

**Revised format for submission of Monthly Progress Report in the NGT Matter  
OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) to  
National Mission for Clean Ganga (Ministry of Jal Shakti, GoI)**

**For the month of November, 2020**

**Jammu and Kashmir**

Overall status of the UT :

**I. Total Population :** Urban Population & Rural Population separately (*projected 2020*)

- a) Urban Population = **48.43** lac
- b) Rural Population = **101.57** lac

**II. Estimated Sewage Generation (MLD):**

- a) Urban @ 108 lpcd = **523** MLD
- b) Rural @ 44 lpcd= **447** MLD

**III. Details of Sewage Treatment Plant :**

- Existing no. of STPs and Treatment Capacity in (MLD): 15 Nos./139.40 MLD
- Capacity Utilization of existing STPs: **82.90 MLD**
- MLD of sewage being treated through Alternate technology: **0.52 MLD**
- Gap in Treatment Capacity in MLD: **383.08**
- No. of Operational STPs: 11 nos.
- No. of Complying STPs
- No. of Non-complying STPs:

(A) **Details of each existing STP in the UT of J&K (by HUDD/UEED)**

<b>Jammu</b>					
<b>No.</b>	<b>Location</b>	<b>Existing STP Capacity (MLD)</b>	<b>Capacity being utilized (MLD)</b>	<b>Operational status of STP</b>	<b>Remarks</b>
1	Bhagwati Nagar, Distt. Jammu	30	13+7=20	Operational	Polluted River Stretches (PRS)
2	Bhagwati Nagar, Distt. Jammu	27	07	Under testing and Commissioning	PRS
3	Bhagwati Nagar Distt. Jammu	10	Nil	Under Refurbishment	PRS
4	Jagti, Distt. Jammu	4	2	Operational	Other than PRS
5	Katra, Bhawan, Distt. Reasi. (SMVDSB)	3.2	2	Operational	Other than PRS
6	Katra Adhkwari (SMVDSB)	0.4			Other than PRS
	<b>Total (Jammu)</b>	<b>78.60 MLD</b>	<b>33.0 MLD</b>		
<b>Kashmir</b>					
<b>No.</b>	<b>Location</b>	<b>Existing STP Capacity (MLD)</b>	<b>Capacity being utilized (MLD)</b>	<b>Operational status of STP</b>	<b>Remarks</b>
<b>1</b>	Hazratbal, Distt. Srinagar	7.5	7	Operational	Other than PRS
<b>2</b>	Habak, Distt. Srinagar	3.2	3.2	Operational	Other than PRS
<b>3</b>	Nishat Laam, Distt.	4.5	4.5	Operational	Other than PRS

	Srinagar				
4	Barinambal (New), Distt. Srinagar	16.1	13.1	Operational	Other than PRS
5	Barinambal (Old), Distt. Srinagar	17.1	17.1	Operational	Other than PRS
6	Nallah Amir Khan, Distt. Srinagar	5.4	4	Operational	Other than PRS
7	Badami Bagh Cantt, Distt. Srinagar	5	–	–	Under the control of Badami bagh Cantonment Board
8	Pahalgam, Distt. Anantnag	2	1	Operational	Other than PRS
	<b>Total (Kashmir)</b>	<b>60.8 MLD</b>	<b>49.9 MLD</b>		
	<b>Total (In J&amp;K)</b>	<b>139.40 MLD</b>	<b>82.9 MLD</b>		

**(B) Details of under construction STPs in the UT of J&K (by HUDD/UEED)**

<b>Jammu</b>						
No.	Location	Capacity of the Plant in (MLD)	Physical Progress in %	Status of I&D or House sewer connections	Completion Time	Remarks
1	Belicharana Distt.Jammu	4	80%	<b>House sewer connections (In Nos.)</b> Target=4929 Achieved=Nil	6/2021	PRS Tawi
2	Baryal, Distt. Udhampur	8	<b>Work Started</b>	<b>House sewer connections (In Nos.)</b> Target=8972 Achieved=Nil	06/2021	PRS Devika
3	Omara, Distt. Udhampur	4	Not Started Yet	<b>House sewer connections (In Nos.)</b> Target=4422 Achieved=Nil	06/2021	PRS Devika
4	Pitan, Distt. Udhampur	1.6	Not Started Yet	<b>House sewer connections (In Nos.)</b> Target=1816 Achieved=Nil	06/2021	PRS Devika
5	Patnitop, Distt. Udhampur	1.2	80%	<b>House sewer connections For Hotels/Huts/House s. (In Nos.)</b> Target=100 Achieved=Nil	3/2021	Other than PRS
<b>Kashmir</b>						
No.	Location	Capacity of the Plant in (MLD)	Physical Progress in %	Status of I&D or House sewer connections	Completion Time	Remarks
1	Noor Bagh, Palpora	60	75%	<b>House sewer connections (In</b>	3/2021	Other than PRS

	Distt. Srinagar			<b>Nos.)</b> Target=16139 Achieved=5306		
2	Rajbagh, Srinagar	2.21	<b>Work Started</b>	Nil	3/2022	Other than PRS
3	Tengpora, Srinagar	6	<b>Work Started</b>	Nil	3/2022	Other than PRS
4	Charar-i-Sharief, Kashmir	2	Work allotted	<b>House sewer connections (In Nos.)</b> Target=3300 Achieved=Nil	3/2022	Other than PRS
5	Baramulla	3	<b>Work Started</b>	<b>House sewer connections (In Nos.)</b> Target=5550 Achieved=Nil	3/2022	Other than PRS

**(C) Details of Proposed STPs in the UT of J&K (Pertains to HUDD/UEED)**

<b>Jammu</b>					
<b>No.</b>	<b>Location</b>	<b>Capacity of the STP Proposed in (MLD)</b>	<b>Status of Project (at DPR Stage/Under Tendering/work to be Awarded %)</b>	<b>Likely Date of Completion</b>	<b>Remarks</b>
1	Peerkho Jammu (For I&D of right bank 13 nos. Nallahs Polluting Tawi)	10	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of <b>Rs. 41.84 Cr.</b> vetted by DCW.	2 years after sanction of Project	PRS Tawi
2	Katra Town	4.5	DPR submitted to Jal Shakti Dept,GoI amounting to <b>Rs. 100.34 Cr</b> vide Chief Engineer letter No.CE/UEED/CJ/TS/1018-27 dt.31/08/20.	2 years after sanction of Project	PRS Banganga
3	Katra Town	1.3		2 years after sanction of Project	PRS Banganga
4	Samba Town	3.5	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of <b>Rs. 70.60 Cr</b> vetted by DCW	2 years after sanction of Project	PRS Basanter
5	Akhnoor Town	5.0	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of <b>Rs. 123.21 Cr</b> vetted by DCW	2 years after sanction of Project	PRS Chenab
6	Kathua Town	19.1	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of <b>Rs. 265.23 Cr</b> vetted by DCW	3 years after sanction of Project	Other than PRS
7	Hiranagar Town	2.5+1.5=4	96 Cr(approx.)Proposed SBR Technology	2 years after sanction of Project	Other than PRS
8	Vijaypur Town	3+4=7	145 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS
9	Bari Brahmana	2.5+3.5=6	135 Cr(approx.) Proposed SBR	2 years after	Other

	Town		Technology	sanction of Project	than PRS
10	Arnia Town	2.5+1.5=4	94 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS
11	R.S.Pura Town	2.5+3.5=6	138 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS
12	Bishnah Town	2+2.5=4.5	98 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS
<b>Kashmir</b>					
No.	Location	Capacity of the STP Proposed in (MLD)	Status of Project (at DPR Stage/Under Tendering/work to be Awarded %)	Likely Date of Completion	Remarks
1	ChuntKol, Srinagar	5	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of Rs. <b>40.44 Cr</b> vetted by DCW	2 years after sanction of project	PRS Jehlum
2	Gawkadal, Srinagar	3	DPR is being submitted to Govt . of India, Ministry of Jal Shakti at an estimated cost of Rs. <b>26.22 Cr</b> vetted by DCW.	2 years after sanction of project	PRS Jehlum
3	Anantnag Town, Ph-II	<b>9.10</b>	<b>DPR Prepared under checking</b>	3 years after sanction of project	PRS Jehlum
4	Bijbehra, Town	3	DPR under preparation		PRS Jehlum
5	Awantipora	<b>1.6</b>			PRS Jehlum
6	Pampore	<b>2.7</b>			PRS Jehlum
7	Ganderbal	8	DPR submitted to Dev. Commissioner Works vide Chief Engineer letter No: CE/UEED/TS/379-82 dt: 12/11/2020	2 years after sanction of project	
8	Sonamarg	1	Tender floated proposed SBR technology	2 years after sanction of project	Other than PRS
9	Gulmarg	2.5	Proposed SBR technology	2 years after sanction of project	Other than PRS

#### IV. Details of Industrial Pollution:

- **No. of Industries in the UT of J&K =10300** (as on Oct 2020)
  - a) Jammu = **4746**
  - b) Kashmir = **5554**
  - Total = **10300**
- No. of water polluting industries in the **UT of J&K =450**

- a) Jammu = **180**
- b) Kashmir = **140**  
Total = **320**
- Quantity of effluent generated from the industries in MLD =**20**(app.)
  - a) Jammu = **10**MLD
  - b) Kashmir = **7**MLD  
Total = **17**MLD
- Number of industrial units having ETPs =**239**
  - a) Jammu = **174**
  - b) Kashmir = **64**  
Total = **238**
- Number and total capacity of ETPs (details of existing /under construction/proposed)
  - a) Jammu = **162** (Capacity of ETP is under verification and evaluation)
  - b) Kashmir = **132**  
Total=**294**
- Compliance status of the ETPs :
  - a) Jammu = **155**
  - b) Kashmir = **54**  
Total= **199**
- Number and total capacity of CETPs (details of existing/under construction/proposed) :
  - a) Jammu = 11 (1 existing, 9 under construction, 1 proposed)
  - b) Kashmir = 12 (1 functional, 1 under trial and 1 yet to complete and 9 proposed)  
Total = 23
- Status of compliance and operation of the CETPs :

No. of Industries	Industrial discharge	Status of ETPs		Status of CETPs		
		Functional	Without ETP	Existing	Under Construction	Proposed
<b>180</b> (Jammu)	<b>10</b> MLD	<b>174</b>	<b>6</b>	<b>1</b>	<b>2</b>	
		<b>65</b>	<b>143</b>	Ghatti, Ph-I = <b>0.45</b> MLD,	a) IGC Samba, P-I = <b>1.0</b> MLD b) IGC Samba, P-II= <b>1.0</b> MLD c) IGC Samba, P-II= <b>0.5</b> MLD d) IGC Samba, P-III= <b>0.5</b> MLD	
					a)B.B. Ph-I = <b>3*0.5</b> MLD b)B.B. Ph-I= <b>1.5</b> MLD, c)B.B. Ph-II= <b>1.5</b> MLD	a)EPIP Kartholi, B.B.= <b>0.5</b> MLD
<b>140</b> (Kashmir)	<b>7</b> MLD	<b>64</b>	<b>76</b>	IGC Lassipora = <b>0.6</b> MLD		a) Electronic Complex, Rangreth = <b>1</b> MLD b) Food Park, Doabgah, Sopore= <b>0.30</b> MLD c)Ind Estate, Shalteng = <b>0.30</b> d)Ind Estate, Khonmuh, Ph-

						l= <b>0.50</b> MLD e)Ind Estate, KhonmuhPh-II= <b>0.50</b> MLD f) IGC Pulwama, Location= <b>0.50</b> MLD, g)IGC, Pulwama, Location 4= <b>3x0.50</b> MLD
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## V. Solid Waste Management: (HUDD)

Points	Urban Local bodies Kashmir	Srinagar Municipal Corporation	Jammu Municipal Corporation.	Urban Local Bodies Jammu		
Total number of Urban Local Bodies and their Population	<b>40 ULBs</b> (10 Municipal Councils & 30 Municipal Committees) Total Population: <b>835049 Souls</b>	1. Srinagar Municipal Corporation. 2. Population: <b>11.92 lacs as per 2011 Census.</b>	Population: <b>696291 (2019)</b>	There are 36 ULBs in Jammu province with 392585 population as per 2011 Census.		
Current Municipal Solid Waste Generation	366 TPD (approx.)	<b>400-450 MTS</b> per day (total generation in the city)	470 TPD (approx.)	Around 245.32 Metric Ton Garbage generated daily in all 36 ULBs of Jammu Province		
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- i. Waste to Energy (Tonnage and Power Output), ii. Compost Plants (Windrow, Vermi, decentralized pit composting), iii. Biomethanation, MRF etc	0 <b>2 Plants (09 TPD Capacity)</b> <b>NIL</b>	SMC has issued LOI to a project developer for establishment of 5MW capacity Waste-to-Energy plant which shall be capable to deal/process 500+125 MTs/D. The plant is expected to be commissioned within 18 months after signing of tripartite agreement by the parties comprising JK PDD, J&K H&UDD and the Project Proponent. Presently, the SMC is segregating nearly 20% of total incoming waste at a Mechanical Segregator. The Organic fraction of the segregated waste is erected in windrows for converting it into compost.	MSW Processing facilities and installed capacity (TPD)	Utilization of existing MSM processing facilities (TPD)	Waste to Energy (Tonnage and Power Output)	Nil
			MRF 1: 30-40 TPD	20-30 TPD	Biomethanation	Compost plants (Windrow, Vermi, decentralized pit composting),

		A Material Recovery Facility (MRF) is operational at SMC's dumping site where 24 rag pickers are working and recovering the recyclable material.	MRF2 : 30-40 TPD	5-10 TPD	MRF (Material Recycle Facilities)	Facility available in MC Katra, MC Doda, MC Bhaderwah and MC Sunderbani,. Further Rag Pickers on their own segregate reusable garbage for recycling from garbage dumping sites in other MCs.
			Composting: 50 TPD	40 TPD		
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	A comprehensive proposal for decentralized waste to compost treatment plants for all ULBs has been formulated taking into consideration the population projection for the year 2025.	As in S.No. 3 above.	<p><b>a. Initiatives for waste to compost have been taken under which composting of leaves at Zanana Park, Digiana Park, and Rotary Bhawan Gandhi Nagar is in progress. The other parks are also being covered shortly. Moreover, for recycling of dry waste IPCA (EPRO) has been working in Jammu city and UNDP is constructing MRF at Bhandurath site. The objectives of this partnership are as under:-</b></p> <ul style="list-style-type: none"> <li>• To bring a sense of responsibility among the citizens for their waste management.</li> <li>• To bring about</li> </ul>		<p>The process of developing Solid Waste Management plants is underway and for that land has been transferred in favour of some of the Municipal Councils/ Committees. In respect of MCs at Doda, Bhaderwah and Sunderbani, the existing Plants would also be upgraded on the modern lines. Apart from this, in Municipal Council Udhampur, Kill to Waste plant using heat technology has been installed which takes care of 1.50 Ton of garbage daily.</p>	



			<p>behavioural change and awareness among the masses on issue of waste management, particularly zero littering, segregation and waste collection.</p> <ul style="list-style-type: none"> <li>• Put in appropriate efforts for plastic waste management in Jammu, which include collection of non-recyclable plastic waste and channelize plastic waste to waste processing facility (waste to energy) of JMC.</li> </ul> <p>b. As per action plan, JMC and UNDP has taken steps for plastic waste management in 10 identified wards (W. No. 45, 50, 51 , 52, 53, 55, 56, 57, 58 &amp; 68) of Jammu City. UNDP will also work with JMC as partner in collection segregation and transportation of plastic waste to recyclers. UNDP with JMC is also carrying out media campaigns.</p> <p>c. JMC has hired an agency for IEC activity in city regarding Plastic Waste Management Rules, 2016, Solid Waste management</p>	
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			<p>Rules 2016, C&amp;D waste management Rules, 2016 and BMW Rules, 2016 and other different activities for generating awareness in general public.</p> <p>d. JMC has started vermi compost unit at JMC Stray Cattle Pound Dogra hall in which dung of stray cattles is being converted into vermi compost and thereafter used in different JMC Parks. Till date about 30 MT compost has been used. JMC has also started sale outlet at Town Hall for general public.</p> <p>e. JMC has installed 06 cubic meter Bio-gas plant by using stray cow dung at JMC Cattle Pound at Dogra Hall.</p> <p>f. After awareness by JMC, 03 dairy unit owners have also installed 6 cum biogas units, are each at Buta Nagar, Shakti Nagar and Sanik Colony. These units are using biogas for cooking.</p> <p>g. JMC is collecting the fresh vegetable waste on daily basis from different vegetable Mandies within</p>	
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			<p>the city and feeding it to the stray animals at JMC Cattle Pound Dogra Hall and Municipal Animal Care Centre Roop Nagar.</p> <p>h. JMC is also collecting flowers from 25 temples and utilizing old waste flowers for compositing. Two Aggarbati manufacturing units using fresh flowers collected from temples have also been installed in association with Regional Indian Red Cross Society, Jammu with the help of Self-Help Groups. 700 kg flowers per day collected from different Temples are being used for compost and making aggarbattis. An outlet for Sale of agarbattis has been opened at Town Hall Complex, Jammu.</p> <p>i. JMC launches campaigns for plastic waste management and solid waste management at regular intervals with the help of SHGs, NGOs and schools. The themes of these campaigns are Plastic free rallies, cleaning of plastic waste</p>	
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			from roadsides and households by students/volunteers, educating masses about harmful effects of plastic made items & penalties etc. They are encouraged to desist from use of plastic made items to keep the city clean & to avoid penalties.	
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Proposal for establishment of C&D waste processing facilities at two identified ULBs have been taken up with Building Centre Srinagar.	The SMC is contemplating to set up <b>100 TPD capacity</b> C&D Waste Processing Plant in Saidapora, Achan. The DPR is under process.	One collection centre at Bhagwati Nagar site.	The MCs at their level dispose of C&D Waste for land filling wherever required.
Total no. of wards,  No. of wards having door to door collection service,  No. of wards practicing segregation at source	<b>529</b>  <b>427</b>  <b>22</b>	The average door to door waste collection in all 35 Municipal Administrative Wards as on date is <b>82%</b> . <b>10-15%</b> segregated waste is collected from 6 Municipal wards as on date.	<b>75 wards</b> <b>75(100%)</b>  <b>30-40% in all wards</b>	<b>446</b>  <b>326</b>  <b>94</b> The MCs through various IEC activities educate people about the importance of segregating waste at source. The respective MCs have distributed separate bins for garbage collection at source so that segregated garbage is available for proper disposal.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Six SWM facilities for 22 ULBs of Kashmir Division have been approved on cluster basis having total	1. Letter of Intent for establishment of 5MW capacity Waste-to-Energy plant capable to	<b>2 MSW treatment facilities proposed with 450 TPD capacities, technology used Aerobic Composting, Biogas</b>	<b>The Revised Action Plan for Decentralized SWM in all the 76 ULBs of J&amp;K U.T. have been</b>

	<p>capacity of 380 TPD at a project cost of Rs.144.20 Crores and technology proposed is Composting. RFPs have been floated on number of times. Meanwhile a comprehensive proposal for decentralized waste to compost treatment plants for all ULBs have been formulated taking into consideration the population projection for the year 2025.</p>	<p>deal 500+/- 125 MT/D already issued. The plant is based on Gasification Technology. The SMC has already handed over land measuring 10 acres to the project developer who has undertaken civil works at site</p> <ol style="list-style-type: none"> <li>2. Construction of landfill cell No. IV at dumping site Achan, Srinagar stands already tendered. Bids received, Technical and financial evaluation of bids already done.</li> <li>3. Bioremediation/bio-mining of legacy waste tendered. Bids received and technical/financial evaluation already done. Proposal for AA is being submitted to H&amp;UDD shortly. Proposal under examination in H&amp;UDD</li> <li>4. A 100 TPD Capacity C&amp;D waste processing plant to be set up at Achan. DPR under preparation.</li> </ol>	<p><b>and MRF Centres.</b></p>	<p><b>formulated at an estimated cost of Rs. 284.00 Cr. The DPR has been submitted to IIT Jammu for technical vetting.</b></p>
<p>No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.</p>	<p>Information is being compiled and will be sent shortly</p>	<p>The area of waste processing facility of SMC is spread over an area of 113 acres situated at Saidapora, Achan. Three landfill cells have already been</p>	<p>Uncontrolled Garbage Dumpsites:- 2 (Bhagwati nagar and Kothbalwal), spread over is 32 acres and</p>	<p>Approx. 85.75 acres of land is being utilized in various ULBs as Garbage Dumpsites and Sanitary Landfills.</p>

		constructed. Cell Nos. 1&3 already closed and capped. Cell No. 2 is presently in operation.	19.5 acres respectively. Sanitary Landfills: Nil	
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	08	None	Legacy waste site: 01 (Remediation started) Area of legacy waste: 32 acres.	NIL
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	Information is being compiled and will be sent shortly	SMC has constructed 120 Trash Guards alongside the water channels from Khojyarbal to Nowpora to arrest the waste from entering the water channel and has put 6 Boatmen-cum-Safaiwalas on job to collect waste from these Trash Guards on daily basis.	No. of drains falling into rivers: 26 No. of drains installed screens: 0	NIL

### Status of ULB wise Management of Solid Waste

	ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
<b>Urban Local bodies Kashmir</b>	<b>40</b>	<b>366</b>	<b>9</b>	<b>2</b> <b>(Two Waste to compost plants at Pahalgam and Tangmarg ULB)</b>	<b>9 TDP</b>	<b>A comprehensive proposal for decentralized waste to compost treatment plants for all ULBs have been formulated taking into consideration the Population projection for the year 2025.</b>
<b>Srinagar Municipal</b>		<b>400-450 TPD</b>	<b>80-90 TPD</b>	<b>1. Mechanical Segregator;</b>	<b>30 TPH capacity Mechanical Segregator.</b>	1. Waste to Energy Plant shall be commissioned within 18 months after

<b>Corporation</b>				<b>2. Land filling.</b>	<b>80% land filling in land fill Cell No. 2.</b>	<p>signing of Power purchase agreement among the parties;</p> <p>2. Bioremediation of the existing landfill cells shall be taken up immediately after administrative approval is accorded to the proposal.</p> <p>3. The Construction of landfill cell No. IV shall be taken up for execution after accord of Adm. Approval.</p>
<b>Urban Local Bodies Jammu</b>	36	<b>245.32 TPD</b>	-	-	-	-
<b>Jammu Municipal Corporation.</b>		<b>470 TPD (approx)</b>	<b>80 TPD (approx)</b>	<b>03</b>	<b>60-70%</b>	2 (125 TPD SWM and 270 TPD approx..) probably work will be started in <b>March, 2021.</b>

## **VI. Bio-medical Waste Management:**

- Total Bio-medical generation:
  - a) Jammu = **1094.52** Kg/day as per Annual Report 2019
  - b) Kashmir = **4808.1** Kg/day as per Annual Report 2019
  - Total = **5902.62** Kg / day

### **Covid-19 Bio-medical waste for the month of Nov. 2020 :**

- a) Jammu = **33544.65** Kg/Month
  - b) Kashmir = **11787.07** Kg/Month
  - Total = **45331.72** Kg/Month
- **No. of Hospitals and Health Care Facilities:**
  - a) Jammu = **3641**
  - b) Kashmir = **2965**
- **Status of Treatment Facility/ CBMWTF: 3 Operational Facilities** with PCDs. OCEMS installed in two facility
  - a) M/s Anmol Health care, Jammu
  - b) M/s Kashmir Health Care System, Kashmir).
  - c) Clean City Waste Management, Kashmir (OCEMS not installed)

## **VII. Hazardous Waste Management:**

- Total Hazardous Waste generation:
  - a) Jammu = **981.026** MT / Annum
  - b) Kashmir = **231.50** MT/Annum
  - Total= **1212.526** MT / Annum
- No. of Industries generating Hazardous waste :
  - a) Jammu = **227**
  - b) Kashmir = **11**
  - Total = **238**
- Treatment Capacity of all TSDFs :
  - TSDF under construction at IGC Samba
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:
  - Hazardous waste is disposed off through TSDFs located outside from J&K, authorized by J&K PCB viz a) M/s Bharat Oil and Waste Management Ltd, Kanpur Dehat (UP) b) M/s BEIL Infrastructure Ltd, Ankleshwar, Gujarat.



- Details of on-going or proposed TSDF: The TSDF facility is under construction in IGC Samba by M/s Ramasethu Infrastructure Pvt Ltd, to be completed by December 2020 tentatively.

### **VIII. Plastic Waste Management:**

- Total Annual Plastic Waste generation in J&K = **74826** MT/Annum (app.), with monthly average of **6200** MT (app.)
- Seizure done (April to Nov. 2020)
 

a) Polythene =	11746.55 kg
b) Seizure =	1173.65 kg
Total =	<b>12920.20 kg.</b>
- Treatment/ Measures adopted for reduction or management of plastic waste:
  - a) Regular seizure of illegal polythene and banned SUP by Anti-Polythene Squad
  - b) Using seized polythene in overlaying of roads.
  - c) Using seized polythene in cement kilns along with conventional fuels.
  - d) SMC has set up at landfill site at Achan where more than 24 rag pickers are segregating plastic waste from Municipal Solid Waste. From November 2018 to Oct. 2020, the rag pickers have collected 320 MTs of Plastic waste at Landfill site Achan.
  - e) 12 Cement factories operating within the radius of 100 Kms from dumping site Achan, Srinagar have been issued with notices to lift the RDF including plastic/polythene for its utilization in their combustion kilns. During the current year, one cement manufacturer, namely, Trambo Cement Industries Pvt. Ltd., has lifted 5885 kgs of RDF from SMCs dumping site. Another cement manufacturer, namely, Khyber industries Pvt. Ltd., has recently requisitioned for supply of one truck load of RDF.
  - f) JMC is creating awareness among all stakeholders about their responsibilities. IEC agency has been hired for generating awareness among citizens for segregating waste at source level and to avoid single use plastic, disposable plastic.
  - g) 2 number of MRF has been setup in Jammu city and integrated with informal waste pickers working in the city limit, 2 more MRF are under planed to be setup for dry waste generated in the city ensures channelization of recyclable plastic waste fraction to recyclers after processing through MRF centers..

**IX. Details of Alternate Treatment Technology being adopted by the State/UT :**

**Septage Treatment Plants** commissioned as Alternate Treatment Technology:

**i) In Jammu**

1. 164 KLD at Bhagwati Nagar Jammu.

**ii) In Kashmir**

1. 62 KLD at Anantnag
2. 164 KLD at AlluchiBagh
3. 130 KLD at Achan

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:-

**Identification of Pollution Sources in Nine (09) Polluted Rivers in UT of Jammu and Kashmir, as per Approved Action Plan:-**

S. No.	Polluted River Stretch	Source of Pollution	Drains	Drain Flow (MLD) as per UEED data	Action
1.	<b>River Devak Udampur</b>	a) Un-treated sewage pollution from Municipal drains b) Unabated disposal of Municipal Solid Waste.	No. of drains = <b>13</b> i) Housing Colony ii) MH to Devika iii) MH Chowk iv) Shiva Nagar near SSP office v) Meat Market vi) Model School vii) Near Bharti Vidya Mandir viii) Raghunath Mandir ix) Chabbutra Bazar x) Opp. Arya Samaj Mandir xi) Opp. Geeta Bhawan xii) Near Dak Bungalow xiii) Link Road to Devika	<b>(8.69 MLD)</b> 1.18 0.71 0.12 0.84 1.6 0.94 1.52 0.07 0.19 0.87 0.23 0.31 0.11	<b>A) (The Project is approved under NRCP funding for Rs.186.74 Cr.</b>  i) Work of 1 No. STP at Zone-1 (8 MLD )started. <b>ii)</b> Design for 2 Nos. STP (4 MLD at Zone-2 1.61 MLD at Zone-3) under final vetting process from MNIT Jaipur. iii) 25% of work on sewerage network completed

2.	<b>Banganga , Holy Stream, Katra</b>	a) Untreated Solid and Liquid waste disposal from pony sheds. b) Un-treated sewage from nearby localities/establishments. c) Unabated disposal of Municipal Solid Waste. d) Sewage pollution from minor/major establishments.	No. of drains = <b>7</b> From Balani Bridge to GeetaMandir:- i)Nallah 1 ii)Nallah 2 iii) Nallah 3 iv) Nallah 4 v) Nallah 5 vi) Nallah 6 vii) Nallah 7	<b>(3.5 MLD)</b>     0.268 0.361 0.179 0.277 0.722 1.256 0.437	i) DPR for Pollution Abatement of River Banganga at Katra Town submitted to Jal Shakti Dept, GoI Amounting to Rs. 100.34 Cr vide Chief Engineer letter no. CE/UEED/CJ/TS/1018-27 dt.31/08/20. Land acquisition for construction of 2 No. STP's and 4 Nos IPS under process
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3.	<b>River Tawi , Jammu</b>	a) Disposal of Untreated Sewage Waste from Jammu city. b) Unabated Disposal of Municipal Solid Waste. c) Dumping of Construction and Demolition Waste. d) Pollution from minor/major establishments.	No. of drains = <b>26</b> <b>RHS (D/S Tawi)</b> i)Doonthly Nallah ii) Jullaha Mohalla iii) Peerkho 1 iv) Peerkho main v) Gujjar Nagar 7 vi)Gujjar Nagar 6 vii)Gujjar Nagar 5 viii)Gujjar Nagar 4 ix)Gujjar Nagar 3 x)Gujjar Nagar 2 xi)Gujjar Nagar 1 xii)Gujjar Nagar main xiii)Jogi Gate xiv)Prem Nagar xv)Christian Colony Nallah xvi)Qasim Nagar xvii)Rehar iNallah xviii)Krishna Nagar Nallah xix)Rajinder Nagar xx)Bhagwati Nagar <b>LHS (D/S Tawi)</b> i)Gorkha Nagar ii)Rajiv Nagar iii)University Campus Nallah iv)Refugee Basti v) BikramChowk vi)Ware house	<b>(66.36MLD)</b> RHS (D/S Tawi) 1.10 2.62 0.03 10.73 0.13 0.14 0.10 0.10 0.07 0.10 0.08 0.69 11.32 11.83 6.71 0.15 4.71 5.48 1.475 1.76 LHS (D/S Tawi) 2.30 0.25 0.39 0.03 0.07 1.00	Construction of 4 MLD STP at Belicharana based on SBR technology is under execution and the civil structures in this sub project are 80% complete and Machinery & Equipment- Procurement 90% and installation work 90% completed. b) DPR for Pollution abatement of river Tawi (right bank) at Jammu city (J&K) submitted to Govt (HUDD) vide Chief Engineer letter no. CE/UEED/CJ/TS/1131-36 dt.07/09/2020. Amount 43.50 Cr. c) Land acquisition for construction of 1 No. STP of capacity 10MLD at Peerkho under process.
4.	<b>River Basanter, Samba</b>	a) Disposal of Untreated Sewage Waste from Samba Town and nearby localities. b) Effluents from industries in IGC-Samba. c) Unabated Disposal of Municipal Solid Waste. d) Dumping of	No. of drains = <b>2</b> i)MandiFlouraNallah ii) ArgiNallah	<b>(3.5 MLD)</b> 2.5 1.0	i) DPR submitted to Govt (HUDD) vide Chief Engineer letter no. CE/UEED/CJ/TS/1131-36 dt.07/09/2020. Amount 74.93 Cr. ii) Land acquired for construction of STP. iii) Land Acquisition for 2Nos. IPS under process. iv) Tender process initiated

		Construction and Demolition Waste.			
5.	<b>River Chenab at Akhnoor</b>	a) Disposal of Untreated Sewage Waste into River Chenab. b) Unabated Disposal of Municipal Solid Waste. c) Un-authorized dumping of Construction and Demolition Waste.	No. of drains = <b>3</b> i)Baba JittoNallah ii)Near Gurdwara iii)W. No. 10 Nallah	<b>(3.0 MLD)</b> 0.918 1.325 0.758	i) DPR submitted to Govt (HUDD) vide Chief Engineer letter no. CE/UEED/CJ/TS/1131-36 dt.07/09/2020. Amount 131.57 Cr. Land Acquisition for 1No.STP of capacity 5 MLD and 7 Nos IPS are under process
6.	<b>River Chuntkol ( A tributary of Jhelum)</b>	a) Discharge of untreated sewage into the river. b) Dumping of Solid Waste.	No. of dewatering pumps = <b>07</b>	<b>(5 MLD)</b> -	<b>DPR for an amount of Rs.41.58 Cr. has been Submitted to Administrative Department for Accord AA &amp; necessary authorization on 04/09/2020</b>
7.	<b>River Gawkadal ( A tributary of Jhelum)</b>	a) Discharge of un-treated Sewage into the river. b) Dumping of Solid Waste.	A part of polluted river stretch of river Jehlum (Anantnag to Chhatabal)	<b>(3.0 MLD)</b> -	<b>DPR for an amount of Rs.26.48 Cr. has been Submitted to Administrative Department for Accord AA &amp; necessary authorization on 04/09/2020</b>
8.	<b>River Jhelum at Srinagar (Anantnag to Chhatabal Weir)</b>	a) Discharge of un-treated Sewage into the river. b) Dumping of Solid Waste.	No. of drains = <b>62</b> + No. of Dewatering pumps = <b>14</b>	<b>(111.4 MLD)</b> -	DPR prepared and under checking
9.	<b>River Sindh at Ganderbal, Srinagar</b>	a) Discharge of un-treated sewage . b) Un-authorized dumping of Municipal Solid Waste.	No. of drains = <b>13</b>	<b>(7.6 MLD)</b> -	<b>DPR for an amount of Rs 105.02Cr.</b> submitted to Administrative Department for Accord AA & necessary authorization vide Chief Engineer JKUEED No: CE/UEED/TS/379-82 dated 12/11/2020

**XI.** Details of Nodal Officer appointed by Chief Secretary in the State/UT:  
Sh. Waseem Farooq Mir, SFS, posted in Chief Secretary's Office, J&K as Nodal Officer for the purpose, vide Govt. Order No. 123-JK(GAD) of 2020 dated 22.01.2020.

**XII.** Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

Following meetings held by the Chief Secretary till date:

19.11.2020: Illegal sand mining and status of environmental clearances pertaining to mining leases under various categories.

27.11.2020: Illegal sand mining and status of environmental clearances pertaining to mining leases under various categories.

03.12.2020: Restoration, identification and protection of water bodies in OA 325/2015 titled Lt. Col. Sarvadaman Singh Oberoi vs Union of India & ors.

07.12.2020: Illegal sand mining and status of environmental clearances pertaining to mining leases under various categories.

**XIII.** Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river: -

**No. of Polluted River Stretches in Jammu and Kashmir = 09**

a) **No. of Polluted River Stretches in Jammu = 05**

b) **No. of Polluted River Stretches in Srinagar = 04**

**Water Quality Status of Polluted Rivers(09) during the month of November-2020**

S. No.	Polluted River Stretch	Water Quality Analysis, November 2020							Ground Water Quality in the catchment area
		NWMP Monitoring Sites with Sanctioned Station Code	BOD	COD	pH	Hardness	Alkalinity		
1	River Devak Udhampur	a) Near Shiv Mandir (Stn code:2754)	3.3	14.1	7.65	190	200	NA	
		b) About 2Km (D/S) Shiv Mandir (Stn.code:4062)	0.7	3.2	8.40	200	212		
		c) About 10Km (D/S)	0.4	3.0	8.36	212	216		

			Shiv Mandir (Stn.code:4063)						
2	Banganga , Holy Stream, Katra		NWMP Monitoring Sites	BOD	COD	pH	Hardnes s	Alkali nity	NA
			a) Bathing Ghat (Stn.2755)	1.3	8.4	8.60	200	220	
			b) In front of pony shed (Stn.code2756)	1.7	7.9	8.56	170	180	
3	River Tawi , Jammu		NWMP Monitoring Sites	BOD	COD	pH	Hardnes s	Alkali nity	NA
			November -2020 Station Code:-	2.1	32	8.40	196	212	
			i)Below Tawi Bridge-2744,	5.1	32	8.42	260	300	
			ii)Bhagwati Nagar-2745	0.6	3.1	8.40	170	196	
			iii)Beli Charana-2746, iv)Surajpur-2747	0.6	3.4	8.50	166	196	
			v)Bhagwatinagar 1 Km,D/S below STP discharge point at Bhagwati Nagar-4055	3.2	16	8.60	340	304	
4	River Basanter, Samba		NWMP Monitoring Site / Sanctioned Station Code	BOD	COD	pH	Hardnes s	Alkalinit y	NA
			a) Chak Manga Gujjar samba (2753)	1.5	8.1	8.20	152	176	
5	River Chenab at Akhnoor		NWMP Monitoring Sites / Sanctioned Station Code	BOD	COD	pH	Hardnes s	Alkalinit y	NA
			At Jio-Pota Mandir (2751)	Sampling is being done on Bi-monthly basis.					
6	River Chuntkol ( A tributary of Jhelum)		NWMP Monitoring Sites/ Station Code	BOD	COD	pH	DO	NA	
			a) NWMP sanctioned location(1307)	9.3	80.60	7.10	0.8		
7	River Gawkadal (A tributary of Jhelum)		NWMP sanctioned sites	BOD	COD	pH	DO	NA	
			Sanctioned location (1306)	4.6	40.30	7.39	5.9		
8	River Jhelum at Srinagar (Anantnag to Chhatabal Weir)		NWMP/PCB Monitoring Sites with Sanctioned Station Code	BOD	COD	pH	DO	NA	
			at:- i) Anantnag (1304)	1.5	23.6	7.72	8.0		
			ii) Batingon, (PCB Site)	2.0	25.45	7.70	7.1		
			iii) Bijbehara (4053)	2.0	21.81	7.50	6.3		
			iv)Sangam U/S (3273)	2.0	25.45	7.59	7.5		
			v) SangamD/S, (PCB Site)	2.0	27.29	7.61	7.4		
			vi) Awantipora (3274)	1.8	18.18	7.65	8.0		
			vii) Pampore (3275)	1.6	23.62	7.58	6.8		
			viii) Panthachowk (4054)	2.0	25.45	7.62	7.4		
			ix) Pandarathan (PCB Site)	1.9	23.62	7.65	6.9		
			x) Zero Bridge (1410)	2.0	21.81	7.13	8.0		
xi) Chattabal Weir (1411)	2.3	24.10	7.22	5.3					
9	River Sindh at Ganderbal ,Srinagar		NWMP monitoring sites	BOD	COD	pH	DO	NA	
			a)Sanctioned location(3286)	1.8	19.9	7.51	8.3		

**XIV. Ground water regulation:** The regulation of ground water is mandated to the J&K Water Resources Regulatory Authority under the J&K Water Resource Regulation and Management Act, 2010. The Authority while approving new schemes or monitoring existing schemes has the power to bar or cancel

exploitation, if it feels that ground water replenishment of the aquifers does not commensurate with the exploitation.

**XV. Good irrigation practices being adopted by the State:** For providing better irrigation facilities to the beneficiaries, various irrigation schemes are under execution with the objective of increasing the irrigation potential and its effective utilization. At present, 400 schemes are approved in the UT under PMKSY-AIBP out of which 153 have already been completed and 144 are targeted for completion during current financial year. • The focus in these interventions is to prevent losses and provide stable irrigation conveyance system. Lift irrigation system where gravity water is not available or not feasible are also constructed for providing assures irrigation facilities. Further Community participation is also ensured for best/optimum utilization of available water to all beneficiaries.

**XVI. Rain Water Harvesting:**

- For conservation of rain water and its utilization, construction of storage tanks has been taken. These Storage tanks also store rain water besides tapping the runoff from the streams for subsequent use of augmenting the existing irrigation facilities in the area.
- 170 No. Storage tanks have so far been constructed in Kupwara/Handwara and Budgam which arrest and store the surface run off during excessive precipitation. These storage tanks have served as an excellent source of irrigation in these chronically water deficit areas. 21
- In Jammu Province, ground water recharge is being done in summer by ponding waters of various rivers/Nallahs.
- A provision for rain water harvesting is being incorporated in building permissions issued by Srinagar Municipal Corporation in accordance with the order No. 269 of 2020 dated 11/2/2020.

**XVII. Demarcation of Floodplain and removal of illegal encroachments**

- The draft proposal has been forwarded to State Water Regulatory Authority (SWRRA) for notification of flood plains of river Jhelum. Besides, under World Bank funded Jammu Tawi Flood Recovery Project (JTFRP), the verification of flood plains is being studied through international consultancy M/S Eptisa Ltd. This study will confirm the flood plains as well as inundation depths.
- In respect of Tawi River Basin, JTFRP funded by the World Bank has hired the Joint Venture of AQUALOGUS & OIL TECH (Consultancy) for preparation of



Feasibility and Detailed Project Report for Flood Mitigation and Comprehensive River Management measures in Tawi Basin. The I&FC deptt. is sharing all the data required by JTFRP for preparation of report on river Tawi.

- Marking of co-ordinates of Flood plains of Tawi River is in progress and marking of about 22 kms on both bank of Nikki Tawi completed.
- Regarding determination of Limits of Flood Basin and conducting of Mathematical Studies of River Chenab, the job has been assigned to Central Water and Power Research Station (CWRS), Pune.
- Further regarding the major Nallahs in the Jammu Province. Central Water and Power Research Station (CWPRS) has ensured to carry the study for the same also.
- Removal of encroachments is a continuous process carried by the Jal Shakti (I&FC) Department.

**XVIII. Maintaining minimum e-flow of river:**

- The Jal Shakti Department has a regulating structure on river Jhelum at Srinagar known as Chattabal Weir to ensure navigation during lean season 22 in the upstream besides ensuring the eco-flow on upstream without affecting the conditions in the downstream.
- The Jal Shakti Department shall further take consultation of Central Water Commission in order to regulate minimum e-flow wherever storage schemes on rivers are planned

**XIX. Plantation activities along the rivers:**

S.No.	Polluted River Stretch	Area under treatment	Plantation done
1)	<b>River Devak Udampur</b>	100 hectare	Catchment Area Treatment approved under CAMPA, plantation to be taken up during the current year, soil conservation works completed
2)	<b>Banganga , Holy Stream, Katra</b>	100 hectare	Catchment Area treated with afforestation and soil conservation works in 100 hectares of area under CAMPA
3)	<b>River Tawi , Jammu</b>	200 hectare	Catchment Area Treatment done by plantation of 0.34lac trees treating 200 hectare for the Polluted River Stretch.

4)	<b>River Basanter, Samba</b>	100 hectare	Catchment Area Treatment done by plantation of <b>0.032</b> lac trees and soil conservation works for the Polluted River Stretch
5)	<b>River Chenab at Akhnoor</b>	200 hectare	Catchment Area Treatment done by plantation of <b>0.40</b> lac trees treating 200 hectare with soil conservation works for the Polluted River Stretch
6)	<b>River Chuntkol (A tributary of Jhelum)</b>	A part of river Jhelum Catchment Area Treatment proposal	Catchment Area Treatment approved under CAMPA, shall be taken up during the current year
7)	<b>River Gawkadal (A tributary of Jhelum)</b>	A part of river Jhelum Catchment Area Treatment proposal	Catchment Area Treatment approved under CAMPA, shall be taken up during the current year
8)	<b>River Jhelum at Srinagar (Anantnag to Chhatabal Weir)</b>	300 hectare	Catchment Area Treatment done by plantation, treating 15 hectare area for the Polluted River Stretch, along with soil conservation works.
9)	<b>River Sindh at Ganderbal, Srinagar</b>	100 hectare	Catchment Area Treatment in 100 hectare approved under CAMPA, to be taken up during the current year, soil conservation works completed

**XX.** Development of biodiversity park: Jammu Development Authority has developed a park in 5.6 hectare at the bank of river Tawi area of polluted river stretch recently.

**XXI.** Reuse of Treated Water:

- a. Proposed in Katra DPR under reuse of Treated Water through Pumping Plant with Rising Main to Railway Station Katra for cleaning and washing purpose.
- b. Proposed in Udhampur under reuse of Treated Water from
  1. STP-1 site to Air Force station Udhampur for Horticulture purpose.
  2. STP-2 site to Army Unit for cleaning and washing purpose.
  3. STP-3 site to 5071, 5171 AC Battalion and 874 Alfa Unit for cleaning and washing purpose.

**XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:**

S.No	Location/ River	Priority	Capacity of STP proposed in MLD	Status of Project (at DPR stage/under tendering/work to be awarded)	Likely date OF completion	Remarks
1.	River Devika (Udhampur)	(i)	Zone 1, 8.0MLD Zone 2, 4.0MLD Zone3, 1.6MLD Total = (13.6MLD)	Project Cost 186.74Cr (ii) approved under NRCP on 28-09-2018 (ii) Work allotted Date of start =May 2019 D.O.C (original)=may 2021	Dec. 2021	Work of sewer laying, STP Zone 1st & Ghat are in progress
2.	River Banganga (Katra Town)	(ii)	STPs =4.5MLD = 1.30MLD Total = (5.8MLD)	(i) DPR submitted to JAL SHAKTI Deptt. GOI amounting to Rs 100.34Cr vide Chief Engineer UEED No:- CE/UEED/CJ/TS/101 8-27 Dated:-31-08- 2020 (ii) DPR forward to IIT Roorkee for technical vetting	2 years after sanction of the project	Technical vetting under process
3.	Tawi River (Jammu) Interception and diversion of Right bank 13 No Nallahs Polluting Tawi River	(iii)	STP =10MLD	DPR submitted to DCW for Technical Vetting.	2 years after sanction of the project	Technical vetting under process
4.	Jehlum River	(iv)	STP Anantnag Town=9.10 (Ph-II) Bijbehera Town = 3.0 Awantipora = 1.6 MLD Pampore 2.7 MLD	DPR under preparation	3 years after sanction of the project	

**XXIII.** Status of Preparation of Action Plan by the 13 Coastal States: NA

**XXIV.** Regulation of Mining Activities in the State/UT:

Regulation of Mining Activities is done by the Mining Department as per the provision of GOI in this regard. Mining activities is permitted only after following due procedure involving approval of mining plan by District Level Committee, appraisal by the JK Environment Appraisal Committee, public hearing by the PCB, Issuance of Environmental clearance by the JK Environment Impact Assessment Authority (JKEIAA) and finally consent to operate by the PCB.

**XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

- Environmental Compensation levied to Municipal Council Udhampur dt. 20/11/19 by JK PCB.
- Environmental Compensation levied to Municipal Committee Ramban dt. 8/7/20 by JK PCB.
- Environmental Compensation levied to Hotel Meridian Katra dt. 2/11/20 by JK PCB.
- In case of any defaulter/violator who encroaches, compromises the safety of any embankment or water body or any irrigation infrastructure or canal, or carries out illegal river bed material extraction, the Jal Shakti Department under the Water Resources Regulation and Management Act 2010 is mandated to take action as warranted under various sections like Section 66 (1,2), Section 67(1,2), Section 72 (1,2,3,4), Section 73, Section 81, Section 83(1,2,3,4), Section 84, Section 86 (a,b) and Section 87 (1,2,3,).
- The Jal Shakti Department has a robust mechanism under the Civil Services Conduct Rules, 1971 etc.to take action against officers, if any found responsible for violation.

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