

**MONTHLY PROGRESS REPORT (MPR) W.R.T. HON'BLE NGT OA 673/2018 FOR THE MONTH OF AUGUST 2020 FOR THE STATE OF MANIPUR [Reported on 20.09.2020]**

**Overall status of the State:**

**I. Total Population:** : 28,55,794 [2011 census]

**II. Estimated Sewage Generation (MLD)** : 114.054 MLD

**III. Sewage Treatment Plant :**

- Total Sewage Generation (MLD) : 114.054 MLD
- Total Existing Treatment Capacity (MLD) : 27 MLD (operational)
- Capacity Utilization : 8.2 MLD
- Under construction : 17 MLD (under NRCD Project)
- New proposed : 49 MLD (DPR prepared, looking for funding)
- : 16.75 MLD and 4.3 MLD under preparation of DPR for Bio-remediation, Faecal Sludge and Septage Management(FSSM) of the 8 (eight) Polluted Rivers (Priority-V)

| Town   | Existing STP Capacity | Capacity Being Utilized | Whether Complying or not | STP Proposed, if any | Status (DPR/ tendering/ under construction/ ETC etc.)   |
|--------|-----------------------|-------------------------|--------------------------|----------------------|---|
| Imphal | 27 MLD                | 8 MLD                   | No                       | 17 MLD               | <ul style="list-style-type: none"> <li>• Sanctioned under NRCD</li> <li>• Completed tender process</li> <li>• Execution under progress</li> </ul>   |
|        |                       |                         |                          | 49 MLD               | <ul style="list-style-type: none"> <li>• Prepared DPR for Imphal Sewerage Project Phase II, looking for funding</li> <li>• Cleared PIB (Public Investment Board)</li> <li>• Communicated to DEA for External Aided Project opportunities</li> </ul> |

**IV. Industrial:**

- Total No. of industries/ industrial estates : 72 Nos. Inside Industrial Estate / Food Parks
- Total Industrial discharge : NIL
- Total No. of industries having ETPs : NIL
- Total existing CETPs : 1 No. [Nilakuthi Food Park]
- Total no. of GPIs/ SPIs : NIL
- No. of industries having OCEMS : NIL

| Town   | Existing ETP Capacity | Whether Complying or not | CETP Proposed, if any  | Status (DPR/ tendering/ under construction etc.)   |
|--------|-----------------------|--------------------------|--|--|
| Imphal | 400 Kilo Liter / day  | Yes                      | 3 (three) CETP proposed, viz.<br>i. Talyel Industrial Estate<br>ii. TeraUrak Industrial Estate<br>iii. Kuraopopi Industrial Estate | <ul style="list-style-type: none"> <li>• Completed PFR</li> <li>• Under preparation of DPR, completing by December 2020</li> </ul> |

**V. Solid Waste Management:**

- Total Municipal Solid Waste generation (MTD) : 284.33 MTD
- Total Collected of Solid Wastes (MTD) : 199.15 MTD
- Home yard composting / landfill at rural (MTD) : 85.18 MTD
- Existing facilities (MTD) : 177.91 MTD  
[121.306 MTD for processed  
77. 844 MTD for Landfill]

## STATUS OF POLLUTED RIVER STRETCHES IN THE STATE:

- I. **Total No. of Polluted River Stretches** : 9 (nine)
- II. **In-situ Bio-remediation / others** : Under DPR Preparation,
- Completing DPR for in-situ Bio-remediation, Faecal Sludge and Septage Management (FSSM) of the 8 (eight) Polluted Rivers (Priority-V) by 31.09.2020
  - Started RFD activities under State Plan fund like
    - cleaning of river,
    - solid wastes management,
    - eviction under Flood Plain Zone Acts
    - started under state plan

### III. Sewage Treatment Plant :

- Total Sewage Generation (MLD) : 109.75 MLD
- Total Existing Treatment Capacity (MLD) : 27 MLD
- Capacity Utilization:

| Town   | Existing STP Capacity | Capacity Being Utilized | Whether Complying or not | STP Proposed/ ongoing, if any | Status (DPR / tendering / under construction / ETC etc.)   |
|--------|-----------------------|-------------------------|--------------------------|-------------------------------|--|
| Imphal | 27 MLD                | 8.2 MLD                 | Not fully complying      | 49 MLD                        | <ul style="list-style-type: none"> <li>• Prepared DPR for Imphal Sewerage Project Phase II</li> <li>• Cleared by PIB and looking for funding under EAP</li> </ul>  |
|        |                       |                         |                          | 17 MLD                        | <ul style="list-style-type: none"> <li>• Sanctioned under NRCD</li> <li>• Layout and Design of STP finalized</li> <li>• Completed soil testing</li> <li>• Civil work of 16 MLD starts</li> <li>• Order placed for pipes</li> </ul> |
|        |                       |                         |                          | 16.75 MLD                     | <ul style="list-style-type: none"> <li>• Completing DPR for in-situ Bio-remediation, Faecal Sludge and Septage Management (FSSM) of the 8 (eight) Polluted Rivers (Priority-V) by 31.09.2020</li> </ul>                            |

### IV. Industrial:

- Total No. of industries/ industrial estates : No any polluting industry nearby the Polluted River Stretches
- Total Industrial discharge : NIL
- Total no. of industries having ETPs : NIL
- Total existing CETPs : 1 No. [Nilakuthi Food Park]
- Total No. of GPIs/ SPIs : NIL
- No. of industries having OCEMS : NIL

| Town   | Existing ETP Capacity | Whether Complying or not | CETP Proposed, if any   | Status (DPR/ tendering/ under construction/ ETC etc.) |
|--------|-----------------------|--------------------------|---|---|
| Imphal | 400 Kilo Liter / day  | Yes                      | 2 (two) CETPs proposed, viz.<br>i. Talyel Industrial Estate<br>ii. TeraUrak Industrial Estate | Under preparation of DPR, completing by December 2020 |

- v. **Solid Waste Management:**
  - Total Municipal Solid Waste generation (MTD) : 46.471 MTD
  - Existing facilities (MTD) : 60 MTD [waste to energy]
  
- vi. **Bio-medical/ Hazardous/ Plastic Waste Management:**
  - Total Bio-medical/ Hazardous/ Plastic Waste generation: 0.70 TPD [Bio-medical waste]  
1.17 TPD [Hazardous Waste]  
22.7 TPD [Plastic Waste]
  - Total no. of hospital and bio-medical waste generation/ treatment : 0.65 TPD
  - Total of units generating Hazardous waste/ treatment facility : NIL
  
- iii. **Ground water regulation** : NIL
- iv. **Maintaining minimum e-flow of river** : Afforestation at catchment area is undergoing for maintaining e-flow
- v. **Plantation along river** : Continuing
- vi. **Development of biodiversity park:** No any biodiversity park at the river bank, however, few garden have been developed at the river bank where land is available under NRCD project
  
- vii. **Reuse of Waste water** : NIL

**NATIONAL MISSION FOR CLEAN GANGA**  
**FORMAT FOR SUBMISSION OF MONTHLY PROGRESS REPORT BY STATES/UTS**  
**(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)**

| <b>Sl.No.</b> | <b>Activity to be monitored</b>  | <b>Timeline</b>                   | <b>Submission of Progress by State/UT-Compliance Status</b>   |
|---------------|--|-----------------------------------|---|
| 1             | Ensure 100% treatment of sewage at least in-situ remediation   | 31.03.2020                        | Initiated in this current financial year 2020-21 under State Plan   |
|               | Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured   | 31.03.2020                        | 17 MLD with connecting 72 drains under construction through NRCD fund<br>[target year April 2022]   |
| 2             | Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning  | 31.03.2021                        | <ul style="list-style-type: none"> <li>• 27 MLD already commissioned [status enclosed at <b>Annexure - 1</b>]</li> <li>• 17 MLD with connecting 72 drains under construction [target for completion in April 2022]</li> <li>• 49 MLD DPR ready, waiting for fund</li> </ul>   |
| 5             | Chief Secretaries may set up appropriate monitoring mechanism at State level <ul style="list-style-type: none"> <li>• Specifying accountability of nodal authorities not below the Secretary level</li> <li>• Chief Secretaries may have an accountable person attached in their office for this purpose.</li> </ul> | 22.01.2020                        | <ul style="list-style-type: none"> <li>• RRC has constituted under Chairmanship of Director (Environment and Climate Change), Govt. of Manipur;</li> <li>• Prepared Action Plan of the 9 (nine) Polluted River Stretches in Manipur (1 under Priority II and 8 under Priority V);</li> <li>• Action Plan for Priority II River has already been recommended by CPCB and the Action Plan for Priority V rivers also been recommended by the CPCB;</li> <li>• RRC had been reviewing the follow up activities of the directions from Hon'ble NGT OA 673 of 2018;</li> <li>• Constituted the State Level Monitoring Mechanism Committee under Chairmanship of Commissioner (PHE), Govt. of Manipur on 23<sup>rd</sup> January, 2020 and monitored monthly</li> </ul> |
|               | <ul style="list-style-type: none"> <li>• Monitoring at State level must take place</li> </ul>  | Fortnightly Commencing 21.12.2019 | Yes   |

| Sl.No. | Activity to be monitored   | Timeline  | Submission of Progress by State/UT-Compliance Status   |
|--------|--|---|--|
| 6      | Progress report may be furnished by the States/UTs to <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakti</li> <li>• Member Secretary, CPCB</li> </ul>  | Monthly (preferably before 20 <sup>th</sup> of every month) | Submitted MPRs timely  |
| 6.1    | Progress Report may be comprised of details along with completion timelines on: <ol style="list-style-type: none"> <li>i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment</li> <li>ii. <u>Status of STPs, I&amp;D and sewerage networks</u> <ol style="list-style-type: none"> <li>a. Details of Existing Infrastructure,</li> <li>b. Gap Analysis,</li> <li>c. Proposed along with completion timeline</li> </ol> </li> </ol> |   | Identification of Polluting Sources : <ul style="list-style-type: none"> <li>• Detail survey is under progress</li> <li>• Disturbed in progress due to lockdown</li> <li>• Target to complete in 31<sup>st</sup> October 2020</li> </ul> <u>Status of STPs and I&amp;D</u> <ul style="list-style-type: none"> <li>• 27 MLD of AWS technology under Imphal Sewerage Project Phase I of PHED;</li> <li>• 17 MLD of MBBR is under progress [ongoing NRCD project]</li> <li>• 14.55 km pipeline for I &amp; D under progress [ongoing NRCD project];</li> <li>• Completed 69.44 km meters pipeline for sewerage network under Imphal Sewerage Project Phase I of PHED;</li> <li>• Out of target 12,000 households, 3200 households had already been connected to the existing sewer network under Imphal Sewerage Project Phase I of PHED;</li> <li>• DPR for 49 MLD has already been prepared by PHED, Cleared by PIB and looking for funding under EAP</li> <li>• For other remaining 16.75 MLD and 4.3 MLD is under preparation of DPR for in-situ Bio-remediation, Faecal Sludge and Septage Management (FSSM) of the 8 (eight) Polluted Rivers (Priority-V) and other town by 31.09.2020</li> </ul> |

| Sl.No. | Activity to be monitored   | Timeline | Submission of Progress by State/UT-Compliance Status   |
|--------|--|----------|--|
|        | <p>iii. <u>Status of CETPs</u></p> <p>a. Details of Existing CETP and ETP Infrastructure,</p> <p>b. Gap Analysis,</p> <p>c. Proposed along with completion time line,</p> <p>d. No. of industries and complying status</p> <p>iv. <u>Status of Solid Waste Management &amp; Details of Processing Facilities</u></p> <p>a. Details of Existing Infrastructure,</p> <p>b. Gap Analysis,</p> <p>c. Proposed along with completion timeline</p> <p>v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;</p> <p>vi. Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.</p> <p>vii. Ground water regulation</p> <p>viii. Adopting good irrigation practices,</p> <p>ix. Protection and management of Flood</p> |          | <p>Status of CETPs :</p> <ul style="list-style-type: none"> <li>• 1 (one) CETP unit of 400 Kilo Liter / day exists at Nilakuthi Food Park</li> <li>• Under preparation of DPR for 3 (three) CETPs at <ul style="list-style-type: none"> <li>(i) Talyel Industrial Estate</li> <li>(ii) TeraUrak Industrial Estate</li> <li>(iii) Kuraopopi Industrial Estate</li> </ul> </li> </ul> <p><u>Status of Solid Waste Management</u></p> <ul style="list-style-type: none"> <li>• Total waste generated in Manipur State is 284.33 MTD</li> <li>• Total Collected of Solid Wastes is 199.15</li> <li>• Home yard composting / landfill at Rural area is 85.18 MTD</li> <li>• Existing facilities of 177.91 MTD [121.306 MTD for processed, 77.844 MTD for Landfill]</li> <li>• No gap</li> <li>• Already progress</li> </ul> <p>Latest Water Quality of polluted rivers is enclosed at <b>Annexure – 2;</b></p> <p>Preventing dumping of waste and scientific waste management has been continuing effectively;</p> <p>No regulation of ground water</p> <p>Not adopting good irrigation practices, except from river or rain water harvesting</p> <p>Protection and management of Flood</p> |

| Sl.No. | Activity to be monitored   | Timeline | Submission of Progress by State/UT-Compliance Status  |
|--------|--|----------|---|
|        | <p>Plain Zones (FPZ)</p> <p>x. Rain water harvesting,</p> <p>xi. Maintaining minimum environmental flow of river</p> <p>xii. Plantation on both sides of the river</p> <p>xiii. Setting up biodiversity parks on flood plains by removing encroachment</p> |          | <p>Plain Zones (FPZ) has been enforced and removing all the illegal encroachers time to time by the Water Resources Department</p> <p>No any rain water harvesting practices as of yet;</p> <p>Environmental flow of river has been maintained through afforestation at degraded catchment;</p> <p>Plantation on both sides of the river has been continuing time to time;</p> <p>No any biodiversity parks at river bank since not getting any land;</p> |

**ANNEXURE – 1**

**FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE [AUGUST 2020]**

| Sr. No. | City / Town | No. of STP | Location of STP | Coordinates of STP                                   | STP Commissioned in (Year) | Status (Operational / Non Operational / Under Construction) | STP Installed Capacity (In MLD) | Actual Utilization of Installed Capacity (In MLD) | Technology UASB / ASP / OP / SBR / MBBR / FAB etc. | Consent Status | Compliance Status (In mg / Lit except pH) |     |     |     |
|---------|-------------|------------|-----------------|--|----------------------------|---|---------------------------------|---|--|----------------|---|-----|-----|-----|
|         |             |            |                 |  |                            |   |                                 |   |  |                | pH  | TSS | COD | BOD |
| 1       | Imphal      | 1          | Lamphel         | 24 <sup>0</sup> 49"45" N<br>93 <sup>0</sup> 54'58" E | 2020                       | Operational   | 27                              | 8.2   | ASP  | ---            | 6.6                                       | 2.4 |     | 2.0 |

## A. Total Status of STPs in Imphal

| Particular                          | Unit    | Phase I     | Phase II<br>(To be proposed under EAP) | Ongoing NRCO Project | Total   |
|-------------------------------------|---------|-------------|--|----------------------|---------|
| Capacity of STP                     | MLD     | 27          | 49                                     | 17                   | 93      |
| Total Sewer Pipe                    | RM      | 69,429      | 277,289                                |                      | 346,718 |
| Primary (Main Pipe)                 | RM      | 25,291      |  |                      | 25,291  |
| Secondary (Sub-main Pipe)           | RM      | 44,138      |  |                      | 44,138  |
| Interception & Diversion Pipelines  | RM      |             |  | 14,545               | 14,545  |
| No. of urban drains to be collected | Drain   |             |  | 72                   | 72      |
| Targeted Connection septic tank     | Unit    | 12,000      |  |                      | 12,000  |
| Connected septic tank               | Unit    | 3,200       |  |                      | 3,200   |
| Lift Station                        | Unit    | 5           | 21                                     | 14                   | 40      |
| Population                          | Lakh    | 1.73        | 4.33                                   |                      | 6.06    |
| Covered Municipal Ward              | Wards   | 11          | 16                                     | 14                   |         |
| Area covered                        | Sq. Km. |             | 35                                     |                      |         |
| Covered Polluted River              |         | Nambul P-II | Nambul P-II                            | Nambul P-II          |         |
| Method of Treatment                 |         | ASP         | SBR                                    | MBBR                 |         |

## B. In-situ Bio-remediation and others :

|   | Name of the Polluted River (P-V) | Total Length of the River | Length of the Polluted stretches | BOD Range (mg/l) | Population at polluted zone | Status / Proposed for Treatment   |
|---|----------------------------------|---------------------------|----------------------------------|------------------|-----------------------------|---|
| 1 | Imphal                           | 89.24 km                  | 19.98 km                         | 3.4 – 6.4        | 84,857                      | 16.75 MLD under preparation of DPR for in-situ treatment through Bio-remediation, Faecal Sludge and Septage Management (FSSM) |
| 2 | Iiril                            | 156.50 km                 | 18.12 km                         | 3.2              | 1,714                       |   |
| 3 | Khuga                            | 79.25 km                  | 10.92 km                         | 3.1 – 3.6        | 857                         |   |
| 4 | Khujairok                        | 10.06 km                  | 4.21 km                          | 4.3              | 4,286                       |   |
| 5 | Lokchao/ Thongjarok              | 17.04 km                  | 5.31 km                          | 4.5              | 1,143                       |   |
| 6 | Manipur                          | 261.00 km                 | 35.00 km                         | 3.6 – 4.3        | 7,143                       |   |
| 7 | Thoubal                          | 142.80 km                 | 24.61 km                         | 3.5              | 30,286                      |   |
| 8 | Wangjing                         | 35.08 km                  | 3.70 km                          | 4.1 – 4.3        | 7,143                       |   |

### Note :

ASP (Activated Sludge Process),

EAP (Extended Aeration Process),

SBR (Sequencing Batch Reactor)

MBBR (Moving Bio Bed Reactor)

## Status of Solid Wastes Management in Manipur :

| No.          | Name of ULB         | Estimated Waste Generated (TPD) | Waste Collected (TPD) | Waste Treated Processed | Waste landfill / dumped (TPD) | Sanitary landfill | Dump site | Home yard composting / land fill at Rural Area (TPD) |
|--------------|---------------------|---------------------------------|-----------------------|-------------------------|-------------------------------|-------------------|-----------|--|
| 1            | Imphal M Corp       | 155                             | 130                   | 97.2                    | 32.8                          | 1                 | 0         |  |
| 2            | Lamlai MC           | 1.3                             | 0.25                  | 0                       | 0.25                          | 0                 | 1         |  |
| 3            | Thoubal MC          | 16                              | 8                     | 2                       | 6                             | 1                 | 0         |  |
| 4            | Yairipok MC         | 2.9                             | 2.1                   | 0                       | 2.1                           | 0                 | 0         |  |
| 5            | Oinam MC            | 2.3                             | 1.4                   | 0                       | 1.4                           | 0                 | 1         |  |
| 6            | Kakching MC         | 15                              | 14.2                  | 5.5                     | 8.7                           | 1                 | 2         |  |
| 7            | Mayang Imphal MC    | 7.2                             | 3                     | 1                       | 2                             | 0                 | 1         |  |
| 8            | NambolMC            | 12.4                            | 3.6                   | 0.1                     | 3.5                           | 0                 | 1         |  |
| 9            | Moirang MC          | 7                               | 5                     | 2.8                     | 2.2                           | 0                 | 1         |  |
| 10           | Bishnupur MC        | 12                              | 7                     | 3.5                     | 3.5                           | 1                 | 1         |  |
| 11           | Lilong (Thoubal) MC | 7.4                             | 0.9                   | 0                       | 0.9                           | 0                 | 0         |  |
| 12           | Samurou MC          | 5                               | 1.5                   | 0.15                    | 1.35                          | 0                 | 0         |  |
| 13           | ThongkhongLaxmi MC  | 4                               | 1.6                   | 0.156                   | 1.444                         | 0                 | 1         |  |
| 14           | KakchingKhunou MC   | 4.5                             | 0.7                   | 0.5                     | 0.2                           | 0                 | 1         |  |
| 15           | KumbiMC             | 2.9                             | 2.5                   | 1.5                     | 1                             |                   | 1         |  |
| 16           | Wangoi MC           | 2.7                             | 1.1                   | 0.5                     | 0.6                           |                   | 1         |  |
| 17           | Kwakta MC           | 1                               | 0.5                   | 0                       | 0.5                           |                   | 1         |  |
| 18           | WangjingLamdingM C  | 2.9                             | 2.7                   | 0.1                     | 2.6                           |                   | 1         |  |
| 19           | ShikhongSekmai MC   | 2.2                             | 2.2                   | 1.7                     | 0.5                           |                   |           |  |
| 20           | Sugnu MC            | 3.2                             | 0.5                   | 0                       | 0.5                           |                   | 0         |  |
| 21           | Ningthoukhong MC    | 3.9                             | 2.2                   | 0                       | 2.2                           |                   | 1         |  |
| 22           | Jiribam MC          | 2.2                             | 1.9                   | 0.3                     | 1.6                           | 1                 | 0         |  |
| 23           | Lilong (IW) NP      | 3.73                            | 0.2                   | 0                       | 0.2                           |                   | 1         |  |
| 24           | Andro NP            | 2.6                             | 2.3                   | 1.6                     | 0.7                           |                   | 1         |  |
| 25           | Sekmai NP           | 2.1                             | 1.5                   | 0.5                     | 1                             |                   | 0         |  |
| 26           | Lamsang NP          | 2                               | 1.7                   | 1.7                     | 0                             |                   | 0         |  |
| 27           | Heirok NP           | 0.9                             | 0.6                   | 0.5                     | 0.1                           |                   | 1         |  |
| <b>Total</b> |                     | <b>284.33</b>                   | <b>199.15</b>         | <b>121.306</b>          | <b>77.844</b>                 | <b>5</b>          | <b>18</b> | <b>85.18</b>   |