP 05                          | 0.180                   |
|               |                 | NSTP 06                          | 0.186                   |
|               |                 | NSTP 07                          | 0.101                   |
|               |                 | NSTP 08                          | 0.277                   |
|               | Ichapuram       | NSTP 01                          | 0.778                   |
|               |                 | NSTP 02                          | 0.371                   |
|               | PalasaKasibugga | NSTP 03                          | 0.014                   |
| Vizianagaram  | Bobbili         | STP 01                           | 3.5                     |



|            |               |         |       |
|------------|---------------|---------|-------|
|            |               | NSTP 01 | 0.151 |
|            |               | NSTP 02 | 0.157 |
|            |               | NSTP 04 | 0.203 |
|            |               | NSTP 05 | 0.065 |
|            |               | NSTP 06 | 0.066 |
| Anakapalli | Narsipatnam   | NSTP 02 | 0.244 |
|            | Yellamanchali | NSTP 01 | 0.400 |
|            |               | NSTP 02 | 0.500 |
|            |               | NSTP 05 | 0.109 |
|            |               | NSTP 11 | 0.138 |
|            |               |         | 7.58  |

**Cluster 02 Details:**

|               |              |         |              |
|---------------|--------------|---------|--------------|
| Kakinada      | Pithapuram   | STP 01  | 1.100        |
|               |              | STP 02  | 1.000        |
| East Godavari | Nidadavole   | STP 01  | 3.700        |
|               |              | STP 02  | 3.000        |
| West Godavari | Palacole     | STP 01  | 5.100        |
|               |              | STP 02  | 4.000        |
|               | Tanuku       | NSTP 01 | 0.066        |
|               |              | NSTP 02 | 0.071        |
|               | <b>Total</b> |         | <b>18.04</b> |

**Cluster 03 Details:**

|              |              |         |              |
|--------------|--------------|---------|--------------|
| NTR District | Tiruvuru     | NSTP 03 | 0.240        |
| Palnadu      | Piduguralla  | STP 01  | 5.900        |
|              |              | STP 02  | 5.200        |
|              | Vinukonda    | STP 01  | 5.700        |
|              |              | STP 02  | 5.500        |
|              | <b>Total</b> |         | <b>22.54</b> |

**Cluster 04 Details:**

|              |          |        |              |
|--------------|----------|--------|--------------|
| Prakasam     | Giddalur | STP 01 | 6.100        |
| Baptla       | Bapatla  | STP 01 | 3.000        |
|              | Chirala  | STP 02 | 5.000        |
| <b>Total</b> |          |        | <b>14.10</b> |

**Cluster 05 Details:**

|              |               |         |             |
|--------------|---------------|---------|-------------|
| Nandyal      | Atmakur       | NSTP 01 | 0.586       |
|              |               | NSTP 02 | 0.181       |
|              |               | NSTP 03 | 0.253       |
| YSR Kadapa   | Jammalamadugu | STP 01  | 7.430       |
| <b>Total</b> |               |         | <b>8.45</b> |

**Cluster 06 Details:**

|             |              |         |              |
|-------------|--------------|---------|--------------|
| YSR Kadapa  | Badvel       | NSTP 01 | 0.243        |
|             |              | NSTP 02 | 0.654        |
|             |              | NSTP 03 | 0.447        |
|             | Mydukur      | STP 01  | 8.100        |
| SPS Nellore | Kandukur     | STP 01  | 9.600        |
|             | Atmakur      | NSTP 03 | 0.186        |
|             | <b>Total</b> |         | <b>19.23</b> |

**Cluster 07 Details:**

|               |              |        |              |
|---------------|--------------|--------|--------------|
| Ananthapur    | Gooty        | STP 01 | 3.600        |
|               |              | STP 02 | 4.400        |
| Sri Satya Sai | Kadiri       | STP 01 | 14.900       |
|               | <b>Total</b> |        | <b>22.90</b> |

**Cluster 08 Details:**

|          |              |         |              |
|----------|--------------|---------|--------------|
| Tirupati | Gudur        | NSTP 01 | 0.106        |
|          | Venkatagiri  | STP 01  | 9.580        |
|          | Naidupet     | STP 01  | 7.900        |
|          |              | NSTP 01 | 0.788        |
| Chittoor | Punganur     | NSTP 02 | 0.157        |
|          | <b>Total</b> |         | <b>18.53</b> |

Government has issued instructions to Municipal Commissioners to identify suitable lands required for construction of STPs & NSTPs. To speed up the Land Acquisition, necessary orders are also issued to the District Collectors to acquire the private land thro' Voluntary Acquisition (Sale) of Land Scheme/Programme.

The Finance Department has advised to phase out the construction uniformly across the State with first phase budget outlay of Rs.50 Crs. The Government accorded administrative sanction vide G.O.Rt.No.227, dated 10.04.2023 of MA & UD Department to initiate Land Acquisition in 22 ULBs (Ac 59.65 cents), under Phase-I to construct STPs/NSTPs. The District Collectors were also requested to initiate the Land Acquisition process for AC. 59.65 cents and give advance possession of Ac.61.83 cents of Government lands and other department lands to ULBs.

#### **IV. Details of Industrial Pollution:**

- No. of Industries in the State: 9993 Nos.
- No. of water polluting industries in the State: 1467 Nos.
- Quantity of effluent generated from the industries in MLD: 4550.4787

##### **Effluent Break-Up Details:**

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 420.169 MLD
- Cooling tower/Boiler blow down: 254.2565 MLD
- Domestic waste water: 49.9232 MLD

**Out of the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5°C temperature of intake water.**

- From the Cooling tower/Boiler blow down (about 5.6%).
- The remaining about 9.4% is generated from Trade effluent & Domestic discharges.
- APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1104 No's
- Number of industrial units connected to CETP: 363 No's
  - i. Existing: 1104 no's ETPs
  - ii. Under construction: Nil
  - iii. Proposed: Nil
- **Compliance status of the ETPs:**

APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries. Number and total capacity of CETPs (details of existing/ under construction / proposed).

  - i. Existing: 9 No's with total capacity of 22.80 MLD

**Status of Compliance and operation of the CETPs:**

| <b>S. No</b> | <b>Name and Address of the CETP &amp; contact person</b>                                                                   | <b>Design Capacity (in MLD)</b> | <b>Current Operating capacity (in MLD)</b> | <b>Type and No. of member units</b>                                                                     | <b>Compliance status</b>  |
|--------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|
| 1.           | Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.                            | 6                               | 4.011                                      | Textile park- 14 units (Marine outfall)                                                                 | Complied                  |
| 2.           | Visakha Pharamcity (Formerly) M/s RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.             | 9.53                            | 6.38                                       | Pharmaceutical & Bulk drugs – 92 units (Marine outfall)                                                 | Complied                  |
| 3.           | Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.                                                        | 1.5                             | 0.81                                       | Pharmaceutical & Bulk drugs, other units – 45 (Marine outfall)                                          | Complied                  |
| 4.           | Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.                          | 0.2                             | 0.093                                      | Pharmaceutical & Bulk drugs- 14 units (ZLD) (Reused in cooling towers of CETP and in member industries) | Complied                  |
| 5.           | Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.                                    | 0.2                             | 0.026                                      | Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units (For Green belt development)        | Not Complied              |
| 6.           | Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.                              | 0.07                            | 0.00027                                    | Electro Plating – 48 Units (ZLD)                                                                        | Complied                  |
| 7.           | Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.                                     | 4                               | 0.47                                       | Manual Dyeing units - 90 units (After treatment , shell be discharged into open channel )               | Not Complied              |
| 8.           | M/s. Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), MPSEZ, Menakuru (V), Naidupet (M), SPSR Nellore | 1.0                             | 0.049                                      | Pharmaceutical – 17 units (After treatment , recycled into Various Units )                              | Complied.                 |
| 9.           | M/s. APIIC Mega Food Park, CETP (Phase-I), Sy.No.11, Mallavalli (V), Bapulapadu (M), Krishna District.                     | 0.3                             | 0                                          | 1 Unit (Onland for irrigation)                                                                          | It is under stabilization |
|              | <b>Total</b>                                                                                                               | <b>22.8</b>                     | <b>11.83927</b>                            |                                                                                                         |                           |

## **V. Solid Waste Management:**

- Number of Urban Local Bodies : 123
- Current Municipal Solid Waste Generation: **6890** TPD
- Percentage of collection of Segregated Waste from Source is 98.25
- Percentage of door to door garbage collection 100%.
- Interim Action Plan is being implemented to provide immediate solution to Solid Waste Management in all ULBs to process wet, dry & combustible wastes.

### **Door to Door Garbage collection & Source Segregation**

- No. of wards in 123 ULBs : 3928
- No. of wards having door to door garbage collection system: 3928
- No. of wards practicing segregation of waste at source: 3859
- 1.21 crores Dustbins in three Colors (3 Bins to each household) have been distributed free of cost to encourage segregation at household level.

### **Waste to Energy Projects**

- There are two Waste to Energy Plants established in Visakhapatnam & Guntur with 15 MW capacity each, which are functional, treating 1800 TPD of the Waste from 80 ULBs (Vishakhapatnam – 27 ULBs & Guntur 53 ULBs – Combustible Waste).
- For Disposal of Combustible Waste, 43 ULBs are mapped to 5 Cement Plants to treat 355 TPD.

### **Wet Waste Processing Plants**

- Total 46 Waste to Compost Plants, Bio-methanation Plants and ISWM Plants are established covering 55 ULBs. Out of which 33 Nos. are Waste to Compost Plants, 4 Nos. are Bio-CNG plants & 9 Nos. are Integrated Solid Waste Management Plants
- 33 Nos. Waste to Compost Plants covering 37 ULBs with a Processing Capacity of 1391 TPD.
- 4 Bio-CNG Plants covering 8 ULBs with a Processing Capacity of 175 TPD.
- 9 Nos. Integrated Solid Waste Management Projects covering 10 ULBs with a processing Capacity of 380 TPD.
- There are 68 Nos. Windrow Composting Units in 68 ULBs Processing @1844 TPD Wet Waste as an interim measure, till the establishment of ISWM Projects/Waste to Compost Plants.

- Total 12 Waste to Compost/Bio-methanation Plants (10 Waste to Compost & 2 Bio-methanation) covering 12 ULBs are in progress with an installed capacity of 391 TPD.
- Work Orders issued to 37 Agencies for establishment of 37 Integrated Solid Waste Management Projects covering 51 ULBs. Out of these, 9 Plants are completed & functional, covering 10 ULBs.
- Compost produced is being sold to farmers by Processing Plant Developers & in ULB operated Plants, Compost is being used in Parks, Greenery in Central Medians, Avenue Plantation etc.
- CNG gas produced is being sold to Commercial establishments like Hotels, Restaurants etc.,

#### **Material Recovery facilities (MRFs)**

- Material Recovery facilities have been established in all 123 ULBs to process the dry waste @ 945 TPD.
- Sorted out recyclables are being sold to identified Recyclers by the ULBs.

**Thus, the total waste generated i.e., 6890 MTs is being treated with the existing processing facilities established in the ULBs.**

#### **Construction & Demolition Waste Processing Plants**

- Construction & Demolition waste Processing Plants are established in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation for treatment of C&D waste and utilizing the processed C&D Waste as paver blocks in footpath works, sand in building/road works. The Paver Blocks & sand are being sold to private agencies/contractors.
- In Kakinada & Kurnool Municipal Corporations, Crushing Units are established by ULBs. Fly Ash Bricks & 20 mm metal are being manufactured in Kurnool and being sold to private agencies & contractors. In Kakinada the crushed C&D Waste being used to fill the low-lying areas.

### **Bio-Remediation of Legacy Waste**

- Dumpsites with an area of 1011 Acres are existing in the ULBs.
- Out of 32 ULBs under the category of above 1 Lakh Population, Bio-remediation was completed in 6 ULBs i.e., completed in Vijayawada, Tirupati, Ananthapuramu Corporations, Dharmavaram & Tadepalligudem Municipalities.
- Work is under progress in remaining 27 ULBs.
- Out of 91 ULBs under the category of below 1 Lakh population, Bio remediation was completed in 7 ULBs i.e., Nuzvidu, Yelamanchili, Kovvur, Pulivendula, Badvel, Rayachoti & Mydukur.
- Work is in progress in the remaining 110 ULBs. So far, 37.27 lakh Tons of Legacy Waste has been treated, out of 85.00 Lakh Tons of estimated quantity.

**Status of ULB wise Management of Solid Waste**

| S. No | Name of the ULB   | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                   |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 1     | Amudalavalasa     | 19.00                 | Existing WtC         | 11.00                | 100%                 | WtE Vizag                     | 6.00              | Established | 2.00               | 90%                  |
| 2     | Ichchapuram       | 18.00                 | Existing WtC         | 11.00                | 100%                 | WtE Vizag                     | 6.00              | Established | 1.00               | 90%                  |
| 3     | Palasa- kasibugga | 28.00                 | Existing WtC         | 18.00                | 100%                 | WtE Vizag                     | 10.00             | Established | 1.00               | 90%                  |
| 4     | Rajam             | 21.00                 | Existing WtC         | 12.00                | 100%                 | WtE Vizag                     | 7.00              | Established | 2.00               | 90%                  |
| 5     | Bobbili           | 29.00                 | Existing WtC         | 18.00                | 100%                 | WtE Vizag                     | 12.00             | Established | 1.00               | 90%                  |
| 6     | Salur             | 24.00                 | Existing WtC         | 18.00                | 100%                 | WtE Vizag                     | 7.00              | Established | 1.00               | 90%                  |
| 7     | GVMC              | 918.00                | Existing WtC         | 520.00               | 100%                 | WtE Vizag                     | 353.00            | Established | 46.00              | 90%                  |
| 8     | Narsipatnam       | 30.00                 | Existing WtC         | 16.00                | 100%                 | WtE Vizag                     | 12.00             | Established | 2.00               | 90%                  |
| 9     | Yellamanchili     | 23.00                 | Existing WtC         | 13.00                | 100%                 | WtE Vizag                     | 8.00              | Established | 2.00               | 90%                  |
| 10    | Adoni             | 81.00                 | Existing CNG         | 23.00                | 100%                 | Connected to Cement Factories | 14.00             | Established | 44.00              | 90%                  |



| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 11    | Nuzivid         | 29.00                 | Existing WtC         | 16.00                | 100%                 | WtE Guntur                    | 10.00             | Established | 3.00               | 90%                  |
| 12    | Tiruvuru        | 17.00                 | Existing WtC         | 9.00                 | 100%                 | WtE Guntur                    | 6.00              | Established | 2.00               | 90%                  |
| 13    | Tenali          | 80.00                 | Existing WtC         | 44.00                | 100%                 | WtE Guntur                    | 32.00             | Established | 4.00               | 90%                  |
| 14    | Sattenpalle     | 28.00                 | CNG - Piduguralla    | 13.00                | 100%                 | WtE Guntur                    | 10.00             | Established | 5.00               | 90%                  |
| 15    | Narsaraopet     | 57.00                 | CNG - Piduguralla    | 13.00                | 100%                 | WtE Guntur                    | 30.00             | Established | 14.00              | 90%                  |
| 16    | Piduguralla     | 31.00                 | Existing CNG         | 13.00                | 100%                 | WtE Guntur                    | 12.00             | Established | 6.00               | 90%                  |
| 17    | Allagadda       | 20.00                 | Existing WtC         | 11.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 5.00               | 90%                  |
| 18    | Rayadurgam      | 30.00                 | Existing WtC         | 18.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 8.00               | 90%                  |
| 19    | Puttaparty      | 15.00                 | Existing WtC         | 8.00                 | 100%                 | Connected to Cement Factories | 3.00              | Established | 4.00               | 90%                  |
| 20    | Yemmiganur      | 46.00                 | CNG – Adoni          | 23.00                | 100%                 | Connected to Cement Factories | 8.00              | Established | 15.00              | 90%                  |
| 21    | Anantapur       | 131.00                | Windrow composting   | 81.00                | 100%                 | Connected to Cement Factories | 20.00             | Established | 30.00              | 90%                  |
| 22    | Atmakur K       | 22.00                 | Windrow composting   | 13.00                | 100%                 | Connected to Cement Factories | 3.00              | Established | 6.00               | 90%                  |

| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 23    | Badvel          | 35.00                 | ISWM Functional      | 20.00                | 100%                 | Connected to Cement Factories | 6.00              | Established | 9.00               | 90%                  |
| 24    | Dhone           | 29.00                 | Windrow composting   | 18.00                | 100%                 | Connected to Cement Factories | 5.00              | Established | 6.00               | 90%                  |
| 25    | Markapur        | 35.00                 | Existing WtC         | 19.00                | 100%                 | WtE Guntur                    | 14.00             | Established | 2.00               | 90%                  |
| 26    | Giddalur        | 19.00                 | Existing WtC         | 11.00                | 100%                 | Connected to Cement Factories | 3.00              | Established | 5.00               | 90%                  |
| 27    | Kanigiri        | 22.00                 | Existing WtC         | 12.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 2.00               | 90%                  |
| 28    | Chirala         | 42.00                 | Existing WtC         | 25.00                | 100%                 | WtE Guntur                    | 15.00             | Established | 2.00               | 90%                  |
| 29    | Gudivada        | 58.00                 | Windrow composting   | 32.00                | 100%                 | WtE Guntur                    | 23.00             | Established | 3.00               | 90%                  |
| 30    | Palamaneru      | 25.00                 | Existing WtC         | 15.00                | 100%                 | Connected to Cement Factories | 3.00              | Established | 7.00               | 90%                  |
| 31    | Punganur        | 27.00                 | Existing WtC         | 16.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 7.00               | 90%                  |
| 32    | Madanpalle      | 67.00                 | Existing CNG         | 29.00                | 100%                 | Connected to Cement Factories | 11.00             | Established | 28.00              | 90%                  |
| 33    | Sullurpet       | 22.00                 | Existing WtC         | 12.00                | 100%                 | WtE Guntur                    | 7.00              | Established | 3.00               | 90%                  |
| 34    | Srikakulam      | 65.00                 | ISWM Functional      | 35.00                | 100%                 | WtE Vizag                     | 26.00             | Established | 3.00               | 90%                  |

| S. No | Name of the ULB         | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-------------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                         |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 35    | Palakonda               | 16.00                 | Windrow composting   | 8.00                 | 100%                 | WtE Vizag                     | 6.00              | Established | 2.00               | 90%                  |
| 36    | Vizianagaram            | 119.00                | ISWM Functional      | 65.00                | 100%                 | WtE Vizag                     | 48.00             | Established | 6.00               | 90%                  |
| 37    | Parvathipuram           | 26.00                 | Windrow composting   | 14.00                | 100%                 | WtE Vizag                     | 9.00              | Established | 3.00               | 90%                  |
| 38    | Nellimarla              | 14.00                 | Windrow composting   | 8.00                 | 100%                 | WtE Vizag                     | 5.00              | Established | 1.00               | 90%                  |
| 39    | Gudur N                 | 36.00                 | Windrow composting   | 19.00                | 100%                 | Connected to Cement Factories | 13.00             | Established | 4.00               | 90%                  |
| 40    | Guntakal                | 62.00                 | Windrow composting   | 32.00                | 100%                 | Connected to Cement Factories | 11.00             | Established | 19.00              | 90%                  |
| 41    | Jaggiahpet              | 26.00                 | Windrow composting   | 14.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 4.00               | 90%                  |
| 42    | Jammalamadugu           | 22.00                 | Existing WtC         | 12.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 6.00               | 90%                  |
| 43    | Pedana                  | 16.00                 | Windrow composting   | 9.00                 | 100%                 | WtE Guntur                    | 5.00              | Established | 2.00               | 90%                  |
| 44    | Vuyyuru                 | 20.00                 | Windrow composting   | 11.00                | 100%                 | WtE Guntur                    | 6.00              | Established | 3.00               | 90%                  |
| 45    | Guntur                  | 363.00                | Windrow composting   | 200.00               | 100%                 | WtE Guntur                    | 145.00            | Established | 18.00              | 90%                  |
| 46    | Mangalagiri - Tadepalle | 70.00                 | Windrow composting   | 38.00                | 100%                 | WtE Guntur                    | 28.00             | Established | 4.00               | 90%                  |

| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 47    | Ponnur          | 29.00                 | Existing WtC         | 16.00                | 100%                 | WtE Guntur                    | 9.00              | Established | 4.00               | 90%                  |
| 48    | Chilakaluripet  | 49.00                 | Windrow composting   | 27.00                | 100%                 | WtE Guntur                    | 20.00             | Established | 2.00               | 90%                  |
| 49    | Bapatla         | 34.00                 | Windrow composting   | 19.00                | 100%                 | WtE Guntur                    | 10.00             | Established | 5.00               | 90%                  |
| 50    | Repalle         | 25.00                 | Existing WtC         | 13.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 4.00               | 90%                  |
| 51    | Vinukonda       | 30.00                 | ISWM Functional      | 16.00                | 100%                 | WtE Guntur                    | 9.00              | Established | 5.00               | 90%                  |
| 52    | Macherla        | 28.00                 | Existing WtC         | 19.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 1.00               | 90%                  |
| 53    | Kadapa          | 167.00                | Windrow composting   | 93.00                | 100%                 | Connected to Cement Factories | 28.00             | Established | 46.00              | 90%                  |
| 54    | Dharmavaram     | 62.00                 | Windrow composting   | 35.00                | 100%                 | Connected to Cement Factories | 11.00             | Established | 16.00              | 90%                  |
| 55    | Kadiri          | 43.00                 | Windrow composting   | 24.00                | 100%                 | Connected to Cement Factories | 7.00              | Established | 12.00              | 90%                  |
| 56    | Gooty           | 24.00                 | Windrow composting   | 13.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 7.00               | 90%                  |
| 57    | Hindupur        | 74.00                 | Windrow composting   | 40.00                | 100%                 | Connected to Cement Factories | 13.00             | Established | 21.00              | 90%                  |
| 58    | Kurnool         | 224.00                | Windrow composting   | 128.00               | 100%                 | Connected to Cement Factories | 36.00             | Established | 60.00              | 90%                  |

| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 59    | Kalyandurgam    | 21.00                 | WtC Functional       | 11.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 6.00               | 90%                  |
| 60    | Madakasira      | 12.00                 | Windrow composting   | 7.00                 | 100%                 | Connected to Cement Factories | 2.00              | Established | 3.00               | 90%                  |
| 61    | Machilipatnam   | 89.00                 | Windrow composting   | 49.00                | 100%                 | WtE Guntur                    | 36.00             | Established | 4.00               | 90%                  |
| 62    | Mydukur         | 22.00                 | Windrow composting   | 12.00                | 100%                 | Connected to Cement Factories | 3.00              | Established | 7.00               | 90%                  |
| 63    | Nandigama       | 22.00                 | Windrow composting   | 12.00                | 100%                 | WtE Guntur                    | 7.00              | Established | 3.00               | 90%                  |
| 64    | Nandikotkur     | 23.00                 | Windrow composting   | 13.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 6.00               | 90%                  |
| 65    | Gudur K         | 14.00                 | Windrow composting   | 8.00                 | 100%                 | Connected to Cement Factories | 2.00              | Established | 4.00               | 90%                  |
| 66    | Nandyal         | 98.00                 | Windrow composting   | 59.00                | 100%                 | Connected to Cement Factories | 16.00             | Established | 23.00              | 90%                  |
| 67    | Proddutur       | 79.00                 | Windrow composting   | 44.00                | 100%                 | Connected to Cement Factories | 13.00             | Established | 22.00              | 90%                  |
| 68    | Pulivendula     | 32.00                 | Existing WtC         | 19.00                | 100%                 | Connected to Cement Factories | 5.00              | Established | 8.00               | 90%                  |
| 69    | Rajahmundry     | 168.00                | ISWM Functional      | 92.00                | 100%                 | WtE Vizag                     | 67.00             | Established | 8.00               | 90%                  |
| 70    | Rajampeta       | 23.00                 | Windrow composting   | 13.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 6.00               | 90%                  |

| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                      |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 71    | Rayachoti       | 44.00                 | ISWM Functional      | 26.00                | 100%                 | Connected to Cement Factories | 7.00              | Established | 11.00              | 90%                  |
| 72    | Tadipatri       | 53.00                 | Existing WtC         | 31.00                | 100%                 | Connected to Cement Factories | 9.00              | Established | 13.00              | 90%                  |
| 73    | Tirupati        | 208.00                | Existing CNG         | 110.00               | 100%                 | Connected to Cement Factories | 35.00             | Established | 63.00              | 90%                  |
| 74    | Ongole          | 123.00                | Windrow composting   | 68.00                | 100%                 | WtE Guntur                    | 49.00             | Established | 6.00               | 90%                  |
| 75    | Chimakurthy     | 17.00                 | Existing WtC         | 9.00                 | 100%                 | WtE Guntur                    | 5.00              | Established | 3.00               | 90%                  |
| 76    | Addanki         | 20.00                 | Existing WtC         | 11.00                | 100%                 | WtE Guntur                    | 6.00              | Established | 3.00               | 90%                  |
| 77    | Kandukur        | 28.00                 | Windrow composting   | 14.00                | 100%                 | WtE Guntur                    | 10.00             | Established | 4.00               | 90%                  |
| 78    | Kakinada        | 159.00                | ISWM Functional      | 87.00                | 100%                 | WtE Vizag                     | 64.00             | Established | 8.00               | 90%                  |
| 79    | Vijayawada      | 507.00                | Existing WtC         | 290.00               | 100%                 | WtE Guntur                    | 203.00            | Established | 25.00              | 90%                  |
| 80    | Gollaprolu      | 11.00                 | Windrow composting   | 6.00                 | 100%                 | WtE Vizag                     | 3.00              | Established | 2.00               | 90%                  |
| 81    | Pithapuram      | 25.00                 | Windrow composting   | 13.00                | 100%                 | WtE Vizag                     | 8.00              | Established | 4.00               | 90%                  |
| 82    | Peddapuram      | 24.00                 | Windrow composting   | 13.00                | 100%                 | WtE Vizag                     | 7.00              | Established | 4.00               | 90%                  |

| S. No | Name of the ULB  | Waste Generated (TPD) | Wet waste processing | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing |                   |             |                    |                      |
|-------|------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-------------|--------------------|----------------------|
|       |                  |                       |                      |                      |                      | RDF                  | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 83    | Samalkota        | 28.00                 | Windrow composting   | 16.00                | 100%                 | WtE Vizag            | 8.00              | Established | 4.00               | 90%                  |
| 84    | Yeleswaram       | 16.00                 | Windrow composting   | 9.00                 | 100%                 | WtE Vizag            | 5.00              | Established | 2.00               | 90%                  |
| 85    | Ramachandrapuram | 21.00                 | Windrow composting   | 12.00                | 100%                 | WtE Vizag            | 6.00              | Established | 3.00               | 90%                  |
| 86    | Mandapeta        | 26.00                 | Windrow composting   | 14.00                | 100%                 | WtE Vizag            | 8.00              | Established | 4.00               | 90%                  |
| 88    | Tuni             | 12.00                 | Windrow composting   | 6.00                 | 100%                 | WtE Vizag            | 4.00              | Established | 2.00               | 90%                  |
| 88    | Mummidivaram     | 26.00                 | Windrow composting   | 14.00                | 100%                 | WtE Vizag            | 8.00              | Established | 4.00               | 90%                  |
| 89    | Amalapuram       | 26.00                 | Existing WtC         | 14.00                | 100%                 | WtE Vizag            | 8.00              | Established | 4.00               | 90%                  |
| 90    | Eluru            | 106.00                | Windrow composting   | 59.00                | 100%                 | WtE Guntur           | 42.00             | Established | 5.00               | 90%                  |
| 91    | Tadepalligudem   | 51.00                 | Windrow composting   | 28.00                | 100%                 | WtE Guntur           | 20.00             | Established | 3.00               | 90%                  |
| 92    | Tanuku           | 44.00                 | Windrow composting   | 24.00                | 100%                 | WtE Guntur           | 13.00             | Established | 7.00               | 90%                  |
| 93    | Palakollu        | 33.00                 | Windrow composting   | 18.00                | 100%                 | WtE Guntur           | 10.00             | Established | 5.00               | 90%                  |
| 94    | Narsapuram       | 29.00                 | Windrow composting   | 16.00                | 100%                 | WtE Guntur           | 9.00              | Established | 4.00               | 90%                  |

| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing            | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|---------------------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                                 |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 95    | Bhimavaram      | 69.00                 | Windrow composting              | 38.00                | 100%                 | WtE Guntur                    | 28.00             | Established | 3.00               | 90%                  |
| 96    | Nidadavole      | 21.00                 | Windrow composting              | 12.00                | 100%                 | WtE Guntur                    | 6.00              | Established | 3.00               | 90%                  |
| 97    | Kovvur          | 19.00                 | Clustered with ISWM Rajahmundry | 10.00                | 100%                 | WtE Vizag                     | 6.00              | Established | 3.00               | 90%                  |
| 98    | JangareddyGudem | 26.00                 | Windrow composting              | 14.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 4.00               | 90%                  |
| 99    | Chittoor        | 92.00                 | Windrow composting              | 55.00                | 100%                 | Connected to Cement Factories | 16.00             | Established | 21.00              | 90%                  |
| 100   | SriKalahasti    | 39.00                 | Windrow composting              | 23.00                | 100%                 | Connected to Cement Factories | 7.00              | Established | 9.00               | 90%                  |
| 101   | Nagari          | 30.00                 | Windrow composting              | 17.00                | 100%                 | Connected to Cement Factories | 6.00              | Established | 7.00               | 90%                  |
| 102   | Puttur          | 26.00                 | Windrow composting              | 15.00                | 100%                 | Connected to Cement Factories | 5.00              | Established | 6.00               | 90%                  |
| 103   | Nellore         | 300.00                | Windrow composting              | 165.00               | 100%                 | WtE Guntur                    | 120.00            | Established | 15.00              | 90%                  |
| 104   | Venkatagiri     | 25.00                 | ISWM Functional                 | 13.00                | 100%                 | WtE Guntur                    | 8.00              | Established | 4.00               | 90%                  |
| 105   | Yerraguntla     | 17.00                 | Windrow composting              | 10.00                | 100%                 | Connected to Cement Factories | 4.00              | Established | 3.00               | 90%                  |
| 106   | Naidupet        | 22.00                 | Windrow composting              | 12.00                | 100%                 | WtE Guntur                    | 7.00              | Established | 3.00               | 90%                  |



| S. No | Name of the ULB | Waste Generated (TPD) | Wet waste processing                        | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|-----------------|-----------------------|---------------------------------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                 |                       |                                             |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 107   | Atmakur N       | 15.00                 | Windrow composting                          | 8.00                 | 100%                 | WtE Guntur                    | 5.00              | Established | 2.00               | 90%                  |
| 108   | Kavali          | 51.00                 | Windrow composting                          | 28.00                | 100%                 | WtE Guntur                    | 20.00             | Established | 3.00               | 90%                  |
| 109   | Kondapalli      | 21.00                 | ISWM Functional                             | 12.00                | 100%                 | WtE Guntur                    | 6.00              | Established | 3.00               | 90%                  |
| 110   | Akiveedu        | 11.00                 | Windrow composting                          | 6.00                 | 100%                 | WtE Guntur                    | 2.00              | Established | 3.00               | 90%                  |
| 111   | Dachepali       | 11.00                 | Clustered with Existing Bio CNG Piduguralla | 6.00                 | 100%                 | WtE Guntur                    | 3.00              | Established | 2.00               | 90%                  |
| 112   | Gurazala        | 9.00                  | Clustered with Existing WtC, Macherla       | 5.00                 | 100%                 | WtE Guntur                    | 3.00              | Established | 1.00               | 90%                  |
| 113   | Darsi           | 12.00                 | Windrow composting                          | 6.00                 | 100%                 | WtE Guntur                    | 4.00              | Established | 2.00               | 90%                  |
| 114   | BuchireddyPalem | 12.00                 | Windrow composting                          | 6.00                 | 100%                 | WtE Guntur                    | 4.00              | Established | 2.00               | 90%                  |
| 115   | Penukonda       | 10.00                 | Clustered with Existing WtC, Puttaparthi    | 5.00                 | 100%                 | Connected to Cement Factories | 2.00              | Established | 3.00               | 90%                  |
| 116   | Bethamcharla    | 14.00                 | Windrow composting                          | 9.00                 | 100%                 | Connected to Cement Factories | 2.00              | Established | 3.00               | 90%                  |
| 117   | Kamlapuram      | 7.00                  | Windrow composting                          | 4.00                 | 100%                 | Connected to Cement Factories | 1.00              | Established | 2.00               | 90%                  |

| S. No | Name of the ULB     | Waste Generated (TPD) | Wet waste processing                    | Plant Capacity (TPD) | Capacity Utilization | Dry Waste Processing          |                   |             |                    |                      |
|-------|---------------------|-----------------------|-----------------------------------------|----------------------|----------------------|-------------------------------|-------------------|-------------|--------------------|----------------------|
|       |                     |                       |                                         |                      |                      | RDF                           | Waste Sent in TPD | MRF         | Plant Capacity TPD | Capacity Utilization |
| 118   | Kuppam              | 15.00                 | Windrow composting                      | 9.00                 | 100%                 | Connected to Cement Factories | 3.00              | Established | 3.00               | 90%                  |
| 119   | Y.S.R. - Tadigadapa | 29.00                 | Clustered with Existing WtC, Vijayawada | 19.00                | 100%                 | WtE Guntur                    | 9.00              | Established | 1.00               | 90%                  |
| 120   | Chintalapudi        | 4.00                  | Windrow composting                      | 4.00                 | 100%                 | WtE Guntur                    | 1.00              | Established | 1.00               | 90%                  |
| 121   | Podili              | 6.00                  | Clustered with Existing WtC, Kanigiri   | 5.00                 | 100%                 | WtE Guntur                    | 2.00              | Established | 1.00               | 90%                  |
| 122   | Alluru              | 9.00                  | Windrow composting                      | 5.00                 | 100%                 | WtE Guntur                    | 3.00              | Established | 1.00               | 90%                  |
| 123   | B.KothaKota         | 6.00                  | Windrow composting                      | 3.00                 | 100%                 | Connected to Cement Factories | 1.00              | Established | 2.00               | 90%                  |

**VI. Bio-medical Waste Management:**

- Total Bio-medical waste generation: 16 Tonns/Day
- No. of Hospitals and Health Care Facilities: 14,255 Nos.

|                                      |   |                                                                                                                                                                                                                                          |
|--------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status of Treatment Facility/ CBMWTF | : | Presently, there are 12 Nos. of Common Bio-medical Waste Treatment and disposal Facilities ( CBMWTFs) operating in the State of Andhra Pradesh for treatment and for disposal of Bio-Medical waste as per the BMW Management Rules 2016. |
|--------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**VII. Hazardous Waste Management:**

- Total Hazardous Waste generation is about: 44,041.953 Tones during the month of December, 2023 and cumulative quantity (April 2022 to December 2023) is approximately 9,21,619.02912 Tones.
- No of industries generating Hazardous Waste: 2748 Nos as per Hazardous Waste inventory, 2021 -22.
- **For the month of December, 2023, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
  - i) Utilizable waste is 25676.547 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
  - ii) Recyclable waste is 2169.826 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
  - iii) Incinerable waste is 295.14 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
  - iv) Land fillable waste is 15900.44 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

**Note:** The above data is obtained from the APEMC online portal. The above data may vary during verification of annual returns submitted by the industry.

- **Details of on-going or proposed TSDF:**

Two common TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

### VIII. Plastic Waste Management:

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total plastic waste generation                                               | 64339.412 TPA<br>(As per Annual Report for the F.Y. 2022-23).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Implementation of Plastic Waste Management Rules, 2016 in Urban Local Bodies | <ul style="list-style-type: none"> <li>• 144 Nos of Producers and 93 Importers, 66 Brand owners &amp; 59 Nos of plastic waste processors are registered in the EPR Portal of CPCB.</li> <li>• The State has issued G.O.Ms.No.349, dated 29.10.2018 for implementation of Plastic Waste Management Rules, 2016 in the ULBs.</li> <li>• The State has released G.O.Ms.No.81, dated 29.11.2022 for implementation of identified Banned Single Use Plastic (SUP) by designating enforcement authorities and stipulating penalties for effective enforcement of PWM Rules.</li> <li>• APPCB along with stake holding depts. has conducted 1,18,533 Special Inspection Drives from July 2022 to November 2023 &amp; seized 62,638.04 Kgs of banned SUP material and levied Rs.166.25 Lakhs on violators.</li> <li>• The plastic waste in Urban Local Bodies is being collected through the Public Health Workers of the ULBs. The segregated plastic waste, which is recyclable, is sent to recyclers i.e., from MRFs and the segregated plastic, which is not suitable for recycling is sent to nearby Cement Plants and also being used in road construction in some ULBs. 43 ULBs have so far, tied up with Cements Plants &amp; 80 ULBs have so far tied up with 2 Waste to Energy Plants to send non-recyclable Plastic Waste.</li> <li>• The manufacture, sale &amp; usage of plastic carry bags of below 120 microns' thickness is banned in the State of Andhra Pradesh. Teams of APPCB jointly with officials from Urban Local Bodies are making inspections and surprise raids to ensure no sale &amp; usage of banned plastic carry bags.</li> <li>• In Visakhapatnam, Vizianagaram, Vijayawada, Kurnool &amp; Tirupati, under extended producer responsibility, Plastic Waste Collection system has been established.</li> <li>• Instructions issued to the Municipal Commissioners of Head Quarter ULBs to conduct stakeholders' meetings under the Chairmanship of the District Collectors to ensure setting up collection centers under EPR in Municipal Corporations &amp; bigger ULBs.</li> </ul> |

**IX. Details of Alternate Treatment Technology being adopted by the State****Details of Faecal Sludge Treatment Plants:**

No. of Completed FSTPs : 7 (115 KLD)

No. of In-progress FSTPs : 84 (1200 KLD)

**IX. (A): Details of Completed FSTPs:**

| S.No.        | Name of ULB | Capacity<br>(in KLD) | Operational Status of FSTP |
|--------------|-------------|----------------------|----------------------------|
| 1            | Narsapur    | 15                   | Operational                |
| 2            | Rajam       | 15                   | Operational                |
| 3            | Palamaneru  | 15                   | Operational                |
| 4            | Bobbili     | 15                   | Operational                |
| 5            | Vinukonda   | 15                   | Operational                |
| 6            | Dhone       | 20                   | Completed                  |
| 7            | Markapur    | 20                   | Completed                  |
| <b>Total</b> |             | <b>115</b>           |                            |

**IX (B): Details of In-Progress FSTPs:**

| S.No | Name of the ULB | Plant Capacity<br>(in KLD) | Expected Date of Completion         |
|------|-----------------|----------------------------|-------------------------------------|
| 1    | Gooty           | 15                         | April-2024                          |
| 2    | Jammalamadugu   | 15                         | April-2024                          |
| 3    | Kadiri          | 25                         | March-2024                          |
| 4    | Kalyanadurgam   | 10                         | March-2024                          |
| 5    | Madakasira      | 5                          | April-2024                          |
| 6    | Pulivendula     | 20                         | 70% Work completed<br>February-2024 |
| 7    | Puttaparthi     | 10                         | April-2024                          |
| 8    | Rayachoti       | 25                         | 70% Work completed<br>February-2024 |
| 9    | Rayadurg        | 20                         | April-2024                          |
| 10   | Allagadda       | 10                         | April-2024                          |
| 11   | Atmakur (K)     | 15                         | May-2024                            |

|    |              |    |                                      |
|----|--------------|----|--------------------------------------|
| 12 | Badvel       | 25 | May-2024                             |
| 13 | Gudur (K)    | 5  | May-2024                             |
| 14 | Mydukuru     | 15 | May-2024                             |
| 15 | Nandikotkur  | 15 | May-2024                             |
| 16 | Yelamanchili | 15 | March-2024                           |
| 17 | Punganur     | 15 | 80% Work completed<br>February -2024 |
| 18 | Rajampeta    | 15 | April-2024                           |
| 19 | Yerraguntla  | 10 | May-2024                             |
| 20 | Atmakur (N)  | 10 | May-2024                             |
| 21 | Giddalur     | 10 | April -2024                          |
| 22 | Gudur (TPT)  | 20 | 25% Work completed<br>March -2024    |
| 23 | Kandukur     | 20 | 10% Work completed<br>March -2024    |
| 24 | Kanigiri     | 15 | April -2024                          |
| 25 | Nagari       | 20 | 25% Work completed<br>March -2024    |
| 26 | Naidupet     | 15 | April -2024                          |
| 27 | Puttur       | 15 | April -2024                          |
| 28 | Sullurpeta   | 15 | 25% Work completed<br>March -2024    |
| 29 | Venkatagiri  | 15 | 30% Work completed<br>March -2024    |
| 30 | Addanki      | 10 | May-2024                             |
| 31 | Bapatla      | 25 | 70% work Completed<br>February-2024  |
| 32 | Chimakurthy  | 10 | May-2024                             |
| 33 | Chirala      | 25 | 80% work Completed<br>February-2024  |
| 34 | Macherla     | 15 | April-2024                           |
| 35 | Mangalagiri  | 25 | May-2024                             |
| 36 | Piduguralla  | 15 | May-2024                             |
| 37 | Ponnur       | 15 | 75% work Completed<br>February-2024  |
| 38 | Repalle      | 15 | April-2024                           |

|    |                  |    |                                   |
|----|------------------|----|-----------------------------------|
| 39 | Sattenapalli     | 15 | April-2024                        |
| 40 | Salur            | 15 | April-2024                        |
| 41 | Amalapuram       | 15 | April-2024                        |
| 42 | Gollaprolu       | 5  | April-2024                        |
| 43 | Kovvur           | 10 | May-2024                          |
| 44 | Mandapeta        | 15 | May-2024                          |
| 45 | Mummidivaram     | 10 | May-2024                          |
| 46 | Peddapuram       | 15 | 30% Work completed<br>March -2024 |
| 47 | Pithapuram       | 15 | February-2024                     |
| 48 | Ramachandrapuram | 15 | March-2024                        |
| 49 | Samalkota        | 15 | March-2024                        |
| 50 | Tuni             | 15 | April-2024                        |
| 51 | Yeleshwaram      | 10 | April-2024                        |
| 52 | Amudalavalasa    | 10 | March -2024                       |
| 53 | Parvathipuram    | 15 | March -2024                       |
| 54 | Ichapuram        | 10 | May -2024                         |
| 55 | Narsipatnam      | 20 | April -2024                       |
| 56 | Nellimarla       | 10 | April -2024                       |
| 57 | Palakonda        | 10 | April -2024                       |
| 58 | Palasa-Kasibugga | 15 | April -2024                       |
| 59 | Kondapalli       | 20 | 25% Work completed<br>March -2024 |
| 60 | Jaggaiahpeta     | 15 | 30% Work completed<br>March -2024 |
| 61 | Nandigama        | 15 | 25% Work completed<br>March -2024 |
| 62 | Jangareddigudem  | 15 | May -2024                         |
| 63 | Nidadavolu       | 15 | May -2024                         |
| 64 | Palacole         | 25 | May -2024                         |
| 65 | Pedana           | 10 | May -2024                         |
| 66 | Tadepalli        | 30 | May -2024                         |
| 67 | Tanuku           | 20 | May -2024                         |
| 68 | Vuyyuru          | 10 | May -2024                         |
| 69 | Nuzvidu          | 20 | May -2024                         |

|    |                    |             |           |
|----|--------------------|-------------|-----------|
| 70 | Tiruvuru           | 10          | May -2024 |
| 71 | Akiveedu           | 10          | May -2024 |
| 72 | Dachepali          | 10          | May -2024 |
| 73 | Gurazala           | 10          | May -2024 |
| 74 | Darsi              | 10          | May -2024 |
| 75 | Buchireddy Palem   | 10          | May -2024 |
| 76 | Penukonda          | 10          | May -2024 |
| 77 | Bethamcharla       | 10          | May -2024 |
| 78 | Kamalapuram        | 10          | May -2024 |
| 79 | Kuppam             | 15          | May -2024 |
| 80 | Y.S.R. -Tadigadapa | 25          | May -2024 |
| 81 | Chintalapudi       | 10          | May -2024 |
| 82 | Podili             | 10          | May -2024 |
| 83 | Alluru             | 10          | May -2024 |
| 84 | B.KothaKota        | 10          | May -2024 |
|    | <b>Total</b>       | <b>1220</b> |           |

It is submitted that owing to disputes in lands identified, there is delay in completion of construction of FSTPs in some ULBs. Those issues will be resolved shortly in co-ordination with the District Administration and progress will be submitted in the ensuing Monthly Progress Reports.

**X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:**

A total 32 No`s of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No`s of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

**XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:**

Commissioner & Director of Municipal Administration has been appointed as a Nodal Officer for Polluted River Stretches as per G.O.Rt.No.103 EFS&T Department Dated: 25-11-2020.



**XII. Details of Meetings carried under the Chairmanship of Chief Secretary in the State/UT:**

A Review meeting was conducted by the Chief Secretary to Government on 12.10.2023 with the officials of Municipal Administration Department, Swachh Andhra Corporation, Engineer-in-Chief (Public Health), APUFIDC, APPCB etc., on solid and liquid waste management and on the Orders of the Hon'ble National Green Tribunal, New Delhi in O.A.No.606 of 2018.

**XIII. Latest water quality of polluted river, its tributaries, drains with flow details:**

- APPCB has been monitoring the 8 (5+3) polluted river stretches at 31 (27+4) locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. (Annexure)

**XIV. Ground Water Regulation:**

The main objective of the Ground Water and Audit Department is to monitor Ground Water regime, scientific Development and management of Ground Water resources in the state. In view of repeated droughts and alarming depletion in groundwater resources, emphasis is laid on efficient water conservation and management. One such measure is the enactment called Andhra Pradesh Water, Tree Act (APWALTA) in 2002. This act is a comprehensive act covering surface and groundwater resources. The act aims to promote water conservation, enhance tree cover and regulate the exploitation and use of ground and surface water. The act empowered the State Government to appoint a State Level Authority viz., Andhra Pradesh Water, Land and Tree Authority.

The Authority has the mandate to promote water conservation, enhance tree cover, regulate exploitation of ground and surface water, make regulations for the functioning of the authorities at District and Mandal Level (administrative units within Districts). The Groundwater Department is providing necessary technical inputs to the authority whenever requested for effective implementation of the Act.

**Periodic Assessment of Ground Water Resources:**

Ground Water Resources Assessment is being carried out periodically under the guidelines of the State Level Committee (SLC) on Groundwater Assessment at State Level and under the overall supervision of the Central Level Expert Group based on the norms and guidelines of the GEC-2015 methodology. Such exercise has been taken up recently for the year 2021-22. The assessment involves comparing of annual extractable Groundwater Resources, total annual Groundwater extraction and the % of utilization with respect to

annual extractable resource i.e. stage of development for all 18,376 villages, 667 Mandals and 748 micro basins in the State.

Out of all the states in the country only Andhra Pradesh and Telangana states are doing this assessment taking village as basic assessment unit rest of the states are doing the exercise taking Mandal as basic assessment unit. Based on the computation assessment units i.e., Villages are categorized as Over Exploited where the groundwater extraction is > 100%, critical where the extraction between 90-100%, semi-critical where the extraction is 70- 90 % and Safe where the extraction is <70%. of the Availability.

After every periodic assessment the Government come up with a notification listing over exploited villages and ban further exploitation of Groundwater and sand mining in these villages. The below given table gives the region wise classification of these villages in the State. That implies no new permissions to drill bore wells be entertained in these villages.

**Number of Mandals and Villages notified as over-exploited in Andhra Pradesh**

(as per GEC-2023)

| <b>Region</b> | <b>No. of Over Exploited Mandals</b> | <b>No. of Notified OE Villages</b> |
|---------------|--------------------------------------|------------------------------------|
| Coastal       | 5                                    | 126                                |
| Rayalaseema   | 5                                    | 62                                 |
| <b>Total</b>  | <b>10</b>                            | <b>188</b>                         |

**XV. Good Irrigation practices being adopted by the State:**

The Ground Water and Water Audit Department is not directly involved in execution of the Water Conservation and rainwater harvesting in the state. However, the inferences drawn from the activities of the Ground Water and Water Audit Department are disseminated to the line departments, planners, stake holders for taking appropriate management measures for optimal utilization and sustainable development of Groundwater Resource.

- **Groundwater Quality:**

The Ground Water and Water Audit Department collect Pre and Post monsoon water samples from the permanent monitoring stations and analyze the samples for major cations and anions as to assess irrigation suitability. The Rural Water Supply (RWS) Department is having the appropriate laboratory equipment to analyze all parameters at regional level as the department is specialized in dealing with the issues related to drinking water Parameters. The Pollution Control Board possess the requisite equipment to analyze all the parameters to know the major pollution hotspots and to study the periodical variations, particularly in industrial area.

- **Groundwater Charging:**

Not charging any Groundwater extraction charges as per present policies and legislations However the process of implementation of Groundwater extraction charges for industrial use is under process.

**XVI. Rain Water Harvestings:**

**XVII. Demarcation of Floodplain and removal of illegal encroachments:**

**XVIII. Maintaining minimum e-flow of river:**

**XIX. Plantation activities along the rivers:**

**XX. Development of Biodiversity Parks:**

The A.P. State Biodiversity Board have approved a vision plan and perspective plan in its meeting held on 28.07.2020 wherein it has agreed to set up Biodiversity Parks and Digital Museums in 7 districts out of 26 districts in the State to showcase the ecosystems, fauna and flora of Andhra Pradesh and to bring awareness and interest on the ecology and conservation of biodiversity among the general public especially for the student community.

Out of 7 parks proposed the Government have permitted the District Collector, YSR District, Kadapa to handed over 6 Acres of land at Chinnachowk Village, Kadapa Rural Mandal. The A.P. Greening & Beautification Corporation is taking up the works of Biodiversity Park, remaining 6 parks are in process.

As a part of establishment of Biodiversity Digital Museums, the A.P. State Biodiversity Board have entered into an agreement with M/s. KELTRON, Tiruvananthapuram a Government of Kerala Undertaking for supply of Digital Kiosks of 32" 2nos and 42" 1no to each digital museum which displays the world biodiversity,

Indian Biodiversity and State Biodiversity in particular to that area in two languages i.e., English and Telugu. It also provides Play Station, Quiz and Other child interested games related to Ecology. Further, the A.P. State Biodiversity Board have also designed and ordered models and wall panels to display the Andhra Pradesh Ecology Systems in FRP made along with a 10 x 6 size display table and clear acrylic box and wall panels reflecting fauna and flora of A.P, Biodiversity acts printed on Vinyl with lamination, pasting of Vinyl to ACP panel and framing including computer design of 5' x 3' size of 10nos to each museum. All the 7 museums were located in Government buildings identified by concerned Municipal Corporations within the city limits.

The Andhra Pradesh State Bio Diversity Board have taken initiation on the orders of Hon'ble National Green Tribunal (NGT), New Delhi and also as per the directions of the Secretary, Jala Shakti, Government of India during the 15<sup>th</sup> Central Monitoring Committee meeting held on 10.01.2023 regarding the action Plan relating to conservation of biodiversity, setting up of biodiversity parks on flood plains along polluted river stretches.

Accordingly, the Andhra Pradesh State Biodiversity Board in its meeting held on 21.11.2023 have approved for Establishment of Bio diversity parks on the flood plains of polluted river stretches of Andhra Pradesh, as such a letter has been addressed to the concerned District Collectors of the five identified polluted River Stretches of Andhra Pradesh to identify at least 20.00 Acres of land to establish biodiversity parks and explaining the necessity and also benefits of the establishments of the bio diversity parks in the river plains taking the Yamuna Bio diversity park developed by DDA on the floods plains as a modal. It is also appropriate to inform that a letter has been addressed to prof. .C.R Babu, who is the architect of Yamuna Biodiversity park and other seven parks in New Delhi to identify possibilities to establish bio Diversity parks in the river plains of Andhra Pradesh vide this office letter no: 1221/NGT/2023, Dated: 13.12.2023.

## **Conservation Activities:**

### **1) Home Herbal Garden:**

The National Medicinal Plant Board, New Delhi have sanctioned projects on conservation of Nurseries namely, Home Herbal Garden (HHG) and other one nursery activities. The APSBB have procured and raised nurseries for supply of plants as proposed by the NMPB to supply to the households about 7,80,000 plants are proposed

for 13,000 household beneficiaries in 13 districts of A.P. Each district is selected 10 Mandals and in each Mandal 10 villages and in each village 10 beneficiaries totalling to 13,000 beneficiaries as in 1st phase. Till now, 5,89,300 plants were distributed to the beneficiaries.

**2) Nurseries:**

The National Medicinal Plant Board, New Delhi have sanctioned nursery project to APSBB for raising 7,80,000 bag plant nurseries in 13 districts of Andhra Pradesh out of 13 districts nurseries raised in 11 districts, each nursery consisting of 60,000 bag plants which are to be distributed to the identified beneficiaries of the Grama Sabhas. About 2,28,930 nursery plants were distributed till now under the scheme.

**3) Other Nurseries:**

The APSBB have raised and procured bag plants of 1,14,000 with ABS funds available and out of the scheme 51,000 bag plants were distributed so far to the identified beneficiaries.

**4) Awareness programmes:**

The APSBB have created massive awareness programmes to the BMCs, Officials and general public (especially targeting student community) in the past 2.5 years through physical and virtual mode. Most of the Programmes are virtually organised due to Covid pandemic and created awareness among all sections of public. It also taken up printing of leaflets, brochures, knowledge material and widely distributed through BMCs of all the levels and also by conducting awareness programmes for all stakeholders.

The APSBB have also produced documentary films under the series a window to the A.P. State Biodiversity, about 7 films on wetlands, dry lands, Mada forests, grass lands and Forest Ecology also on HHG, the experiences of biodiversity conservers in the society.

**5) CAAP and ICAAP Activities:**

As a part of Operationalization of BMCs the APSBB have designed a programme namely Core Activities Action Plan (CAAP) In all BMCs in the State by identifying 15 core activities and selected 551 Mandal Biodiversity Coordinators out of 661 Mandals and organized to open Local Biodiversity fund (LBF) accounts in BMCs on joint operation mode.

To make a model BMCs an Intensive Core Activities Action Plan (ICAAP) with 10 core activities in 78 Mandals of 661 Mandals by taking 20 villages in each Mandal to operate the ICAAP. The 78 Mandals were divided into 26 clusters consisting of 3 Mandals in each cluster to implement the ICAAP activities. In IACCP activities raising nurseries of 1 lakh bag plants in each cluster, establishment of Mandal Biodiversity Park/Raasi Vanam/ Nakshatra Vanam/ Butterfly Park/Smruthi Vanam etc., of 1 Acre in each Mandal. Promotion of Organic farming and land races, cultivation of Wild variety crops, Promotion of unique animal breed, Identification of BHS etc., are included in the ICAAP.

**XXI. Reuse of Treated Water:**

9 ULBs Utilizing Re-Use of Treated Waste Water

| S.No | Name of the ULB   | Installed Capacity<br>(in MLD) | Qty of treated<br>sewage utilised<br>(in MLD) |
|------|-------------------|--------------------------------|-----------------------------------------------|
| 1    | 2                 | 3                              | 4                                             |
| 1    | Visakhapatnam     | 233.00                         | 85.93                                         |
| 2    | Rajamahendravaram | 30.00                          | 20.00                                         |
| 3    | Tirupathi         | 50.00                          | 33.00                                         |
| 4    | Narsaraopeta      | 15.55                          | 8.50                                          |
| 5    | Tadipatri         | 11.50                          | 6.50                                          |
| 6    | Puttaparthi       | 1.50                           | 0.30                                          |
| 7    | Kurnool           | 2.40                           | 0.096                                         |
| 8    | Kadapa            | 20.00                          | 10.00                                         |
| 9    | Pulivendula       | 10.00                          | 2.50                                          |
| 10   | Yemmiganuru       | 19.80                          | 5.00                                          |
| 11   | Ongole            | 15.00                          | 15.00                                         |
|      | <b>Total</b>      | <b>373.95</b>                  | <b>186.83</b>                                 |

**XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

2 River stretches are identified as Model Rivers. i.e. Under Category - IV River Tungabhadra & under Category – V River Krishna.

**XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:

**XXIV.** Regulation of Mining Activities in the State/UT:

**XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

\*\*\*

## **Water Quality Status Of Polluted River Stretches in Andhra Pradesh - 2023**

### **I. River Godavari:**

Andhra Pradesh Pollution Control Board is monitoring water quality of river Godavari at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| <b>S. No.</b> | <b>Code</b> | <b>Location Point</b>                                                                                |
|---------------|-------------|------------------------------------------------------------------------------------------------------|
| 1             | 4367        | Koundinyamukti (Kukunur) border point between Andhra Pradesh & Telangana States, West Godavari Dist. |
| 2             | 4359        | After confluence with Sabari at Kunavaram (waddigudem), East Godavari Dist.                          |
| 3             | 0014        | Polavaram, West Godavari Dist.                                                                       |
| 4             | 1218        | Upstream of Rajahmundry at Kumaradevam                                                               |
| 5             | 2370        | At Rajahmundry Upstream of Nalla channel                                                             |
| 6             | 2371        | At Rajahmundry Downstream of Nalla channel                                                           |
| 7             | 1219        | Downstream of Rajahmundry at Dhawaleswaram                                                           |
| 8             | 4365        | Upstream of Narasapuram town before confluence with sewage, West Godavari Dist.                      |
| 9             | 4366        | Downstream of Narasapuram town after confluence with town sewage, West Godavari Dist.                |
| 10            | 4358        | Near GMC Balayogi bridge, Govalanka, East Godavari Dist.                                             |

**Month-wise data of water quality of river Godavari, 2023**

| Parameter | Code | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Standard  |         |           |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---------|-----------|
|           |      |      |      |      |      |      |      |      |      |      |      |      |      | Class A   | Class B | Class C   |
| pH        | 4367 | 8.12 | 7.89 | 8.4  | 7.83 | 8.30 | 8.36 | 8.27 | Rain | 8.05 | 7.92 | 8.42 | 8.02 | 6.0 - 8.5 |         | 6.0 – 9.0 |
|           | 4359 | 8.3  | 8.34 | 8.01 | 8.15 | 8.35 | 8.35 | 8.45 | 7.17 | 7.89 | 8.39 | 7.98 | 7.64 |           |         |           |
|           | 0014 | 7.9  | 8.29 | 7.89 | 7.87 | 8.25 | 8.99 | 8.37 | 7.69 | 7.83 | 7.95 | 7.85 | 7.58 |           |         |           |
|           | 1218 | 7.91 | 8.3  | 7.89 | 7.99 | 7.30 | 8.32 | 8.32 | 7.42 | 6.61 | 8.05 | 7.52 | 8.25 |           |         |           |
|           | 2370 | 8.01 | 7.71 | 7.37 | 7.56 | 7.62 | 8.34 | 8.15 | 7.80 | 6.27 | 7.76 | 7.66 | 7.41 |           |         |           |
|           | 2371 | 8.07 | 7.61 | 7.48 | 7.55 | 7.71 | 8.37 | 8.11 | 7.70 | 6.40 | 8.02 | 7.52 | 7.38 |           |         |           |
|           | 1219 | 8.32 | 7.5  | 7.41 | 7.58 | 7.99 | 8.47 | 8.47 | 7.53 | 6.55 | 7.94 | 7.54 | 7.51 |           |         |           |
|           | 4365 | 8.25 | 8.31 | 8.42 | 8.02 | 7.47 | 8.39 | 7.49 | 8.20 | 8.36 | 8.13 | 8.42 | 6.11 |           |         |           |
|           | 4366 | 7.65 | 7.5  | 8.02 | 7.32 | 7.49 | 7.70 | 7.45 | 8.22 | 8.13 | 7.9  | 7.85 | 7.52 |           |         |           |
|           | 4358 | 7.92 | 7.62 | 7.57 | 7.49 | 7.13 | 7.50 | 7.39 | 7.53 | 6.84 | 8.09 | 7.34 | 7.88 |           |         |           |
| DO        | 4367 | 6.5  | 7.2  | 6.3  | 7.0  | 7.5  | 6.2  | 7.2  | Rain | 7.2  | 7.8  | 6.2  | 7.5  | 6.0       | 5.0     | 4.0       |
|           | 4359 | 7.8  | 7.0  | 6.8  | 7.2  | 7.2  | 6.4  | 7.2  | 6.2  | 7.0  | 7.1  | 6.4  | 6.2  |           |         |           |
|           | 0014 | 6.8  | 7.2  | 7.4  | 7.2  | 7.5  | 6.2  | 6.2  | 7.5  | 6.0  | 7.8  | 6.4  | 7.5  |           |         |           |
|           | 1218 | 6.9  | 7.1  | 7.2  | 7.1  | 7.5  | 7    | 7.2  | 7.3  | 7.6  | 7.4  | 7.3  | 7.2  |           |         |           |
|           | 2370 | 7.1  | 7.0  | 6.8  | 6.9  | 7.0  | 6.9  | 7.0  | 6.7  | 7.5  | 7.4  | 7.2  | 7.4  |           |         |           |
|           | 2371 | 6.8  | 6.1  | 6.2  | 6.8  | 6.2  | 6.7  | 7.1  | 6.5  | 7.2  | 7.1  | 7.1  | 6.8  |           |         |           |
|           | 1219 | 6.9  | 6.6  | 6.4  | 7.0  | 6.5  | 7    | 7.1  | 6.6  | 7.2  | 7.4  | 7.2  | 7.4  |           |         |           |
|           | 4365 | 6.4  | 6.8  | 7.4  | 6.7  | 8.1  | 5.4  | 5.9  | 6.5  | 6.4  | 7.4  | 6.2  | 6.5  |           |         |           |
|           | 4366 | 6.3  | 6.5  | 7.2  | 6.8  | 7.2  | 5.6  | 5.5  | 5.8  | 6.2  | 7.2  | 6.0  | 5.0  |           |         |           |
|           | 4358 | 6.8  | 6.0  | 6.2  | 7.2  | 6.0  | 6.6  | 7.2  | 6.7  | 7.4  | 6.8  | 7.0  | 7.2  |           |         |           |
| BOD       | 4367 | 2    | 2.1  | 1.4  | 1.1  | 2    | 2.2  | 2.1  | Rain | 1.3  | 2.6  | 1.3  | 2.0  | 2.0       | 3.0     | 3.0       |
|           | 4359 | 1.8  | 1.8  | 2.0  | 2.0  | 1.3  | 2.1  | 1.9  | 2.3  | 2.0  | 2.0  | 2.0  | 1.4  |           |         |           |
|           | 0014 | 1.6  | 2.0  | 2.4  | 1.2  | 2.0  | 1.4  | 2.2  | 2.4  | 2.6  | 2.1  | 1.6  | 2.0  |           |         |           |
|           | 1218 | 1.8  | 2.1  | 2.2  | 2.2  | 2    | 2    | 2.2  | 2    | 1.6  | 2.4  | 2.0  | 2.0  |           |         |           |
|           | 2370 | 2    | 2    | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.4  | 1.8  | 2.0  | 2.0  | 2.2  |           |         |           |
|           | 2371 | 2.2  | 2.2  | 2.4  | 2.2  | 2.2  | 2.4  | 2.2  | 2.3  | 2.0  | 2.4  | 2.2  | 2.2  |           |         |           |
|           | 1219 | 2.2  | 2.2  | 2.2  | 2.2  | 2.4  | 2.2  | 2.0  | 2.2  | 2.0  | 2.2  | 2.0  | 2.2  |           |         |           |
|           | 4365 | 2    | 1.8  | 2.1  | 2.4  | 2.2  | 2.1  | 2.6  | 2.5  | 2.0  | 2.2  | 1.2  | 2.0  |           |         |           |
|           | 4366 | 2.2  | 2    | 2.6  | 2.1  | 2.3  | 2.4  | 2.9  | 2.8  | 2.1  | 2.8  | 1.0  | 1.9  |           |         |           |
|           | 4358 | 2.4  | 2.2  | 2.4  | 2.0  | 2.2  | 2.2  | 2.0  | 2.2  | 2.2  | 2.8  | 2.2  | 2.2  |           |         |           |



|                |      |       |       |       |       |       |       |       |      |     |     |       |      |            |     |      |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-------|------|------------|-----|------|
| Total Coliform | 4367 | 150   | 150   | 120   | 210   | 150   | 120   | 150   | Rain | 93  | 93  | 64    | 75   | 50         | 500 | 5000 |
|                | 4359 | 39    | 21    | 64    | 43    | 64    | 68    | 43    | 93   | 93  | 20  | 93    | 120  |            |     |      |
|                | 0014 | 120   | 120   | 150   | 150   | 210   | 240   | 150   | 120  | 120 | 75  | 64    | 64   |            |     |      |
|                | 1218 | 75    | 75    | 150   | 120   | 120   | 150   | 120   | 150  | 150 | 150 | 93    | 120  |            |     |      |
|                | 2370 | 210   | 150   | 210   | 120   | 210   | 120   | 150   | 120  | 120 | 210 | 210   | 120  |            |     |      |
|                | 2371 | 210   | 210   | 240   | 150   | 240   | 150   | 210   | 210  | 210 | 150 | 240   | 150  |            |     |      |
|                | 1219 | 120   | 93    | 120   | 240   | 460   | 210   | 240   | 150  | 150 | 150 | 150   | 120  |            |     |      |
|                | 4365 | 240   | 120   | 210   | 93    | 120   | 150   | 210   | 240  | 240 | 240 | 150   | 120  |            |     |      |
|                | 4366 | 210   | 240   | 240   | 210   | 240   | 210   | 460   | 460  | 460 | 210 | 240   | 210  |            |     |      |
|                | 4358 | 240   | 150   | 150   | 75    | 93    | 75    | 64    | 43   | 43  | 150 | 43    | 64   |            |     |      |
| Fecal Coliform | 4367 | 7     | 4     | 3     | 9     | 9     | 7     | 4     | Rain | 3   | 15  | 3     | 7    | ---        | 500 | ---  |
|                | 4359 | 9     | 3     | 4     | 3     | 4     | 4     | <3    | <3   | <3  | 3   | 4     | 4    |            |     |      |
|                | 0014 | 7     | 14    | 7     | 9     | 7     | 9     | 4     | 7    | 7   | 9   | 4     | 3    |            |     |      |
|                | 1218 | 9     | 9     | 9     | 4     | 7     | 7     | 4     | 7    | 7   | 15  | 7     | 4    |            |     |      |
|                | 2370 | 11    | 7     | 11    | 7     | 7     | 7     | 4     | 4    | 4   | 28  | 4     | 3    |            |     |      |
|                | 2371 | 4     | 20    | 14    | 7     | 11    | 9     | 4     | 7    | 7   | 21  | 7     | 4    |            |     |      |
|                | 1219 | 14    | 15    | 9     | 11    | 11    | 9     | 11    | 4    | 4   | 9   | 7     | 4    |            |     |      |
|                | 4365 | 21    | 14    | 11    | 9     | 9     | 7     | 7.0   | 9    | 9   | 4   | 7     | 4    |            |     |      |
|                | 4366 | 15    | 7     | 14    | 11    | 14    | 11    | 14    | 11   | 11  | 15  | 11    | 7    |            |     |      |
|                | 4358 | 7     | 7     | 9     | 4     | 7     | 4     | 3.0   | 3    | 3   | 7   | 7     | 4    |            |     |      |
| TDS            | 4367 | 168   | 141   | 94    | 142   | 90    | 140   | 93    | Rain | 144 | 163 | 196   | 168  | 500 - 2000 |     |      |
|                | 4359 | 63    | 50    | 44    | 62    | 62    | 64    | 62    | 76   | 65  | 82  | 98    | 105  |            |     |      |
|                | 0014 | 165   | 158   | 104   | 114   | 80    | 156   | 92    | 135  | 152 | 158 | 185   | 150  |            |     |      |
|                | 1218 | 168   | 160   | 108   | 152   | 410   | 212   | 126   | 130  | 170 | 184 | 225   | 180  |            |     |      |
|                | 2370 | 227   | 152   | 125   | 224   | 198   | 180   | 225   | 204  | 210 | 206 | 228   | 215  |            |     |      |
|                | 2371 | 180   | 146   | 128   | 110   | 125   | 160   | 133   | 164  | 170 | 190 | 204   | 190  |            |     |      |
|                | 1219 | 172   | 160   | 124   | 88    | 111   | 144   | 118   | 152  | 160 | 186 | 175   | 180  |            |     |      |
|                | 4365 | 168   | 124   | 96    | 122   | 11800 | 25276 | 22300 | 208  | 210 | 164 | 2520  | 442  |            |     |      |
|                | 4366 | 21648 | 27456 | 30120 | 21450 | 11620 | 28131 | 27340 | 620  | 264 | 246 | 10124 | 4180 |            |     |      |
|                | 4358 | 196   | 23496 | 30332 | 30250 | 30115 | 16595 | 3100  | 182  | 136 | 170 | 850   | 3836 |            |     |      |

**Note: (1)** All values are expressed in mg/L except pH & Total Coliform value. Total Coliform is expressed in MPN count / 100 ml.

**Remarks:** BOD & fecal coliform values found to be within the standard limits stipulated for bathing at all the locations except at U/S & D/S of Narsapuram town. High TDS values at Narsapuram Downstream & GMC Balayogi bridge, Govalanka could be attributed to the intrusion of backwaters of Bay of Bengal.

## 2. River Krishna:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Krishna at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                                              |
|--------|------|-------------------------------------------------------------|
| 01     | 1175 | Sangameswaram, Kurnool Dist.                                |
| 02     | 3083 | Srisailam, Kurnool Dist.                                    |
| 03     | 4381 | After confluence with river Musi at Vadapalli, Guntur Dist. |
| 04     | 1786 | Vedadri, Krishna Dist.                                      |
| 05     | 1787 | Amaravathi, Guntur Dist.                                    |
| 06     | 0025 | Prakasham barrage, Vijayawada, Krishna Dist.                |
| 07     | 4375 | Pavitrasangamam at Ibrahimpatnam, Krishna Dist.             |
| 08     | 1782 | Hamsaladeevi, Krishna Dist.                                 |

### Month-wise data of water quality of river Krishna, 2023:

| Parameters | Code | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | *Standard |           |         |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------|---------|
|            |      |      |      |      |      |      |      |      |      |      |      |      |      | Class A   | Class B   | Class C |
| pH         | 1175 | 6.9  | 7.4  | 8.2  | 7.3  | 7.5  | 7.3  | 7.3  | 7.6  | 7.8  | 7.5  | 7.7  | 7.9  | 6.0 - 8.5 | 6.0 – 9.0 |         |
|            | 3083 | 7.1  | 7.9  | 6.9  | 7.7  | 7.4  | 7.9  | 7.8  | 7.6  | 7.8  | 8.0  | 7.8  | 7.7  |           |           |         |
|            | 4381 | 7.89 | 7.80 | 7.88 | 8.10 | 7.56 | 7.68 | 7.71 | 7.93 | 7.24 | 7.21 | 7.83 | 7.72 |           |           |         |
|            | 1786 | 7.92 | 7.91 | 7.83 | 7.98 | 7.52 | 8.15 | 7.85 | 7.72 | 7.86 | 7.86 | 7.23 | 7.36 |           |           |         |
|            | 1787 | 7.83 | 7.94 | 7.96 | 8.06 | 7.61 | 7.26 | 7.63 | 7.51 | 7.25 | 7.84 | 8.04 | 7.39 |           |           |         |
|            | 0025 | 7.53 | 8.08 | 7.87 | 7.92 | 7.40 | 7.50 | 7.68 | 7.19 | 7.50 | 7.73 | 7.28 | 7.34 |           |           |         |
|            | 4375 | 7.60 | 7.74 | 7.67 | 7.94 | 8.05 | 8.04 | 7.58 | 7.50 | 7.50 | 7.70 | 7.20 | 7.28 |           |           |         |
|            | 1782 | 7.63 | 8.18 | 7.92 | 7.84 | 7.91 | 8.10 | 7.83 | 7.63 | 7.80 | 7.86 | 7.68 | 7.80 |           |           |         |

|                       |      |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |
|-----------------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| <b>DO</b>             | 1175 | 5.6 | 5.7 | 5.4 | 5.5 | 5.4 | 5.7  | 5.3 | 6.2 | 6.1 | 5.9 | 6.0 | 5.8 | 6.0 | 5.0 | 4.0  |
|                       | 3083 | 5.8 | 5.8 | 5.6 | 5.4 | 5.3 | 5.8  | 5.7 | 5.9 | 5.8 | 6   | 6.1 | 6.2 |     |     |      |
|                       | 4381 | 7.3 | 7.6 | 7.5 | 7.4 | 7.2 | 7.1  | 7.3 | 7.4 | 7.2 | 7.3 | 7.1 | 6.9 |     |     |      |
|                       | 1786 | 7.4 | 7.3 | 7.6 | 7.7 | 7.3 | 7.2  | 7.4 | 7.6 | 7.2 | 7.1 | 7.1 | 7.5 |     |     |      |
|                       | 1787 | 7.3 | 6.9 | 7.2 | 7.6 | 6.9 | 7.3  | 7.6 | 7.7 | 7.1 | 7.4 | 7.1 | 7.2 |     |     |      |
|                       | 0025 | 7.1 | 7.3 | 7.4 | 7.2 | 7.8 | 7.6  | 7.7 | 7.3 | 7.5 | 7.7 | 7.4 | 7.1 |     |     |      |
|                       | 4375 | 7.1 | 7.5 | 7.2 | 7.3 | 7.5 | 7.4  | 7.6 | 7.3 | 7.1 | 7.4 | 7.2 | 7.3 |     |     |      |
|                       | 1782 | 6.9 | 6.4 | 6.3 | 6.4 | 6.1 | 6.4  | 6.9 | 6.8 | 6.7 | 6.5 | 6.7 | 6.6 |     |     |      |
| <b>BOD</b>            | 1175 | 2.0 | 1.8 | 2.0 | 1.2 | 1.0 | 1.8  | 1.5 | 1.7 | 2.0 | 1.3 | 1.3 | 1.5 | 2.0 | 3.0 | 3.0  |
|                       | 3083 | 1.5 | 1.5 | 1.7 | 0.8 | 0.7 | 1.5  | 1.6 | 1.3 | 1.5 | 1.3 | 1.2 | 1.0 |     |     |      |
|                       | 4381 | 2.8 | 2.9 | 2.8 | 2.8 | 2.7 | 2.6  | 2.7 | 2.8 | 2.6 | 2.7 | 2.6 | 2.9 |     |     |      |
|                       | 1786 | 2.8 | 2.8 | 2.7 | 2.6 | 2.8 | 2.7  | 2.5 | 2.8 | 2.7 | 2.6 | 2.4 | 2.6 |     |     |      |
|                       | 1787 | 2.8 | 2.6 | 2.8 | 2.8 | 2.9 | 2.7  | 2.3 | 2.6 | 2.7 | 2.5 | 2.4 | 2.6 |     |     |      |
|                       | 0025 | 2.6 | 2.6 | 2.7 | 2.6 | 2.6 | 2.5  | 2.4 | 2.6 | 2.4 | 2.6 | 2.5 | 2.8 |     |     |      |
|                       | 4375 | 2.7 | 2.8 | 2.6 | 2.6 | 2.5 | 2.6  | 2.5 | 2.2 | 2.4 | 2.6 | 2.4 | 2.5 |     |     |      |
|                       | 1782 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 2.7  | 2.6 | 2.7 | 2.8 | 2.7 | 2.8 | 2.7 |     |     |      |
| <b>Total Coliform</b> | 1175 | 659 | 756 | 921 | 866 | 870 | 1046 | 921 | 689 | 549 | 594 | 613 | 656 | 50  | 500 | 5000 |
|                       | 3083 | 689 | 921 | 816 | 921 | 721 | 756  | 770 | 575 | 525 | 479 | 525 | 649 |     |     |      |
|                       | 4381 | 420 | 470 | 460 | 93  | 89  | 150  | 43  | 120 | 93  | 120 | 150 | 120 |     |     |      |
|                       | 1786 | 470 | 470 | 240 | 64  | 75  | 120  | 150 | 120 | 75  | 120 | 240 | 150 |     |     |      |
|                       | 1787 | 260 | 440 | 460 | 75  | 75  | 120  | 75  | 93  | 120 | 240 | 120 | 150 |     |     |      |
|                       | 0025 | 470 | 460 | 460 | 64  | 75  | 93   | 71  | 64  | 75  | 93  | 120 | 75  |     |     |      |
|                       | 4375 | 440 | 460 | 470 | 64  | 43  | 64   | 75  | 75  | 64  | 75  | 64  | 75  |     |     |      |
|                       | 1782 | 120 | 380 | 210 | 43  | 43  | 93   | 43  | 64  | 43  | 75  | 63  | 75  |     |     |      |

|                                                                                                                                                                                                                                   |      |       |       |       |       |       |      |      |      |      |      |       |       |            |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|------------|-----|-----|
| Fecal Coliform                                                                                                                                                                                                                    | 1175 | 102   | 149   | 102   | 290   | 229   | 303  | 220  | 189  | 177  | 181  | 205   | 194   | ---        | 500 | --- |
|                                                                                                                                                                                                                                   | 3083 | 214   | 343   | 267   | 232   | 222   | 231  | 211  | 177  | 169  | 152  | 196   | 243   |            |     |     |
|                                                                                                                                                                                                                                   | 4381 | 14    | 14    | 15    | 4     | 7     | 28   | 7    | 14   | 11   | 21   | 39    | 21    |            |     |     |
|                                                                                                                                                                                                                                   | 1786 | 12    | 15    | 7     | 4     | 4     | 14   | 28   | 23   | 14   | 21   | 14    | 14    |            |     |     |
|                                                                                                                                                                                                                                   | 1787 | 14    | 15    | 21    | 7     | 9     | 39   | 11   | 10   | 14   | 15   | 9     | 11    |            |     |     |
|                                                                                                                                                                                                                                   | 0025 | 11    | 4     | 15    | 9     | 11    | 14   | 11   | 7    | 11   | 11   | 14    | 11    |            |     |     |
|                                                                                                                                                                                                                                   | 4375 | 11    | 14    | 14    | 9     | 4     | 11   | 9    | 11   | 10   | 11   | 9     | 9     |            |     |     |
|                                                                                                                                                                                                                                   | 1782 | 4     | 10    | 7     | 4     | 4     | 7    | 9    | 9    | 7    | 11   | 11    | 9     |            |     |     |
| TDS                                                                                                                                                                                                                               | 1175 | 468   | 739   | 1069  | 1132  | 812   | 905  | 710  | 281  | 352  | 422  | 459   | 549   | 500 - 2000 |     |     |
|                                                                                                                                                                                                                                   | 3083 | 378   | 401   | 515   | 442   | 451   | 449  | 465  | 464  | 364  | 336  | 354   | 413   |            |     |     |
|                                                                                                                                                                                                                                   | 4381 | 594   | 576   | 588   | 552   | 517   | 496  | 510  | 414  | 379  | 390  | 452   | 470   |            |     |     |
|                                                                                                                                                                                                                                   | 1786 | 520   | 560   | 530   | 513   | 488   | 460  | 520  | 514  | 520  | 534  | 568   | 540   |            |     |     |
|                                                                                                                                                                                                                                   | 1787 | 424   | 432   | 464   | 460   | 480   | 478  | 432  | 405  | 494  | 518  | 496   | 520   |            |     |     |
|                                                                                                                                                                                                                                   | 0025 | 468   | 458   | 422   | 440   | 450   | 462  | 450  | 410  | 365  | 306  | 422   | 402   |            |     |     |
|                                                                                                                                                                                                                                   | 4375 | 464   | 476   | 478   | 454   | 460   | 474  | 425  | 246  | 236  | 280  | 310   | 257   |            |     |     |
|                                                                                                                                                                                                                                   | 1782 | 15600 | 16620 | 15100 | 16600 | 14010 | 9600 | 4740 | 6380 | 7900 | 5700 | 11180 | 12600 |            |     |     |
| Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.                                                                      |      |       |       |       |       |       |      |      |      |      |      |       |       |            |     |     |
| Remarks: BOD & fecal coliform values found to be within the standard limits stipulated for bathing at all the locations. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal. |      |       |       |       |       |       |      |      |      |      |      |       |       |            |     |     |

### 3. River Tungabhadra:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Tungabhadra at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                                                                                                |
|--------|------|---------------------------------------------------------------------------------------------------------------|
| 01     | 1785 | Manthralayam, Kurnool Dist.                                                                                   |
| 02     | 1174 | Bhavapuram, Kurnool Dist.                                                                                     |
| 03     | 4388 | U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool. |
| 04     | 4389 | D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.                                          |

#### Month-wise data of water quality of river Tungabhadra, 2023

| Parameters | Code | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | *Standard |           |         |
|------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|---------|
|            |      |     |     |     |     |     |     |     |     |     |     |     |     | Class A   | Class B   | Class C |
| pH         | 1785 | 7.7 | 7.3 | 7.6 | 8.0 | 7.9 | 7.8 | 7.7 | 7.8 | 7.5 | 7.6 | 7.9 | 7.4 | 6.0 – 8.5 | 6.0 – 9.0 |         |
|            | 1174 | 7.5 | 7.4 | 8.1 | 7.7 | 7.9 | 7.3 | 7.8 | 7.7 | 7.5 | 7.6 | 7.8 | 8.0 |           |           |         |
|            | 4388 | 7.1 | 7.0 | 7.8 | 7.3 | 6.8 | 7.0 | 7.4 | 7.7 | 7.4 | 7.8 | 7.6 | 7.9 |           |           |         |
|            | 4389 | 7.2 | 7.2 | 7.0 | 7.5 | 7.6 | 7.8 | 7.3 | 7.8 | 7.4 | 7.4 | 7.3 | 7.2 |           |           |         |
| DO         | 1785 | 5.7 | 5.5 | 5.5 | 5.6 | 5.7 | 5.3 | 5.7 | 6.4 | 6.1 | 6.0 | 5.8 | 5.9 | 6.0       | 5.0       | 4.0     |
|            | 1174 | 5.9 | 5.6 | 5.6 | 5.8 | 5.4 | 5.4 | 5.2 | 5.6 | 6.0 | 6.3 | 6.0 | 6.1 |           |           |         |
|            | 4388 | 5.4 | 5.4 | 5.6 | 5.3 | 5.0 | 5.5 | 5.6 | 5.4 | 5.7 | 5.6 | 5.6 | 5.9 |           |           |         |
|            | 4389 | 5.3 | 5.1 | 5.4 | 5.2 | 5.6 | 5.2 | 5.3 | 5.6 | 5.7 | 5.6 | 5.3 | 5.5 |           |           |         |
| BOD        | 1785 | 2.0 | 1.7 | 2.2 | 1.0 | 2.7 | 2.5 | 2.2 | 1.8 | 1.5 | 1.3 | 1.5 | 1.2 | 2.0       | 3.0       | 3.0     |
|            | 1174 | 2.2 | 2.2 | 2.5 | 1.8 | 1.7 | 2.2 | 2.2 | 2.3 | 1.8 | 2.2 | 2.0 | 1.8 |           |           |         |
|            | 4388 | 1.8 | 1.5 | 2.5 | 1.3 | 2.8 | 2.2 | 2.2 | 1.5 | 2.3 | 2.2 | 2.3 | 1.8 |           |           |         |
|            | 4389 | 2.2 | 2.5 | 2.8 | 1.2 | 0.3 | 2.5 | 2.8 | 1.8 | 1.7 | 2.2 | 2.0 | 1.5 |           |           |         |

|                                                                                                                                                                                                                                                                                                         |      |      |      |      |      |      |      |      |      |     |     |      |     |            |     |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|-----|-----|------|-----|------------|-----|------|
| Total Coliform                                                                                                                                                                                                                                                                                          | 1785 | 1046 | 1300 | 1414 | 1553 | 1300 | 1203 | 1120 | 866  | 602 | 629 | 727  | 649 | 50         | 500 | 5000 |
|                                                                                                                                                                                                                                                                                                         | 1174 | 1120 | 1046 | 1120 | 1046 | 1120 | 1203 | 1046 | 921  | 727 | 687 | 613  | 549 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4388 | 1203 | 1046 | 1414 | 1300 | 1553 | 1203 | 1120 | 629  | 613 | 770 | 921  | 756 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4389 | 1414 | 1733 | 1986 | 1733 | 1553 | 1120 | 980  | 727  | 792 | 687 | 727  | 649 |            |     |      |
| Fecal Coliform                                                                                                                                                                                                                                                                                          | 1785 | 615  | 320  | 343  | 408  | 479  | 491  | 312  | 196  | 163 | 214 | 250  | 189 | ---        | 500 | ---  |
|                                                                                                                                                                                                                                                                                                         | 1174 | 479  | 437  | 403  | 420  | 290  | 343  | 278  | 244  | 195 | 177 | 196  | 211 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4388 | 549  | 437  | 368  | 343  | 423  | 472  | 368  | 211  | 198 | 226 | 284  | 162 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4389 | 525  | 575  | 629  | 689  | 420  | 368  | 258  | 208  | 185 | 177 | 199  | 182 |            |     |      |
| TDS                                                                                                                                                                                                                                                                                                     | 1785 | 820  | 866  | 813  | 644  | 886  | 918  | 962  | 905  | 764 | 779 | 814  | 698 | 500 - 2000 |     |      |
|                                                                                                                                                                                                                                                                                                         | 1174 | 887  | 991  | 950  | 1038 | 1056 | 960  | 857  | 887  | 894 | 910 | 856  | 812 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4388 | 953  | 1165 | 1065 | 1052 | 1477 | 1208 | 1009 | 1090 | 934 | 958 | 1005 | 796 |            |     |      |
|                                                                                                                                                                                                                                                                                                         | 4389 | 796  | 930  | 1120 | 1032 | 470  | 768  | 732  | 868  | 774 | 912 | 836  | 859 |            |     |      |
| Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.                                                                                                                                            |      |      |      |      |      |      |      |      |      |     |     |      |     |            |     |      |
| Remarks: BOD & fecal coliform values found to be within the standard limits stipulated for bathing at all the locations. However, the DO values found to be between 4.0 and 5.0 mg/lit. at certain instances at U/S & D/S of Kurnool town. Hence, they may be categorized as Class – C at these points. |      |      |      |      |      |      |      |      |      |     |     |      |     |            |     |      |

#### 4. River Nagavali:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Nagavali at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                               |
|--------|------|----------------------------------------------|
| 01     | 4351 | River Nagavali at Kureru, Vizianagaram Dist. |
| 02     | 1448 | Thotapally, Vizianagaram Dist.               |
| 03     | 4346 | River Nagavali U/S of Srikakulam town.       |
| 04     | 4347 | River Nagavali D/S of Srikakulam town.       |

**Month-wise data of water quality of river Nagavali, 2023**

| Parameters     | Code | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | *Standard |           |         |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------|---------|
|                |      |      |      |      |      |      |      |      |      |      |      |      |      | Class A   | Class B   | Class C |
| pH             | 4351 | 8.2  | 8.31 | 8.23 | 7.66 | 8.26 | 8.13 | 7.46 | 7.76 | 6.80 | 8.17 | 7.69 | 7.18 | 6.0 – 8.5 | 6.0 – 9.0 |         |
|                | 1448 | 8.4  | 8.23 | 8.27 | 7.59 | 7.84 | 8.18 | 7.57 | 7.98 | 6.96 | 8.03 | 7.64 | 7.46 |           |           |         |
|                | 4346 | 7.4  | 8.35 | 8.17 | 7.30 | 7.25 | 7.40 | 6.35 | 8.36 | 7.99 | 7.70 | 6.52 | 8.26 |           |           |         |
|                | 4347 | 8.34 | 8.5  | 8.14 | 7.12 | 7.40 | 7.32 | 6.29 | 7.59 | 7.69 | 7.58 | 6.64 | 7.99 |           |           |         |
| DO             | 4351 | 7.5  | 7    | 7.2  | 6.4  | 6.0  | 5.2  | 5.9  | 6.4  | 6.2  | 6.0  | 5.7  | 6.2  | 6.0       | 5.0       | 4.0     |
|                | 1448 | 6.4  | 6.6  | 7.3  | 6.2  | 6.4  | 6.8  | 5.7  | 6.8  | 6.5  | 6.5  | 6.0  | 7.2  |           |           |         |
|                | 4346 | 7.6  | 6.5  | 6.4  | 7.2  | 6.6  | 6.2  | 5.8  | 6.0  | 6.0  | 4.5  | 6.3  | 6.8  |           |           |         |
|                | 4347 | 8    | 6.3  | 6.3  | 7.0  | 6.4  | 5.8  | 5.4  | 5.7  | 6.4  | 6.2  | 6.0  | 6.9  |           |           |         |
| BOD            | 4351 | 1.4  | 1.4  | 2.6  | 2.0  | 2.2  | 2.4  | 1.7  | 2.9  | 1.2  | 2.3  | 1.0  | 1.1  | 2.0       | 3.0       | 3.0     |
|                | 1448 | 1.2  | 1.8  | 2.4  | 2.7  | 1.9  | 2.2  | 2.8  | 2.2  | 2.0  | 2.4  | 1.3  | 1.2  |           |           |         |
|                | 4346 | 2.6  | 1.3  | 2    | 1.9  | 2.4  | 2.2  | 2.0  | 2.4  | 2.0  | 1.5  | 2.2  | 2.3  |           |           |         |
|                | 4347 | 2.7  | 1.5  | 2.2  | 2.0  | 2.6  | 2.4  | 2.3  | 2.5  | 2.2  | 1.9  | 2.3  | 1.9  |           |           |         |
| Total Coliform | 4351 | 210  | 240  | 240  | 210  | 150  | 210  | 150  | 210  | 210  | 120  | 150  | 120  | 50        | 500       | 5000    |
|                | 1448 | 150  | 120  | 150  | 150  | 120  | 120  | 150  | 120  | 120  | 240  | 93   | 120  |           |           |         |
|                | 4346 | 240  | 210  | 150  | 120  | 150  | 150  | 240  | 210  | 210  | 210  | 240  | 210  |           |           |         |
|                | 4347 | 210  | 240  | 210  | 210  | 240  | 240  | 460  | 240  | 240  | 210  | 240  | 240  |           |           |         |
| Fecal Coliform | 4351 | 20   | 11   | 14   | 9    | 9    | 14   | 7    | 7    | 7    | 4    | 7    | 7    | ----      | 500       | ----    |
|                | 1448 | 20   | 7    | 9    | 9    | 11   | 7    | 9    | 3    | 3    | 7    | 4    | 4    |           |           |         |
|                | 4346 | 7    | 7    | 7    | 9    | 11   | 9    | 7.0  | 9    | 9    | 11   | 7    | 4    |           |           |         |
|                | 4347 | 7    | 15   | 11   | 15   | 14   | 11   | 20   | 11   | 11   | 28   | 11   | 9    |           |           |         |
| TDS            | 4351 | 213  | 176  | 222  | 190  | 320  | 252  | 218  | 128  | 224  | 146  | 195  | 175  | 500-2000  |           |         |
|                | 1448 | 189  | 180  | 224  | 218  | 430  | 236  | 208  | 156  | 172  | 132  | 172  | 170  |           |           |         |
|                | 4346 | 210  | 245  | 228  | 244  | 214  | 240  | 196  | 200  | 210  | 216  | 258  | 212  |           |           |         |
|                | 4347 | 219  | 250  | 230  | 252  | 212  | 220  | 190  | 195  | 192  | 278  | 260  | 205  |           |           |         |

**Note:** All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.

**Remarks:** BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

## 5. River Kundu:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Kundu at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point            |
|--------|------|---------------------------|
| 1      | 2351 | At Nandyal, Kurnool Dist. |

### Month-wise data of water quality of river Kundu, 2023

| Parameters     | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct | Nov | Dec | *Standard  |         |           |
|----------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------------|---------|-----------|
|                |      |      |      |      |      |      |      |      |     |     |     |     | Class A    | Class B | Class C   |
| pH             | 7.1  | 7.7  | 7.6  | 7.1  | 6.9  | 7.3  | 7.3  | 7.1  | 7.3 | 7.1 | 7.4 | 7.6 | 6.0 – 8.5  |         | 6.0 – 9.0 |
| DO             | 5.5  | 5.2  | 5.5  | 5.2  | 5.5  | 3.4  | 4.8  | 5.4  | 5.6 | 5.4 | 5.5 | 5.9 | 6.0        | 5.0     | 4.0       |
| BOD            | 2.3  | 2.5  | 2.8  | 3.3  | 3.3  | 3.6  | 2.9  | 2.8  | 2.3 | 2.2 | 2.3 | 2.2 | 2.0        | 3.0     | 3.0       |
| Total Coliform | 1290 | 1414 | 1733 | 1986 | 1553 | 1733 | 1300 | 1120 | 980 | 866 | 770 | 816 | 50         | 500     | 5000      |
| Fecal Coliform | 501  | 649  | 525  | 593  | 510  | 529  | 403  | 344  | 273 | 284 | 235 | 303 | ---        | 500     | ---       |
| TDS            | 626  | 742  | 851  | 834  | 592  | 712  | 662  | 751  | 512 | 574 | 592 | 662 | 500 - 2000 |         |           |

**Note:** All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.



**CPCB identified three (3 No's) new rivers based on BOD value during year 2019 & 2021 (BOD > 3mg/L)  
In Andhra Pradesh identified following polluted river stretches.**

| S NO | ANDHRA PRADESH STATE                        | RIVER NAME | NWMP STN CODE | LOCATION                                                                                       | MAX BOD OBSERVED (mg/L) |
|------|---------------------------------------------|------------|---------------|------------------------------------------------------------------------------------------------|-------------------------|
| 1    | Priority IV (BOD between 6.1 and 10.0 mg/L) | GOSTANI    | 4372          | RIVER GOSTANI SAMPLE BEFORE CONFLUENCE WITH M/S DELTA PAPER MILL EFFLUENTS, VENDRA, PALAKODERU | 8.6                     |
| 2    | Priority V (BOD between 3.1 and 6.0 mg/L)   | UPPUTERU   | 4379          | RIVER UPPUTERU BEFORE CONFLUENCE WITH SEA, AT CHINAGOLLAPALEM VILLAGE, KRUTHIVENNU (M)         | 3.4                     |
| 3    | Priority I (BOD more than 30.0 mg/L)        | VASISHTA   | 4365          | RIVER VASISHTA (GODAVARI) UPSTREAM OF NARASAPURAM TOWN BEFORE CONFLUENCE OF TOWN SEWAGE        | 5.9                     |
| 4    |                                             |            | 4366          | RIVER VASISHTA (GODAVARI) DOWNSTREAM OF NARASAPURAM TOWN AFTER CONFLUENCE OF TOWN SEWAGE       | 58.0                    |

## 6. River Gostani:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Gostani at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                                                                                  |
|--------|------|-------------------------------------------------------------------------------------------------|
| 1      | 4372 | River Gostani Sample before confluence with M/s Delta Paper Mill Effluents, Vendra, Palakoderu. |

### Month-wise data of water quality of river Gostani, 2023

| Parameters                                                                                                                                                          | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | *Standard  |         |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------------|---------|-----------|
|                                                                                                                                                                     |      |      |      |      |      |      |      |      |      |      |      |      | Class A    | Class B | Class C   |
| pH                                                                                                                                                                  | 7.45 | 7.11 | 7.33 | 7.29 | 7.20 | 7.27 | 7.53 | 8.10 | 7.46 | 7.67 | 7.71 | 7.82 | 6.0 – 8.5  |         | 6.0 – 9.0 |
| DO                                                                                                                                                                  | 0    | 2    | 4.3  | 3.2  | 5.6  | 1.8  | 0.5  | 0.5  | 1.0  | 6.1  | 2.3  | 1.2  | 6.0        | 5.0     | 4.0       |
| BOD                                                                                                                                                                 | 12.2 | 11.4 | 8.4  | 11.8 | 2.5  | 14   | 15   | 5.2  | 4.8  | 4.2  | 4.8  | 4.6  | 2.0        | 3.0     | 3.0       |
| Total Coliform                                                                                                                                                      | 43   | 75   | 240  | 460  | 460  | 210  | 240  | 210  | 210  | 210  | 120  | 150  | 50         | 500     | 5000      |
| Fecal Coliform                                                                                                                                                      | 9    | 9    | 11   | 14   | 11   | 11   | 7    | 4    | 7    | 11   | 11   | 7    | ---        | 500     | ---       |
| TDS                                                                                                                                                                 | 1050 | 2180 | 1530 | 1480 | 1158 | 3852 | 1510 | 980  | 756  | 228  | 1020 | 460  | 500 - 2000 |         |           |
| <b>Note:</b> All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml. |      |      |      |      |      |      |      |      |      |      |      |      |            |         |           |
| <b>Remarks:</b> Fecal Coliform values found to be within the standard limits stipulated for bathing.                                                                |      |      |      |      |      |      |      |      |      |      |      |      |            |         |           |

## 7. River Upputeru:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Upputeru at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                                                                    |
|--------|------|-----------------------------------------------------------------------------------|
| 1      | 4379 | River Upputeru before confluence with Sea at Chinnagollapalem (V), Kruthivenu (M) |

### Month-wise data of water quality of river Upputeru, 2023

| Parameters     | Jan   | Feb   | Mar   | Apr   | May   | Jun                                            | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | *Standard  |         |           |
|----------------|-------|-------|-------|-------|-------|------------------------------------------------|-------|-------|-------|-------|-------|-------|------------|---------|-----------|
|                |       |       |       |       |       |                                                |       |       |       |       |       |       | Class A    | Class B | Class C   |
| pH             | 7.83  | 7.60  | 7.73  | 7.96  | 7.88  | Sample not collected, due to No Flow of water. | 7.88  | 7.80  | 7.80  | 7.92  | 7.89  | 7.70  | 6.0 – 8.5  |         | 6.0 – 9.0 |
| DO             | 6.6   | 6.7   | 6.2   | 5.8   | 6.1   |                                                | 5.9   | 6.2   | 6.4   | 6.6   | 6.3   | 6.5   | 6.0        | 5.0     | 4.0       |
| BOD            | 2.9   | 2.9   | 2.8   | 2.7   | 2.6   |                                                | 2.3   | 2.3   | 2.5   | 2.8   | 2.6   | 2.7   | 2.0        | 3.0     | 3.0       |
| Total Coliform | 120   | 130   | 210   | 39    | 36    |                                                | 75    | 43    | 39    | 75    | 43    | 64    | 50         | 500     | 5000      |
| Fecal Coliform | 11    | 11    | 14    | 4     | 3     |                                                | 9     | 9     | 7     | 7     | 7     | 9     | ---        | 500     | ---       |
| TDS            | 26170 | 31460 | 28300 | 34700 | 32800 |                                                | 24500 | 28220 | 31100 | 25740 | 24250 | 22700 | 500 - 2000 |         |           |

**Note:** All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.

**Remarks:** BOD & Fecal Coliform values found to be within the standard limits stipulated for bathing. High TDS values at River Upputeru before confluence with Sea at Chinnagollapalem (V), Kruthivenu (M) could be attributed due to the intrusion of backwaters of Bay of Bengal.

## 8. River Vasishta:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Vasishta at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

| S. No. | Code | Location point                                                                        |
|--------|------|---------------------------------------------------------------------------------------|
| 1      | 4365 | Upstream of Narasapuram town before confluence with sewage, West Godavari Dist.       |
| 2      | 4366 | Downstream of Narasapuram town after confluence with town sewage, West Godavari Dist. |

### Month-wise data of water quality of river Vasishta, 2023

| Parameters     | Code | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug  | Sep  | Oct  | Nov   | Dec  | *Standard |           |         |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|-----------|-----------|---------|
|                |      |       |       |       |       |       |       |       |      |      |      |       |      | Class A   | Class B   | Class C |
| pH             | 4365 | 8.25  | 8.31  | 8.42  | 8.02  | 7.47  | 8.39  | 7.49  | 8.20 | 8.36 | 8.13 | 8.42  | 6.11 | 6.0 – 8.5 | 6.0 – 9.0 |         |
|                | 4366 | 7.65  | 7.5   | 8.02  | 7.32  | 7.49  | 7.70  | 7.45  | 8.22 | 8.13 | 7.9  | 7.85  | 7.52 |           |           |         |
| DO             | 4365 | 6.4   | 6.8   | 7.4   | 6.7   | 8.1   | 5.4   | 5.9   | 6.5  | 6.4  | 7.4  | 6.2   | 6.5  | 6.0       | 5.0       | 4.0     |
|                | 4366 | 6.3   | 6.5   | 7.2   | 6.8   | 7.2   | 5.6   | 5.5   | 5.8  | 6.2  | 7.2  | 6.0   | 5.0  |           |           |         |
| BOD            | 4365 | 2     | 1.8   | 2.1   | 2.4   | 2.2   | 2.1   | 2.6   | 2.5  | 2.0  | 2.2  | 1.2   | 2.0  | 2.0       | 3.0       | 3.0     |
|                | 4366 | 2.2   | 2     | 2.6   | 2.1   | 2.3   | 2.4   | 2.9   | 2.8  | 2.1  | 2.8  | 1.0   | 1.9  |           |           |         |
| Total Coliform | 4365 | 240   | 120   | 210   | 93    | 120   | 150   | 210   | 240  | 240  | 240  | 150   | 120  | 50        | 500       | 5000    |
|                | 4366 | 210   | 240   | 240   | 210   | 240   | 210   | 460   | 460  | 460  | 210  | 240   | 210  |           |           |         |
| Fecal Coliform | 4365 | 21    | 14    | 11    | 9     | 9     | 7     | 7     | 9    | 9    | 4    | 7     | 4    | ----      | 500       | ----    |
|                | 4366 | 15    | 7     | 14    | 11    | 14    | 11    | 14    | 11   | 11   | 15   | 11    | 7    |           |           |         |
| TDS            | 4365 | 168   | 124   | 96    | 122   | 11800 | 25276 | 22300 | 208  | 210  | 164  | 2520  | 442  | 500-2000  |           |         |
|                | 4366 | 21648 | 27456 | 30120 | 21450 | 11620 | 28132 | 27340 | 620  | 264  | 246  | 10124 | 4180 |           |           |         |

**Note:** All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.

**Remarks:** BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

**CPCB Water Quality Criteria for Designated Best Use**

| <b>Designated-best- use</b>                                                  | <b>Class of water</b> | <b>Criteria</b>                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drinking Water Source without conventional treatment but after disinfection. | <b>A</b>              | <ul style="list-style-type: none"> <li>• Total Coli forms Organism MPN/100 ml shall be 50 or less.</li> <li>• pH between 6.5 and 8.5</li> <li>• Dissolved oxygen 6 mg/l or more.</li> <li>• Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.</li> </ul>  |
| Outdoor bathing (Organized)                                                  | <b>B</b>              | <ul style="list-style-type: none"> <li>• Total Coli forms Organism MPN/100 ml shall be 500 or less.</li> <li>• pH between 6.5 and 8.5</li> <li>• Dissolved oxygen 5 mg/l or more.</li> <li>• Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.</li> </ul> |
| Drinking Water Source after conventional treatment and disinfection.         | <b>C</b>              | <ul style="list-style-type: none"> <li>• Total Coli forms Organism MPN/100 ml shall be 5000 or less.</li> <li>• pH between 6 to 9</li> <li>• Dissolved oxygen 4 mg/l or more.</li> <li>• Biochemical Oxygen Demand 5 days 20°C 3mg/l or less</li> </ul>      |
| Propagation of Wild life and Fisheries.                                      | <b>D</b>              | <ul style="list-style-type: none"> <li>• pH between 6.5 to 8.5</li> <li>• Dissolved oxygen 4 mg/l or more.</li> <li>• Free Ammonia (as N) 1.2 mg/l or less</li> <li>• pH 9 between 6.0 to 8.5.</li> </ul>                                                    |
| Irrigation, Industrial Cooling, Controlled Waste disposal.                   | <b>E</b>              | <ul style="list-style-type: none"> <li>• Electrical Conductivity at 25°C micro mhos/cm Max. 2250.</li> <li>• Sodium Absorption ratio Max. 26</li> <li>• Boron Max.2 mg/l.</li> </ul>                                                                         |
|                                                                              | <b>Below -E</b>       | Not Meeting A, B, C, D & E Criteria.                                                                                                                                                                                                                         |