**SEWERAGE SECTOR**

**Bhilai Municipal Corporation**

**TEMPLATE FOR SERVICE LEVEL IMPROVEMENT PLAN (SEWERAGE)**

1. **Assess the Service Level Gap.**

The first step is assess the existing situation and service levels gaps for Sewerage (AMRUT Guidelines; para 3 & 6). This will also include existing institutional framework for the sector. For this city has to review all policy, plans, scheme documents , etc. To identify service level gaps and hold discussions with officials and citizens. AMRUT is focused on improvement in service levels. The zone wise data shall be used in identifying the gaps. These zone-wise gaps will be added to arrive at city level service gaps. While assessing service level gap reply following questions not more then word indicated against each question.

* What kind of baseline information is available for sewerage system of the city ?

Detail out the data, information, plans, reports, etc. Related to sewerage available with city? Is zone wise information available? Have you correlated your data with census 2011 data? (100 words).

**At present there is no sewerage system in BMC area except for the BSP area.BSP township administration has their own sewerage system including STP plants.Bhilai Municipal Corporation provides various services to 44 wards whereas,Bhilai Steel Plant (BSP) provides services to 23 wards. BMC has all data,information,reports zone-wise based on census2011,CSP, CDP, SLB. For BMC area is divided in to 6 administrative zones for providing municipal services to citizens**.

* What are existing service levels for sewerage for coverage of sewerage network services, efficiency of collection of sewerage and efficiency in treatment. Provide information in table 2.1

Table 2.1: Status of sewerage network and Service Levels

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Indicators as per SLB framework | Existing Service Level | MOUD Benchmarks |
| 1 | Coverage of latrines (individual or community) | 92% | 100% |
| 2 | Coverage of sewerage network services | 40% | 100% |
| 3 | Efficiency of collection of sewerage | 40% | 100% |
| 4 | Efficiency in Treatment: Adequacy of sewerage treatment capacity | 30% | 100% |

**Note- BSP area is also included**

* What is the gap in these service levels with regard to benchmarks prescribed by MoUD? (75 words).

**Service Level gap is as follow:- There is gap of 8% in coverage of latrines, sewerage network services level gap is -60%, Efficiency of collection of sewerage gap is -60%, Efficiency in Treatment gap is -70%.In BMC Area these service level need improvement by creating major sewerage infrastructures.In BSP area this gap is very low.**

* Does City has separate drainage system or sewer lines take care of storm water? (50 words).

**City has separate drainage system both for sewerline and storm water.In BMC area various type of open Brickmasonry,RCC U shape drain has beenConstructed in all zones.**

Sewerage network And Collection of Sewerage

* How much of the area of the city is covered by sewerage network? What is the status of household connections in each zone? What are the areas covered under septage? Provide information in Table 2.2.

**In BSP area entire township is covered with sewer network.In BMC area Nehru Nagar,VashaliNagar,Housing Board area,HUDCO sector are covered with sewer NetWork.40% area (including BSP area) covered by sewer network.**

Table 2.2: Zone Wise Coverage of Households.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Zone No. | Total No. Of Households | Households With Sewerage Network | Households with Septic Tanks | Households without any outlets for toilets |
| 1 | 30857 | 5946 | 11840 | 0 |
| 2 | 23167 | 5689 | 5340 | 0 |
| 3 | 18603 | 5257 | 2940 | 0 |
| 4 | 23069 | 3610 | 2842 | 0 |
| 5 | 18177 | 18177 | - | 0 |
| 6 | 22894 | 7732 | 8388 | 0 |
| **TOTAL** | **136767** | **46411** | **31350** | **0** |

Note-BSP area is also included

* Are there any areas where sewer lines have been laid but still households are not connected to sewer lines? Are there any areas where toilets may be connected tosewer lines but kitchen or bathroom waste are not connected to sewerage system? (75 words).

**NO, there are no such type of areas.**

* Is there any systematic and organised method to collect and treat waste from septic tanks?

**No, Only soak Pit provision is made for waste water outcomingfrom Septic tanks.**

* What is the duration of cleaning of septic tanks (monthly, quarterly, semiannually or annually)? Indicate status of overflows of septic tanks, either in the nearby drains / open fields / sewerage lines etc.? (75 words).

**Annually or as per requirement of complainer citizens.**

* What is the situation of O&M of the existing sewerage system? Does the city has routine maintenance system or breakdown maintenance system? What is the duration of cleaning of sewer lines (monthly, quarterly, semi-annually or annually)? Indicate infrastructure available for O&M of the sewerage system i.e. sewer jetting machines etc.? (100 words).

**In case of complaints and requirement BMC has separate sewerage system maintenance gang to attend problem.BMC has 3 nos. Suction machine mounted**

**Vehicles for cleaning of manholes and septic tanks.**

Sewage Treatment System

* Does city has Sewage Treatment Plant(STP)? Which areas are covered under each of the STPs? Provide details in table2.3.

Table 2.3: Status of Existing STPs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sr. No. | Locations | Capacity (MLD) | Inflow in the STP (MLD) | Efficiency in % |
| 1 | BRP oxidation pond | 15 | 09 | 60 |
| 2 | Kutelabhata | 45 | 27 | 60 |
| 3 | Raipur Naka | 09 | 5.4 | 60 |

Note-At presents all STPs are in Bhilai Steel Plant area

* Does decentralized waste treatment system exists or planned in the city? If yes, provide details (75 words)

**Decentralized waste treatment system exists in BSP area. In BMC area to prepare DPR of sewerage system a proposal has been sent to Urban Administration and Development department for approval.**

* How much of sewerage is generated in the city? How much of this sewerage generated reaches the STPs? What is the Biological Oxygen Demand (BOD) of incoming and outgoing sewage of each STP? (100 words).

**At present 67 MLD sewage is generated in city.**

* Is treated sewage being reused or recycled? Is treated water being used for irrigation or industrial purpose? Does the option of power generation being explored? (75 words).

**In BSP area treated sewage being reused for Industrial purpose.**

Institutional Framework

* Define role and responsibilities in terms of O&M, policy planning, funding, service provision in table 2.4.

Table 2.4: Functions, Roles and Responsibilities.

|  |  |  |
| --- | --- | --- |
| **Planning and Design** | **Construction/ Implementation** | **O&M** |
| BMC/PMC | Construction agency,PMC | BMC/Private agency |
| BSP | BSP/ Construction agency | BSP |

* Please also detail the how city is planning to execute projects. Shall the implementation of project be done by Municipal Corporation or any parastatal body? (75 words).

**For the execution of entire project BMC will prepare detail phase wise DPR. BMC will be divided in to several planning zone and the project will be controlled and monitored by BMC itself. For the timely completion of the project BMC will engage one and more expert agency/PMC Consultant and the work will be divided in a phased manner.For the timely completion of the project BMC will engage one and more expert agency component wise of project and PMC consultant.**

1. **Bridging the Gap.**

Once the gap between the existing Service Levels is compute, based on initiatives undertaken in different on-going programs and projects, objectives will be developed to bridge the gaps to achieve universal coverage. (AMRUT guidelines; para 6.2 & 6.3, Annexure-2; Table 2.1). Each of the identified objectives will be evolved from the outcome of assessment and meeting the opportunity to bridge the gap.

* List out initiative undertaken in different on-going programs and projects being carried out for sewerage system under different schemes with status an when the existing projects are scheduled to be completed? Provide information in table 2.4

Table 2.4: Status of On-going / Sanctioned.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.No. | Name of Project | Scheme Name | Cost in Rs.Crore | Month of Completion | Status ((as on 08-09- 2015) |
| 1 | Sewerline replacement in ward 15,16 zone-2 | 13th Finance Fund | 1.79 | 15-9-2015 | 70 % completed |
| 2 | Sewerline replacement in ward 10, zone-2 | Adhosanrachna Fund | 1.50 | 15-9-2015 | 70 % completed |
| 3 | Sewerline replacement in ward 20 zone-2 | 13th Finance Fund | 1.30 | 15-9-2015 | 70 % completed |
| 4 | Sewerline replacement in ward 56 HUDCO | 13th Finance Fund | 1.13 | 30-9-2015 | 95 % completed |
| 5 | Sewerline replacement in ward 57 HUDCO | 13th Finance Fund | 1.48 | 30-9-2015 | 95 % completed |

* How much the existing system will be able to address the existing gap in sewerage system? Will completion of above will improve the coverage of network and collection efficiency? If yes, how much. (100 words).

**Yes, Un-served area of sewerage system shall be covered after completion of mission and we will achieve the MoUD Sewerage System Baseline.**

* Does the city require additional infrastructure to improve the services? What kind of services will be required to fulfil the gap?

**For improvement of existing services we have additional infrastructure to improve the services. For successful implementation and management effective communication strategy and stake holder will be required. There is a need to prepare a comprehensive sewer system and storm water drains master plan so as to meet present gap and future requirement. Implementation of this plan would ensure exchanged quality of life to the citizen of the city.**

* How does the city visualise to take the challenge to rejuvenate the projects by changing their orientation, away from expensive asset replacement programs, to focusing on optimum use of existing assets?

**Proper steps such as delisting, widening, removing encroachments, closing and making pucca are needed. Identification of problematic areas and designing and implementing in scientific manner will be very impotent.**

Provide information in table 3.5.

Based on assessment of existing infrastructure and ongoing / sanctioned projects, calculate existing gaps and estimated demand by 2.21 for sewerage network, number of household to be provide with connections, and require enhancement in capacity of STP (MLD), area to be covered under septage management. Based on the demand and gap assessment, eveolve objectives to achieve this gap.

1. **Examine Alternatives and Estimate Cost.**

The objective will lead to explore and examine viable alternatives options available to address these gaps. These will include out of box approaches. (AMRUT Guidelines; Para 6.4 & 6.8 & 6.9). This will also include review of smart solutions. The cost estimate with broad source of funding will be explored for each alternative. While identifying the possible activities, also examine the on-going scheme and its solutions including status of completion, coverage an improvement in O&M. Please reply following questions in not more than 200 words.

* What are the possible activities and source of funding for meeting out the objectives?

**The possible activities are- Laying of sewer main trunk and distribution network, and sewer treatment plant including pumping main station, electrical substation and water recycling. The source of funding is state government. O&M work may have option of suitable PPP model.**

* How can the activities be converged with other programmes like JICA/ADB funded projects in the city etc.?

**NA**

* What are the options of completing the on-going activities?

**On-going work shall be completed in time by Nigam fund/13 Finance Fund.**

* How to address the bottlenecks in the existing project and lessons learnt during implementation of these projects?

**The bottlenecks in the existing system are to prevent mixing of service lines, prevention of discharge untreated slug and sewer into water reservoir or river canals, un-interrupted flow of inspection chamber and manhole.**

**For improvement of existing services we have additional infrastructure to improve the services. For successful implementation and management effective communication strategy and stake holder will be required. There is a need to prepare a comprehensive sewer system and storm water drains master plan so as to meet present gap and future requirement. Implementation of this plan would ensure exchanged quality of life to the citizen of the city.**

* Has projects includes O&M of sewerage system?

**Yes**

* What measures may be adopted to recover the O&M costs? Can the option of sale of treated wastewater be applicable to recover the O&M cost.

**Yes, after approval of state government PPP model can be adopted for O&M work. Treated water can be used for industrial, recreational, Development, works**

* What are innovative alternative solutions explored in achieving objectives?

**We will adopt comprehensive drainage system with latest and innovative technology to make the city infrastructure services more hygienic.**

* Are different options of PPP such as Design-Build-Operate-Transfer (DBOT), Design Built Finance Operate And Transfer (DBFOT) are considered?

**Only O&M works can be considered for various PPP models only after approval of state government.**

* How the recycle and reuse of water will be done? How much quantity of treated water may be reused?

**Water can be recycled with the incorporation of sewer treatment plan and rain water can be collected from storm water drains in reservoirs. At- most 35-40% water can be obtained after treatment and the same can be used for development works.**

* Have you analysed best practices and innovative solutions in sewerage sector? Is any of the practice being replicated in the city?

**We will adopt GIS Based Sewer line distribution network for planning and monitoring. We can also suggest implementation of natural drainage system.**

* Have you identified the areas for decentralized waste treatment system? Explore the approaches for septage management i.e People Public Private Partnership (PPPP) model or replacing septic tanks by bio digesters, bioremediation etc.

**Decentralized waste treatment system shall be adopted, after through study of city as whole. After the analysis, best suitable option can be adopted for septage management with the approval of state government.**

For each identified activity and alternative indicate the cost estimate with broad source of funding will be explored for each alternative in Table 3.6

1. **Citizen Engagement**.

Each Alternative will be discussed with citizens and activities to be taken up will be prioritized to meet the service level gaps. ULB will prioritize these activities and their scaling up based on the available resources. (AMRUT Guidelines; para 6.6, 6.7 & 7.2). Please reply following questions in not more than 200 words.

* Has all stakeholders involved in the consultation?

**Yes. Through website of BMC citizens can give their views, suggestion**.

* Has ward/ zone level consultations held in the city?

**Yes. In CITYTHON ward level consultations have been conducted**.

* Has alternatives explored are crowd sourced?

**Yes.**

* What is feedback on the suggested alternatives and innovations?

**Yes. Waste water treatment unit to be erected to save water.**

* Has alternative taken up for discussions are prioritized on the basis of consultations?

**Yes. First priority is to provide drinking water supply line in unserved area compared to other facilities**

* What methodology adopted for prioritizing the alternatives?

**Yes.**

1. **Prioritize Projects.**

Based on the citizen engagement, ULB will prioritize these activities and their scaling up based on the available resources to meet the respective objectives. While prioritizing projects, please reply following questions in not more than 200 words.

* What are sources of funds?

**Central and State government.**

* Has projects been converged with other program and schemes?

**No.**

* Has projects been prioritized based on “more with less” approach?

**Yes.**

* Has the universal coverage approach indicate in AMRUT guidelines followed for prioritization of activities?

**Yes.**

1. **Conditionality.**

Described the conditionality of each project in terms of availability of land, environmental obligation and clearance, required NOC, financial commitment, approval and permission needed to implement the project. Please reply following questions in not more than 100 words.

**The land is available for installation of treatment plant. NOC form respective departments like PWD, National Highway, BSP shall be obtained as per requirement of site.**

1. **Resilience.**

Required approvals will be sought from competent authority and organisations. The resilience factor would be built in to ensure environmentally sustainable sewerage scheme. Please reply following question in not more than 100 words.

**Necessary approvals shall be taken from pollution control board and respective departments as per project requirement.**

1. **Financial Plan**.

Once the activities are finalized and prioritized after consultations, investments both in terms of capital cost and O&M cost has to be estimated. (AMRUT Guidelines; para 6.5) Based on the investment requirements, different sources of finance have to be identified. Financial Plan for the complete life cycle of the prioritized development will be prepared. (AMRUT Guidelines; para 4, 6.6, 6.12, 6.13, & 6.14). The Financial plan will include percentage share of different stakeholders (Centre, State And City) including financial convergence with various on-going projects. While preparing finance plan please reply following questions is not more than 200 words.

* Does financial plan for the complete life cycle of the prioritized development?

**Yes.**

* Does financial plan include percentage share of different stakeholders (Centre, State, ULBs)

**Yes.**

* Does it include financial convergence with various on-goingprojects?

**Yes as per respected site requirement**.

* Does it provide year-wise milestones and outcomes?

**Yes**

Work and Service Levels.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Indicators** | **Existing Service Levels** | **MOUD Benchmarks** |
| 1 | Converge of latrines (individual or community) | 92% | 100% |
| 2 | Coverage of sewerage networks services | 40% | 100% |
| 3 | Efficiency of collection of sewerage | 40% | 100% |
| 4 | Efficiency in Treatment: Adequacy of sewerage treatment: Adequacy of sewerage treatment capacity | 30% | 100% |

**Table 3.2: Zone Wise Coverage of Households**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Zone No.** | **Total No. Of Households** | **Households with Sewerage Network** | **Households with Septic Tank** | **Households without any outlets for toilets** |
| 1 | 30857 | 5946 | 11840 | 0 |
| 2 | 23167 | 5689 | 5340 | 0 |
| 3 | 18603 | 5257 | 2940 | 0 |
| 4 | 23069 | 3610 | 2842 | 0 |
| 5 | 18177 | 18177 | - | 0 |
| 6 | 22894 | 7732 | 8388 | 0 |
| **TOTAL** | **136767** | **46411** | **31350** | **0** |

**Table 3.3: Status of Existing STPs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Locations** | **Capacity (MLD)** | **Inflow in the STP (MLD)** | **Efficiency in %** |
| 1 | BRP oxidation pond | 15 | 09 | 60 |
| 2 | Kutelabhata | 45 | 27 | 60 |
| 3 | Raipur Naka | 09 | 5.4 | 60 |

**Table 3.4: Status of On-going/ Sanctioned.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Project** | **Scheme Name** | **Cost in Rs. Crore** | **Month of Completion** | **Status ((as on 08-09- 2015)** |
| 1 | Sewerline replacement in ward 15,16 zone-2 | 13th Finance Fund | 1.79 cr | 15-9-2015 | 70 % completed |
| 2 | Sewerline replacement in ward 10,zone-2 | Adhosanrachna Fund | 1.50 cr | 15-9-2015 | 70 % completed |
| 3 | Sewerline replacement in ward 20 zone-2 | 13th Finance Fund | 1.30 cr | 15-9-2015 | 70 % completed |
| 4 | Sewerline replacement in ward 56 HUDCO | 13th Finance Fund | 1.13 cr | 30-9-2015 | 95 %completed |
| 5 | Sewerline replacement in ward 57 HUDCO | 13th Finance Fund | 1.48cr | 30-9-2015 | 95 %completed |

**Table 3.5: Demand Gap Assessment.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Component** | **Existing** | **On-going Projects** | **Existing + On-going** | **2021 -2030(Short Term)** | |
| **Demand** | **Gap** |
| Sewerage network (km) | 569 KM | 1. Sewerline replacement in ward 15,16 zone-2- **13.6 KM** 2. Sewerline replacement in ward 10,zone-2 3. Sewerline replacement in ward 20 zone-2 4. Sewerline replacement in ward 56 HUDCO- **4 KM** 5. Sewerline replacement in ward 57 HUDCO- **5.4 KM** | 591 KM | 1791 KM | 1200 KM |
| No. Of Households covered under sewerage system | **46411** | 0 | **46411** | **136767** | **90356** |
| Sewerage Treatment Plant (MLD) | 30 MLD (BSP) | 0 | 30 MLD (BSP) | 130 MLD | 100 MLD |

**Table 8.1 Master Plan of Sewerage Projects for Mission period**

**(As per Table 2.1of AMRUT guidelines)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr.  No. | Project Name and Code (list all projects to achieve universal coverage in the city separately for water supply and sewerage) | Infrastructure Improvement | | |  |
| Change in Service Levels | | | Estimated Cost (Amount in Rs.) |
| Priority Number | Year in which to be implemented | Year in which proposed to be completed |
| 1 | Preparation of DPR,PMC | 1 | 2016-17 | 2016-17 | 12.6 cr |
| 2 | Sewerage System for Bhilai City- Sewer Network & Pumping Station  (AMRUT/CG/Bhilai/SG/01) | 2 | 2016-17 | 2020-2021 | 690 cr |
| 3 | STP for Bhilai City- STP  (AMRUT/CG/Bhilai/SG/02) | 3 | 2016-17 | 2020-2021 | 110 cr  (4 nos STP) |
| 4 | Road Restoration Work | 4 | 2016-17 | 2020-2021 | 40 cr |
| **Grand Total** | |  |  |  | **852.6 cr.** |

#### DETAILS OF PRIORITIZED PROJECTS PREPARED UNDER AMRUT DURING CURRENT FY(As per Table 2.2 of AMRUT guidelines) (Amount in Rs. Cr)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Project Name andCode** | **Physical**  **Components** | **Change in Service Levels** | | |  |
| **Indicator** | **Existing**  **(As-Is)** | **After**  **(To-be)** | **Estimated Cost** |
| 01 | Preparation of DPR,PMC  (AMRUT/CG/Bhilai/SG/01) | - | Project Details | - | - | 12.6 cr |
| 02 | Sewerage System for Bhilai City- Sewer Network & Pumping Station  (AMRUT/CG/Bhilai/SG/02) | 1. Trunk Sewer Line 2. 2.Sewerage Line   Network   3.Pumping  Station | Coverage | 591 KM | 1791 KM | 690 cr |
| 03 | STP for Bhilai City- STP  (AMRUT/CG/Bhilai/SG/03) | 1. STP, 2. Pumping station, 3. Power station | Quality | 30 MLD (BSP) | 130 MLD | 110 cr(4 nos STP) |
| 04 | Road Restoration Work  (AMRUT/CG/Bhilai/SG/04) |  | coverage |  |  | 40 cr |
| **Total** | | | | | | **852.6 cr.** |

#### TABLE-8.3: ANNUAL FUND SHARING PATTERN FOR SEWERAGE PROJECTS(As per Table 2.3.1 of AMRUT guidelines) (Amount in Rs. Cr)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of Project** | **Total Project**  **Cost** | **Share** | | | | |
| **GOI** | **State**  **(30%)** | **ULB 20%** | **Others** | **Total** |
| 1 | Preparation of DPR,PMC | 12.6 cr | 3.3 cr | 3.78 cr | 2.52 cr | - | 12.6 cr |
| 2 | Sewerage System for Bhilai City- Sewer Network & Pumping Station | 690 cr | 345 cr | 207 cr | 138cr | - | 690 cr |
| 3 | STP for Bhilai City- STP | 110 cr  (4 nos STP) | 55 cr | 33 cr | 22 cr | - | 110 cr |
| 4 | Road Restoration Work | 40 cr | 20 cr | 12 cr | 8 cr | - | 40 cr |
|  | **Total** | **852.6 cr.** | **81.75 cr** | **255.78** | **170.52** | **-** | **852.6 cr.** |

#### TABLE-8.4: ANNUAL FUND SHARING BREAK-UP FOR SEWERAGE PROJECTS(As per Table 2.3.2 of AMRUT guidelines) (Amount in Rs. Cr)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Project** | **GOI** | **State** | | | **ULB** | | | **Convergence** | **Others** | **Total** |
| **14th**  **FC** | **Others** | **Total** | **14th**  **FC** | **Others** | **Total** |
| 1 | Preparation of DPR,PMC | 3.3 cr | 3.78 cr | - | 3.78 cr | 2.52 cr | - | 2.52 cr | - | - | 12.6 cr |
| 2 | Sewerage System for Bhilai City- Sewer Network & Pumping Station | 345 cr | 207 cr | - | 207 cr | 138cr | - | 138cr | - | - | 690 cr |
| 3 | STP for Bhilai City- STP | 55 cr | 33 cr | - | 33 cr | 22 cr | - | 22 cr | - | - | 110 cr |
| 4 | Road Restoration Work | 20 cr | 12 cr |  | 12 cr | 8 cr | - | 8 cr | - | - | 40 cr |
|  | **Total** | **81.75 cr** | **255.78** | **-** | **255.78** | **170.52** | **-** | **170.52** | **-** | **-** | **852.6 cr.** |

#### TABLE-8.5: YEAR WISE PLAN FOR SERVICE LEVELS IMPROVEMENTS(As per Table 2.5of AMRUT guidelines)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Proposed**  **Projects** | **Project**  **Cost** | **Indicator** | **Baseline** | **AnnualTargets**  **(Incrementfrom theBaselineValue)** | | | | | |
| **FY2016** | | **FY**  **2017** | **FY**  **2018** | **FY**  **2019** | **FY**  **2020** |
| H1 | H2 |
| Preparation of DPR,PMC | 12.6 cr | Quality & Coverage | 0% | 50% | 100% |  |  |  |  |
| Sewerage System for Bhilai City- Sewer Network & Pumping Station | 690 cr | Coverage | 40% | 45% | 50% | 70% | 80% | 90% | 100% |
| STP for Bhilai City- STP | 110 cr | Quality | 30% | 40% | 50% | 70% | 80% | 90% | 100% |
| Road Restoration Work | 40 cr | coverage | 0% | 40% | 50% | 70% | 80% | 90% | 100% |
| Total | **852.6 cr.** |  |  |  |  |  |  |  |  |