

**GOVERNMENT OF JAMMU & KASHMIR**

Chief Minister's Monitoring Cell

**Monitoring of Developmental Projects in J&K**

**PHYSICAL VERIFICATION REPORT OF  
Sewerage Works In Greater Srinagar**



By Under Secretary,  
CM's Monitoring Cell.

## Sewerage Works In Greater Srinagar

### Background information

- Urban Environment Engineering Department (UEED) was created in the year 1979 and was entrusted with the formulation and execution of Sewerage & Drainage Schemes in Greater Srinagar and conservation of Dal Lake.
- Many schemes under Drainage sector were taken up for implementation in various areas of the city.
- In September, 1997 after the creation of Lakes & Water Ways Development Authority (LAWWDA), the conservation of the Lakes in Kashmir was entrusted to it including the famous Dal and Nagin lakes.
- All the sewerage works which were being executed by the UEED around the Peripheral areas of Dal Lake were also transferred to the Authority under Dal-Nagin Lake Conservation Plan.
- In 2005, after the formation of Municipal Corporations & Municipal Councils in Mission Cities of Srinagar and Jammu and in towns respectively, the Drainage Sector was transferred to these Corporations and Municipalities.
- UEED was left with the sewerage works in Srinagar and Jammu respectively.

### Zoning of under Sewerage and Drainage Sectors

Greater Srinagar has been divide into four main zones which includes a separate Pampore Zone.

- Zone I areas on the right side of River Jehlum from Sonawar to Amirakadal; left side of River Jehlum viz. Rajbagh, Gogjibagh, Saraibal, Huzuribagh, Rambagh; areas on both sides of the Flood Spill Channel, areas on both sides of bye-pass from Lasjan up to Tengpora bridge.
- Zone II areas on the left side of the river Jehlum from Exhibition to Shalteng – HMT junction, viz. Shahid Gunj, Karan Nagar, Batamaloo, Bemina, Tengpora Parimpore etc.
- Zone III areas on the right side of the Jehlum from Dalgate to Noorbagh, Dalgate to Ahmad Nagar viz. Dalgate, Nowpora, Khyam, Habakadal to Zainakadal, Nowhata, Buchpora etc.
- Zone IV Pampore town.

### Present Scenario

Agencies entrusted with the execution of various Sewerage Schemes in Srinagar:

1. **UEED:** Various areas in Zone III under two pilot Sewerage Schemes of Brarinambal and Khushalsar have been taken up for execution by UEED Department.
2. **NBCC:** Other areas of Zone III under Sewerage Scheme taken up under JnNURM by NBCC for implementation and execution.
3. **LAWWDA:** Peripheral areas of Dal Lake (areas along Dalgate – Harwan road; areas right of Dalgate – Rainawari road; areas on left and right of Saidakadal- Hazratbal Pandach road) have been taken up by LAWWDA under conservation plan.
4. **ERA:** Areas of Zone I and Zone II are being taken up under ADB funding. A feasibility report of the Sewerage Scheme has already been framed by ERA in this regard.

<b>Status of Sewage treatment plants in Srinagar</b>				
<i>Agency</i>	<i>STP site</i>	<i>Capacity</i>	<i>Present status</i>	<i>Areas of scope</i>
<b>UEED</b>	Brarinambal (Phase I)	17.04 MLD	Functioning	Areas around Brarinambal lagoon
	Phase II	7.00 MLD	Proposed	
<b>NBCC (JnNURM)</b>	Baghwanpora Noorbagh	60.00 MLD	Under execution by NBCC	Sectors I, II, III of Zone III.
	Lam Nishat	4.50 MLD	Functioning	Nishat, other areas along periphery of Dal lake
	Habbak	3.20 MLD	Functioning	Habbak, other adjoining areas
	Hazratbal	7.50 MLD	Functioning	Nagin, Hazratbal, Saderbal etc
<b>ERA</b>	Brarinambal	17.00 MLD	Under execution	Boulevard, Nowpora, Jogilankar, Ranawari etc
	Alluchibagh	105 MLD	Proposed	Areas of Zone I
	Parimpora (Phase - I)	25 MLD	proposed	Areas of Zone II

Out of the above projects, the physical verification of Bhagwanpora/Noorbagh STP being executed by NBCC under JnNURM was carried out. The brief details of the projects are:-

<b>Sewerage project Zone III under JnNURM (Salient features)</b>				
Approved project cost	Rs 132.92 crore			
Adopted water supply	135 lpcd			
Sewage load (2036)	60 MLD			
Design population (in lac)				
		<i>Base</i>	<i>Prospective</i>	<i>design</i>
	Year	2006	2021	2036
	Grater Srinagar	14.17	21.40	30.70
	Project Area (Sub Zones I, II, III)	2.77	6.30	7.35
	Project area	46.01 SqKm		
	Habituated area	21.00 SqKm		

- Project was physically started in June - 2008.
- Target date of completion = June 2010.

<b>Details of proposals (Physical &amp; Financial)</b>			
<i>Description</i>	<i>Physical scope</i>	<i>Approved cost Rs in lac</i>	<i>Achievements ending Nov. 2010</i>
Laying of trunk sewers, sub mains	42.95 Km	3424.22	(1954 M) 48.99%
Laying of lateral sewer lines	78.63 Km	3508.33	(63600 M) 62.29%
Laying of rider mains	14.80	763.48	Nil
Construction of STP at Noorbagh	60 MLD	2880.00	10%
House service connections including inspection chambers	48220 Nos	2328.70	Nil
Contingencies @ 3%		387.27	-
	Total	13292.00 lac	
		132.92 crore	

### **General Observations:**

#### **Structural Lacunae**

Multiplicities of agencies engaged in sewerage works especially laying of trunks and laterals in Srinagar invariably lead to the problem of coordination. There are always the problems of inter linkages among UEED, NBCC, LAWDA, SMC and R&B. Inter organizational and coordinative mechanism need to be promoted and used effectively.

#### **Flaws in Process Flow Mechanism**

It seems that the theoretical perfection of scheme- as is evident in the Sewerage Scheme Zone III of the Greater Srinagar taken up under JnNURM by NBCC- is regarded as the criterion for the soundness of the programme. There seems to be very less coordination and management even within the NBCC. The agency does not have a flow chart of

implementation steps and their way of implementation is far from connecting to the benefits of scheme.

### ***On spot observation***

a) Zone III Sewerage Scheme taken up by NBCC under JnNURM:

- The scheme which is targeted to connect the sewerage of 48000 houses approximately has a proposed Sewerage Treatment Plant (STP) at Noorbagh Srinagar with a capacity of 60 MLD under construction. Unfortunately no work has been carried out by NBCC for the last 10 months. The 10% constructed STP at is in pathetic condition, converted literally into a sludge. Even water pumps are not being used to dewater the under construction site for the sustainability of the construct. The NBCC employees present on site were ignorant about the further construction of the STP and were unable to communicate any plan for the completion of the project.
- No sign of construction was seen on the proposed site of pump station at Wagenpora which will feed the STP at Noorbagh. Even the trees on acquired land have not been cut.
- The Trunks and the Lateral sewer lines have been laid at random without any connection to pump station or for that matter to STP (as they are not constructed yet). Out of the 42.95 Km total trunk to be laid, 19.54 Km has been laid and 35 Kms of lateral has been laid out of the total 78.63 Kms.

### ***Recommendations***

- The NBCC should immediately start work on the construction of STP Noorbagh and simultaneously the pump station at Wagenpora. This should be done in next 3-4 months. Once the STP at Noorbagh and the pump station at Wagenpora will be constructed and the connection between them laid only then the benefit of this huge project can be seen on ground.
- Digging roads and streets for laying the trunks and the laterals without connecting them to the cycle of Sewerage is creating hurdles for the psychological receptivity of the project among the people. Therefore it is proposed that no further digging shall take place unless the NBCC will complete the construction of STP at Noorbagh and pump station at Wagenpora and connecting the two. Thereafter the different localities under Zone III can be connected in phased manner.

- Quite often the digging is done on the upgraded roads for laying laterals and trunks. This requires an immediate coordination. A mechanism for effective coordination and efficacy is immediately required. A committee under the chairmanship of Divisional Commissioner, Kashmir with District Development Commissioner, Srinagar and officials from R&B Department, ERA, SMC, NBCC, UEED is proposed which will take the review of the proper coordination of the Sewerage programme once every fortnight.



**STP at Noorbagh, Srinagar in dilapidated condition**



**Construction site of STP at Noorbagh, Srinagar**





**Water lodged construction site of STP at Noorbagh, Srinagar**



**STP at Noorbagh, Srinagar**



Laying of lateral sewer pipe line at Zoonimar Ali Jan road



Land acquired at Bhagwanpora for pump station