



CONTROL OF URBAN POLLUTION  
SERIES: CUPS/ / 2015

**INVENTORIZAZION OF SEWAGE  
TREATMENT PLANTS**



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**CENTRAL POLLUTION CONTROL BOARD**  
(Ministry of Environment and Forests, Govt. of India)  
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## FOREWORD

Partially or untreated sewage is the single major source for deterioration of surface or ground water quality. It contributes 70 % of the pollution load to streams or water bodies of India. The untreated wastewater is a potential pollutant which contaminates ground, ground water, rivers and natural drainage system causing pollution in downstream areas. The rivers; lake, stream etc. are used by human being for fulfillment of their daily needs. The consumption of polluted water has adverse impact on human health as well as on aquatic life.

Central Pollution Control Board carried out assessment on Municipal wastewater generation and treatment capacity in Metropolitan cities, Class I cities and Class II towns of India. The sewage generation was about 38254 MLD during 2008-09 whereas treatment capacity developed was 12000 MLD approximately. The estimated sewage generation is 62000 MLD (approximately). The inventory of STPs installed all over India indicates that out of 816 STPs, 522 STPs are operational (as on March, 2015). The capacity utilization is 18883 MLD (615 STPs) out of 23277 MLD (920 STPs).

Treatment of sewage is absolutely necessary for making our river/water bodies clean. In spite of all efforts, only 23277 MLD of treatment capacity have been developed against the total sewage generation of 62000 MLD. It is mandate for SPCBs/PCCs under section 17 (l) (i) of The Water (Prevention and Control of Pollution) Act, 1974 to make, vary or revoke any order for prevention, control or abatement of discharge of waste into streams and under Section 24 to prohibit use of stream or well for disposal of polluting matter. Therefore, it is necessary to make mandatory to setup STPs by the Municipal authorities for bridging the treatment gap and enforcement of consent management.

Hopefully, this inventory of STPs would be helpful to the concerned agencies in formulating action plan/strategies for improving the urban environment in general and for the management of municipal wastewater in particular.

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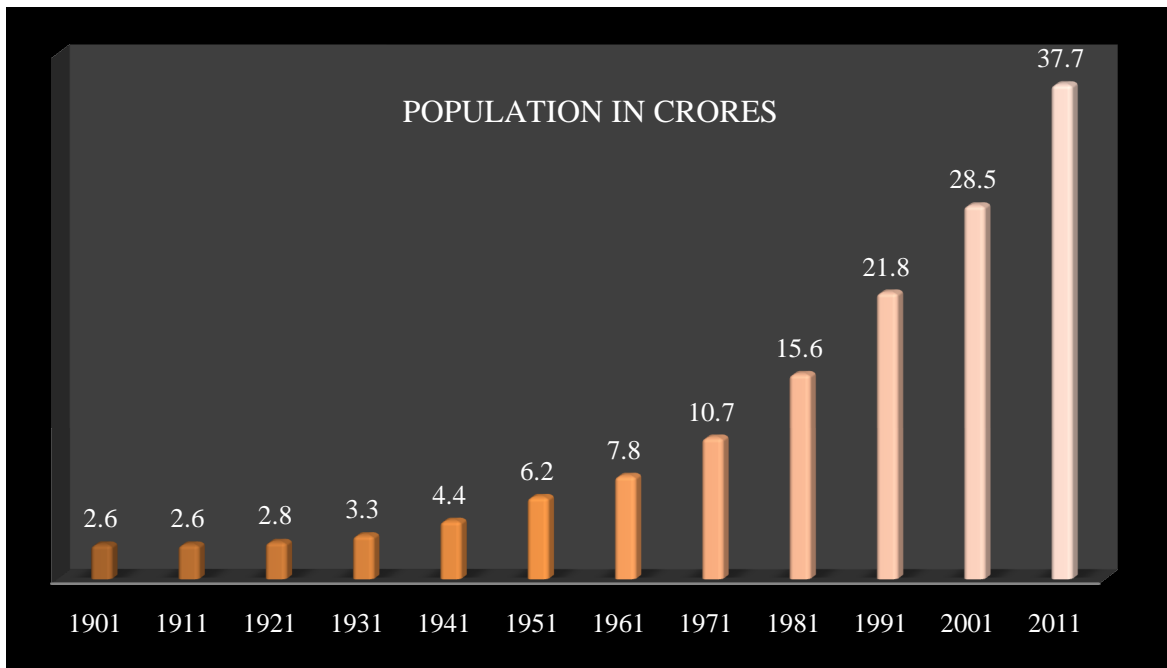
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**1.0 INTRODUCTION**

Urban water supply and sanitation are important basic needs for the improvement of the quality of life and enhancement of productive efficiency of the people. In urban areas, water is tapped for domestic and industrial uses from rivers, streams, wells and lakes. Almost 80% of the water supplied for domestic use, comes out as wastewater. In most of the cases wastewater is let out untreated and it either sinks into the ground as a potential pollutant of ground water or is discharged into the natural drainage system causing pollution in downstream areas. Wastewater needs to be conveyed to sewage treatment plants and treated wastewater must meet the aesthetic standards of ambient environment for receiving water bodies.

Sewage Treatment plants are used to treat sewage generated from residential, institutional, commercial and industrial establishments which includes household waste liquid from toilets, baths, showers, kitchens, sinks and so forth that is disposed of via sewers. In India, different treatment technologies like ASP, UASB, Oxidation pond and advanced technologies like SBR, MBR are adopted for the treatment of sewage. Central Pollution Control Board carried out study on status of Municipal wastewater generation and treatment capacity in Metropolitan cities, Class I cities and Class II towns of India and published a document (CUPS/61/2005-06). The sewage generation is about 38254 MLD whereas treatment capacity developed is only about 12000 MLD and 269 numbers of STPs are installed in India. Growth of Urbanization in India is at rapid rate. This is illustrated in Figure 1 and summarized in Table 1.



**Figure 1: Bar diagram shows growth of urban population 1901-2011**

**Table 1: Decadal Urban Population Growth Since 1901**

| Year | Total         | Rural       | Urban        | Urban, as % of total | Decadal increase in urban population | % in |
|------|---------------|-------------|--------------|----------------------|--------------------------------------|------|
| 1901 | 238,396,327   | 212,544,454 | 25,851,873   | 10.84                | -                                    |      |
| 1911 | 252,093,390   | 226,151,757 | 25,941,633   | 10.29                | 0.35                                 |      |
| 1921 | 251,321,213   | 223,235,043 | 28,086,170   | 11.18                | 8.3                                  |      |
| 1931 | 278,977,238   | 245,521,249 | 33,455,989   | 11.99                | 19.1                                 |      |
| 1941 | 318,660,580   | 274,507,283 | 44,153,297   | 13.86                | 32.0                                 |      |
| 1951 | 361,088,090   | 298,644,381 | 62,443,709   | 17.29                | 41.4                                 |      |
| 1961 | 439,234,771   | 360,298,168 | 78,936,603   | 17.97                | 26.4                                 |      |
| 1971 | 548,159,652   | 439,045,675 | 109,113, 977 | 19.91                | 38.2                                 |      |
| 1981 | 683,329,097   | 523,866,550 | 159,462,547  | 23.34                | 46.1                                 |      |
| 1991 | 846,302,688   | 628,691,676 | 217,611,012  | 25.71                | 36.5                                 |      |
| 2001 | 1,027,015,247 | 741,660,293 | 285,354,954  | 27.78                | 31.1                                 |      |
| 2011 | 1,210,193,422 | 83,30,87662 | 377,105,760  | 31.16                | 32.2                                 |      |

The facilities like housing and water supply, sanitation also increased with urbanization. However, facility of sewage management has not received the required focus. As a result, untreated sewage is discharged into open storm water drains causing pollution to water bodies.

## 2.0 OBJECTIVE OF THE STUDY

As stated earlier, Central Pollution Control Board (CPCB) has carried out study on status of Municipal wastewater generation and treatment capacity in Metropolitan cities, Class I cities and Class II towns of India and published a document (CUPS/61/2005-06) and (CUPS/70/2009-10) and assessed the 269 number of STPs with capacity of 12000 MLD. There is need to update the information on Sewage treatment facility as urbanization of country increases with rapid pace and therefore the treatment facility for sewage is also increased.

## 2.1 METHODOLOGY OF STUDY

CPCB has designed format for collation and collection on STPs from all 35 State Pollution Control Boards and Pollution Control Committees. The format is attached at Annexure-I. CPCB has communicated with SPCBs/PCCs numerous times and provided the prescribed format.

### 3.0 INVENTORY OF SEWAGE TREATMENT PLANTS

CPCB has carried out an inventORIZATION of Sewage Treatment Plants (STPs) located in India in the year 2014-15. There are 816 STPs having capacity of 23277MLD in 28 States/UTs of India. Out of 816 STPs, 522 STPS are operational, 79 STPs are Non-operational, 145 STPs are under construction and 70 STPs are proposed for construction. The detail is mentioned in table -2 and figure-2 and 3.

**Table 2: Break-up of STPs**

| Sl.No. | Status             | Nos. Of STPs | Capacity (MLD) |
|--------|--------------------|--------------|----------------|
| 1.     | Operational        | 522          | 18883.2        |
| 2.     | Non-operational    | 79           | 1237.16        |
| 3.     | Under Construction | 145          | 2528.36        |
| 4.     | Proposed           | 70           | 628.64         |
| 5.     | Total              | 816          | 23277.36       |

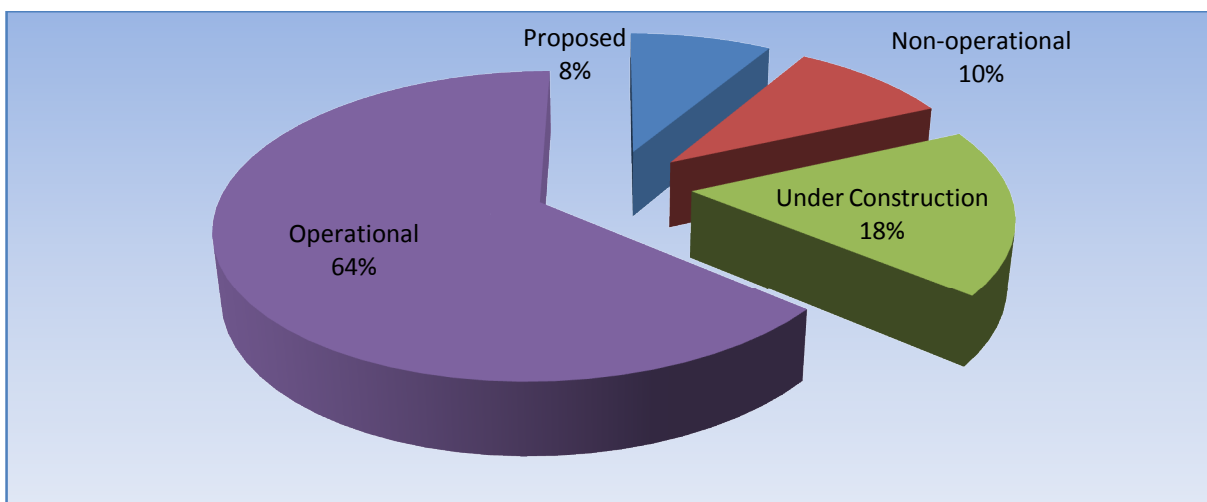


Figure 2: Pi-chart show distribution of Number of STPs

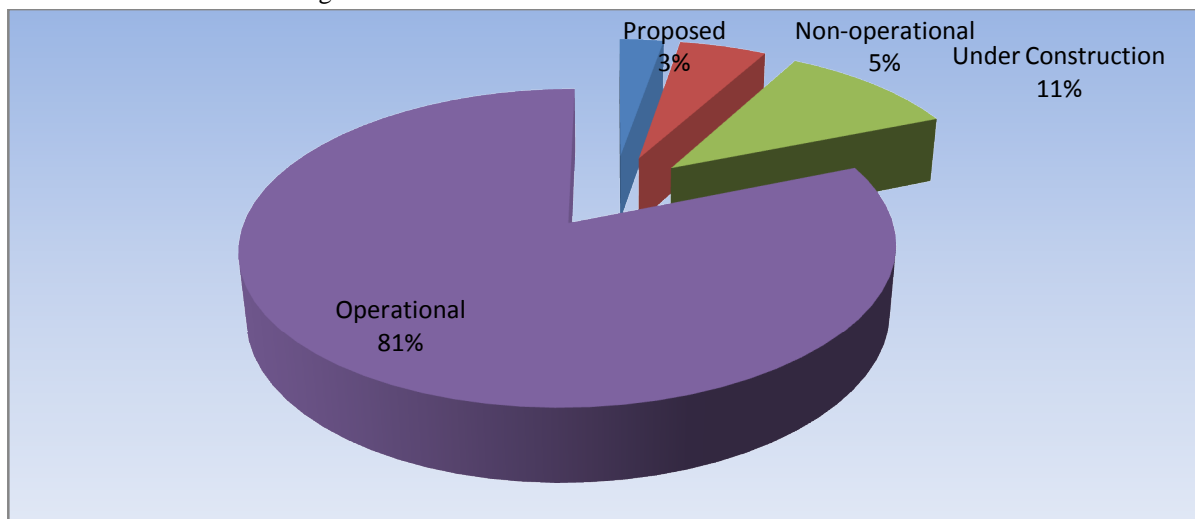


Figure 3: Pi-chart show distribution of capacity of STPs

Arunachal Pradesh, Andaman & Nicobar Islands, Chhattisgarh, Daman Diu & Dadra Nagar Haveli, Lakshadweep, Manipur and Nagaland do not have treatment facility. Maharashtra, Gujarat, Delhi, Maharashtra has the maximum sewage treatment capacity. Detailed break-up of STPs state-wise is placed in Table 3. Figure 4 depicts installed capacity distribution among different states of India and Figure 5 show the number of STPs among different states of India.

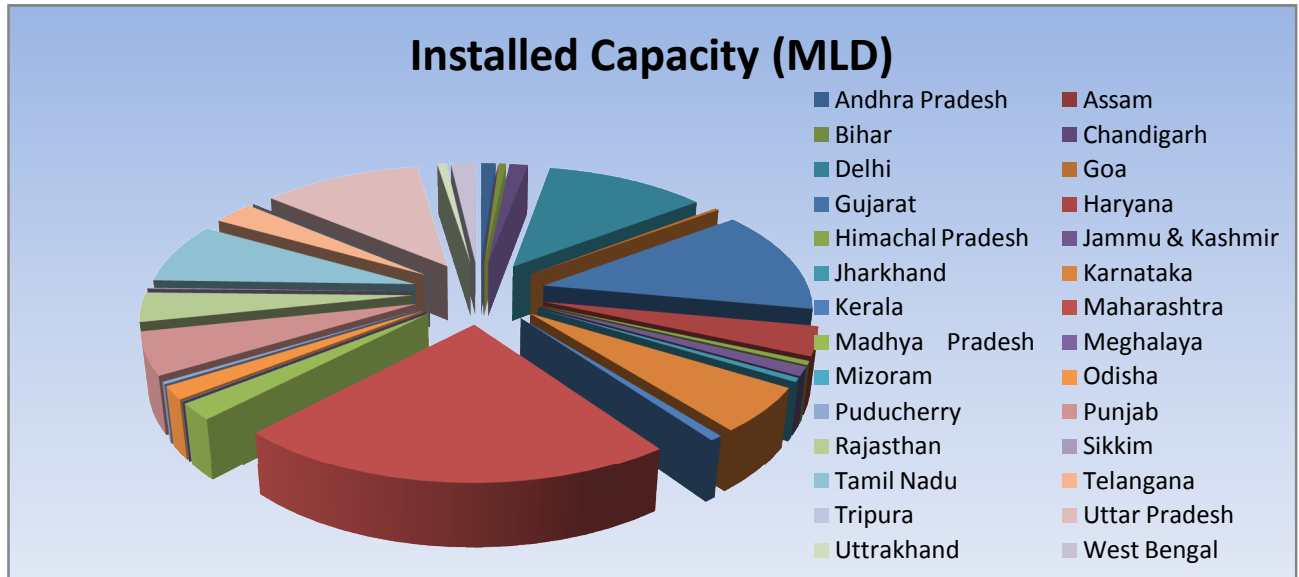


Figure 4: Pi-chart depicting installed capacity distribution in India

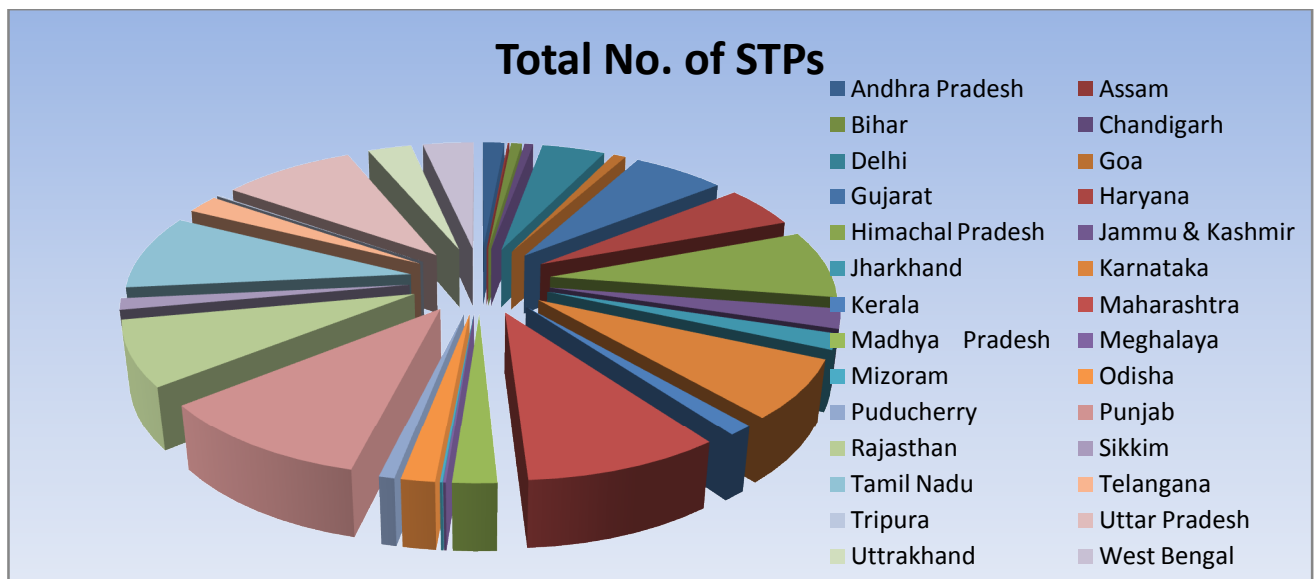


Figure 5: Pi-chart depicting STPs distribution in India



[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

Table 3: Break-Up of STPs Located In Different States/UTs of India

| Sl. No. | State/UT                       | Capacity of Municipal STPs | No. of Municipal STPs | Operational Capacity (MLD) | No. of STPs Operational | Non-operational Capacity (MLD) | No. of STPs Non-operational | Under Construction Capacity (MLD) | No. of STPs Under Constructions | Proposed Capacity (MLD) | No. of STPs Proposed |
|---------|--------------------------------|----------------------------|-----------------------|----------------------------|-------------------------|--------------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------|----------------------|
| 1       | Andhra Pradesh                 | 247.27                     | 12                    | 156.27                     | 9                       | -                              | -                           | 91                                | 3                               | -                       | -                    |
| 2       | Arunachal Pradesh              | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 3       | Andaman & Nicobar Islands      | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 4       | Assam                          | 0.21                       | 1                     | 0.21                       | 1                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 5       | Bihar                          | 124.55                     | 6                     | 99.55                      | 5                       | 25                             | 1                           | -                                 | -                               | -                       | -                    |
| 6       | Chandigarh                     | 314.5                      | 5                     | 314.5                      | 5                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 7       | Chhattisgarh                   | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 8       | Delhi                          | 2693.7                     | 35                    | 2671.2                     | 34                      | 22.5                           | 1                           | -                                 | -                               | -                       | -                    |
| 9       | Daman Diu & Dadra Nagar Haveli | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 10      | Goa                            | 74.58                      | 7                     | 34.5                       | 4                       | -                              | -                           | 40.08                             | 3                               | -                       | -                    |
| 11      | Gujarat                        | 3062.92                    | 51                    | 2111.64                    | 32                      | 498                            | 4                           | 359.5                             | 8                               | 93.78                   | 7                    |
| 12      | Haryana                        | 852.7                      | 41                    | 805                        | 38                      | 2.7                            | 2                           | 45                                | 1                               | -                       | -                    |
| 13      | Himachal Pradesh               | 114.72                     | 66                    | 79.51                      | 36                      | 35.21                          | 30                          | -                                 | -                               | -                       | -                    |
| 14      | Jammu & Kashmir                | 264.74                     | 19                    | 145.74                     | 15                      | 2                              | 1                           | 117                               | 3                               | -                       | -                    |
| 15      | Jharkhand                      | 117.24                     | 15                    | 117.24                     | 15                      | -                              | -                           | -                                 | -                               | -                       | -                    |
| 16      | Karnataka                      | 1304.16                    | 57                    | 1112.05                    | 44                      | -                              | -                           | 192.11                            | 13                              | -                       | -                    |
| 17      | Kerala                         | 152.97                     | 10                    | 112.87                     | 6                       | 3                              | 1                           | 37.1                              | 3                               | -                       | -                    |

**[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]**

| Sl. No.   | State/UT       | Capacity of Municipal STPs | No. of Municipal STPs | Operational Capacity (MLD) | No. of STPs Operational | Non-operational Capacity (MLD) | No. of STPs Non-operational | Under Construction Capacity (MLD) | No. of STPs Under Constructions | Proposed Capacity (MLD) | No. of STPs Proposed |
|---|----------------|----------------------------|-----------------------|----------------------------|-------------------------|--------------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------|----------------------|
| 18  | Lakshadweep    | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 19  | Maharashtra    | 5160.36                    | 76                    | 4683.9                     | 60                      | 344.5                          | 10                          | 131.96                            | 6                               | -                       | -                    |
| 20  | Madhya Pradesh | 482.23                     | 17                    | 475.48                     | 14                      | 6.75                           | 3                           | -                                 | -                               | -                       | -                    |
| 21  | Manipur        | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 22  | Meghalaya      | 1                          | 1                     | -                          | -                       | 1                              | 1                           | -                                 | -                               | -                       | -                    |
| 23  | Mizoram        | 10                         | 1                     | -                          | -                       | -                              | -                           | 10                                | 1                               | -                       | -                    |
| 24  | Nagaland       | -                          | -                     | -                          | -                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 25  | Odisha         | 385.54                     | 13                    | 158.04                     | 7                       | -                              | -                           | 227.5                             | 6                               | -                       | -                    |
| 26  | Puducherry     | 68.5                       | 6                     | 17.5                       | 3                       | -                              | -                           | 51                                | 3                               | -                       | -                    |
| 27  | Punjab         | 1245.45                    | 86                    | 921.45                     | 38                      | 15.2                           | 4                           | 276.7                             | 31                              | 32.1                    | 13                   |
| 28  | Rajasthan      | 865.92                     | 63                    | 384.5                      | 16                      | -                              | -                           | 149.3                             | 11                              | 332.12                  | 36                   |
| 29  | Sikkim         | 31.88                      | 11                    | 8                          | 1                       | 5                              | 1                           | 18.88                             | 9                               | -                       | -                    |
| 30  | Tamil Nadu     | 1799.72                    | 73                    | 1140.83                    | 33                      | 5.17                           | 1                           | 521.08                            | 28                              | 132.64                  | 11                   |
| 31  | Telangana      | 685.8                      | 18                    | 634.8                      | 17                      | -                              | -                           | 51                                | 1                               | -                       | -                    |
| 32  | Tripura        | 0.05                       | 1                     | 0.045                      | 1                       | -                              | -                           | -                                 | -                               | -                       | -                    |
| 33  | Uttar Pradesh  | 2646.84                    | 73                    | 2372.25                    | 62                      | 89.59                          | 7                           | 170                               | 3                               | 15                      | 1                    |
| 34  | Uttrakhand     | 152.9                      | 24                    | 90.75                      | 10                      | -                              | -                           | 39.15                             | 12                              | 23                      | 2                    |
| 35  | West Bengal    | 416.9                      | 28                    | 235.36                     | 16                      | 181.54                         | 12                          | -                                 | -                               | -                       | -                    |
| <b>Total</b>  |                | <b>23277.36</b>            | <b>816</b>            | <b>18883.2</b>             | <b>522</b>              | <b>1237.16</b>                 | <b>79</b>                   | <b>2528.36</b>                    | <b>145</b>                      | <b>628.64</b>           | <b>70</b>            |
| <b>Note : ‘ - ‘ indicates that information not received from concerned SPCB/PCC</b> |                |                            |                       |                            |                         |                                |                             |                                   |                                 |                         |                      |

#### 4.0 STATE-WISE DETAILS OF SEWAGE TREATMENT PLANTS

As stated earlier, CPCB has communicated to provide information on STPs as per prescribed format to all 35 SPCBs/PCCs. All SPCBs/PCCs provide the information in prescribed format and Arunachal Pradesh, Andaman & Nicobar Islands, Chhattisgarh, Daman Diu & Dadra Nagar Haveli, Lakshadweep, Manipur and Nagaland has informed that they do not have sewage treatment plant in their territory. Details of STPs of remaining 28 States/UTs are mentioned in subsequent section.

#### 4.1 STPs AT ANDHRA PRADESH

Andhra Pradesh has total number of 12 STPs having capacity of 247 MLD. Out of 12 STPs, 03 STPs of capacity 91 MLD are under construction. Detail is mentioned in Table 4.

Table 4:-STPs of Andhra Pradesh

| Sl. No. | City/town    | STP Location            | STP Commissioned in (Year) | Status (Operational /Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|---------|--------------|-------------------------|----------------------------|---|----------------------------|--|--------------------------|
| 1.      | Rajamundry   | Rajamundry, EG district | Information not provided   | Operational   | 30                         | Information not provided                           | Information not provided |
| 2.      | Tirupathi    | Tukivakam               |                            | Operational   | 25                         |  |                          |
| 3.      | Vijayawada   | Azithsinghnagar         |                            | Operational   | 27.27                      |  |                          |
| 4.      |              | Azithsinghnagar         |                            | Under Construction  | 40                         |  |                          |
| 5.      |              | Auto Nagar              |                            | Operational   | 10                         |  |                          |
| 6.      |              | Ramalingeswara Nagar    |                            | Operational   | 10                         |  |                          |
| 7.      |              | Poornanadampet          |                            | Operational   | 14                         |  |                          |
| 8.      |              | Visakhapatnam           |                            | Appughar  | Operational                |  |                          |
| 9.      | Muvasalava   |                         |                            | Under Construction  | 13                         |  |                          |
| 10.     | Old town     |                         |                            | Under Construction  | 38                         |  |                          |
| 11.     | Port area    |                         |                            | Operational   | 10                         |  |                          |
| 12.     | Vizianagaram | Pedda Chruvu            |                            | Operational   | 5                          |  |                          |

#### 4.2 STPs AT ANDAMAN & NICOBAR ISLAND

Andaman & Nicobar Islands has zero number of STPs.

#### 4.3 STPs AT ARUNACHAL PRADESH

Arunachal Pradesh has zero number of sewage treatment plants.

#### 4.4 STPs AT ASSAM

Assam has 1STP of capacity 0.21 MLD. Table 6 shows the details of STP in Assam.

Table 6: STPs- Assam

| Sl. NO | City/town                  | STP Location                               | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|----------------------------|--|----------------------------|---|----------------------------|--|----------------|
| 1.     | Ds Hospitality (Assam) Ltd | GMDA truck yard near IBP petrol pump NH-37 | Information Not provided   | Construction completed                                    | 0.21                       | SAFF   | NOC Accorded   |

#### 4.5 STPs AT BIHAR

There are 06 numbers of STPs having treatment capacity of 125 MLD. 01 STP installed at Pahari, Patna is non-operational. Details of STPs of Bihar are shown in Table 7.

Table 7: STPs-Bihar

| Sl. No | City/town   | STP Location                | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                      |
|--------|-------------|-----------------------------|----------------------------|---|----------------------------|--|---|
| 1      | Patna       | Saidpur STP Old Unit, Patna | Information not provided   | Operational   | 4.55                       | ASP  | Information not provided                            |
| 2      |             | Saidpur STP, Patna          |                            | Operational   | 45                         | ASP  | Consent from SPCB has been provided but not renewed |
| 3      |             | Beur STP, Patna, Bihar      |                            | Operational   | 35                         | ASP  |   |
| 4      |             | Pahari, Patna-7             |                            | Not functional at the time monitoring                     | 25                         | Aerated Lagoon                                     |   |
| 5      | Karmalichak | Karmalichak                 |                            | Operational   | 4                          | Aerated Lagoon                                     |   |
| 6      | Bhagalpur   | Bhagalpur STP               |                            | Operational   | 11                         | Aerated Lagoon                                     |   |

#### 4.6 STPs AT CHANDIGARH

In Chandigarh, there are 05STPs with capacity of 314 MLD. Only 01 STP at Raipur Kalan has valid consent to operate and remaining STPs do not have valid consent to operate. Detail information of plants is placed in Table 8.

Table 8: STPs-Chandigarh

| Sl.No. | City/Town          | STP Location                      | STP Commissioned in (Year)           | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                      |
|--------|--------------------|-----------------------------------|--------------------------------------|--|----------------------------|--|-------------------------------------|
| 1      | Chandigarh         | Diggian, Mohali                   | 1966 (1st Phase)                     | 30 MGD-Operational                                       | 205                        | UASB-30 MGD,                                       | This is in the jurisdiction of PPCB |
|        |                    |                                   | 1987 (2nd Phase) 1991 (3rd Phase)    | 15 MGD-Under Renovation                                  |                            | ASP-15 MGD   |                                     |
| 2      |                    | 3 BRD, Near Sector-47, Chandigarh | 2004 & it commissioned in Nov., 2007 | Operational  | 73                         | 11 MGD-SBR, 5 MGD-UASB                             | No, under process                   |
| 3      |                    | Raipur Kalan, Chandigarh          | 2003                                 | Operational  | 23                         | UASB   | Yes                                 |
| 4      |                    | Raipur Khurd, Chandigarh          | 2003                                 | Operational  | 6                          | ASP  | No, under process                   |
| 5      | Dhanas, Chandigarh | 2013                              | Operational                          | 7.5  | SBR                        |  |                                     |

#### 4.7 STPs AT CHHATTISGARH

Chhattisgarh has zero number of sewage treatment plants.

#### 4.8 STPs AT Daman Diu & Dadra Nagar Haveli

Daman Diu 7 Dadra Nagar Haveli has zero number of sewage treatment plants.

#### 4.9 STPs AT DELHI

Delhi has 35 numbers of sewage treatment plants having treatment capacity of 2693.7 MLD. 01 STP installed at Ghitorni is non-operational. Details of STPs of Delhi are shown in Table 10.

Table 10: STPs-Delhi

| Sl. No | City/town  | STP Location            | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|------------|-------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 1      | Akshardham | STP Akshardham          | 2014                       | Operational  | 4.5                        | MBR  | Information not provided |
| 2      | Kondli     | STP Kondli phase-I      | 1987                       | Operational  | 45                         | ASP  |                          |
| 3      |            | STP Kondli Old Phase-II | 1989                       | Operational  | 112.5                      | ASP  |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town    | STP Location            | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|--------------|-------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 4      |              | STP Kondli Phase-III    | 2001                       | Operational  | 45                         | ASP  |                          |
| 5      |              | STP Kondli New Phase-IV | 2014                       | Operational  | 202.5                      | ASP  |                          |
| 6      | Papankalla   | STP Papankalla          | 2000                       | Operational  | 90                         | ASP  | Information not provided |
| 7      | Nazafgarh    | STP Nazafgarh           | 2002                       | Operational  | 22.5                       | EA   |                          |
| 8      | Yamuna Vihar | Yamunavihar Phase - I   | 1999                       | Operational  | 45                         | ASP  |                          |
| 9      |              | Yamunavihar Phase - II  | 2002                       | Operational  | 45                         | ASP  |                          |
| 10     | Rithla       | Rithla Old              | 1989                       | Operational  | 180                        | ASP  |                          |
| 11     |              | Rithla New              | 2014                       | Operational  | 180                        | ASP  |                          |
| 12     | Rohini       | Rohini Sec-25           | 2002                       | Operational  | 67.5                       | ASP  |                          |
| 13     | Okhla        | Okhla Phase - I         | 1937                       | Operational  | 135                        | ASP  |                          |
| 14     |              | Okhla Phase - II        | 1982                       | Operational  | 54                         | ASP  |                          |
| 15     |              | Okhla Phase-III         | 1993                       | Operational  | 202.5                      | ASP  |                          |
| 16     |              | Okhla Phase-IV          | 1993                       | Operational  | 166.5                      | ASP  |                          |
| 17     |              | Okhla Phase-V           | 2001                       | Operational  | 72                         | ASP  |                          |
| 18     |              | Okhla Phase-VI          | 2011-2012                  | Operational  | 135                        | ASP  |                          |
| 19     | Keshopur     | Keshopur Nilothe-I      | 1958                       | Operational  | 54                         | ASP  |                          |
| 20     |              | Keshopur Nilothe-II     | 1975                       | Operational  | 90                         | ASP  |                          |
| 21     |              | Keshopur Nilothe-III    | 1990                       | Operational  | 180                        | ASP  |                          |
| 22     |              | Nilothe-IV              | 2002                       | Operational  | 180                        | ASP  |                          |
| 23     | Coronation   | Coronation Pillar-I     | 1957                       | Operational  | 45                         | Trickling Filtration                               |                          |
| 24     |              | Coronation Pillar-II    | 1999                       | Operational  | 90                         | ASP  |                          |
| 25     | Narela       | Narela-I                | 2001                       | Operational  | 45                         | ASP  |                          |
| 26     |              | Narela-II               | 2014                       | Operational  | 27                         | ASP  |                          |
| 27     | Vasant Kunj  | Vasant Kunj-I           | 1982                       | Operational  | 22.5                       | EA   |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town                  | STP Location               | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|----------------------------|----------------------------|----------------------------|---|----------------------------|--|--------------------------|
| 28     |                            | Vasant Kunj-II             | 1997                       | Operational   | 9.9                        | EA   | Information not provided |
| 29     |                            | Vasant Kunj-III            | 1997                       | Operational   | 13.5                       | EA   |                          |
| 30     | Dr. Sen Nursing Home Nalla | Dr. Sen Nursing Home Nalla | 1998                       | Operational   | 9.9                        | Bio-Far  |                          |
| 31     | Delhi Gate Nalla           | Delhi Gate Nalla           | 1998                       | Operational   | 9.9                        | Bio-Far  |                          |
| 32     | Mehrauli                   | Mehrauli                   | 2003                       | Operational   | 22.5                       | ASP  |                          |
| 33     | Ghitorni                   | Ghitorni                   | 2014                       | Non Operational   | 22.5                       | ASP  |                          |
| 34     | Timarpur                   | Timarpur                   | -                          | Operational   | 27                         | OP   |                          |
| 35     | Chilla                     | Chilla                     | 2014                       | operational   | 40.5                       | SBR  |                          |

#### 4.10 STPs AT GOA

Goa has 07 numbers of sewage treatment plants having treatment capacity of 74.58 MLD. 031STPs of capacity 40.08 MLD are under construction. Details of STPs of Goa are shown in Table 11.

Table 11: STPs-Goa

| Sl. No | City/town | STP Location      | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status              |
|--------|-----------|-------------------|----------------------------|---|----------------------------|--|-----------------------------|
| 1      | Calangute | Calangute         | 2014                       | Under Construction  | 0.08                       | MBR  | CTE                         |
| 2      | Margao    | Navelim           | 2000                       | Operational   | 7.5                        | ASP  | Valid till October 15, 2014 |
| 3      |           | Navelim Shirvodem | 2014                       | Under Construction  | 20                         | ASP  | CTE                         |
| 4      | Mormugao  | Baina             | 1985                       | Operational   | 14                         | ASP  | Applied for renewal         |
| 5      |           | Baina             | 2014                       | Under Construction  | 20                         | SBR  | CTE                         |

|   |        |       |      |             |      |     |                 |
|---|--------|-------|------|-------------|------|-----|-----------------|
| 6 | Panaji | Patto | 2002 | Operational | 0.5  | TF  | Valid till 2016 |
| 7 |        | Tonca | 2005 | Operational | 12.5 | ASP | Valid till 2015 |

#### 4.11 STPs AT GUJARAT

Gujarat has 51 numbers of sewage treatment plants having treatment capacity of 3062.92 MLD. 04 STPs of capacity 498 MLD are Non-Operational, 08 STPs of capacity 359.5 MLD are under construction and 07 STPs of capacity 93.78 MLD are proposed. Details of STPs of Gujarat are shown in Table 12.

Table 12: STPs-Gujarat

| Sl. No | City/town   | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                   |
|--------|-------------|---|----------------------------|---|----------------------------|--|--|
| 1      | Gandhinagar | STP of Capital Project, Jaspur, Gandhinagar   | 2008                       | Operational   | 76                         | ASP  | Valid CCA up to 24/03/2016                       |
| 2      |             | Basan STP, S No. 218,219, Near IIT, Palaj-Basan road, Basan. Tal. & Dist. Gandhinagar | 2014 (Proposed)            | Constructed but yet not commissioned                      | 2                          | SBR  | NOC(CTE) Granted                                 |
| 3      |             | Sargasan Sewage Treatment Plant S. No. 111, Sargasan, Tal. & Dist. Gandhinagar        | 2014                       | Operational   | 10                         | SBR  | NOC(CTE) Granted and applied for CCA of the GPCB |
| 4      | Vadodara    | STP of VMSS, Atladara-I   | 2000                       | Operational   | 43                         | ASP  | Consent Valid up to 18/09/2014                   |
| 5      |             | STP of VMSS, Tarsali  | 1998                       | Operational   | 52                         | UASB   | Consent Valid up to 15/09/2014                   |
| 6      |             | STP of VMSS, Gajrawadi  | 1998                       | Operational   | 66                         | ASP  | Consent Valid up to 23/09/2014                   |
| 7      |             | STP of VMSS, Atladara-II  | 2004                       | Operational   | 43                         | UASB   | Consent Valid up to                              |



[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location                           | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status   |
|--------|-----------|--|----------------------------|---|----------------------------|--|--|
|        |           |  |                            |   |                            |  | 28/10/2014   |
| 8      |           | STP of VMSS, Kapurai                   | 2010                       | Operational   | 43                         | ASP  | Consent Valid up to 19/04/2015   |
| 9      |           | STP of VMSS, Sayaji Garden             | 2010                       | Operational   | 8.5                        | ASP  | Consent Valid up to 19/04/2015   |
| 10     |           | STP of VMSS, Chhani                    |                            | Under Construction  | 21                         | ASP  | CTE granted  |
| 11     | Talaja    | Talaja Nagarpalika, Bhavnagar, Gujarat | 2005                       | Operational   | 3                          | ASP  | -  |
| 12     | Bhavnagar | Ruvapari Road ,Bhavnagar, Gujarat      |                            | Proposed  | 35                         | UASB   | Presently having Oxidation Pond 20 MLD capacity consists 5 MLD industrail effluent of GIDC, Chitra & 15 MLD domestic W/W |
| 13     |           | Nari Road Bhavnagar, Gujarat           |                            | Proposed  | 45                         | UASB   | Presently having Oxidation Pond 20 MLD capacity consists 5 MLD industrail effluent of                                    |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town   | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                     |
|--------|-------------|--|----------------------------|---|----------------------------|--|------------------------------------|
|        |             |  |                            |   |                            |  | GIDC, Chitra & 15 MLD domestic W/W |
| 14     | Kunkavav    | Kunkavav, Dist. Amreli, Gujarat  |                            | Proposed  | 1.35                       | OP   | Applied for CTE of the Board       |
| 15     | Dhari       | Dhari, Dist. Amreli  |                            | Proposed  | 3.2                        | OP   | Applied for CTE of the Board       |
| 16     | Khambha     | Khambha, Dist. Amreli  |                            | Proposed  | 1.5                        | OP   | Applied for CTE of the Board       |
| 17     | Liliya Mota | Liliya Mota, Dist. Amreli, Gujarat   |                            | Proposed  | 1.73                       | OP   | Applied for CTE of the Board       |
| 18     | Savarkundla | Savarkundla Nagarpalika, Dist. Amreli, Gujarat   |                            | Proposed  | 6                          | OP   | Information not provided           |
| 19     | Palitana    | Palitana, Dist. Bhavnagar, Gujarat   | 2005                       | Operational   | 4.5                        | OP   |                                    |
| 20     | Ahmedabad   | S. No. 93,10,113,115,117(P),118,119,92,104,105,109,111,112,116,120 near Vinobabhavengar, Vill. Vinzol, Ahmedabad | 2011                       | Operational   | 70                         | UASB   | 13/08/2018                         |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town   | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                       |
|--------|---|---|----------------------------|---|----------------------------|--|--------------------------------------|
| 21     | Ankleshwar Nagarpalika, Ankleshwar, Dist. Bharuch                   | Sukhavali, Ankleshwar   | 2001                       | Operational   | 150                        | OP   | Information not provided             |
| 22     | Ankleshwar Notified Area Authority, GIDC, Ankleshwar, Dist. Bharuch | Plot No. 624/B, GIDC, Ankleshwar  | 2008                       | Operational   | 22.5                       | ASP  | Obtained                             |
| 23     | Kevadia Colony, Dist. Narmadada                                     | Kevadia Colony, Ta. Nandod, Dist. Narmada   | 2007                       | Operational   | 2.64                       | OP   | Obtained                             |
| 24     | Ahmedabad   | Old Pirana Sewage Treatment Plant, Pirana Road, Behrampura                                | 2001                       | Operational   | 106                        | UASB   | CCA, Obtained valid up to 10/03/2016 |
| 25     |   | Pirana Sewage Treatment Plant 60 MLTD in compound of 106 MLD STP, Pirana Road, Behrampura | 2010                       | Operational   | 60                         | ASP  | CCA, valid up to 11/04/2018          |
| 26     |   | New Pirana Sewage Treatment Plant, Pirana Octroi Naka, Pirana Road, Ahmedabad             | 2001                       | Not in Operation  | 182                        | OP   | CCA, reflected on 21/06/2011         |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                           |
|--------|-----------|---|----------------------------|---|----------------------------|--|--|
| 27     |           | New Pirana Sewage Treatment Plant (180MLD), Near 182 MLD STP. Pirana, Ahmedabad | 2008                       | Operational   | 180                        | ASP  | CCA, valid up to 11/04/2018              |
| 28     |           | Old Vasna Sewage Treatment Plant Near V.N. Bridge, Narol Sarkhej High Way       | 2001                       | Operational   | 126                        | UASB   | CCA, valid up to 10/03/2016              |
| 29     |           | Vasna STP-135, between V.N. Bridge and Toll from Sabarmati, Vasna               | 2011                       | Operational   | 35                         | ASP  | CCA, valid up to 11/04/2018              |
| 30     |           | New Vasna STP, Narol-Sarkhje High Way   | 1995                       | Not in operational  | 76                         | OP   | CCA Renewal Appln rejected on 26/05/2011 |
| 31     |           | Vasna STP, 97/A/1, at Sabarmati River, Vasna                                    | 2011                       | Not in operational  | 240                        | ASP  | CCA, valid up to 28/07/2018              |
| 32     |           | AMC, Jalvihar, Old Vadarj   | Proposed                   | Open Land, yet construction not started                   | 60                         | -  | Applied for CTE                          |
| 33     |           | AMC, Jalvihar, Near Bhavans College, Khanpur                                    | Proposed                   | Open Land, yet construction not started                   | 60                         | -  | Applied for CTE                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town           | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                |
|--------|---------------------|--|----------------------------|--|----------------------------|--|---|
| 34     | Sanand              | Sanand   | 2015                       | Under Construction                                       | 20.5                       | Under Construction                                 | STP Nagarpalika                               |
| 35     | Vallabh Vidhyanagar | Vill. Vallabh Vidhyanagar  | 1987 Old STP               | STP not in working condition                             | -                          | -  | -   |
| 36     | Rajkot              | Raiya STP, Vill. Raiya Rajkot Managar Palika Rajkot  | 1/10/2010                  | Operational  | 51                         | ASP  | AWH-53277 Validity up to 17/03/2016           |
| 37     |                     | STP Rajkot Municipal Corporation S No. 61,64,111,120& 121 Paiki, Ishwarya Temple Road, Vill.- Madhapar, Dist. Rajkot | 1/2/2004                   | Operational  | 12                         | ASP  | AWH-52754 Validity up to 07/02/2015           |
| 38     |                     | STP of Rajkot Mahanagar Palika at Raiyadhar, Raiya Road, Rajkot  | -                          | Under Construction                                       | 56                         | -  | Applied for CTE                               |
| 39     |                     | STP of Rajkot Mahanagar Palika at Gauridad, Ta & Dist. Rajkot  | -                          | Under Construction                                       | 70                         | -  | Applied for CTE                               |
| 40     | Surat               | Block No. 1/P, 11/P 13to19 at Asarma, Ta. Choryasi, Dist. Surat  | 2009                       | In operational   | 15                         | ASP  | Expired on 17/06/2014 and applied for renewal |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                |
|--------|-----------|---|----------------------------|--|----------------------------|--|---|
| 41     |           | Near Anand Park Society, Opp. Akhand Anand College  | 2003                       | In operational   | 155                        | ASP  | Valid up to 05/02/2019                        |
| 42     |           | City S. No. 10 Paiky 11& 13 Paiky14, Final Plot 119 | 1958                       | In operational   | 82.5                       | UASB   | Valid up to 28/03/2019                        |
| 43     |           | Survey No. 46, Vadod                                | 2011                       | In operational   | 100                        | ASP  | Valid up to 28/04/2016                        |
| 44     |           | Bhatar, SMC. Surat                                  | 1999                       | In operational   | 162                        | ASP  | Valid up to 31/01/2019                        |
| 45     |           | S. No. 44,45,51, 56-62                              | 1995                       | In operational   | 100                        | ASP  | Valid up to 17/02/2019                        |
| 46     |           | Moje. Dindoli                                       | 2009                       | In operational   | 66                         | ASP  | Valid up to 10/12/2018                        |
| 47     |           | Karanj, SMC, Surat                                  | 1999                       | In operational   | 142                        | ASP  | Valid up to 09/03/2019                        |
| 48     |           | Vill. Khajod, Ta. Choryasi, Dist. Surat             | 2009                       | In operational   | 25                         | ASP  | Expired on 17/06/2014 and applied for renewal |
| 49     |           | Block No. 128, Kosad Amroli Road, Kosad             | 2012                       | In operational   | 84                         | ASP  | Expired on 18/04/2013 extension pending       |
| 50     |           | Sandhpore Pardi, Valsad                             | 1998                       | Operational  | 16                         | ASP  | Not obtained                                  |
| 51     |           | Jamnagar Municipal Corporation, Jamnagar            | 2015                       | Under Construction                                       | 70                         | ASP  | CTE obtained                                  |

#### 4.12 STPs AT HARYANA

Haryana has 41 numbers of sewage treatment plants having treatment capacity of 852.7 MLD. 02 STPs of capacity 2.7 MLD are Non-Operational and 01 STP of capacity 45 MLD is under construction. Details of STPs of Haryana are shown in Table 13.

Table 13: STPs-Haryana

| Sl. No | City/town             | STP Location                   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-----------------------|--------------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 1      | Sonipat               | Shiv road                      | Information not provided   | Operational  | 35                         | UASB   | Information not provided |
| 2      | Panipat               | STP Panipat Dodala road, Siwah |                            | Under Construction                                       | 45                         | UASB   |                          |
| 3      |                       | Jattal Road                    |                            | Operational  | 25                         | UASB   |                          |
| 4      | Gurgaon               | Gurgaon-I                      |                            | Operational  | 157.5                      | UASB   |                          |
| 5      |                       | Gurgaon-II                     |                            | Operational  | 67.5                       | ASP  |                          |
| 6      | Faribadab             | Badshapur                      |                            | Operational  | 45                         | SBR  |                          |
| 7      |                       | Mirjapur                       |                            | Operational  | 45                         | SBR  |                          |
| 8      |                       | Pratapgarh                     |                            | Operational  | 50                         | SBR  |                          |
| 9      |                       | Palwal                         |                            | Operational  | 9                          | SBR  |                          |
| 10     |                       | Hodal                          |                            | Operational  | 9                          | MBR  |                          |
| 11     | Karnal                | Sector-4                       |                            | Operational  | 40                         | UASB   |                          |
| 12     |                       | Near Shv Colony WCJ            | Operational                | 8  | Oxidation Pond             |  |                          |
| 13     |                       | New Anaj Mandi Indri           | Non Operational            | 1.5  | oxidation Pond             | Information not provided                           |                          |
| 14     | Gharonda Railway Road | Operational                    | 3                          | oxidation Pond   |                            |  |                          |
| 15     | Bhadurgarh            | Bhadurgarh                     | Operational                |  | USB                        |  |                          |
| 16     |                       | Bhadurgarh                     | Operational                | 36   | SBR                        |  |                          |
| 17     | Jhajjar               | Jhajjar                        | Operational                | 5.5  | MBBR                       |  |                          |
| 18     | Kalanur               | Kalanur                        | Operational                | 3.5  | MBBR                       |  |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town    | STP Location            | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |                |                          |
|--------|--------------|-------------------------|----------------------------|--|----------------------------|--|----------------|----------------|--------------------------|
| 19     | Bhiwani      | Bhiwani Town Plant-I    |                            | Operational  | 20                         | SBR  |                |                |                          |
| 20     |              | Bhiwani Town Plant-II   |                            | Operational  | 10                         | SBR  |                |                |                          |
| 21     |              | Dardi Road Bhiwani      |                            | Operational  | 30                         | SBR  |                |                |                          |
| 22     | Chakri Dadri | Chakri, Dadri           |                            | Operational  | 5                          | SBR  |                |                |                          |
| 23     | Meham        | Meham                   |                            | Operational  | 5                          | MBBR   |                |                |                          |
| 24     | Rohtak       | Rohtak                  |                            | Operational  | 10                         | SBR  |                |                |                          |
| 25     | Rewari       | Nasiaji Road Rewari     |                            | Operational  | 16                         | MBBR   |                |                |                          |
| 26     |              | Kaluwat Village         |                            | Operational  | 6.5                        | MBBR   |                |                |                          |
| 27     | Panchkula    | STP Panchkula Sector 20 |                            | Operational  | 18                         | ASP  |                |                |                          |
| 28     |              | STP Panchkula Sector 20 |                            | Operational  | 39                         | ASP  |                |                |                          |
| 29     |              | STP Panchkula Sector 28 |                            | Operational  | 15                         | ASP  |                |                |                          |
| 30     | Kalka        | STP Kalka               |                            | Non Operational  | 1.2                        | EA   |                |                |                          |
| 31     | Beri         | STP, Beri Town          |                            | Information not provided                                 | Operational                | 2  |                | Oxidation Pond | Information not provided |
| 32     | Jind         | STP, Jind               |                            |  | Operational                | 15   |                | MBBR           |                          |
| 33     | Uchana       | STP, Uchana             |                            |  | Operational                | 4.5  |                | EA             |                          |
| 34     | Narvana      | STP Narvana             |                            |  | Operational                | 3.5  |                | MBBR           |                          |
| 35     |              | STP- II No., Narvana    |                            |  | Operational                | 3.75   |                | MBBR           |                          |
| 36     | Kaithal      | STP-SBR,                |                            |  | Operational                | 10   |                | SBR            |                          |



| Sl. No | City/town    | STP Location                  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|--------------|-------------------------------|----------------------------|--|----------------------------|--|----------------|
| 37     |              | STP-MBBR, Kaithal             |                            | Operational  | 10                         | MBBR   |                |
| 38     | Ambala       | Ambala                        |                            | Operational  | 4.5                        | MBBR   |                |
| 39     |              | STP Ambala City Naya Gaon     |                            | Operational  | 3.25                       | MBBR   |                |
| 40     | Yamuna Nagar | STP Yamuna Nagar- Radaur Road |                            | Operational  | 25                         | UASB   |                |
| 41     |              | STP Yamuna Nagar- Baddi Majra |                            | Operational  | 10                         | UASB   |                |

#### 4.13 STPs AT HIMACHAL PRADESH

Himachal Pradesh has 66 numbers of sewage treatment plants having treatment capacity of 114.72 MLD. 30 STPs of capacity 35.21 MLD are under construction. Details of STPs of Himachal Pradesh are shown in Table 14.

Table 14: STPs-Himachal Pradesh

| Sl. No | City/town | STP Location      | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status             |
|--------|-----------|-------------------|----------------------------|--|----------------------------|--|----------------------------|
| 1      | Bilaspur  | STP Ghumarawin    | 2005-2006                  | operational  | 1.2                        | ASP  | RCOP valid upto 31.03.2016 |
| 2      |           | STP Naina Devi ji | 2005-2006                  | operational  | 1.35                       | ASP  | RCOP valid upto 31.03.2016 |
| 3      |           | STP Bilaspur      | Information not provided   |  | Non operational            | 1.5  | Septic Tank                |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

|    |                       |  |                 |             |       |     |                            |
|----|-----------------------|--|-----------------|-------------|-------|-----|----------------------------|
| 4  | Chamba                | STP ChambaBarga                        | 20.03.2008      | operational | 1.5   | ASP | RCOP valid upto 31.03.2016 |
| 5  |                       | STP ChambaBhagot                       | 25.02.2008      | operational | 0.898 | ASP | RCOP valid upto 31.03.2011 |
| 6  |                       | STP Shitla Bridge                      | 23.03.2010      | operational | 0.2   | ASP | COE upto 2011              |
| 7  | Hamirpur              | STP Hamirpur, Distt. Hamirpur Zone II  | 06.08.2008      | operational | 1.35  | ASP | RCOP valid upto 31.03.2015 |
| 8  |                       | STP Hamirpur, Distt. Hamirpur Zone I   | 23.01.2010      | operational | 3.13  | ASP | RCOP valid upto 31.03.2015 |
| 9  |                       | STP Hamirpur, Distt. Hamirpur Zone III | 23.01.2010      | operational | 0.68  | ASP | Information not provided   |
| 10 | STP Sujampur, Zone-II | Information not provided               | Non operational | 1.75        | ASP   |     |                            |
| 11 | STP Nadaun            |  | Non operational | 1.69        |       |     |                            |
| 12 | Kullu                 | STP BhootnathKullu                     | 2006-2007       | operational | 2.5   | ASP | RCOP valid upto 31.03.2018 |
| 13 |                       | STP Manali                             | 2006-2007       | operational | 1.82  | ASP | RCOP valid upto 31.03.2016 |
| 14 |                       | STP Badah                              | 2008-2007       | operational | 0.38  | ASP | RCOP valid upto 31.03.2018 |
| 15 |                       | STP Lanka Baker                        | 2009-2010       | operational | 2.57  | ASP | RCOP valid upto 31.03.2015 |
| 16 |                       | STP Mela Ground (Bhunter)              | 2006-2007       | operational | 0.99  | ASP | RCOP valid upto 31.03.2016 |
| 17 |                       | STP Sharabai (Bhunter)                 | 2006-2007       | operational | 0.46  | ASP | RCOP valid upto 31.03.2016 |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

|    |                  |                                      |                          |                 |                          |                         |                              |
|----|------------------|--------------------------------------|--------------------------|-----------------|--------------------------|-------------------------|------------------------------|
| 18 | Una              | Una Zone-C                           | Information not provided | operational     | Information not provided | ST                      | RCOP valid upto 31.03.2014   |
| 19 |                  | Mehatpur, D Distt. Una               |                          | operational     |                          | ST                      | COP is valid upto 31.03.2011 |
| 20 |                  | STP Sujanpur Zone-I                  |                          | operational     | 1.5                      | EAP                     | RCOP valid upto 31.03.2015   |
| 21 |                  | STP, Santokhgarh, Distt. Una zone-II |                          | Non operational | 1.65                     | ASP                     | COE given on 01.10.2010      |
| 22 |                  | STP, Santokhgarh, Distt. Una zone-I  |                          | Non operational | 786 user                 | Septic Tank/Soak pit    | COE given on 01.10.2010      |
| 23 |                  | STP,Una zone-A                       |                          | Non operational | 2.53                     | ASP                     | COE given on 30.09.2014      |
| 24 |                  | STP Garget                           |                          | Non operational | 3.14                     | EAP                     | COE given on 11.12.2014      |
| 25 | STP Una zone D   |                                      | Non operational          | 0.63            | ASP                      | COE given on 30.09.2014 |                              |
| 26 | STP Mehatpur ABC |                                      | Non operational          | 0.77            | ASP                      | COE given on 02.06.2012 |                              |
| 27 | Shimla           | STP-North Disposal Shimla            | 2003                     | operational     | 5.8                      | EAP                     | RCOP valid upto 31.03.2016   |
| 28 |                  | STP Dhalli, Shimla                   | 2003                     | operational     | 0.76                     | EAP                     | RCOP valid upto 31.03.2016   |
| 29 |                  | STP-Summer hill, Shimla              | 2003                     | operational     | 3.93                     | EAP                     | RCOP valid upto 31.03.2016   |
| 30 |                  | STP-Snowdown, Shimla                 | 2003                     | operational     | 1.35                     | EAP                     | RCOP valid upto 31.03.2016   |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

|    |       |                                   |                          |                 |       |                                    |                            |
|----|-------|-----------------------------------|--------------------------|-----------------|-------|------------------------------------|----------------------------|
| 31 |       | STP Rampur, (Khopri) Distt Shimla | Information not provided | operational     | 1     | ASP                                | RCOP valid upto 31.03.2016 |
| 32 |       | Rampur (Choohabag)                |                          | operational     | 0.5   | ASP                                | RCOP valid upto            |
| 33 |       | STP Rohroo                        |                          | operational     | 1.015 | EAP                                | RCOP valid upto 31.03.2016 |
| 34 |       | STP SanjualiMalyana               |                          | operational     | 4.44  | EAP                                | RCOP valid upto 31.03.2016 |
| 35 |       | STP Lalpani                       |                          | operational     | 19.35 | Anaerobic System<br>Aerobic System | RCOP valid upto 31.03.2016 |
| 36 |       | STP Jubbal                        |                          | operational     | 0.65  | EAP                                | RCOP valid upto 31.03.2016 |
| 37 |       | STP Narkanda                      |                          | Non operational | 0.45  | EAP                                | COE given on 28.07.2010    |
| 38 |       | STP Kotkhai Zone-I                |                          | Non operational | 0.305 | EAP                                | COE given on 09.06.2011    |
| 39 |       | STP Kotkhai Zone-II               |                          | Non operational | 0.16  | EAP                                | COE given on 09.06.2011    |
| 40 |       | STP Suni                          |                          | Non operational | 0.65  | EAP                                | COE given on 28.11.2013    |
| 41 |       | STP Theog                         |                          | Non operational | 1.15  | EAP                                | COE given on 24.12.2015    |
| 42 | Mandi | STP Khaliar, DisttMandi           | 2004-2005                | operational     | 0.47  | ASP                                | RCOP valid upto 31.03.2016 |
| 43 |       | STP RaghunathKardhar, Mandi       | 2004-2005                | operational     | 3.83  | ASP                                | RCOP valid upto 31.03.2016 |
| 44 |       | STP, Sunder Nagar, Distt. Mandi   | 2007-2008                | operational     | 3.55  | ASP                                | Without consent            |

[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

|    |         |  |                          |                 |       |                          |                             |
|----|---------|--|--------------------------|-----------------|-------|--------------------------|-----------------------------|
| 45 |         | STP Rewalsar                                   | Information not provided | Non operational | 0.35  | Aerobic Sludge Digestion | COE given on 15.01.2014     |
| 46 |         | STP Sarkaghat, Distt. Mandi zone C             |                          | Non operational | 1.67  | EAP                      | COE given on 06.10.2008     |
| 47 |         | STP at NeriKhadd, Joginder Nagar, Distt. Mandi | 2009-2010                | operational     | 1.735 | EAP                      | RCOP valid upto 31.03.2015  |
| 48 | Kangra  | STP Dharamsala, Distt. Kangra                  | 10.10.2006               | operational     | 5.15  | AD                       | RCOP valid upto 31.03.2018  |
| 49 |         | STP Jwalamukhi, Distt. Kangra                  | 19.10.2004               | operational     | 3.66  | AD                       | RCOP valid up to 31.03.2013 |
| 50 |         | STP Palampur                                   | 2005                     | operational     | 0.351 | AD                       | Without Consent             |
| 51 |         | STP Kangra zone I                              |                          | Non operational | 1.68  | EAP                      | COE given on 15.03.2008     |
| 52 |         | STP Kangra zone II                             | Information not provided | Non operational | 1.46  | EAP                      | COE given on 15.03.2008     |
| 53 |         | STP Kangra zone III                            |                          | Non operational | 0.59  | EAP                      | COE given on 15.03.2008     |
| 54 |         | STP Dehra                                      |                          | Non operational | 1.38  | Aerobic Sludge Digestion | COE given on 27.08.2008     |
| 55 |         | STP Nagrota                                    | 29.03.2007               | Non operational | 1.34  | ASP                      | COE given on 29.03.2007     |
| 56 |         | STP Nurpur                                     | Information not provided | Non operational | 3.13  | Aerobic Sludge Digestion | COE given on 06.09.2010     |
| 57 |         | STP Bhangsunag                                 |                          | Non operational | 0.224 | ASP                      | COE given on 08.11.2011     |
| 58 | Kinnaur | STP Rekong-peo, Distt. Kinnaur                 |                          | operational     | 1     | ASP                      | COP valid up to 31.03.2008  |

|    |              |                            |                          |                 |       |             |                         |
|----|--------------|----------------------------|--------------------------|-----------------|-------|-------------|-------------------------|
| 59 | Solan        | STP Solan Zone B           |                          | Non operational | 2.9   | EAP         | COE given on 10.04.2008 |
| 60 |              | STP Arki                   |                          | Non operational | 0.7   | EAP         | COE given on 06.02.2007 |
| 61 | Sirmour      | STP, Paonta Sahib Zone II  |                          | Non operational | 1     | ASP         | COE given on 08.07.2008 |
| 62 |              | STP, Paonta Sahib Zone III |                          | Non operational | 1.72  | ASP         | COE given on 08.07.2008 |
| 63 |              | STP, Paonta Sahib Zone I   |                          | operational     | 0.44  | ASP         | COE given on 08.07.2008 |
| 64 | Lahaul&Spiti | STP Keylong phase-I        |                          | Non operational | 0.188 | Septic Tank | COE given on 20.12.2008 |
| 65 |              | STP Keylong phase-II       | Information not provided | Non operational | 0.289 | Septic Tank | COE given on 20.12.2008 |
| 66 |              | STP Keylong phase-III      |                          | Non operational | 0.215 | Septic Tank | COE given on 20.12.2008 |

#### 4.14 STPs AT JAMMU & KASHMIR

Jammu & Kashmir has 19 numbers of sewage treatment plants having treatment capacity of 264.74 MLD. 03 STPs of capacity 117 MLD are under construction and 01 STPs of capacity 02 MLD is non-operational. Details of STPs of Jammu & Kashmir are shown in Table 15.

Table 15: STPs-Jammu & Kashmir

| Sl. No | City/town  | STP Location     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|------------|------------------|----------------------------|---|----------------------------|--|----------------|
| 1      | Jammu      | Bhagwati Nagar   | 2009-10 (UEED-Jammu)       | Operational   | 10                         | UASB   | Applied        |
| 2      |            | MPD/CPWD Satwari | 2009                       | operational   | 1                          | ASP  | Not applied    |
| 3      | Reasikatra | KatraBhawan      | 2005                       | Non Operational   | 2                          | ASPA   | -do-           |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town          | STP Location                     | STP Commissioned in (Year)                               | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|--------------------|----------------------------------|--|--|----------------------------|--|--------------------------|
| 4      |                    | Katra Basement, near Gita Mandir | 2006   | Operational  | 0.5                        | ASP  | --do-                    |
| 5      | Jammu              | Bhagwati Nagar                   | Likely to be commissioned in 2013-14 UEED Jammu          | under construction                                       | 27                         | UASB   | Not applied              |
| 6      |                    | Bhagwati Nagar                   | Likely to be commissioned in the year 2013-14 UEED Jammu | under construction                                       | 30                         | UASB   | Not applied              |
| 7      | Srinagar           | Hazratbal ó Srinagar             | 2006   | operational  | 7.5                        | MBBR   | Applied                  |
| 8      |                    | Habak                            | 2006   | operational  | 3.2                        | MBBR   | Information not provided |
| 9      |                    | Nishat                           | 2006   | -do-   | 4.5                        | MBBR   |                          |
| 10     |                    | Srinagar Barinambal              | 1993-94  | -do-   | 17.1                       | ASP  |                          |
| 11     |                    | SKIMS Srinagar                   | -  | -do-   | 2.4                        | ASP  |                          |
| 12     |                    | Nallah Amir khan Srinagar        | 2010-11 LAWDA  | -do-   | 5.4                        | SBR  |                          |
| 13     | Srinagar           | Barinbal Srinagar                | -do-   | -do  | 16.1                       | SBR  |                          |
| 14     |                    | Barinbal Srinagar                | -do-   | -do-   | 7                          | SBR  |                          |
| 15     |                    | Noor Bagh                        | UEED Srinagar  | Proposed/Under construction                              | 60                         | ASP  |                          |
| 16     |                    | Alochibagh                       | 2010-11  | do   | 50.24                      | Not specified DPR                                  |                          |
| 17     | Srinagar-Parimpora | Parimpora                        | 2010-11  | do   | 11.98                      | ASP  | Information not provided |
| 18     | Srinagar           | Mujgund                          | UEED   | do   | 3.82                       | SBR  |                          |

| Sl. No | City/town | STP Location       | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|-----------|--------------------|----------------------------|--|----------------------------|--|----------------|
| 19     |           | B.D.Cantt Srinagar | Under Army                 | do   | 5                          | ASP  |                |

#### 4.15 STPs AT JHARKHAND

Jharkhand has 15 numbers of sewage treatment plants having treatment capacity of 117.24 MLD. Details of STPs of Jharkhand are shown in Table 16.

Table 16: STPs-Jharkhand

| Sl.No. | City/town            | STP Location              | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|----------------------|---------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 1.     | Bokaro               | IEL Gomia Township        | 50 years ago               | Operational  | 1.6                        | SAS  | No                       |
| 2.     |                      | BSL Township(a) Sector 12 | Not Known                  | Operational  | 10.4                       | Lagoon   | Information not provided |
| 3.     |                      | (b) Sector 6              | Not Known                  | Operational  | 5.85                       | Lagoon   |                          |
| 4.     |                      | (c) Sector 11             | Not Known                  | Operational  | 2.57                       | Lagoon   |                          |
| 5.     |                      | (d) Dhandabara            | Not Known                  | Operational  | 11.4                       | Lagoon   |                          |
| 6.     |                      | (e) Camp II               | Not Known                  | Operational  | 0.582                      | Lagoon   |                          |
| 7.     |                      | (f) BGH                   | Not Known                  | Operational  | 1.17                       | Lagoon   |                          |
| 8.     | Jmshedpur            | STP Kharkai               | 1952                       | Operational  | 16                         | ASP  | 31/12/2014               |
| 9.     |                      | STP Bara                  | 1994                       | Operational  | 45                         | ASP  | 31/12/2014               |
| 10.    |                      | Baridih STP Unit-I        | 1952                       | Operational  | 4.5                        | OP   | Up to 2013               |
| 11.    |                      | Baridih STP Unit-II       | 1964                       | Operational  | 7.65                       | OP   | Up to 31/12/2013         |
| 12.    | UCIL<br>Jadugora, ES | Jadugoda STP              | 1995                       | Operational  | 4.086                      | ASP  | Up to 31/12/2012         |
| 13.    |                      | NarwaPahar STP            | 1995                       | Operational  | 2                          | ASP  | Up to 31/12/2012         |
| 14.    | HCL<br>Moubhandar    | Moubhandar                | 1985                       | Operational  | 0.8                        | Classified   | Up to 31/12/2007         |
| 15.    |                      | Moubhandar                |                            | Operational  | 3.636                      | Filtration   | Up to 31/12/2007         |



#### 4.16 STPs AT KARNATAKA

Karnatakahas 57 numbers of sewage treatment plants having treatment capacity of 1304.16 MLD. 13 STPs of capacity 192.11 MLD are under construction. Details of STPs of Karnataka are shown in Table 17.

Table 17: STPs-Karnataka

| Sl. No. | City/town | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|---------|-----------|--|----------------------------|--|----------------------------|--|--------------------------|
| 1       | Bangaluru | Nayandanahalli -I                                    | Information not provided   | Operational  | 180                        | Information not provided                           | Information not provided |
| 2       |           | Nayandanahalli -I                                    |                            | Operational  | 75                         |  |                          |
| 3       |           | Kempambudhi  |                            | Operational  | 1                          |  |                          |
| 4       |           | Nagasandra-Yemalur post, Chalaghatta Village-STP-I   |                            | Operational  | 163                        |  |                          |
| 5       |           | Nagasandra-Yemalur post, Chalaghatta Village-STP-II  |                            | Operational  | 55                         |  |                          |
| 6       | Bangaluru | Nagasandra-Yemalur post, Chalaghatta Village-STP-III | Information not provided   | Operational  | 30                         | Information not provided                           | Information not provided |
| 7       |           | Kadabeesanahalli                                     |                            | Operational  | 50                         |  |                          |
| 8       |           | Madiwala   |                            | Operational  | 4                          |  |                          |
| 9       |           | Nagasandra   |                            | Operational  | 20                         |  |                          |
| 10      |           | Hebbal   |                            | Operational  | 60                         |  |                          |
| 11      |           | Yelahanka  |                            | Operational  | 10                         |  |                          |
| 12      |           | Jakkur   |                            | Operational  | 10                         |  |                          |
| 13      |           | Rajacanal  |                            | Operational  | 40                         |  |                          |
| 14      |           | K.R. Puram   |                            | Operational  | 20                         |  |                          |
| 15      |           | Cubbon Park  |                            | Operational  | 1.5                        |  |                          |
| 16      |           | Lalbagh  |                            | Operational  | 1.5                        |  |                          |
| 17      | Ramanagar | Ramanagar  | Operational                | 7.56   |                            |  |                          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/town     | STP Location                | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|---------|---------------|-----------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 18      | Kolar         | Kolar                       | Information not provided   | Operational  | 10.16                      | Information not provided                           | Information not provided |
| 19      |               | Srinivasapura               |                            | Operational  | 3                          |  |                          |
| 20      | Chikballapura | Chikballapura               |                            | Under Construction                                       | 3.1                        |  |                          |
| 21      |               | Chintamanai                 |                            | Yet to commission  | 2                          |  |                          |
| 22      | Chamarajnagar | Kollegal                    |                            | Operational  | 3.34                       |  |                          |
| 23      |               | Chamarajnagar               |                            | Under Construction                                       | 9                          |  |                          |
| 24      | Hassan        | Hassan                      |                            | Operational  | 10                         |  |                          |
| 25      | Mandya        | Chikkegowdana doddi, Mandya |                            | Operational  | 9.2                        |  |                          |
| 26      |               | Guttahalu, Mandya           |                            | Operational  | 1.58                       |  |                          |
| 27      |               | Maddur                      |                            | Operational  | 3.5                        |  |                          |
| 28      |               | Srirangapatana              |                            | Operational  | 1.39                       |  |                          |
| 29      | Mysore        | Rayankere, Mysore           |                            | Operational  | 60                         |  |                          |
| 30      |               | Vidyaranyaपुरam, Maysorfe   |                            | Operational  | 67.65                      |  |                          |
| 31      |               | Kesare, Maysore             |                            | Operational  | 30                         |  |                          |
| 32      |               | Hunsur, Maysore             |                            | Operational  | 3.9                        |  |                          |
| 33      |               | K. R. Nagar                 |                            | Operational  | 1.44                       |  |                          |
| 34      |               | K. R. Nagar                 |                            | Operational  | 1.45                       |  |                          |
| 35      |               | Bannur                      |                            | Operational  | 3.85                       |  |                          |
| 36      | Chikamagalur  | Chikamagalur                |                            | Under Construction                                       | 25                         |  |                          |
| 37      | Karwar        | Karkalla                    |                            | Operational  | 1.5                        |  |                          |
| 38      |               | Bhatkalla                   |                            | Operational  | 3.5                        |  |                          |
| 39      | Mangalore     | Kavoor STP and Tertiary     |                            | In operational. Operating at 18                          | 43.5                       |  |                          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/town  | STP Location      | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|---------|------------|-------------------|----------------------------|--|----------------------------|--|--------------------------|
|         |            | treatment Plant   |                            | MLD capacity   |                            |  |                          |
| 40      |            | Pachanady STP     |                            | Trail run  | 8.75                       |  |                          |
| 41      |            | Jeppinamogaru STP |                            | Under Contstruction                                      | 20                         |  |                          |
| 42      |            | Surathkal STP     |                            | Under Contstruction                                      | 16.5                       |  |                          |
| 43      |            | Sullia, Mangalore |                            | STP has installed, UGD work under construction           | 20                         |  |                          |
| 44      | Udupi      | Udupi             |                            | Operational  | 12                         |  |                          |
| 45      |            |                   |                            | Operational  | 5.5                        |  |                          |
| 46      |            |                   |                            | Operational  | 3                          |  |                          |
| 47      | Bagalkote  | Bagalkote         |                            | yet to commission  | 5                          |  |                          |
| 48      |            | Badam             |                            | Yet to commission  | 4.3                        |  |                          |
| 49      | Haveri     | Haveri            |                            | Under Contstruction                                      | 4.71                       |  |                          |
| 50      | Haveri     | Ranebennur        |                            | Yet to commission  | 7.5                        |  |                          |
| 51      | Bellary    | Ananthpur         |                            | Operating  | 30                         |  |                          |
| 52      |            | Cowl bazar        |                            | Operating  | 15                         |  |                          |
| 53      | Gulbarga   | Gulbarga          |                            | Under Contstruction                                      | 55                         |  |                          |
| 54      | Raichur    | Raichur           | Information not provided   | Under Contstruction                                      | 20                         |  | Information not provided |
| 55      | Davangere  | Davangere         |                            | Operational  | 19.45                      |  |                          |
| 56      | Bhadravati | Bhadravati        |                            | Operational  | 5.83                       | Information not provided                           |                          |
| 57      | Tumkur     | Tumkur            |                            | Operational  | 25                         |  |                          |

#### 4.17 STPs AT KERALA

Kerala has 10 numbers of sewage treatment plants having treatment capacity of 152.97 MLD. Out of 10 STPs, 01 STP of capacity 03 MLD is Non-Operational and 03 STPs of capacity 37.1 MLD are under construction. Details of STPs of Kerala are shown in Table 18.

Table 18: STPs-Kerala

| Sl. No. | City/town          | STP Location                                 | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                     |
|---------|--------------------|--|----------------------------|--|----------------------------|--|--|
| 1       | Thiruvananthapuram | Muttathara,                                  | 01.11.2013                 | Operational  | 107                        | ASP with extended aeration                         | Consent issued on 03.03.2014 valid upto 31.03.2016 |
| 2       | Ernakulam          | Marine Drive-GCDA-STP                        | 1984                       | Operational  | 0.6                        | ASP with extended aeration                         | Under Processing                                   |
| 3       |                    | KWA STP at Elamkulam                         | 1970                       | Operational  | 4.5                        | ASP  | Consent to Operate valid upto 30.06.2015           |
| 4       | Kottayam           | Kumarakam(Common STP for House Boat)         | 2007                       | Operational  | 0.09                       | Diffused aeration attached growth process          | Consent valid upto 30.06.2015                      |
| 5       | Alappuzha          | Kunnumma village (Common STP for House Boat) | 2014                       | Operational  | 0.18                       | Electrolytic coagulation                           | Consent expires on 31.12.2014 Applied for renewal  |
| 6       | Kannur             | Thaliparamba                                 | 2013                       | Operational  | 0.5                        | ASP  | Not applied for consent                            |

| Sl. No. | City/town               | STP Location    | STP Commissioned in (Year)         | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status   |
|---------|-------------------------|-----------------|------------------------------------|---|----------------------------|--|--|
| 7       | Guruvayoor Municipality | Chakkamkanda    | STP Units Constructed 4 years back | Non-Operational   | 3                          | ASP  | Consent issued valid upto 21.03.2011 Not applied for renewal                     |
| 8       | Kollam                  | Kureepuzha      | Information not provided           | Construction not started                                  | 11.6                       | MBBR   | Consent to establish issued valid upto 04.04.2014 applied for renewal            |
| 9       | Kochi                   | Mundenvely      |                                    | Construction not started                                  | 12                         | MBBR/SBR   | Consent to establish issued valid upto 25.05.2014                                |
| 10      | Kozhikode               | Karimpanampalam | Information not provided           | Construction not started                                  | 13.5                       | MBBR   | Consent to establish issued 11.05.2010 valid upto 10.05.2013 applied for renewal |

#### 4.18 STPs AT LAKSHADWEEP

Lakshadweep has zero number of sewage treatment plant.

#### 4.19 STPs AT MADHYA PRADESH

Madhya Pradesh has 17 numbers of sewage treatment plants having treatment capacity of 482.23MLD. Out of 17 STPs, 03 STPs of capacity 6.75 MLD are Non-Operational. Details of STPs of Madhya Pradesh are shown in Table 19.

Table 19: STPs-Madhya Pradesh

| Sl. No | City/town   | STP Location               | STP Commissioned in (Year) | Status (Operational/Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-------------|----------------------------|----------------------------|---|----------------------------|--|--------------------------|
| 1      | Ujjain      | Ujjain                     | Information not provided   | Operational   | 52                         | Waste stabilization pond                           | Information not provided |
| 2      |             | Sadaval                    | 2001                       | Operational   | 53                         | OPS Karnal Technology                              | Not obtained             |
| 3      | Gwalior     | Laltipara                  | 1.11.2010                  | Operational   | 50                         | WSP  | consent obtained         |
| 4      | Indore      | Kabitkhedi,                | 2006                       | Maintained & running by IMC through contractor          | 78                         | USAB   | Not obtained             |
| 5      |             | Kabitkhedi,                | 2009                       | Maintained & running by IMC through contractor          | 12                         | USAB   | Not obtained             |
| 6      | Burhanpur   | Burhandpur                 | 2009                       | Not in working condition                                | 6                          | OP   | Not obtained             |
| 7      | MC Jabalpur | Gwarighat                  | 2012                       | Operational   | 150                        | FAB  | Not obtained             |
| 8      | MC Bhopal   | Maholi Dhamkheda           | 15/10/01                   | Operational   | 25                         | WSP  | valid upto 31/12/13      |
| 9      |             | Badwai                     | 15/10/01                   | Operational   | 17                         | Oxidation pond                                     | valid upto 31/12/13      |
| 10     |             | Gondermau                  | 15/10/01                   | Operational   | 2.36                       | Oxidation pond                                     | valid upto 31/12/13      |
| 11     |             | Kotra Singhpur             | 15/10/01                   | Operational   | 10                         | WSP  | valid upto 31/12/13      |
| 12     |             | (NRCP) Ekant Park          | 2008                       | Operational   | 8                          | Oxidation pond                                     | Not obtained             |
| 13     |             | Bawadia Kalan              | 1975                       | Operational   | 13.56                      | Oxidation pond                                     | Not obtained             |
| 14     |             | Bio-Filtration Mata Mandir | 1959                       | Operational   | 4.56                       | Bio-Filtration Plant                               | Not obtained             |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location | STP Commissioned in (Year) | Status (Operational/Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-----------|--------------|----------------------------|---|----------------------------|--|--------------------------|
| 15     | Nagda     | Nagda        | Information not provided   | Non operational   |                            | Karnal Technology                                  | Information not provided |
| 16     | Vidisha   | Vidisha      |                            | Operational   |                            | Karnal Technology                                  |                          |
| 17     | Keolari   | Keolari      |                            | Non operational   | 0.75                       | Karnal Technology                                  |                          |

#### 4.20 STPs AT MAHARASHTRA

Maharashtra has 76 numbers of sewage treatment plants having treatment capacity of 5160.36MLD. 10 STPs of capacity 344.5 MLD are Non-Operational and 06 STPs of capacity 131.96 MLD are under construction. Details of STPs of Maharashtra are shown in Table 20.

Table 20: STPs-Maharashtra

| Sl.No. | City/Town         | STP Location                 | STP commissioned in | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/ASP/OP/SBR/ MBR/FAB ETC.)    | Consent Status |
|--------|-------------------|------------------------------|---------------------|--|------------------------------|---|----------------|
| 1      | Amravati          | Two at Lalkhedi              | Apr.13              | Operational  | 30.5                         | ASP   | Applied        |
| 2      |                   | Amravati                     | Dec.12              | Non operational  | 44                           | ASP   | Applied        |
| 3      | Aurangabad        | CIDCO STP Near Airport       | 1998                | Operational  | 6.5                          | ASP   | Applied        |
| 4      |                   | Near Salim Ali Sarovar Hudco | Feb.2013            | Operational  | 5                            | SBR   | Applied        |
| 5      | Bhiwandi Nizampur | Katai                        | Operational         | Operational  | 17                           | Digester and Chlorination with sludge lagoons | Applied        |
| 6      |                   |                              | Under construction  | Under construction                                       | 13                           |   | Applied        |
| 7      | Chandrapur        | Pathanpura                   | Under commissioning | Under commissioning                                      | 25                           | ASP   | Not applied    |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl.No. | City/Town        | STP Location    | STP commissioned in          | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/ASP/OP/SBR/MBR/FAB ETC.)       | Consent Status     |
|--------|------------------|-----------------|------------------------------|--|------------------------------|---|--------------------|
| 8      |                  | Rahamat Nagar   | Under commissioning          | Under commissioning                                      | 45                           | ASP   | Not applied        |
| 9      | Kalyan Dombivali | Adharwadi       | 1978                         | Non Operational  | 16                           | Primary Clarifier                               | Applied            |
| 10     |                  | Motagaon        | 1980                         | Non Operational  | 14                           | SBR   | Applied            |
| 11     |                  | Barave          | Jan.13                       | Operational  | 15                           | SBR   | Applied            |
| 12     |                  | Adharwadi       | Jan.13                       | Operational  | 25                           | SBR   | Applied            |
| 13     |                  | Chinchpada      | final stage of commissioning | Non Operational  | 40                           | SBR   | Applied            |
| 14     |                  | Motagaon        | final stage of commissioning | Non Operational  | 40                           | SBR   | Applied            |
| 15     |                  | Titwala east    | Information not provided     | Non Operational  | 2                            | SBR   | Applied            |
| 16     |                  | Titwala west    | Information not provided     | Operational,   | 1                            | SBR   | Applied            |
| 17     |                  | Kolhapur        | Kasba Bawda                  | 1974   | Operational                  | 43.5  | Primary Clarifier, |
| 18     | Kasba Bawda      |                 | 2014                         | Operational  | 76                           | Trickling Filter, SBR                           | Applied            |
| 19     | Mira Bhaindar    | Jessel Park     | 2008                         | Operational  | 2                            | ASP   | Applied            |
| 20     |                  | Shrusti complex | 2008                         | Non operational  | 1.5                          | ASP   | Applied            |
| 21     | Greater Mumbai   | Colaba          | 1988                         | Operational  | 41.1                         | Primary & Secondary treatment , Aerated Lagoons | Applied            |



[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

| Sl.No. | City/Town | STP Location      | STP commissioned in | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/AS P/OP/SBR/ MBR/FAB ETC.)     | Consent Status |
|--------|-----------|-------------------|---------------------|--|------------------------------|---|----------------|
| 22     |           | Love Grove, worli | 1990                | Operational  | 756.9                        | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 23     |           | Bandra            | 2003                | Operational  | 796.9                        | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 24     |           | Versova           | 1992                | Operational  | 180                          | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 25     |           | Malad             | 1998                | Operational  | 240                          | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 26     |           | Bhandup           | 2002                | Operational  | 280                          | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 27     |           | Ghatkopar         | 2003                | Operational  | 300                          | Primary & Secondary treatment , Aerated Lagoons | Applied        |
| 28     |           | Charkop           | 2009                | Operational  | 6                            | Primary & Secondary treatment , Aerated Lagoons | Applied        |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl.No. | City/Town      | STP Location | STP commissioned in      | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/ASP/OP/SBR/MBR/FAB ETC.)   | Consent Status  |
|--------|----------------|--------------|--------------------------|--|------------------------------|---|-----------------|
| 29     | Nagpur         | Bhandewadi,  | Mar-01                   | Operational  | 100                          | ASP, Primary Clarifier, secondary, tertiary | Applied         |
| 30     | Nanded Waghela | Bondar       | 26/03/97                 | Operational  | 87                           | ASP   | Applied         |
| 31     |                | Elichpur     | Information not provided | Operational  | 30                           | ASP   | Applied         |
| 32     | Nashik         | Tapovan 1    | 2003                     | Operational  | 78                           | UASB reactor                                | Applied         |
| 33     |                | Tapovan 2    | 2010                     | Operational  | 52                           | ASP   | Applied         |
| 34     |                | Panchak 1    | 2003                     | Operational  | 7.5                          | ASP   | Applied         |
| 35     |                | Panchak 2    | 2012                     | Operational  | 21                           | ASP   | Applied         |
| 36     |                | Chehadi 1    | 2006                     | Operational  | 22                           | ASP   | Applied         |
| 37     |                | Chehadi 2    | 2012                     | Operational  | 20                           | ASP   | Applied         |
| 38     |                | Navi Mumbai  | CBD Belapur              | 6/10/2011  | Operational                  | 19  | SBR             |
| 39     | Nerul sec.50   |              | 15/04/08                 | Operational  | 100                          | ASP   | Till 31/05/2017 |
| 40     | Sanpada        |              | 15/04/12                 | Operational  | 37.5                         | ASP   | Till 31/05/2017 |
| 41     | Vashi          |              | 30/06/08                 | Operational  | 100                          | ASP   | Till 31/05/2017 |
| 42     | Kopar khairane |              | 1/1/2012                 | Operational  | 87.5                         | ASP   | Till 31/05/2017 |
| 43     | Airoli         |              | 30/04/08                 | Operational  | 80                           | ASP   | Till 31/05/2017 |
| 44     | Nerul sec.2    |              | taken from cidco         | Operational  | 10                           | ASP   | Till 31/05/2017 |
| 45     | Ghansoli       |              | 22/06/10                 | Operational  | 27                           | ASP   | Till 31/05/2017 |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl.No. | City/Town       | STP Location        | STP commissioned in | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/ASP/OP/SBR/MBR/FAB ETC.) | Consent Status    |
|--------|-----------------|---------------------|---------------------|--|------------------------------|---|-------------------|
| 46     |                 | Kamothe             | Feb.2012            | Operational  | 85                           | ASP                                       | Till 31/05/2017   |
| 47     |                 | Kalamboli           | Dec.11              | Operational  | 50                           | ASP                                       | Till 31/05/2017   |
| 48     | Pimpi Chinchwad | Chikali Phase-I     | 1987                | Operational  | 16                           | ASP                                       | Applied           |
| 49     |                 | Chikali Phase-II    | 2000                | Operational  | 16                           | SBR                                       | Applied           |
| 50     |                 | Chinchwad Phase I   | 2000                | Operational  | 30                           | FAB                                       | Applied           |
| 51     |                 | Chinchwad Phase II  | 2008                | Operational  | 30                           | FAB                                       | Applied           |
| 52     |                 | Kasarwadi Phase I   | 1999                | Operational  | 40                           | FAB                                       | Applied           |
| 53     |                 | Kasarwadi Phase II  | 2003                | Operational  | 40                           | FAB                                       | Applied           |
| 54     |                 | Kasarwadi Phase III | 2010                | Operational  | 40                           | FAB                                       | Applied           |
| 55     |                 | Sangvi Phase I      | 2001                | Operational  | 15                           | FAB                                       | Applied           |
| 56     |                 | Sangvi Phase II     | 2012                | Operational  | 20                           | FAB                                       | Applied           |
| 57     |                 | Pimpale Nilakh      | 2007                | Operational  | 20                           | FAB                                       | Applied           |
| 58     |                 | Ravet               | 2009                | Operational  | 20                           | FAB                                       | Applied           |
| 59     |                 | Charoli             | 2012                | Operational  | 21                           | FAB                                       | Applied           |
| 60     |                 | Akurdi              | 2011                | Al Operational   | 30                           | FAB                                       | Applied           |
| 61     |                 | Pune                | Erandawane          | 2004   | Operational                  | 50  | Extended aeration |
| 62     | Bopodi          |                     | 2004                | Operational  | 18                           | Extended aeration                         | Applied           |
| 63     | Bahiroba        |                     | 2003                | Operational  | 130                          | ASP                                       | Applied           |
| 64     | Tanajiwadi      |                     | 2004                | Operational  | 17                           | Biotower with Extended aeration           | Applied           |
| 65     | Vitthalwadi     |                     | 2009                | Operational  | 32                           | Extended aeration                         | Applied           |
| 66     | Baner           |                     | 2010                | Operational  | 30                           | SBR                                       | Applied           |

| Sl.No. | City/Town           | STP Location       | STP commissioned in      | Status(Operational/ Non-Operational/ Under Construction) | STP Installed Capacity (MLD) | Technology (UASB/ASP/OP/SBR/MBR/FAB ETC.) | Consent Status           |
|--------|---------------------|--------------------|--------------------------|--|------------------------------|---|--------------------------|
| 67     |                     | Mundhava           | 2009                     | Operational  | 45                           | SBR                                       | Applied                  |
| 68     |                     | Kharadi            | 2012                     | Operational  | 40                           | SBR                                       | Applied                  |
| 69     | Sangli Miraj Kupwad | Sangli 100 Ft road | 1976                     | Non Operational & under construction                     | 12.76                        | Primary, OP                               | Applied                  |
| 70     |                     | Bedag road , Miraj | 1976                     | Non Operational & under construction                     | 9.2                          | Primary, OP                               | Applied                  |
| 71     |                     | Dhulgaon           | commissioning            | Under commissioning                                      | 27                           | Primary, OP                               | Applied                  |
| 72     | Solapur             | Solapur            | Information not provided | Non Operational  | 55                           | Primary                                   | Applied                  |
| 73     | Thane               | Kopri              | 17/02/12                 | Operational  | 120                          | SBR, ( C-Tech)                            | 31.12.16                 |
| 74     |                     | Kalwa              | not started              | Non Operational  | 100                          | SBR, ( C-Tech)                            | Information not provided |
| 75     |                     | Mumbra             | not started              | Non Operational  | 32                           | SBR, ( C-Tech)                            |                          |
| 76     | Ulhasnagar          | Khande Golivali    | 2006                     | Operational  | 28                           | Digester and Chlorination                 | Applied                  |

#### 4.21 STPs AT MANIPUR

Manipur has zero number of sewage treatment plants.

#### 4.22 STPs AT MEGHALAYA

Meghalaya has 1 sewage treatment plant having treatment capacity of 1 MLD. 1STP of capacity 1 MLD is Non Operational at Shillong. Details of STPs of Meghalaya are shown in Table 21.

Table 21: STPs-Meghalaya

| Sl. No | City/town | STP Location                                       | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|-----------|--|----------------------------|--|----------------------------|--|----------------|
| 1      | Shillong  | NEIGRIHMS, Mawdiandiang, East Khasi Hills District | 04.07.2006                 | Non - Operational  | 1                          | ASP  | 30.06.2012     |

#### 4.23 STPs AT MIZORAM

Mizoram has 01 sewage treatment plant having treatment capacity of 10 MLD. 01 STP of capacity 10 MLD is Under Construction at Aizawal Mizoram. Details of STPs of Mizoram are shown in Table 22.

Table 22: STPs-Mizoram

| Sl. No | City/town       | STP Location                                       | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status               |
|--------|-----------------|--|----------------------------|--|----------------------------|--|------------------------------|
| 1      | Aizawal Mizoram | Bethlehem Vengthlang (on the bank of Chite stream) | Information not provided   | Under Construction                                       | 10                         | PS+ASP   | CoE in 2011, renewed on 2012 |

#### 4.24 STPs AT NAGALAND

Nagaland has zero number of sewage treatment plants.

#### 4.25 STPs AT ODISHA

Odisha has 13 numbers of sewage treatment plants having treatment capacity of 385.54MLD. 6STPs of capacity 227.5 MLD are Under Construction. Details of STPs of Odisha are shown in Table 23.

Table 23: STPs-Odisha

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town       | STP Location                     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status  |
|--------|-----------------|----------------------------------|----------------------------|--|----------------------------|--|---|
| 1      | Roulkela        | STP-I: Steel Township sector-14  | July,2007                  | Operational  | 18                         | OP   | 31.03.2016  |
| 2      |                 | STP-II: Steel Township Sector-22 | March,2005                 | Operational  | 3.24                       | OP   |   |
| 3      | OCL, Rajgangpur | Township Area-STP1               | 25.03.2011                 | Operational  | 43.2                       | SBR  | 31.03.2015  |
| 4      |                 | Line-2 Step-2                    | May,2011                   | Operational  | 7.2                        | SBR  |   |
| 5      | L&T Kansbahal   | STP                              | 20-09-1990                 | Operational  | 38.4                       | SBR  | 31.3.2015   |
| 6      | Cuttack         | Mattagajpur                      | Jun-05                     | Operational  | 33                         | OP   | The CMC has applied Consent on 20.08.2014 & is under process.(This STP will be Dismantled ) |
| 7      |                 | Mattagajpur                      | Information not provided   | Under Construction                                       | 16                         | ASP  | Obtained Consent to establish from the board  |
| 8      |                 | Bidanasi                         | Information not provided   | Under Construction                                       | 36                         | ASP  | Obtained Consent to establish from the board  |

|    |             |             |                          |                    |      |     |  |
|----|-------------|-------------|--------------------------|--------------------|------|-----|--|
| 9  | Puri        | Mangalaghat | 2013                     | Operational        | 15   | ASP | The Municipality has not obtained Consent to establish & Consent to operate from the Board |
| 10 | Bhubaneswar | Rokta       | Information not provided | Under Construction | 48   | ASP | The BMC has obtained Consent to establish from the Board                                   |
| 11 |             | Meherpalli  |                          | Under Construction | 56   | ASP | Obtained Consent to establish from the Board   |
| 12 |             | Kochilaput  |                          | Under Construction | 43.5 | ASP | obtained Consent to establish from the Board   |
| 13 |             | Basuaghai   |                          | Under Construction | 28   | ASP | obtained Consent to establish from the Board   |

#### 4.26 STPs AT PUDUCHERRY

Puducherry has 06 numbers of sewage treatment plants having treatment capacity of 68.5 MLD. 03 STPs of capacity 51 MLD are Under Construction. Details of STPs of Puducherry are shown in Table 24.

Table 24: STPs-Puducherry

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town                 | STP Location                          | STP Commissioned in (Year) | Status (Operational/Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|---------------------------|---------------------------------------|----------------------------|---|----------------------------|--|--------------------------|
| 1      | Lawspet, Puducherry       | Sewage Farm, Lawspet, Puducherry      | Information not provided   | Operational   | 12.5                       | Oxidation Pond                                     | Information not provided |
| 2      |                           | Sewage Farm, Lawspet, Puducherry      |                            | Operational   | 2.5                        | UASB   |                          |
| 3      |                           | Sewage Farm, Lawspet, Puducherry      |                            | Under Construction                                      | 17                         | SBR  |                          |
| 4      | Dubrayapet, Puducherry    | Dubrayapet, Puducherry                |                            | Operational   | 2.5                        | UASB   |                          |
| 5      |                           | Dubrayapet, Puducherry                |                            | Under Construction                                      | 17                         | SBR  |                          |
| 6      | Reddiarpalyam, Puducherry | Kanaganeri, Reddiarpalyam, Puducherry |                            | Under Construction                                      | 17                         | SBR  |                          |

#### 4.27 STPs AT PUNJAB

Punjab has 86 numbers of sewage treatment plants having treatment capacity of 1245.45MLD. 04 STPs of capacity 15.2 are Non-Operational, 31 STPs of capacity 276.7 MLD are Under Construction and 13 STPs of capacity 32.1 MLD are proposed. Details of STPs of Punjab are shown in Table 25.

Table 25: STPs-Punjab

| SI. No. | City/ Town | STP location | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status |
|---------|------------|--------------|----------------------------|---|------------------------|--|----------------|
| 1       | Ludhiana   | Bhattian     | 2007                       | Operational   | 111                    | UASB   | Not Obtained   |
| 2       | Ludhiana   | Bhattian     | 2012                       | Operational   | 50                     | SBR  | Not Obtained   |
| 3       | Ludhiana   | Jamalpur     | 2008                       | Operational   | 48                     | UASB   | Not Obtained   |



[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| SI. No. | City/ Town                                | STP location                                   | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status  |
|---------|---|--|----------------------------|---|------------------------|--|---|
| 4       | Ludhiana                                  | Baloke   | 2008                       | Operational   | 152                    | UASB   | Not Obtained  |
| 5       | Ludhiana                                  | Baloke   | 2011                       | Operational   | 105                    | SBR  | Consent to operate under Water Act, 1974 had been expired on 15.03.2012 . |
| 6       | Nawanshahr                                | Village Gujarpur                               | Information not provided   | Under Construction  | 6                      | SBR  | Not Applied   |
| 7       | Banga                                     | At Happowal Road Banga                         |                            | Under Construction  | 3                      | SBR  | Not Applied   |
| 8       | Hoshiarpur                                | Jalandhar Bypass                               |                            | Under Construction  | 30                     | MBBR   | Not Applied   |
| 9       | Tanda                                     | At Tanda to Miani Road                         |                            | Under Construction  | 4                      | MBBR   | Not Applied   |
| 10      | Mukerian                                  | Village Attalgarh                              |                            | Under Construction  | 4                      | MBBR   | Not Applied   |
| 11      | Dasuya                                    | Near Model Town, Dasuya (Dasuya to Miani Road) | 2013                       | Operational   | 4                      | Waste Stabilization Ponds                    | Not Applied   |
| 12      | Sham Churasi                              | Sham Churasi                                   | - Information not provided | Under Construction  | 1                      | Waste Stabilization Ponds                    | Not Applied   |
| 13      | BBMB Township, Talwara                    | BBMB Township                                  | 2013                       | Operational   | 8                      | SBR  | Granted   |
| 14      | Municipal Council, Fazilka                | Fazilka  | 2007                       | Operational   | 8                      | WSP  | Not obtained  |
| 15      | Municipal Council, Abohar, Distt. Fazilka | Abohar   | Yet to commission          | Under construction  | 25                     | SBR  | Not obtained  |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/ Town  | STP location  | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status        |
|---------|---|---------------|----------------------------|---|------------------------|--|-----------------------|
| 16      | Municipal Council, Jalalabad (w), Distt. Fazilka  | Jalalabad (w) | 2013                       | Operational   | 8                      | MBBR   | Not obtained          |
| 17      | Municipal Council, Talwand Bhai, Distt. Ferozepur | Talwandi Bhai | Yet to commission          | Under construction  | 4                      | MBBR   | Not obtained          |
| 18      | Municipal Council, Zira, Distt. Ferozepur         | Zira          | 2014                       | Operational   | 8                      | MBBR   | Not obtained          |
| 19      | Nagar Panchayat, Makhu, Distt. Ferozepur          | Makhu         | Yet to commission          | Under construction  | 4                      | MBBR   | Not obtained          |
| 20      | Municipal Corporation, Moga                       | Moga          | 2013                       | Operational   | 27                     | SBR  | Not obtained          |
| 21      | Municipal Council, Dharamkot, Distt. Moga         | Dharmkot      | Yet to commission          | Under construction  | 4                      | MBBR   | Not obtained          |
| 22      | Municipal Corporation, Bathinda                   | Bathinda      | 2013                       | Operational   | 52                     | SBR  | Not applied /obtained |
| 23      | Municipal Council, Rampura Phul                   | Rampura       | 2012                       | Operational   | 7.5                    | MBBR   | Not applied /obtained |
| 24      | Municipal Council, Bhucho Mandi                   | Bhucho        | 2013                       | Operational   | 3                      | OP   | Not applied /obtained |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/ Town                      | STP location    | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status            |
|---------|---------------------------------|-----------------|----------------------------|---|------------------------|--|---------------------------|
| 25      | Nagar Panchayat, Kotfatta       | Kotfatta        | 2014                       | Operational   | 1.5                    | OP   | Not applied /obtained     |
| 26      | Municipal Council, Mour         | Maur            | Not installed              | Under construction  | N.A.                   | NA   | Not applied /obtained     |
| 27      | Municipal Council, Raman Mandi  | Raman Mandi     | Not installed              | Under construction  | N.A.                   | NA   | Not applied /obtained     |
| 28      | Municipal Council, Sangat Mandi | Sangat          | Not commissioned yet       | Not yet operated  | 1.5                    | OP   | Not applied /obtained     |
| 29      | Municipal Council, Goniana      | Goniana         | 2013                       | Operational   | 3                      | OP   | Applied and under process |
| 30      | Nagar Panchayat, Talwandi Sabo  | Talwandi Sabo   | 2013                       | Operational   | 3                      | SBR  | Not applied /obtained     |
| 31      | Municipal Council, Mukatsar     | Balamgarh Road  | 2012                       | Non Operational   | 3.5                    | MBBR   | Not applied /obtained     |
| 32      |                                 | Balamgarh Road  | 2012                       | Non Operational   | 5.7                    | MBBR   | Not applied /obtained     |
| 33      |                                 | Jalaalabad Road | 2012                       | Operational   | 8.7                    | MBBR   | Not applied /obtained     |
| 34      | Municipal Council, Malout       | Malout          | Not commissioned yet       | Under construction  | N.A.                   | NA   | Not applied /obtained     |
| 35      | Municipal Council, Gidderbaha   | Gidderbaha      | Not commissioned yet       | Under construction  | N.A.                   | NA   | Not applied /obtained     |
| 36      | Nagar Panchayat, Bari Wala      | Bariwala        | Not installed              | Construction not yet started                              | N.A.                   | NA   | Not applied /obtained     |
| 37      | Municipal Council, Mansa        | Mansa           | 2014                       | Operational   | 14                     | MBBR   | Not applied /obtained     |
| 38      | Municipal Council, Budhlada     | Budhlada        | 2014                       | Operational   | 6.5                    | MBBR   | Not applied /obtained     |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| SI. No. | City/ Town                  | STP location                 | STP commissione d in (Year) | Status (Operational/ Non-operational/ under construction | STP installed capacity | Techno-logy(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status            |
|---------|-----------------------------|------------------------------|-----------------------------|--|------------------------|---|---------------------------|
|         | hlada                       |                              |                             |  |                        |   |                           |
| 39      | Municipal Council, Bareta   | Bareta                       | Not commission ed yet       | Not yet operated   | N.A.                   | OP  | Not applied /obtained     |
| 40      | Nagar Panchayat, Sardulgarh | Sardulgarh                   | 2014                        | Operational  | 4                      | OP  | Not applied /obtained     |
| 41      | Nagar Panchayat, Bhikhi     | Bhikhi                       | 2014                        | Operational  | 3                      | OP  | Not applied /obtained     |
| 42      | Sri Hargobindpur            | Near village Rampur, Talwara | 2014                        | Non-operational  | 1                      | Stabilizatio n Ponds                          | Not obtained              |
| 43      | Dera Baba Nanak             | Dera Baba Nanak              | 2014                        | Operational  | 1.5                    | Stabilizatio n Ponds                          | Not obtained              |
| 44      | Pathankot                   | Near ladochak village        | 2014                        | Under construction                                       | 27                     | SBR   | Not obtained              |
| 45      | Samana Distt. Patiala       | Sehajpura Road, Samana       | 2010                        | Operational  | 10                     | SBR   | Not obtained              |
| 46      | Adampur                     | Adampur                      | -                           | Proposed   | 4                      | -   | Informatio n not provided |
| 47      | Alawalpur                   | Adampur                      | Information not provided -  | Proposed   | 1                      | -   |                           |
| 48      | Nakodar                     | Nakodar                      | 31.10.2014                  | Under construction                                       | 6                      | SBR   |                           |
| 49      | Nurmahal                    | Nurmahal                     | Information not provided    | Proposed   | 4                      | -   |                           |
| 50      | Shahkot                     | Shahkot                      |                             | Proposed   | 3                      | -   |                           |
| 51      | Goraya                      | Goraya                       |                             | Proposed   | 4                      | -   |                           |
| 52      | Phillaur                    | Phillaur                     | 2001                        | Operational  | 2.6                    | Duckweed                                      |                           |
| 53      |                             |                              | 30.09.2014                  | Under construction                                       | 3                      | SBR   |                           |
| 54      | Lohian                      | Lohian                       | -                           | Proposed   | 1.5                    | -   |                           |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/ Town      | STP location                            | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status           |
|---------|-----------------|---|----------------------------|---|------------------------|--|--------------------------|
| 55      | Phagwara        | Phagwara                                | 2008                       | Operational   | 20                     | UASB   | Information not provided |
| 56      |                 |   | 2014                       | Under stabilization                                       | 8                      | MBBR   |                          |
| 57      |                 |   | 30.09.2014                 | Under construction  | 8                      | MBBR   |                          |
| 58      | Jalandhar       | Jalandhar Pholriwal                     | 2008                       | Operational   | 100                    | UASB   |                          |
| 59      |                 | Pholriwal                               | 2011                       | Operational   | 25                     | SBR  |                          |
| 60      |                 | Pholriwal                               | 30.09.2014                 | Under construction  | 25                     | SBR  |                          |
| 61      |                 | STP on Kapurthala Road, Jalandhar       | 30.06.2014                 | Under stabilization                                       | 50                     | SBR  |                          |
| 62      |                 | at Jaitewali, Hoshiarpur Road, Jalandha | 30.09.2014                 | Under construction  | 25                     | SBR  |                          |
| 63      |                 | STP at Bhambiawali, G.T Road, Jalandhar | 31.10.2014                 | Under construction  | 10                     | SBR  |                          |
| 64      | Kartarpur       | Kartarpur                               | -                          | Proposed  | 4                      | -  |                          |
| 65      | Kapurthala      | Kapurthala                              | 2006                       | Operational   | 25                     | UASB   |                          |
| 66      | Bholath         | Bholath                                 | 05.02.2014                 | Under stabilization                                       | 4                      | WSP  |                          |
| 67      | Bhogpur         | Bhogpur                                 | -                          | Proposed  | 4                      |  |                          |
| 68      | Begowal         | Begowal                                 | 30.07.2014                 | Under construction  | 2.5                    | SBR  |                          |
| 69      | Sultanpur Lodhi | Sultanpur Lodhi-I                       | 2003                       | Operational   | 2.6                    | WSP  |                          |
| 70      |                 | Sultanpur Lodhi-II                      | Information not provided   | Proposed  | 2.6                    | Information not provided                     |                          |
| 71      | Dhilwan         | Dhilwan                                 |                            | Proposed  | 2.5                    |  |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No. | City/ Town     | STP location                          | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction)                          | STP installed capacity | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc. | Consent status                  |
|---------|----------------|---------------------------------------|----------------------------|--|------------------------|--|---------------------------------|
| 72      | Naya Nangal    | Naya Nangal                           | 1994                       | Operational  | 8                      | ASP  | Not Obtained                    |
| 73      | BBMB Township  | Naya Nangal                           | 1991                       | Operational  | 6.75                   | ASP  | Obtained, expired on 31/03/2010 |
| 74      | Naya Nangal    | Naya Nangal                           | Information not provided   | Under Construction (Likely to be commissioned by 30/09/2014)                       | 5                      | MBBR   | Information not provided        |
| 75      | Anandpur Sahib | Anandpur Sahib                        | Feb, 2010                  | Operational  | 8                      | MBBR   | Obtained, expired on 31/12/2013 |
| 76      | Zirakpur       | Village Singhpura, Tehsil Dera Bassi. | Sept, 2013                 | Operational  | 17.3                   | SBR  | Obtained                        |
| 77      | Roopnagar      | Vill Badi Haveli                      | 1/7/2013                   | Operational  | 10                     | SBR  | Not obtained                    |
| 78      | Roopnagar      | Vill Sadabarat                        | About 2-3 weeks back       | Operational  | 2                      | SBR  | Not obtained                    |
| 79      | Roopnagar      | Vill Rasoolpur                        | About 2 months back        | Operational  | 2.5                    | SBR  | Not obtained                    |
| 80      | Chamkaur Sahib | Bela Road, Chamkaur Sahib             | Information not provided   | Under construction (90 % work completed) (Likely to be commissioned by 30/09/2014) | 1.7                    | SBR  | Information not provided        |
| 81      | Kharar         | Kharar                                |                            | Under construction (60 % work completed)   | 11                     | SBR  |                                 |
| 82      | Kurali         | Kurali                                | Information not provided   | Construction almost complete   | 5                      | SBR  | Information not provided        |

| SI. No. | City/ Town  | STP location         | STP commissioned in (Year) | Status (Operational/ Non-operational/ under construction) | STP installed capacity   | Technology(UASB /ASP/ OP/ SBR/ MBR/ FAB etc.  | Consent status |
|---------|-------------|----------------------|----------------------------|---|--------------------------|---|----------------|
| 83      | Jaula Kalan | Jaula Kalan          |                            | Under construction  | Information not provided | Oxidation pond based on settled sewage system |                |
| 84      | Lalru       | Lalru                |                            | Under construction, will be commissioned within 06 months | 1.5                      | SBR   |                |
| 85      | Mohali      | Mohali               | 9/9/2009                   | Operational   | 45                       | UASB  | Not obtained   |
| 86      | Machhiwara  | Machhiwara, Ludhiana | Yet to be commissioned     | Under construction  | 4                        | SBR   | NA             |

#### 4.28 STPs AT RAJASTHAN

In Rajasthan, there are 63 numbers of sewage treatment plants with capacity of 865.92 MLD. Out of 63 STPs, 11 STPs of capacity 149.3 MLD are Under Construction and 36 STPs of capacity 322.12 MLD are proposed. Details of STPs of Rajasthan are shown in Table 26.

Table 26: STPs-Rajasthan

| Sl. No | City/town | STP Location                         | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|-----------|--------------------------------------|----------------------------|--|----------------------------|--|----------------|
| 1      | Jaipur    | Swaran Jayanti Park, Vidyadhar Nagar | 2014                       | Operational  | 1                          | MBBR   | CTO 04.03.2014 |
| 2      |           | Gajodhar Pura                        | 2013                       | Operational  | 30                         | ASP  | CTO 09.09.2013 |
| 3      |           | Amer Road                            | 2008                       | Operational  | 27                         | ASP  | CTO 1.8.2007   |
| 4      |           | Delawas-I                            | 2006                       | Operational  | 62.5                       | ASP  | CTO 25.02.2010 |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town    | STP Location         | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                      |                   |
|--------|--------------|----------------------|----------------------------|--|----------------------------|--|-------------------------------------|-------------------|
| 5      |              | Delawas-II           | 2010                       | Operational  | 62.5                       | ASP  | CTO<br>01.07.2011                   |                   |
| 6      |              | Jaisinghpura Khor    | 2010                       | Operational  | 50                         | ASP  | CTO<br>16.06.2011                   |                   |
| 7      |              | Central Park         | Information not provided   | Under Construction                                       | 1                          | MBBR   | CTE<br>13.07.2010                   |                   |
| 8      |              | Ralawata             |                            | Under Construction                                       | 30                         | ASP  | CTE<br>17.08.2010                   |                   |
| 9      |              | Jawahar Circle       | 2010                       | Operational  | 1                          | MBBR   | CTO<br>03.06.2010                   |                   |
| 10     |              | Sahakar Marg         | Information not provided   | Proposed   | 2                          | Information not provided                           | Application for CTE/CTO not applied |                   |
| 11     |              | Talkatora            |                            | Proposed   | 1                          |  | Application not submitted           |                   |
| 12     |              | JDA Ramniwas Garden  | 2011                       | Operational  | 1                          | MBBR   | CTO<br>26.04.2011                   |                   |
| 13     |              | Alwar                | Agayara Ramgarh            | 2012   | Operational                | 20   | WSP                                 | CTO<br>17.01.2013 |
| 14     |              |                      | Bhiwadi                    | 2012   | Operational                | 4  | SBR                                 | CTO<br>26.03.2012 |
| 15     | Jodhpur      | PHED Nandari         | Information not provided   | Operational  | 20                         | Anaerobic & Facultative Ponds                      | CTE<br>31.01.2007                   |                   |
| 16     |              | Salawas (Phase - II) |                            | Proposed   | 50                         | ASP  | CTE Under Consideration             |                   |
| 17     |              | Salawa (Phase - I)   | 2011                       | Operational  | 50                         | ASP  | CTE<br>29.10.2012                   |                   |
| 18     | Sawaimadhpur | Sawaimadhpor         | 2012                       | Operational  | 10                         | Facultative stabilization Ponds                    | CTO<br>26.10.2012                   |                   |



[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                                      |
|--------|-----------|---|----------------------------|--|----------------------------|--|---|
| 19     | Bikaner   | Vallabha Garden                                     | 2007                       | Operational  | 20                         | Anaerobic Lagoors Fceulative lessons               | CTO application dated 29.03.2012 under construction |
| 20     |           | Bhilwara Sewage                                     | Information not provided   | Proposed   | 4.5                        | ASP  | CTE 27.05.2013                                      |
| 21     | Bhilwara  | Bhilwara Sewage                                     | 2012                       | Operational  | 5.5                        | ASP  | CTO issued 6.12.2012                                |
| 22     | Udaipur   | Eklingpura,   | 2014                       | Operational  | 20                         | MBBR   | CTO 11.03.2014                                      |
| 23     | Rajsamand | PHED Pratappura                                     | Information not provided   | Proposed   | 5                          | UASBR  | CTE 30.07.2012                                      |
| 24     |           | Nathdwara   |                            | Constructed  | 4.3                        | Information not provided                           | Application for CTE/CTO not applied                 |
| 25     | Kota      | Kishopura, Ladpura                                  |                            | Under Construction                                       | 30                         | SBR  | CTE 31.10.2012                                      |
| 26     |           | Balita Ladpura                                      |                            | Under Construction                                       | 6                          | SBR  | CTE 26.10.2012                                      |
| 27     |           | Dad Devi Road, Village Dhakad Kheri, Tehsil Ladpura |                            | Constructed  | 20                         | Information not provided                           | Application for CTE/CTO not applied                 |
| 28     | Jaisalmer | Kisan Ghat  |                            | Under Construction                                       | 10                         | Anaerobic & Facultative Ponds                      | CTE 22.02.2013                                      |
| 29     | Ajmer     | Kishangar   |                            | Under Construction                                       | 10                         | Anaerobic & Facultative Ponds                      | CTE 13.05.2009                                      |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location                                 | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status          |
|--------|-----------|--|----------------------------|--|----------------------------|--|-------------------------|
| 30     |           | Ganahera Pushkar                             |                            | Proposed   | 3.5                        | Waste stabilization ponds                          | CTE 17.08.2012          |
| 31     |           | Anasagar                                     | Information not provided   | Proposed   | 13                         | ASP  | CTE 22.08.2012          |
| 32     |           | Khanpura                                     |                            | Proposed   | 40                         | ASP  | CTE 26.10.2012          |
| 33     |           | Khanpura                                     |                            | Under Construction                                       | 20                         | ASP  | CTE 12.04.2006          |
| 34     | Dholpur   | Tagawali Village Rajkhera, Dholpur RUIDP STP |                            | Under Construction                                       | 10                         | UASB   | CTE 19.09.2012          |
| 35     | Bundi     | Devpura                                      |                            | Under Construction                                       | 8                          | Waste stabilization ponds                          | CTE 31.07.2012          |
| 36     | Pali      | Sumerpur Pali                                |                            | Proposed   | 10                         | Waste stabilization ponds                          | CTE 19.09.2012          |
| 37     | Jalore    | Jalore                                       |                            | Proposed   | 10                         | Waste stabilization ponds                          | CTE Under Consideration |
| 38     | Nagor     | Didwana                                      |                            | Proposed   | 5                          | SBR  | CTE 23.09.2014          |
| 39     |           | Balwa Road                                   |                            | Proposed   | 8                          | Waste stabilization ponds                          | CTE 19.09.2012          |
| 40     | Barmer    | Barmer                                       |                            | Proposed   | 10                         | Waste stabilization ponds                          | CTE 19.09.2012          |
| 41     | Karoli    | Karoli                                       |                            | Proposed   | 5                          | UASB   | CTE 07.08.2012          |
| 42     | Bharatpur | Gopal Nangla                                 |                            | Proposed   | 8                          | SBR  | CTE 13.08.2012          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town                | STP Location                                    | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                      |                         |
|--------|--------------------------|---|----------------------------|--|----------------------------|--|-------------------------------------|-------------------------|
| 43     | Chittorgarh              | Bhoikhera                                       |                            | Proposed   | 5                          | UASB   | CTE 20.01.2012                      |                         |
| 44     | Sirohi                   | Mont Abu  | Information not provided   | Proposed   | 6                          | ASP  | CTE issued 17.08.2012               |                         |
| 45     | Sikar                    | Fatehpur Shekhawati                             |                            | Proposed   | 7.5                        | SBR  | CTE 19.09.2013                      |                         |
| 46     |                          | Nani Beed Sikar                                 |                            | Proposed   | 10                         | Information not provided                           | Application for CTE/CTO not applied |                         |
| 47     |                          | Devipura Beed Sikar                             |                            | Proposed   | 5                          | Information not provided                           | Application for CTE/CTO not applied |                         |
| 48     |                          | Sikar   |                            | Proposed   | 10                         | UASB   | CTE 26.10.2012                      |                         |
| 49     |                          | Jhunjhunu                                       |                            | Bagar Road Municipal Council                             | Proposed                   | 8.5  | UASB                                | CTE Under Consideration |
| 50     |                          | Churu   |                            | Gaisar Churu   | Proposed                   | 7  | WSP                                 | CTE 13.08.2012          |
| 51     | Nagar Palika Sardar Shar |   |                            | Proposed   | 4                          | Waste stabilization ponds                          | CTE 19.09.2012                      |                         |
| 52     | Nagar Palika Sardar Shar |   |                            | Proposed   | 9.6                        | WSP  | CTE 19.09.2012                      |                         |
| 53     | Bikaner                  | Nathaniya Village                               |                            | Proposed   | 12                         | MBBR   | CTE 22.08.2012                      |                         |
| 54     | Hanumangarh              | Abhohar Bypass Near Railway Track, Hanuman Jun. |                            | Proposed   | 7.5                        | Waste stabilization ponds                          | CTE 21.09.2012                      |                         |

| Sl. No | City/town     | STP Location                   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)        | Consent Status          |
|--------|---------------|--------------------------------|----------------------------|--|----------------------------|---|-------------------------|
| 55     |               | Near Ganganagar Road Chak 3KNT |                            | Proposed   | 5                          | upflow anaerobic sludge blanket followed by holding ponds | CTE 19.09.2012          |
| 56     | Jhalawar      | Jhalrapatan                    | Information not provided   | Proposed   | 3                          | WSP   | CTE issued 24.01.2013   |
| 57     |               | Jhalrapatan                    |                            | Proposed   | 6                          | ASP   | CTE issued 04.04.2013   |
| 58     | Tonk          | Tonk                           |                            | Proposed   | 1.016                      | Septic tank with anaerobic Filter                         | CTE 03.05.2011          |
| 59     | Nagur         | Makarana                       |                            | Proposed   | 6                          | SBR   | CTE 03.09.2013          |
| 60     | Sriganganagar | Suratgarh Road                 |                            | Proposed   | 10                         | ASP   | CTE Under Consideration |
| 61     |               | Idagah Ponding                 |                            | Proposed   | 10                         | ASP   | CTE Under Consideration |
| 62     |               | Sugar Mil Ponding              |                            | Proposed   | 15                         | ASP   | CTE Under Consideration |
| 63     | Balotra       | Balotra                        |                            | Proposed   | 9                          | SBR   | CTE Under Consideration |

#### 4.29 STPs AT SIKKIM

Sikkim has 11 numbers of sewage treatment plants having treatment capacity of 31.88MLD. 01 STP of capacity 05 MLD is Non-Operational at Adampool in Gangtok, 09 STPs of capacity 18.11 MLD are Under Construction. Details of STPs of Sikkim are shown in Table 27.

Table 27: STPs-Sikkim

| Sl. No | City/town | STP Location | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |     |
|--------|-----------|--------------|----------------------------|--|----------------------------|--|--------------------------|-----|
| 1      | Gangtok   | Adampool     | 1987                       | Non Operational  | 5                          | Trickling Filter                                   | Information not provided |     |
| 2      |           | Adampool     | 2011                       | Operational  | 8                          | FAB  |                          |     |
| 3      |           | Adampool     | Information not provided   | Under Construction                                       | 4.69                       | FAB  |                          |     |
| 4      |           | Lower Sichey |                            | Under Construction                                       | 3.9                        | FAB  |                          |     |
| 5      |           | Rainpool     |                            | Under Construction                                       | 1.27                       | MBR  |                          |     |
| 6      |           | Lower Syari  |                            | Under Construction                                       | 1.6                        | SBR  |                          |     |
| 7      |           | Singtam      |                            | Singtam  | Under Construction         | 0.66   |                          | MBR |
| 8      |           | Rangpo       |                            | Rangpo   | Under Construction         | 0.96   |                          | MBR |
| 9      |           | Namchi       |                            | Namchi   | under Construction         | 3.62   |                          | FAB |
| 10     |           | Jorethang    |                            | Jorethang  | under Construction         | 1.7  |                          | WSP |
| 11     |           | Melli        |                            | Melli  | Under Construction         | 0.48   |                          | MBR |

#### 4.30 STPs AT TAMILNADU

Tamil Nadu has 73 numbers of sewage treatment plants having treatment capacity of 1799.72MLD. 01 STP of capacity 5.17 MLD is Non-Operational at Virapalayam in Erode district, 28 STPs of capacity 521.08 MLD are Under Construction and 11 STPs of capacity 132.64 MLD are proposed. Details of STPs of Tamil Nadu are shown in Table 28.

Table 28: STPs-Tamil Nadu

| Sl. No | City/town | STP Location           | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status  |
|--------|-----------|------------------------|----------------------------|--|----------------------------|--|-----------------|
| 1      | Ambattur  | Sewage Treatment Plant | Information not provided   | Under construction                                       | 7                          | STP  | Information not |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)  | Consent Status           |              |                 |
|--------|-----------|---|----------------------------|--|----------------------------|---|--------------------------|--------------|-----------------|
|        |           | Pumping Station, TNHB Colony, Ayapakkam                                     |                            |  |                            |   | provided                 |              |                 |
| 2      | Ariyalur  | M/s.Sewage Treatment plant for perambalur Municipality, Perambalur District | Information not provided   | Under Operation  | 4.20                       | Conventional activated sludge process with aeration | Information not provided |              |                 |
| 3      |           | M/s.Ariyalur Municipality Sewage Treatment Plant, Ariyalur Distret          |                            | Under construction                                       | 4.16                       | Conventional activated sludge process with aeration |                          |              |                 |
| 4      | Chennai   | Kondungaiyur (a)  |                            | In operation   | 110                        | Conventional  |                          |              |                 |
| 5      |           | (b)   |                            | In operation   | 80                         | Conventional  |                          |              |                 |
| 6      |           | ©   |                            | In operation   | 80                         | Conventional  |                          |              |                 |
| 7      |           | Koyambedu (a)   |                            | In operation   | 60                         | Conventional  |                          |              |                 |
| 8      |           | (b)   |                            | Under construction                                       | 120                        | Conventional  |                          |              |                 |
| 9      |           | ©   |                            | In operation   | 34                         | Conventional  |                          |              |                 |
| 10     |           | Nesapakkam (a)  |                            | In operation   | 40                         | Conventional  |                          |              |                 |
| 11     |           | (b)   |                            | In operation   | 54                         | Conventional  |                          |              |                 |
| 12     |           | ©   |                            | Information not provided                                 | In operation               | 23  |                          | Conventional | Information not |

[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town        | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction)   | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|------------------|---|----------------------------|--|----------------------------|--|--------------------------|
| 13     | Coimbatore North | M/s.Sewage Treatment plant P N Palayam Coimbatore (N) T.K., Coimbatore District |                            | Not Yet Establishment                                      | 3.53                       | Cconventional                                      | provided                 |
| 14     | Coimbatore South | M/s.CBE CORPORATION STP AT UKKADAM, Ukkadam , Coimbatore south , Coimbatore     |                            | In operational Condition                                   | 70                         | Sequential Batch Reactor (SBR)                     | Information not provided |
| 15     |                  | M/s.CBE CORPORATION STP AT NANJUNDAPURAM, Uppilipalayam, Coimbatore             |                            | CTE of the Board stayed by Honourable High Court of Madras | 40                         | Sequential Batch Reactor (SBR)                     |                          |
| 16     |                  | M/s.SEWAGE TREATMENT PLANT ONDIUDUR, Coimbatore                                 |                            | Construction under process                                 | 60                         | Sequential Batch Reactor (SBR)                     |                          |
| 17     |                  | M/s.POLLACHI MUNICIPAL SEWAGE TREATMENT PLANT, Coimbatore                       | Information not provided   | Construction under process                                 | 11.5                       | Sequential Batch Reactor (SBR)                     |                          |
| 18     | Dindigul         | M/s.DINDIGUL CORPORATION  |                            | Under Operation  | 13.5                       | Activated Sludge Process                           |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)     | Consent Status           |
|--------|-----------|--|----------------------------|--|----------------------------|--|--------------------------|
| 19     | Erode     | UASB Sewage Treatment Plant, Vairapalayam, Erode District                          |                            | Presently not under operation                            | 5.17                       | Anaerobic Treatment with UASB technology               |                          |
| 20     |           | Erode City Municipal Corporation. Sewage Treatment Plant, Peelamedu Village, Erode |                            | Civil construction works under progress                  | 50.55                      | Aerobic treated with Moving Bed Bio Reactor technology |                          |
| 21     | Hosur     | Dharmapuri Municipality UGSS System  |                            | In operation   | 4.860                      | (Conventional) Biological Treatment                    |                          |
| 22     |           | Krishnagiri Municipality   |                            | Under Operation  | 9.19                       | (Conventional) Biological Treatment                    |                          |
| 23     | Madurai   | Madurai Corporation STP Sakkimangalam STP Aringar Anna Maligai Tallakulam Madurai  | Information not provided   | In Operation   | 45.7                       | SBR  | Information not provided |
| 24     |           | Madurai Corporation STP Avaniapuram STP Aringar Anna Maligai, Madurai              |                            | In Operation   | 125                        | SBR  |                          |



[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)                   | Consent Status           |
|--------|-----------|---|----------------------------|--|----------------------------|--|--------------------------|
| 25     | M.M.Nagar | M/s.Tambaram Municipality - Common STP  |                            | Under construction                                       | 30                         | Cycli Activated Sludge. Based on Sequential batch reactor (CAS/SBR ) |                          |
| 26     |           | M/s.Chennai Metropolitan Water Supply and Sewage Board - Common STP at Sholinganallur               |                            | Under construction                                       | 18                         | Cycli Activated Sludge. Based on Sequential batch reactor (CAS/SBR ) |                          |
| 27     |           | M/s.Chennai Metropolitan Water Supply and Sewage Board - New Perungudi 54 MLD STP                   | Information not provided   | In Operation   | 54                         | Activated Sludge Process   | Information not provided |
| 28     |           | M/s.Chennai Metropolitan Water Supply and Sewage Board - New Perungudi 54 MLD STP Phase II (60 MLD) |                            | In Operation   | 60                         | Activated Sludge Process   |                          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town    | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|--------------|---|----------------------------|--|----------------------------|--|--------------------------|
| 29     |              | M/s.SEWAGE TREATMENT PLANT of Alandur Municipality @ Perungudi                                |                            | In Operation   | 12                         | Activated Sludge Process                           |                          |
| 30     |              | M/s.SEWAGE TREATMENT PLANT Maraimalai Nagar Municipality                                      |                            | In Operation   | 2.2                        | Activated Sludge Process                           |                          |
| 31     |              | M/s.CMWSSB Navalur Sewage Treatment Plant   |                            | Under construction                                       | 6                          | Activated Sludge Process                           |                          |
| 32     | Nagapattinam | M/s.Nagappattinam Municipality STP at Nagapattinam  |                            | Under construction                                       | 9.63                       | Conventional                                       |                          |
| 33     | Nagercoil    | Underground Sewage System to Nagercoil Municipality, Agastheeswararam Taluk, Kanyakumari Dist | Information not provided   | To be Commissioned                                       | 20.86                      | STP Proposed. Extended Aeration Process            | Information not provided |
| 34     | Namakal      | Namakal municipality  |                            | Yes, STP in Operation                                    | 1.5                        | Conventional (Activated sludge process)            |                          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town   | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-------------|---|----------------------------|--|----------------------------|--|--------------------------|
| 35     | Perundurai  | WSP Techonology Sewage Treatment Plant , Bhavani Municipality |                            | Construction stoped due to public agitation              | 3.94                       | Convention al & Treatment                          |                          |
| 36     |             | Perundurai Town Panchayat Sewage Treatment Plant              |                            | Construction under progress                              | 3.07                       | Convention al & Treatment                          |                          |
| 37     | Pudukkottai | Pudukkottai Municipality STP (Under Construction)             | Information not provided   | Not yet commissioned                                     | 10.62                      | Activated Sludge Process                           | Information not provided |
| 38     | Sivagangai  | Sivagangai Municipality                                       |                            | Not et established                                       | 4.92                       | Activated Sludge Process System                    |                          |
| 39     |             | Ramanathapura m Municipality                                  |                            | In Operation   | 8.19                       | Activated Sludge Process system                    |                          |
| 40     |             | Muthukulathur Town Panchayat                                  |                            | Not yet established                                      | 2.415                      | Activated Sludge Process system                    |                          |
| 41     | Tanjavur    | M/s.Thanjavur Municipality Sewage Treatment Plant , Tanjavur  |                            | In Operation   | 44.67                      | Convention al (Aeration pond)                      |                          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)  | Consent Status           |
|--------|-----------|---|----------------------------|--|----------------------------|---|--------------------------|
| 42     |           | M/s.Kumbakonam Municipality Sewage Treatment Plant - Tajnavur Dist                                      |                            | In Operation   | 17                         | Conventional (Aeration pond)                        |                          |
| 43     |           | M/S Underground Sewerage Scheme To Vallam Town Panchayat, Thanjavur.                                    |                            | Proposed   | 2.3                        | Conventional (Aeration pond)                        |                          |
| 44     |           | M/s.CHINNAM ANUR MUNICIPALITY SEWAGE TREATMENT PLANT , UTHAMAPALAYAM TALUK, Theni                       | Information not provided   | CTO Issued   | 3.99                       | Extended Aeration System (Activated Sludge Process) | Information not provided |
| 45     | THENI     | M/s.THENI - ALLINAGARAM MUNICIPALITY SEWAGE TREATMENT PLANT, S.F.No.107,Theni-Allinagaram, Theni Taluk, |                            | CTE Issued   | 15.1                       | Extended Aeration System (Activated Sludge Process) |                          |

[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town      | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)  | Consent Status           |
|--------|----------------|--|----------------------------|---|----------------------------|---|--------------------------|
| 46     | Tiruvannamalai | Tiruvannamalai Municipality STP.                             | Information not provided   | In Operation  | 8.7                        | Activated Sludge Process followed by Disinfection   | Information not provided |
| 47     | Tiruppur North | M/s. New Tirupur Area Development Corporation Ltd., Tiruppur |                            | In operation.   | 15                         | Activated sludge process (Extended Aeration System) |                          |
| 48     | Tiruppur South | UDUMALPET MUNICIPALITY - STP                                 |                            | Construction works are under progress                     | 7.81                       | Activated Sludge Process                            |                          |
| 49     | Tiruvallur     | STP Avadi  |                            | Under CTE   | 36                         | Sequential Batch Reactor Technology                 |                          |
| 50     |                | Sewage Treatment Plant Thirumazhisai Town Panchayat          |                            | Under CTE   | 3                          | Extended Aeration Process                           |                          |
| 51     |                | Common STP ó UGSS, Tiruvallur                                |                            | DPR ó Under Process                                       | 6.2                        | MBBR System   |                          |
| 52     | Udhagamandalam | Kandal STP   |                            | Operation   | 5                          | Biological method                                   |                          |
| 53     |                | Minigarden STP   | Information not provided   | Operation   | 2                          | Biological method                                   |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town  | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction)   | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|------------|---|----------------------------|--|----------------------------|--|--------------------------|
| 54     | VELLORE    | Vellore City Corporation STP  |                            | The STP is nearing completion. Conveyance works are under progress. The trial run of STP is proposed within a month. | 10.72 MLD                  | Conventional Activated Sludge Process              | not provided             |
| 55     | Villupuram | M/s Villupuram Municipality UGSS with STP Zone - I, Kakuppam Village, Villupuram                                      |                            | Proposed Unit  | 9                          | Proposed Unit                                      |                          |
| 56     |            | M/s Villupuram Municipality UGSS Zone II S.F.No. 86/1, Erumanant hangal Village, Villupuram Taluk Villupuram District |                            | Proposed Unit  | 3.5                        | Proposed Unit                                      |                          |
| 57     | Salem      | MANKUTTAI SEWAGE TREATMENT PLANT, Salem Corporation, Salem  | Information not provided   | Proposed   | 35                         | Collection Aeration Chlorination                   | Information not provided |

[INVENTORIZACION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-----------|--|----------------------------|--|----------------------------|--|--------------------------|
| 58     |           | VANDIPETTA I SEWAGE TREATMENT PLANT, Salem                   |                            | Proposed   | 44                         | Collection Aeration Chlorination                   |                          |
| 59     |           | VELLAKUTTAI SEWAGE TREATMENT PLANT, Salem Corporation, Salem |                            | Proposed   | 23                         | Collection Aeration Chlorination                   |                          |
| 60     |           | ANAIMEDU SEWAGE TREATMENT PLANT, Salem                       |                            | Proposed   | 6                          | Collection Aeration Chlorination                   |                          |
| 61     |           | METTUR MUNICIPALITY STP, Salem                               |                            | Proposed   | 5.5                        | Collection Aeration Chlorination                   |                          |
| 62     |           | METTUR MUNICIPALITY STP SALEM CAMP, City S.No:2, Mettur      | Information not provided   | Proposed   | 1                          | Collection Aeration Chlorination                   | Information not provided |
| 63     |           | METTUR MUNICIPALITY STP NEAR MTPS, Salem                     |                            | Proposed   | 1                          | Collection Aeration Chlorination                   |                          |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town     | STP Location   | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.)                             | Consent Status           |
|--------|---------------|--|----------------------------|--|----------------------------|--|--------------------------|
| 64     |               | JALAKANDA PURAM SEWAGE TREATMENT PLANT, Jalakandapuram , Salem |                            | Proposed   | 2.34                       | Collection Aeration Chlorination   |                          |
| 65     | TRICHY        | Trichy Corporation Sewage treatment Plant                      |                            | Under Operational Condition                              | 88.64                      | Pre-treatment systems, Anaerobic ponds, Facultative Ponds, and Polishing Ponds |                          |
| 66     | Karur         | Sewage Treatment Plant, Karur Municipality,                    |                            | Under operation  | 15                         | Conventional Aeration Pond   |                          |
| 67     | Tirunelveli   | Tirunelveli City Municipal Corporation STP                     |                            | In operation   | 24.2                       | Biological treatment (Activated Sludge process)                                |                          |
| 68     | Sriperumbudur | Sewage Treatment Plant Kancheepuram                            | Information not provided   | In operation   | 14.71                      | Waste Stabilisation Pond system  | Information not provided |
| 69     |               | STP Town Panchayat Sriperumbudur,                              |                            | STP yet to be installed                                  | 8.5                        | Sequential Batch Reactor (SBR) technology                                      |                          |
| 70     | Thoothukudi   | Thoothukudi Municipal Corporation                              |                            | Project under execution                                  | 27                         | MBR  |                          |



| Sl. No | City/town    | STP Location                            | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction)                                     | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|--------------|---|----------------------------|--|----------------------------|--|----------------|
| 71     |              | Alwarthirunagari Town Panchayat         |                            | Project under execution  | 1.23                       | Conventional                                       |                |
| 72     | Cuddalore    | Cuddalore Municipality                  |                            | Under Construction   | 12.25                      | Aerobic Treatment                                  |                |
| 73     | Virudhunagar | TWAD Board Underground sewer system STP |                            | ETP is receiving effluent from partial area out of 7.65 MLD expected only 0.5MLD is Received | 8.37                       | Activated Sludge process Technology                |                |

#### 4.31 STPs AT TELANGANA

Telangana has 18 numbers of sewage treatment plants having treatment capacity of 685.8 MLD. 01 STP of capacity 51 MLD is Under Construction at Attapur in Greater Hyderabad. Details of STPs of Telangana are shown in Table 29.

Table 29: STPs-Telangana

| Sl. No | City/town         | STP Location           | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-------------------|------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 1      | Greater Hyderabad | Amberpet               | Information not provided   | Operational  | 339                        | Information not provided                           | Information not provided |
| 2      |                   | Attapur                |                            | Under Construction                                       | 51                         |  |                          |
| 3      |                   | Durgamcheruvu          |                            | Operational  | 5                          |  |                          |
| 4      |                   | Kattendan, RR District |                            | Operational  | 4                          |  |                          |
| 5      |                   | Kukatpally             |                            | Operational  | 12                         |  |                          |
| 6      |                   | Langar house           |                            | Operational  | 1.2                        |  |                          |
| 7      |                   | Miralam tank           |                            | Operational  | 10                         |  |                          |
| 8      |                   | Nagole                 |                            | Operational  | 172                        |  |                          |

|    |              |                            |             |     |
|----|--------------|----------------------------|-------------|-----|
| 9  |              | Nallacheruvu (Uppal)       | Operational | 30  |
| 10 |              | Necklace road (Khairtabad) | Operational | 20  |
| 11 |              | Peddachruvu (Nacharam)     | Operational | 10  |
| 12 |              | Safilguda                  | Operational | 0.6 |
| 13 |              | Saroornagar                | Operational | 2.5 |
| 14 | Bhadrachalam | Bhadrachalam               | Operational | 4   |
| 15 | Ramagundam   | Malkapur, Godavarikani     | Operational | 14  |
| 16 |              | Ramagundam                 | Operational | 4   |
| 17 | Manchiryala  | Reddy colony               | Operational | 4   |
| 18 |              | Saikunta                   | Operational | 2.5 |

#### 4.32 STPs AT TRIPURA

Tripura has 01 STP of treatment capacity 0.045 MLD. Details of STPs of Tripura are shown in Table 30.

Table 30: STPs-Tripura

| Sl. No | City/town | STP Location                                | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status                               |
|--------|-----------|---|----------------------------|---|----------------------------|--|--|
| 1      |           | Indian Check Post, Akhaura Border, Agartala | 17.01.2014                 | Operational   | 0.045                      | MBBR   | Consent certificate was issued on 18.02.2014 |

#### 4.33 STPs AT UTTAR PRADESH

Uttar Pradesh has 73 numbers of sewage treatment plants having treatment capacity of 2646.84 MLD. 07 STPs of capacity 89.59 MLD are Non-Operational, 03 STPs of capacity 170 MLD are Under Construction and 01 STP of capacity 15 MLD is proposed. Details of STPs of Uttar Pradesh are shown in Table 31.

Table 31: STPs-Uttar Pradesh

| Sl. No | City/town | STP Location  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-----------|---|----------------------------|---|----------------------------|--|--------------------------|
| 1      | Agra      | Boodhi Ka Nagla   | Information not provided   | Operational   | 2.25                       | WSP  | Not obtained             |
| 2      |           | Pilakhar  |                            | Operational   | 10                         | WSP  | Not obtained             |
| 3      |           | Dhandhupura   |                            | Operational   | 78                         | UASB   | Not obtained             |
| 4      |           | Jaganpur, Sikandarpur   |                            | Operational   | 14                         | UASB   | Not obtained             |
| 5      |           | Bhim Nagri, Devri Road.   |                            | Operational   | 12                         | UASB   | Not obtained             |
| 6      |           | Sadarwan (Bichupri)   | 2013                       | Operational   | 40                         | UASB   | Not obtained             |
| 7      |           | Sadarwan (Bichupri) New   | 2014                       | Operational   | 36                         | UASB   | Not obtained             |
| 8      |           | Dhandhupura New   | 2014                       | Operational   | 24                         | UASB   | Not obtained             |
| 9      |           | Kalindi Vihar   | 2014                       | Operational   | 4.5                        | UASB   | Not obtained             |
| 10     | Etawah    | STP at near Tiksi Mandir, Etawah (In Yamuna Action Plan)          | 2000                       | Operational   | 10.445                     | OP   | Not obtained             |
| 11     |           | STP at Mauza Umrain, Etawah (In State Sector and UIDSSMT)         | 2014                       | Trail run complete but presently Non-Operational          | 13.5                       | OP   | Not applied              |
| 12     | Mainpuri  | STP at Moja Ordy, Padaria, Mainpuri (In State Sector and UIDSSMT) | 2013                       | Not Operational on full capacity                          | 23                         | UASB   | Not applied              |
| 13     | Mathura   | Kalidah, Vrindavan  | Information not provided   |   | 0.5                        | Abanded  | Information not provided |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town     | STP Location                     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|---------------|----------------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 14     |               | Vrindavan Near Pagal Baba Mandir |                            | Non-Operational  | 4                          | OP   | Not applied              |
| 15     |               | Masani                           | 2006                       | Non-Operational  | 13.59                      | OP   | Not applied              |
| 16     |               | Trans Yamuna, Jamunapar          | 2006                       | Operational  | 14.5                       | OP   | Not applied              |
| 17     | Varanasi      | Dinapur                          | Information not provided   | Operational  | 80                         | Trickling Filter                                   | Not applied              |
| 18     |               | Bhagwanpur                       |                            | Operational  | 9.8                        | ASP  | Not applied              |
| 19     |               | DLW, maduadih                    |                            | Operational  | 12                         | ASP  | Not applied              |
| 20     | Noida         | Sector-50                        | Information not provided   | Operational  | 34                         | UASB   | Information not provided |
| 21     |               | Sector-54                        |                            | Operational  | 27                         | UASB   |                          |
| 22     |               | Sector-54                        |                            | Operational  | 9                          | OP   |                          |
| 23     |               | Sector-50                        |                            | Operational  | 25                         | SBR  |                          |
| 24     |               | Sector-123                       |                            | Operational  | 35                         | SBR  |                          |
| 25     |               | Sector-91                        |                            | Operational  | 5                          | OP   |                          |
| 26     |               | Sector-54                        |                            | Operational  | 33                         | SBR  |                          |
| 27     |               | Sector-168                       |                            | Operational  | 50                         | SBR  |                          |
| 28     |               | Kansa, Greater Noida             | 2013                       | Operational  | 137                        | SBR  | Applied                  |
| 29     | Saharanpur    | Malhipur                         | 2008                       | Operational  | 38                         | UASB   | Not applied              |
| 30     | Muzaffarnagar | Muzaffarnagar                    | 2008                       | Operational  | 32.5                       | OP   | Not applied              |
| 31     | Allahabad     | STP Naini, Allahabad             |                            | Operational  | 80                         | ASP  | Not applied              |
| 32     |               | Salori                           |                            | Operational  | 29                         | FAB  | Not applied              |
| 33     |               | Rajapur, Allahabad               | 2013                       | Operational  | 60                         | UASB & Aerated Lagoon                              | Not applied              |
| 34     |               | Pongahat, Allahabad              | 2013                       | Operational  | 10                         | BTR (Bio Tower Reactor)                            | Not applied              |
| 35     |               | Numayadahi, Allahabad            | 2013                       | Operational  | 50                         | BTR (Bio Tower Reactor)                            | Not applied              |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town   | STP Location                       | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-------------|------------------------------------|----------------------------|--|----------------------------|--|--------------------------|
| 36     |             | Kodra, Allahabad                   | 2013                       | Operational  | 25                         | BTR (Bio Tower Reactor)                            | Not applied              |
| 37     | Mirzapur    | Pakka Pokhara, Ramai Patti         | Information not provided   | Operational  | 14                         | UASB   | Not applied              |
| 38     |             | WSB STP, Vindhyanchal              |                            | Operational  | 4                          | WSP(Waste Stabilization Pond)                      | Not applied              |
| 39     | Farrukhabad | Farrukhabad                        | 1992                       | Operational  | 2.7                        | OP   | Not applied              |
| 40     | Kanpur      | STP Jajmau                         | 1989                       | Operational  | 5                          | UASB   | Not applied              |
| 41     |             | STP Jajmau                         | 1999                       | Operational  | 130                        | ASP  | Not applied              |
| 42     |             | Bingava Kanpur(JNNURM)             | Proposed                   | Operational Sept, 2014                                   | 210                        | UASB   | Not applied              |
| 43     |             | Jajmau (JNNURM)                    | Proposed                   | Operational Sept, 2014                                   | 43                         | ASP  | Not applied              |
| 44     |             | Sajari Kanpur                      | Proposed                   | Operational Dec., 2014                                   | 42                         | ASP  | Not applied              |
| 45     |             | Baniyapur Kanpur                   | Proposed                   | Proposed   | 15                         | UASB   | Not applied              |
| 46     | Ghaziabad   | Indirapuram Trans Hindon           | 2001                       | Operational  | 56                         | UASB   | Information not provided |
| 47     |             | Dudaheera, Vijay Nagar, Sis Hindon | 2001                       | Operational  | 70                         | UASB   |                          |
| 48     |             | Indirapuram Trans Hindon           | 2012                       | Operational  | 56                         | SBR  | Grant                    |
| 49     |             | Dudaheera, Vijay Nagar, Sis Hindon | 2012                       | Operational  | 56                         | SBR  | Grant                    |
| 50     |             | Indirapuram Trans Hindon           | 2012                       | Operational  | 74                         | SBR  | Information not provided |
| 51     |             | Govindpuram Sis Hindon             | 2013                       | Operational  | 56                         | SBR  | Grant                    |
| 52     |             | Sadullabad, Loni                   | 2012                       | Operational  | 30                         | SBR  | Information not          |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town   | STP Location                               | STP Commissioned in (Year) | Status (Operational/ Non-Operational/ Under Construction)                      | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-------------|--|----------------------------|--|----------------------------|--|--------------------------|
|        |             |  |                            |  |                            |  | provided                 |
| 53     |             | Madhuban Babudham Yojna GZB. Sis Hindon    | Yet to commission          | Construction completed ( Development of Housing Project is under Construction) | 56                         | SBR  | Information not provided |
| 54     |             | Morti Ghaziabad Sis Hindon                 | Information not provided   | Under Construction   | 56                         | SBR  |                          |
| 55     |             | Doulatganj                                 | 2002                       | Operational  | 56                         | FAB  | Not applied              |
| 56     |             | Bharwara                                   | 2011                       | Operational  | 345                        | UASBR  | Not applied              |
| 57     |             | STP Near Hathiya Nala Sultanpur            | 2008                       | Operational  | 5                          | OP   | Not applied              |
| 58     | Bulandsahar | Ahara Road, Zone-A, Anupshar               | 2009                       | Operational  | 0.805                      | OP   | Information not provided |
| 59     |             | Ahara Road, Zone-B, Anupshar               | 2009                       | Operational  | 1.75                       | OP   |                          |
| 60     | Meerut      | MDA STP Ganganagar                         | 2012                       | Operational  | 10                         | ASP  | Information not provided |
| 61     |             | MDA STP, Shradhapuri, Phase-II             | 2012                       | Operational  | 6                          | ASP  |                          |
| 62     |             | MDA STP Rakshapuram, Meerut                | 2012                       | Operational  | 6                          | ASP  |                          |
| 63     |             | MDA STP Sports Complex, Delhi Road, Meerut | 2013                       | Operational  | 7                          | ASP  |                          |
| 64     |             | MDA STP Sports Vedvyaspuri,                | 2013                       | Operational  | 15                         | ASP  |                          |

| Sl. No | City/town | STP Location                                     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction)                 | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|-----------|--|----------------------------|--|----------------------------|--|--------------------------|
|        |           | Meerut   |                            |  |                            |  |                          |
| 65     |           | MDA STP Pallavpurm-I                             | 2012                       | Operational  | 7                          | ASP  |                          |
| 66     |           | MDA STP, Shradhapuri-I, Phase-II                 | 2012                       | Operational  | 6                          | ASP  | Information not provided |
| 67     |           | MDA STP Shatabdinagar                            | 2011                       | Operational  | 15                         | ASP  |                          |
| 68     |           | MDA STP Lohia Nagar, Hapur Road, Meerut          | 2011                       | Operational  | 10                         | ASP  |                          |
| 69     |           | MDA STP Pandavnagar, Meerut                      | 2007                       | Operational  | 1                          | ASP  |                          |
| 70     |           | MDA STP Pallavpurm-II, Meerut                    | 2009                       | Operational  | 5                          | ASP  |                          |
| 71     |           | Rampur Road Near Hanuman Murti Tiraha, Gulabbari | Information not provided   | Under Construction   | 58                         | SBR  | Information not provided |
| 72     | Moradabad | Mordabad Delhi Road, Vikas Pradhikaran, MDA      | 2012                       | Non Operational (non availability of sewage)                             | 20                         | ASP  |                          |
| 73     | Rampur    | Kemri Road                                       | 2014                       | Non Operational (connectivity problem due to non availability of sewage) | 15                         | UASB   |                          |

#### 4.34 STPs AT UTTRAKHAND

Uttarakhand has the treatment capacity of 152.9 MLD and 24 numbers of STPs. Out of 24 STPs, 12 STPs having treatment capacity of 39.15 MLD are under construction and 02 STPs of capacity 23 MLD are tendering under process. Details of STPs of Uttarakhand are shown in Table 32.

Table 32: STPs-Uttarakhand

| Sl. No | City/town          | STP Location     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status  |
|--------|--------------------|------------------|----------------------------|--|----------------------------|--|---|
| 1      | Almora             | Bakh             | 2003-2004                  | Operational  | 2                          | MBBR   | Working and in use  |
| 2      | Bhimtal (Nainital) | Bhimtal          | 2009-2010                  | Operational  | 1.25                       | UASB   | Working and in use  |
| 3      | Nainital           | Rushi            | 2009-2010                  | Operational  | 10                         | Settling Tank with tricking Filter                 | Working and in use  |
| 4      | Rishikesh          | lakkarghat       | 1984                       | Operational  | 6                          | OP   | Insufficient for present population, 25MLD capacity is being proposed |
| 5      | Srinagar           | Near Bus Station | 2009                       | Operational  | 3.5                        | FAB  | Scheme handed over to Uttarakhand Jal Sansthan                        |
| 6      | Swargashram        | Ved Niketan      | 2010                       | Operational  | 3                          | SBR  | Commissioned  |
| 7      | Tapovan (Tehri)    | Tapovan          | Information not provided   | Under Construction                                       | 3.5                        | SBR  | Work is under progress, expected to be completed in Dec 2014          |
| 8      | Uttarkashi         | Gyansu           | 2012                       | Operational  | 2                          | MBBR   | Working and in use  |
| 9      | Devprayag          | Bah Bazar        | Information not provided   | Under Construction                                       | 1.4                        | Soil Bio Technology (SBT)                          | Work is under progress, expected to be completed in Dec 2014          |
| 10     | Gangotri           | Gangotri         |                            | Under Construction                                       | 1                          | SBR  | Work is under progress, expected to be completed in Nov 2014          |



[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location     | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status   |
|--------|-----------|------------------|----------------------------|--|----------------------------|--|--|
| 11     | Haridwar  | Jagjeetpur       | 1990                       | Operational  | 18                         | ASP  | performance well within NRCD limits                            |
| 12     |           | Jagjeetpur       | 2010                       | Operational  | 27                         | SBR  | DO   |
| 13     |           | Sarai, Jawalapur | Dec-13                     | Operational  | 18                         | SBR  | Performance Satisfactory (under observation)                   |
| 14     | Mussoorie | Bhattafall       | Information not provided   | Under Construction                                       | 3.12                       | SBR  | Work is under progress, expected to be completed in Dec 2014   |
| 15     |           | Landhor South    |                            | Under Construction                                       | 1.3                        | SBR  | Work is under progress, expected to be completed in Dec 2014   |
| 16     |           | Landhor North    |                            | Under Construction                                       | 0.8                        | SBR  | work is under progress, expected to be completed in Dec 2014   |
| 17     |           | Kulri            |                            | Under Construction                                       | 0.9                        | SBR  | Work is under progress, expected to be completed in Dec 2014   |
| 18     |           | Indira Nagar     |                            | Under Construction                                       | 5                          | SBR  | Work is under progress, expected to be completed in March 2015 |
| 19     | Dehradun  | Mothorowala      |                            | Under Construction                                       | 20                         | SBR  | Work is under progress, expected to be completed in June 2014  |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town | STP Location | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status   |
|--------|-----------|--------------|----------------------------|--|----------------------------|--|--|
| 20     |           | Jakhan       | Information not provided   | Under Construction                                       | 1                          | SBR  | Work is under progress, expected to be completed in Oct 2014     |
| 21     |           | Vijay Colony |                            | Under Construction                                       | 0.42                       | SBR  | Work is under progress, expected to be completed in Oct 2014     |
| 22     |           | Salawala     |                            | Under Construction                                       | 0.71                       | SBR  | Work is under progress, expected to be completed in Oct 2014     |
| 23     |           | Mothorowala  |                            | Tending Under Process                                    | 20                         | SBR  | Application under process. Expected to be completed in June 2016 |
| 24     |           | Kaulagarh    |                            | Tending Under Process                                    | 3                          | SBR  | Application under process. Expected to be completed in June 2016 |

#### 4.35 STPs AT WEST BENGAL

West Bengal has total number of 28 STPs having treatment capacity of 416.9 MLD. Out of 24 STPs, 12 STPs of capacity 181.54 MLD are Non-Operational. Details of STPs of West Bengal are shown in Table 33.

Table 33: STPs-West Bengal

| Sl. No | City/town | STP Location | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|-----------|--------------|----------------------------|--|----------------------------|--|----------------|
| 1      | Titagarh  | Titagarh     |                            | Operational  | 4.5                        | ASP  | No             |

[INVENTORIZATION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town         | STP Location                                  | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status |
|--------|-------------------|---|----------------------------|--|----------------------------|--|----------------|
| 2      |                   | Titagarh                                      | Information not provided   | Non Operational  | 4.5                        | OP   | No             |
| 3      |                   | Jagaddal Bhatpara New                         |                            | Non Operational  | 10                         | ASP  | No             |
| 4      | Jagaddal Bhatpara | Jagaddal Bhatpara Old                         |                            | Non Operational  | 8.5                        | ASP  | Not Known      |
| 5      |                   | Jagaddal Bhatpara                             |                            | Non Operational  | 10                         | OP   | NO             |
| 6      | KANKINARA         | KANKINARA STP, MADRAIL, Bhatpara              |                            | Non Operational  | 10                         | OP   | NO             |
| 7      | Baidyabati        | Baidyabati                                    |                            | Operational  | 6                          | OP   | No             |
| 8      | Bandipur          | Bandipur                                      |                            | Operational  | 14                         | OP   | Not Known      |
| 9      | Konnagar          | Konnagar                                      |                            | Not Known  | 22                         | OP   | No             |
| 10     | Panihati          | Panihati (Natagarh)                           |                            | Operational  | 12                         | OP   | No             |
| 11     | Kona              | Kona, Chakpara ( Anandanagar gram Panchayet ) |                            | Operational  | 30                         | OP   | No             |
| 12     | Chandannagore     | Chandannagar, Khalisani, Chinsurah-Highly     |                            | Operational  | 18.16                      | Trickling Filter                                   | No             |
| 13     |                   | Chandannagar, Khalisani, Chinsurah-Highly     |                            | Non Operational  | 4.54                       | OP   | No             |
| 14     | Bansberia         | Bansberia                                     |                            | Operational  | 0.3                        | Waste stabilisation pond                           | No             |

[INVENTORIZAION OF SEWAGE TREATMENT PLANTS]

| Sl. No | City/town          | STP Location                                      | STP Commissioned in (Year) | Status (Operational/ Non-Operational/Under Construction) | STP Installed Capacity MLD | Technology (UASB / ASP / OP / SBR / MBR/ FAB Etc.) | Consent Status           |
|--------|--------------------|---|----------------------------|--|----------------------------|--|--------------------------|
| 15     | Kamarhati          | Kamarhati, Mathkol, near Belgachia Metro Car Shed | Information not provided   | Operational  | 40                         | Trickling Filter                                   | No                       |
| 16     | Naihati            | Naihati   |                            | Operational  | 11.56                      | ASP  | No                       |
| 17     | Garulia            | Garulia   |                            | Not Known  | 7.9                        | Waste stabilisation pond                           | No                       |
| 18     | Garden Reach       | Garden Reach                                      |                            | Under Maintenance  | 47.5                       | ASP  | No                       |
| 19     | Serampore          | Serampore, at Jannagar Road, Serampore            |                            | Operational  | 18.89                      | Trickling Filter                                   | No                       |
| 20     | Maheshtala         | Mahestala, Nungi                                  |                            | Non Operational  | 4                          | Waste stabilisation pond                           | No                       |
| 21     | Budge Budge        | Budge Budge                                       |                            | Operational  | 4.25                       | Waste stabilisation pond                           | Not Known                |
| 22     | Bhadreswar         | Bhadreswar  |                            | Non Operational  | 7.6                        | Aerated Lagoon                                     | No                       |
| 23     | Howrah             | Howrah  |                            | Non Operational  | 45                         | Trickling Filter                                   | No                       |
| 24     | Kalyani            | STP Kalyani - I                                   |                            | Operational  | 11                         | Trickling Filter                                   | Information not provided |
| 25     |                    | STP Kalyani - II                                  |                            | Operational  | 6                          | OP   |                          |
| 26     | Berhampore         | STP Berhampore                                    |                            | Operational  | 3.7                        | OP   |                          |
| 27     | Cossipore Chitpore | STP Cossipore Chitpore                            |                            | Operational  | 45                         | ASP  |                          |
| 28     | Nabadwip           | STP Nabadwip                                      | Operational                | 10   | OP                         |  |                          |

## 5. CONCLUSION

CPCB access the data provided by SPCBs/PCCs and concluded that 816 number of STPs are available having treatment capacity of 23,277 MLD equipped with different technologies like ASP, OP, USAB, SBR etc. Out of 816 STPs, 522 STPs Operational, 79 STPs Non-Operational, 145 STPs Under Construction and 70 STPs are proposed. It was also find out that maximum STPs having ASP based treatment technology and nowadays SBR based technology widely used for treatment of sewage.To check the performance and status from STPs, CPCB has initiated performance evolution of STPs in India.