

Sewage Management in Delhi

To recapitulate, Delhi generates 3268 million liters (MLD) of sewage per day against available treatment capacity of 2756 MLD, whereas only around 2083 MLD is being treated. Although many attempts have been made to process more sewage the efforts have not succeeded. Some plants are not receiving sewage in sufficient quantity for which the plants were designed, resulting in capacity under- utilization. Many of the sewage treatment facilities are not functioning optimally and reporting systems and response mechanisms are weak.

In addition, the water in the river remains stagnant for almost nine months of the year which exacerbates the situation **since there is no flow reaching Wazirabad which means there is no dilution of the river downstream. What is a matter for real concern is that even if DJB treats the entire sewage generated in the city to the best standards, still, the river is not going to achieve bathing standard quality (less than 3 mg/l BOD).** For this to happen the environmental flow in the river has to increase manifold.

Even so providing sewage treatment is a responsibility which cannot be ignored and augmentation of capacity to cover deficient areas remains critically important from a public health point of view. But despite all the efforts, the effect on the quality of river water will not improve significantly unless the flow in the river is increased. Through the release of more water and measures to conserve and recharge the ground water.

Status of Sewage Treatment Plants

At present 41 Sewage Treatment Plants (STP) are established in Delhi with a cumulative treatment capacity of 3149 MLD. Out of 41 STPs, 32 STPs (2775 MLD) are operational and 9 STPs (373 MLD) are non-operational. The actual treatment by 32 STPs is however less than the capacity available and is 2029MLD. The performance of the STPs is given below and translates into:

Total STPs: 41

Non- functional: 9

Satisfactory: 24

Unsatisfactory: 6

According to CPCB, the compliance assessment shows that 8 STPs viz. Keshopur Phase-II, Keshopur Phase-III, Kondli-II, Kondli Phase -IV, Narela, Pappankalan Phase-I, Yamuna Vihar Phase-II and Yamuna Vihar Phase-III are not meeting the standards prescribed under Schedule VI of The Environment (Protection) Rules, 1986

Ministry of Environment, Forests & Climate Change have since notified higher standards for sewage treatment on 13th October 2017. Compliance assessment of STPs to new standards reveal that 23 STPs are not meeting to discharge norms for BOD, COD and TSS.

[HP III Performance of STPs in Delhi as in October 2018](#)

Proposed Plan for Augmentation and Rehabilitation of Sewage Treatment Plants

DJB is in the process of augmenting the capacity of existing plants and installing new plants. The details of plants proposed to be constructed by DJB in future are shown below.

Proposed Plan for Rehabilitation, Upgradation and Augmentation

S. No.	Name & location of STP	Capacity (MGD)	Status
1.	Delhi Cant.	8	To be finalized with Cantonment Board
2.	Kondli Phase-I, II & III	45	To be augmented under YAP-III. Likely date of completion is Feb'22.
3.	Rithala PH-I	40	To be upgraded under YAP-III. Likely date of completion is December'21
4.	Okhla I,II,III &IV	124	A new plant of 124 MGD is to be constructed in place of existing four STPs of 124 MGD capacity. Likely to be completed in May'22
5.	Coronation Pillar	70	Three existing STPs of 10 MGD each will be put out of operation and a new plant of 70 MGD is being built. Hence capacity addition will be 40 MGD. Likely to be completed in December'19

Interceptor Sewer Project

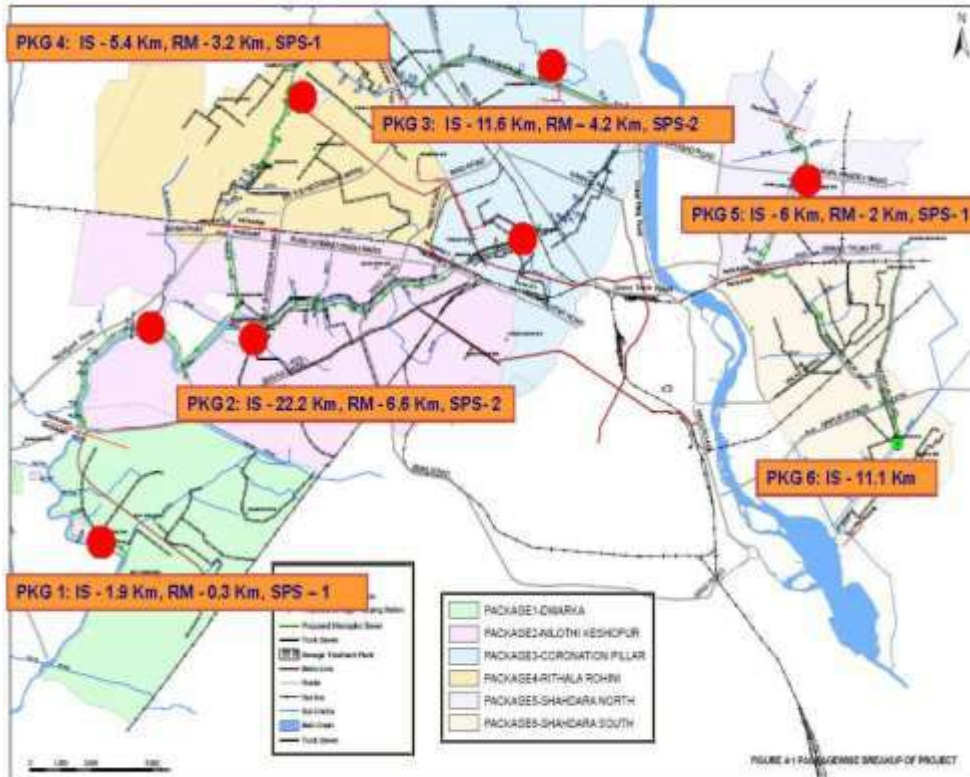
Out of all the drains out falling into the river Yamuna, 75% of pollution is contributed by three major drains i.e. **Najafgarh, Supplementary & Shahdara**. Untreated sewage which comes from smaller drains into these three major drains needs to be trapped by constructing Intercepting Chambers and laying Interceptor Sewers along the banks of these drains. Approximately 57km of sewer lines are to be laid by Micro Tunneling and Pipe Jacking method. This project has been subdivided by DJB into six “Packages “as given below:

Drains & Discharge

Package No.	Package description	Sub-drains being trapped (in Nos)	Discharge (in MGD)
1	Dwarka	2	13.80
2	Nilothi&Keshopur	37	63.10
3	Coronation Pillar & Bharat Nagar	19	69.10
4	Rohini &Rithala	19	26.0
5	Shahdara North (Yamuna Vihar)	15	31.80
6	Shahdara South	16	37.20
	Total	108	242.00
1	Najafgarh	28	87.00
2	Supplementary	49	86.00
3	Shahdara	31	69.00

Summary of the Drains package-wise is explained in the matrix and map below.

Package (P)	P1	P2	P3	P4	P5	P6	Overall
Total No. of Drains (in Nos.)	2	37	19	19	15	16	108



Present Status of the Project

- Overall Project Progress achieved is 92% as on 31.07.2018
- Package 1 is completed and commissioned on 15.01.2016
- Total flow trapped 98.9 MGD out of total 242 MGD.
- Likely date of completion of Interceptor project is 31st Dec., 2018.
- However only 180 MGD of sewage will be trapped by December 2018 as the STPs at Kondli, Yamuna Vihar & Coronation Pillar which are to receive sewage from the ISP project have not been commissioned. These STPs are targeted to be commissioned by the end of March 2019. It is only then that the entire 240 MGD sewage would be trapped and treated through the Interceptor project.

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