

Achievement of OWSSB in implementation Sewerage and Septage Projects in Odisha ending Oct-2019

The Govt of Odisha have prioritized the management of liquid waste management since this is indispensable for making all cities and towns totally clean, sanitised, healthy and liveable.

Discharge from insanitary latrines, sewage flowing in drains, effluent from septic tanks, septage and sewage mixed with drain water and open defecation pollute the major rivers namely Mahanadi, Brahmani, Daya & Kathajori which do not conform to the designated best use criteria for class B as revealed from the State Pollution Control Board monitoring data at various location i.e. Bhubaneswar, Cuttack, Sambalpur, Rourkela and Talcher owing to discharge of untreated domestic waste water.

To address the environmental challenges posed by insanitation and pollution of water bodies, various measures such as implementation of sewerage system & septage management works have been taken up by OWSSB.

Sewerage: Management of liquid waste bears immense importance to keep cities and towns clean and to reduce environmental pollution. Building up & maintaining sewerage networks involves huge capital and O&M cost. Hence, Govt is taking steps to cover cities and towns in a phased manner. With the fund made available under State Budget, AMRUT, erstwhile JNNURM and loan from JICA, OWSSB is implementing Sewerage Project for Bhubaneswar, Sambalpur & Rourkela Towns. One river pollution abatement scheme for Brahmani at Talcher and one Sewerage Project for Puri Town has been completed and commissioned since the year 2015. The status of implementation of various projects is given below.

- 1. Integrated Sewerage System for Bhubaneswar City:** OWSSB is executing the project "Integrated Sewerage System for Bhubaneswar City" covering 163 sqkm area at a project cost of Rs.754.23 crores. The project has been divided into 6 Sewerage Districts for smooth management of the works. M/s ECCI Ltd was awarded to lay gravity sewers in Sewerage District-I, II & III in two packages on 01.02.2007 and 28.05.2008 respectively. Due to poor progress, the contract with M/s ECCI was rescinded on 16.11.2015. Till the date of rescission, the agency had laid 169.87 kms of gravity sewer out of total provision of 312.20 kms at a cost of Rs.187.15 crore.

On rescission of the contract, fresh tenders were invited on EPC mode of contract for construction of Sewerage System in Sewerage District-I, II, III & IV (4 packages) of

Bhubaneswar City which included laying of gravity sewer, construction of Sewage Pumping Stations (SPSs) and Sewage Treatment Plants (STPs). The construction period for Sewerage District-I, II, III is 3 years and whereas it is 2 years for Sewerage District-IV followed by 5 years O&M by the Executing Agencies. The scope of the work under these projects includes construction of gravity sewer of 164.09 kms., 32 Nos of Sewage Pumping Stations and 4 Nos of Sewage Treatment Plants of total 135.5 MLD capacity i.e. (56+28+43.5+8 MLD). The cumulative construction cost for all these projects is Rs.625.29 crores. Out of 164.09 Kms sewer network, 39.22 km of sewer has been laid and expenditure to the tune of Rs.65.56 cr has been incurred during the FY 2018-19. As on Oct'2019, around 27.97% physical progress has been achieved with an expenditure of Rs.109.74 cr. During FY 2019-20, it is planned to make an expenditure of Rs.150.00 cr. It is scheduled to complete the projects during the year 2020. Tender for Sewerage work in Sewerage District-V has not taken up due to scarcely polluted area and non-availability of land. The work in Sewerage District-VI is being executed under Orissa Integrated Sanitation Improvement Project (OISIP) by Chief Engineer, OISIP, JICA availing loan assistance from JICA. The Sewerage Project of Bhubaneswar City (Sewerage District-I, II, III & IV) has been handed over to WATCO on 23.10.2019 for further implementation.

2. Orissa Integrated Sanitation Improvement Project (OISIP) implemented through JICA loan funding.

Govt of Orissa in Housing & Urban Development Department is implementing the Orissa Integrated Sanitation Improvement Project (OISIP) for construction of Sewerage & Drainage System in Cuttack city and Sewerage System in Bhubaneswar City. As on Oct 2019, around 69.96% physical progress has been achieved with an expenditure of INR 1703.35 Crore (69%). An expenditure of INR 246.78 Cr has been made during the FY 2018-19. Budget provision of INR 350 Crore has been made for the FY 2019-20.

- i. Bhubaneswar Sewerage Scheme in Sewerage District-VI :** The scheme covers the BMC Ward No.1 to 3, Ward No.5 to 17, Ward No.20,21,26 and Non-BMC area like Kalarahang, Patharagadia etc. Out of the total sewer network of 254 kms in Bhubaneswar Sewerage District-VI, 162 Km of sewer has been laid, as on Oct. 2019. During the FY 2019-20, 42 Km of sewer work is planned to be laid and the scheme is planned to be completed by December 2020. As a part of the sewerage scheme, construction of one 48 MLD Sewage Treatment Plant at Rokati and related pumping stations are under progress in Bhubaneswar. As on Oct 2019, around 63.82% of

construction work has been completed and the work is targeted to be fully completed by Dec 2020.

ii. Cuttack Sewerage Scheme:

The scheme covers the CMC ward Nos. 1 to 2, Ward No.6 to 23, Ward No.25 to 47 & Ward No.50 to 55. Out of the total sewer network of 382 km in Cuttack City, 289.65 km of sewer has been laid as on Oct. 2019. During the FY 2019-20, 65 km of sewer work is expected to be completed and the scheme is targeted to be fully completed by October 2020.

As part of the sewerage scheme, two Sewage Treatment Plant (STP-1 at CDA-36 MLD and STP-2 at Matgajpur – 16 MLD) & 36 pumping stations in Cuttack are to be constructed under the scheme. The Sewage Treatment Plant SD-I at CDA Cuttack was dedicated to the people of Cuttack in December 2018. As on Oct 2019, 81.66% of construction work of STP in SD-II at Matgajpur has been completed. Construction of STP and Pumping Stations in Cuttack is targeted to be fully completed ending June 2020.

iii. Cuttack Drainage Scheme:

The scheme includes construction of 18 KMs of storm water drains, 5 large capacity storm water pumping stations and 7 Nos. of sluice gates for quick discharge of storm water during rainy season. Out of 18 km of Storm Water Drains, 12.648 km of drain construction has been completed as on Oct 2019. The drainage pumping station at police colony has been dedicated to people of Cuttack during December 2018. As on Oct 2019, 65.08% of the construction work has been completed under the scheme. During F/Y 2019-20, 4 Km of drain construction work and construction of all pumping stations are expected to be completed. The construction work is targeted to be completed by September 2020.

Similarly, the construction of box drain in Cuttack for a length of 3 Km (Samaj office to Matrubhawan) shall be taken up soon, for which tender process is in progress. The construction work is targeted to be completed within 24 months form the award of contract.

3. Sewage Collection & Treatment System for Puri Town:

This is the 1st Sewerage Project of Odisha implemented by OWSSB during 2002-16. The project was partly commissioned in June 2013 and fully commissioned in the year June 2015. Under this project infrastructures consisting of 127.8 km of gravity sewer, 10 Nos of Sewage Pumping Stations and 1 No. of 15 MLD capacity Sewage Treatment Plant at a project cost of Rs.80.45 crore have been developed. Two projects for diverting waste water from storm water drains to Bankimuhan Sewage Treatment Plant have been implemented at a project cost of Rs.2.47 crore. The sewerage project of Puri town has been handed over to EE, PH Division, Puri on 30.09.2019 for O&M.

4. Sewerage System of Rourkela Town: The work for Sewerage Project for Rourkela city is under implementation by M/s L&T Ltd since 09.01.2017. The scope of work of this project includes construction of gravity sewer of 235 kms, 6 Nos of Sewage Pumping Stations & 2 Nos Sewage Treatment Plant of total 48 MLD capacity. The construction cost of the project is Rs.298.20 crores and O&M cost is Rs.57.54 crore. Completion period is 3 years followed by 5 years O&M by the Executing Agency. Out of total 235 kms of sewer network, 140.30 km of sewer has been laid and expenditure to the tune of Rs.65.36 crore has been incurred during the FY 2018-19. As on Oct 2019 around 73% physical progress has been achieved with an expenditure of Rs.144.30 cr. During FY 2019-20, it is planned to make an expenditure of Rs.80.00 cr. It is scheduled to complete the project during the year 2020.

5. Sewerage System of Sambalpur Town: The work for Sewerage project for Sambalpur Town is under implementation by M/s Gharpure Engineering & Construction (P) Ltd since 09.01.2017. The scope of the work for the project includes construction of gravity sewer 253 kms, 8 Nos Sewage Pumping Station and one No. Sewage Treatment Plant of 40 MLD capacity. The construction of the project is Rs.261.19 crore and O&M cost Rs.54.04 crore. Completion period is 3 years followed by 5 years O&M by the Executing Agency. Out of 253 kms sewer network, 78.58 kms has been laid and expenditure to the tune of Rs.50.86 crore has been incurred during the FY 2018-19. As on Oct 2019 around 37% physical progress has been achieved with an expenditure of Rs.79.00 cr. During FY 2019-20, it is planned to make an expenditure of Rs.50.00 cr. It is scheduled to complete the project during 2020.

6. Construction of 2 MLD Sewage Treatment Plant at Talcher: The construction of 2 MLD Sewage Treatment Plant at Talcher work is completed and commissioned since March 2018.

7. Septage Management Project:

Coverage of all ULBs under Septage Management System in a phased manner is envisaged to be taken up during the period from 2016-17 to 2021-22 which will lead to improved urban sanitation with positive impact on public health, environment & river water quality. The ULBs will be covered under Septage Management, which is efficient, effective and offers a solution involving low capital cost investment and O&M cost. Septage management will co-exist with sewerage system in Municipal Corporation to cater fringe areas and areas not connected to sewerage system.

Septage Management Projects are under implementation in eight AMRUT Towns of the State. Out of 8 Nos. of projects, 6 Nos projects i.e. at Baripada, Berhampur, Bhubaneswar, Puri, Rourkela and Sambalpur have been completed. The Septage Project at Balasore is targeted to be completed during October 2019. The Septage Project at Cuttack town is nearing completion. Tender has been invited for construction of Septage Treatment Plants in 26 ULBs of the State i.e at Soroda, Nilagiri, Banki, Basudevapur, Jharsuguda, Belpahad, Brajarajnar, Sundargarh, Jatni, Khurda, Nimapada, Nayagarh, Paradeep, Hinjlikat, Aska, Polsara, Barbil, Joda, Anandpur, Kamakshyanagar, Bolangir, Titilagarh, Kantabanjhi, Khariar, Bhawanipatna & Kesinga at an estimated cost of Rs.68.59 crore. It is targeted to start construction of the project during the financial year 2019-20. During FY 2019-20, it is planned to make an expenditure of Rs.20.00 crore in Septage Management Projects.

Further steps have been taken for construction of Septage Treatment Plants in another 32 Nos ULBs of the State at Koraput (M), Jeypore (M), Malkangiri (M), Nabarangpur (M), Rayagada (M), Patnagarh (N), Junagarh (N), Baragarh (M), Baudhgarh (N), Phulbani (M), Deogarh (M), Rajagangpur (M), Biramitrapur (M), Balugaon (M), Banapur (N), Karanjia (N), Keonjhar (M), Talcher (M), Jajpur (M), Vyasagarh (M), Sunabeda (M), Kendrapara (M), Jagatsinghpur (M), Sonapur (M) & Kotpad (N), Khariar Road (N), Belaguntha (N), Chatrapur (N), Khalikot (N), Bhadrak (M), Konark (N) & Jeypore (M) for which land acquisition/ identification is under progress.



orissa water supply & sewerage board
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No. _____ /OWSSB Dated _____

To

The Principal Secretary to Government,
Housing & Urban Development Department,
Odisha, Bhubaneswar.

Sub: Information along with physical performance during 2018-19 and expenditure incurred thereon for Budget, discussion on OLA

Standing-III

Ref: Letter No.HUD-BUD-35/2018-12287 dated 16.07.2019 of H&UD Deptt.

Sir,

With reference to the subject mentioned above, I am to enclose herewith the required information alongwith Physical Performance 2018-19 and expenditure incurred thereon for Budget Demand discussion on OLA for kind information and necessary action at Govt level.

Yours faithfully,

Encl: As above.

Member Secretary.