Government of Jammu & Kashmir
Forest, Ecology & Environment Department
Civil Secretariat,
J&K, Jammu.

***

Executive Director (Technical),
National Mission for Clean Ganga,
Department of Water Resources,
River Development & Ganga Rejuvenation,
Ministry of Jal Shakti, Shram Shakti Bhavan,
New Delhi.

No:FST/Lit/135/2018-I Dated: 20.07.2021

Subject: Monthly Progress Report by States/UTs, pursuant to the Hon'ble NGT order dated 24.09.2020 passed in O.A. No.673/2018.

Sir,

I am directed to enclose herewith copy of Monthly Progress Report (as per revised format) in compliance to the Hon'ble NGT order dated 24.09.2010 in respect of J&K UT for the month of June, 2021 for favour of information and further necessary action.

Yours faithfully,

(Vivek Phonsa) JKAS
Deputy Secretary to Government

Copy to the:-

1. Member Secretary, Central Pollution Control Board, New Delhi alongwith copy of Monthly Progress Report in respect of J&K UT for the month of June, 2021.
2. Pvt. Secretary to Commissioner/Secretary to Government, FE&E Department for information of the Commissioner/Secretary.

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)

For the month of June-2021
Union Territory of Jammu and Kashmir

I	**Total Population** : Urban Population & Rural Population separately (***projected 2020***)	• Urban Population = **48.43** lac • Rural Population = **101.57** lac
II	**Estimated Sewage Generation** (MLD)	• Urban @ 108 lpcd= **523** MLD • Rural @ 44 lpcd= **447** MLD
III	**Details of Sewage Treatment Plants:** • Existing no. of STPs and Treatment Capacity in (MLD)	15 (139.40 MLD)
	• Capacity Utilization of existing STPs	82.90
	• MLD of sewage being treated through Alternate technology:	0.52 MLD
	• Gap in Treatment Capacity in MLD	46.50 MLD
	• No. of Operational STPs	11
	• No. of Complying STPs	12 (Status of 3 STPs of Katra & Badami Bagh Cantonment not known)
	• No. of Non-complying STPs	Data not available Note: Details of existing , under construction and proposed STPs given in **Annexure-I.**
IV	**Details of Industrial Pollution:-** • No. of Industries in the UT of J&K	10300
	• No. of Water Polluting Industries in the UT ofJ&K	238
	• Quantity of Effluent generated from the Industries inMLD	21.24
	• Number of Industrial units having functional ETPs	234
	• Compliance Status of the ETPs	213
	• Number and total capacity of Existing CETPs	21
	Status of compliance and operation of the CETPs	
	No. of Industries	252
	Industrial discharge	14 MLD
	Status of ETPs	Functional: 216 MLD Without ETP: 38 MLD

Status of CETPs

Existing	Under Construction	Proposed
2	**9**	10
Ghatti,Ph-I = **0.45** MLD	a) IGC Samba, P-I = **1.0** MLD b) IGC Samba, P-II= **1.0** MLD c) IGC Samba, P-II= **0.5** MLD d) IGC Samba, P-III= **0.5** MLD	
	a)B.B. Ph-I = **3*0.5** MLD b)B.B. Ph-I=**1.5** MLD c)B.B. Ph-II=**1.5** MLD	a) EPIP Kartholi, B.B.=**0.5** MLD.
IGC Lassipora **=0.6**MLD		**a)** Electronic Complex, Rangreth **= 1**MLD **b)** Food Park, Doabgah, Sopore =**0.30 MLD** **c)**Ind Estate, Shalteng = **0.30** **d)**Ind Estate, Khonmuh, Ph-I =**0.50** MLD **e)**Ind Estate, Khonmuh Ph-II= **0.50** MLD **f)**IGC Pulwama, Location=**0.50** MLD, **g)**IGC, Pulwama, Location 4=**3**x**0.50** MLD

Total number of Urban and Local Bodies and their Population	76 ULBs & 2 Municipal Corporations. ULB-Kashmir: 835049 ULB- Jammu: 392585 Srinagar MC: 11.92 Lacs Jammu MC: 696291
• Current Municipal Solid Waste Generation	ULB-Kashmir: 366 TPD ULB- Jammu: 230 TPD Srinagar MC: 450 TPD Jammu MC: 470 TPD
• 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.	Details given in **Annexure-II**

	• **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**	Details given in **Annexure-II**
	No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Details given in **Annexure-III**
	Total no. of wards,	1085
	no. of wards having door to door collection	991 Details given in **Annexure-IV**
	no. of wards practicing segregation at source	202
	Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Details given in **Annexure-V**
	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Details given in **Annexure-VI**
	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	9 sites (8 in Kashmir, data on area awaited. 1 site of 32 acres in Jammu)
	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	ULBs of Kashmir Division: 98 drains, data on number of Trash guards installed awaited. SMC: 120 trash guards installed. JMC: 26 drains, No trash guards installed. Details given in **Annexure-VII**
	MSW Management ULB	76 ULBs and 2 Municipal Corporations.
	Total MSW generation in TPD	1516 TPD
	Total MSW being processed in TPD	244 TPD
	Existing MSW facilities Utilization Capacity of the existing MSW facilities Proposed MSW Facilities & Completion Timeline	Details given in **Annexure –** V**III**
VI	**<u>Bio-medical Waste Management:-</u>** Total Bio-medical generation **Covid-19 Bio-medical waste for the month of June -2021**	Jammu = **1094.52** Kg/day as per Annual Report 2019 Kashmir = **4808.1** Kg/day as per Annual Report 2019 **Total** = **5902.62** Kg / day Jammu = 34287.59 Kg/Month Kashmir = 19002.976 Kg/Month **Total = 53,290.566 Kg/Month**

	No. of Hospitals and Health Care Facilities	Jammu = **3641** Kashmir = **2965** **Total = 6606**
	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) M/s Clean City Waste Management, Kashmir (OCEMS not installed)
VII	**Hazardous Waste Management:** Total Hazardous Waste generation	Jammu = **981.026** MT / Annum. Kashmir = **231.50** MT/Annum. **Total = 1212.526 MT / Annum**
	No. of Industries generating Hazardous waste	Jammu = **227** 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 July 2021 tentatively.
VIII	**Plastic Waste Management:** Total Annual Plastic Waste generation in J&K	21527 MT/Annum (app.) with monthly average of 1794 MT (app.) **133.46 TPD** (Details given in **Annexure-IX**)
	Seizure done (April 2021 to June-2021)	a. Polythene = 8571.5 kg b. SUP = 206.5 kg **Total = 8778.0 kg**
	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. Note: ULB / Municipal Corporation -wise details are given as **Annexure – IX**
IX	Details of Alternate Treatment Technology being adopted by the State/UT	**Septage Treatment Plants** commissioned as Alternate Treatment Technology: i) Bhagwati Nagar Jammu **= 164** KLD ii) Anantnag = **62** KLD iii) AlluchiBagh = **164** KLD

		iv) Achan = **130** KLD	
X	Identification of Pollution Sources in Nine (09) Polluted Rivers in UT of Jammu and Kashmir ,as per Approved Action Plan:	**Polluted River Stretch**	**Source of Pollution**
		River Devak Udhampur	a) Un-treated sewage pollution from Municipal drains b) Unabated disposal of Municipal Solid Waste.
		Banganga , Holy Stream, Katra	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.
		River Tawi , Jammu	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.
		River Basanter, Samba	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 Construction and

			Demolition Waste.
		River Chenab at Akhnoor	a) Disposal of Untreated Sewage Waste into River Chenab. b) Unabated Disposal of Municipal Solid Waste. c) Un-authorised dumping of Construction and Demolition Waste.
		River Chuntkol (A tributary of Jhelum)	a) Discharge of untreated sewage into the river. b) Dumping of Solid Waste.
		River Gawkadal (A tributary of Jhelum)	a) Discharge of un-treated Sewage into the river. b) Dumping of Solid Waste.
		River Jhelum at Srinagar (Anantnag to Chhatabal Weir)	a) Discharge of un-treated Sewage into the river. b) Dumping of Solid Waste.
		River Sindh at Ganderbal , Srinagar	a) Discharge of un-treated sewage . b) Un-authorised dumping of Municipal Solid Waste.
		ULB/MCs details are given in **Annexure-X**	
XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	Sh. Waseem Farooq Mir, SFS posted in Chief Secretary's Office 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:	**Nil**	

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** **No. of Polluted River Stretches in Jammu = 05** **No. of Polluted River Stretches in Srinagar = 04** i. At present Pollution Control Board of Jammu& Kashmir has been monitoring the Polluted River stretches in Jammu and Kashmir under National Water Quality Monitoring Program (NWMP). ii. ii. UEED J&K will start monitoring the same as per the Monitoring Protocol of NMCG/CPCB for 1yr after finalization of tendering process/Award of Contract and mobilization of resources by the successful bidder to the site of work for the Bioremediation for treatment of wastewater/Sewage flowing in nallahs/drains falling and Polluting river stretches in Jammu as well as in Kashmir

XIV

Polluted river & drains with flow details

S. No.	Polluted River Stretch	Drains	Drain Flow (**MLD**)as per UEED data
1	**River Devak Udhampur**	No. of drains = **13** i) Housing Colony ii) MH to Devika iii) MH Chowk iv) Shiva Nagar near SSP office v) Meat Market vi) Model School vii) Near BhartiVidyaMandir viii) RaghunathMandir ix) Chabbutra Bazar x) Opp. AryaSamajMandir xi) Opp. GeetaBhawan xii) Near Dak Bungalow xiii) Link Road to Devika	(**8.69 MLD**) 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
2	**Banganga , Holy Stream, Katra**	No. of drains = **7** 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	**(3.5 MLD)** 0.268 0.361 0.179 0.277 0.722 1.256 0.437

3	**River Tawi , Jammu**	No. of drains = **26** **RHS (D/S Tawi)** i)DoonthlyNallah ii) JullahaMohalla 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)RehariNallah xviii)Krishna Nagar Nallah xix)Rajinder Nagar xx)Bhagwati Nagar **LHS (D/S Tawi)** i)Gorkha Nagar ii)Rajiv Nagar iii)University Campus Nallah iv)Refugee Basti v) BikramChowk vi)Ware house	**(66.36MLD)** **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
4.	**River Basanter, Samba**	No. of drains = **2** i)MandiFlouraNallah ii) ArgiNallah	**(3.5 MLD)** 2.5 1.0
1.	**River Chenab at Akhnoor**	No. of drains = **3** i)Baba JittoNallah ii)Near Gurdwara iii)W. No. 10 Nallah	**(3.0 MLD)** 0.918 1.325 0.758
2.	**River Chuntkol (A tributary of Jhelum)**	No. of dewatering pumps = **07**	**(5 MLD)** –
3.	**River Gawkadal (A tributary of Jhelum)**	A part of polluted river stretch of river Jehlum (Anantnag to Chhatabal)	**(3.0 MLD)** –
4.	**River Jhelum at Srinagar (Anantnag to**	No. of drains = **62** + No. of	(**111.4 MLD**) –

	Chhatabal Weir)	Dewatering pumps = **14**	
5.	**River Sindh at Ganderbal ,Srinagar**	No. of drains = **13**	**(7.6 MLD)** –

XV

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

No. of Polluted River Stretches in Jammu = 05

No. of Polluted River Stretches in Srinagar = 04

Water Quality Status of Polluted Rivers (09) during the month of May -2021

# No	Polluted River Stretch	Water Quality Analysis, May 2021						Ground Water Quality in the catchment area
1	River Devak Udhampur	**NWMP Monitoring Sites with Sanctioned Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**	**NA**
		a) Near Shiv Mandir, Udhampur (Station code 2754)	3.2	16.1	8.20	420	412	
		b) About 2Km (D/S) Shiv Mandir (Stn.code 4062)	0.7	3.2	8.15	324	340	
		c) About 10Km (D/S) Shiv Mandir (Stn.code:4063)	0.3	1.6	8.00	310	300	
2	Banganga , Holy Stream, Katra	**NWMP Monitoring Sites**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**	**NA**
		a) Bathing Ghat Katra (Stn. code 2755)	1.6	8.1	8.45	360	340	
		b) In front of pony shed (Stn.code2756)	1.8	9.2	8.56	356	388	

3	**River Tawi , Jammu**	**NWMP Monitoring Sites / Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**		**NA**
		i)Below Tawi Bridge-2744	2.4	12.2	8.60	320	340		
		ii)Bhagwati Nagar-2745	5.3	26.5	8.75	380	396		
		iii)Beli Charana-2746,	0.6	3.1	8.53	346	320		
		iv)Surajpur-2747	0.6	3.2	8.45	340	312		
		v)Bhagwatinagar 1 Km,D/S below STP discharge point at Bhagwati Ngr-4055	5.7	28.6	8.76	360	340		
4	**River Basanter, Samba**	**NWMP Monitoring Site / Sanctioned Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**		**NA**
		a) Chak Manga Gujjar samba (2753)	1.5	7.3	8.60	280	260		
5	**River Chenab at Akhnoor**	**NWMP Monitoring Sites / Sanctioned Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**		**NA**
		a) At Jio-PotaMandir (2751)	0.7	3.2	8.10	136	120		
6	**River Chuntkol (A tributary of Jhelum)**	**NWMP Monitoring Sites/ Station Code**	**BOD**	**COD**	**pH**	**DO**			**NA**
		a) NWMP sanctioned location(1307)	4.0	39.06	7.34	4.9			
7	**River Gowkadal (A tributary of Jhelum)**	**NWMP sanctioned site**	**BOD**	**COD**	**pH**	**DO**			**NA**
		Gowkadal ,Station Code (1306)	2.0	23.43	7.40	5.2			

	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)	2.6	27.44	7.36	6.0	
				.ii) Batingon, **(PCB Site)**	2.4	25.48	7.42	5.8	
				iii) Bijbehhara(4053)	2.4	27.44	7.30	6.4	
				iv)Sangam U/S (3273)	2.0	25.48	7.78	6.2	
				v) SangamD/S, (**PCB Site)**	2.2	23.52	7.42	6.6	
				vi) Awantipora (3274)	2.5	29.4	7.46	6.0	
				vii) Pampore (3275)	2.0	23.52	7.49	6.4	
				viii) Panthachowk (4054)	2.8	27.44	7.52	6.0	
				ix) Pandarathan (**PCB Site)**	2.5	25.48	7.42	6.5	
				x) Zero Bridge(1410)	2.2	23.43	7.41	6.5	
				xi) Chattabal Weir (1411)	2.2	23.43	7.46	5.6	
	9	**River Sindh at Ganderbal ,Srinagar**		**NWMP monitoring sites**	**BOD**	**COD**	**pH**	**DO**	**NA**
				a)Dodherhama, Station Code (3286)	1.0	11.8	7.72	8.0	
XVI	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.					

XVII	Good irrigation practices being adopted by the State	• Measures are taken for ensuring adequate supplies at tail end of the distribution system. • Appropriate steps to minimize the closure period of canals to the bare minimum are taken from time to time. • Every effort is taken to minimize carriage losses. • Measures are taken for controlling, channelizing and collecting the surface run-off water. Further, 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 195 have already been completed including 20 schemes completed during 2020-21. The focus in these interventions is to prevent losses and provide stable irrigation conveyance system. Lift irrigation schemes where gravity water is not available or not feasible are also constructed for providing assured irrigation facilities. Further Community participation is also ensured for best optimum utilization of available water to all beneficiaries.
XVIII	Rain Water Harvesting	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. For conservation of rain water and its utilization, construction of storage tanks has been undertaken. These Storage tanks also store rain water besides tapping the runoff from the streams for subsequent 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. Department is further proposing new storage schemes in the UT which shall add to the rain harvesting potential. An extensive campaign has been launched by National Water Mission, Department of Water Resources, RD & GR, Ministry of Jal Shakti under the tagline “Catch the Rain, Where it falls, When it falls” for creating awareness about rain water harvesting in collaboration with Nehru Yuva Sangathan (NYS). The campaign is also under implementation in the

		UT of J&K through H&UDD, RDD, Forest and other related departments and detailed progress is being shared.
XIX	Demarcation of Floodplain and removal of illegal encroachments	The draft proposal for demarcation of flood plains of river Jhelum has been forwarded to Water Resources Regulatory Authority (WRRA) for notification by Chief Engineer, I&FC Kashmir. Besides, under World Bank funded Jhelum Tawi Flood Recovery Project (JTFRP), the verification of flood plains is being studies through international consultancy M/S Eptisa Ltd. This study will confirm the flood plains as well as inundation departments. In respect of Tawi River Basin, JTFRP funded by the World Bank has hired the Joint Venture of AQUALOGUS & OILTECH (Consultancy) for preparation of Feasibility and Detailed Project Report for Flood Mitigation and Comprehensive River Management measures in Tawi Basin. The I&FC Department, Jammu 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 Executive Engineer Flood Control Division Akhnoor has assigned the work to Central Water and Power Research Station (CWPRS). Further, regarding the major Nallahs in the province, Central Water and Power Research Station (CWPRS) has assured to carry the study for the same also. Removal of encroachments is a continuous process carried by the Jal Shakti (I&FC) Department. The I&FC Department , Kashmir on the directions of Hon'ble High Court in the PIL titled Noorul Haq v/s State is removing encroachments on the banks of river Jhelum and other water bodies after proper demarcation and identification by Revenue Authorities with active support of district administration. So far, the department has removed 1950 Kachha and Pacca structure and 1650 Boundary Walls from river Jhelum and other water bodies.

<table>
<tr><td>XX</td><td>Maintaining minimum e-flow of river</td><td>There are no storage reservoirs on river Jhelum so the minimum environmental flow is assured at all times. The department has a regulating structure on river Jhelum at Srinagar known as Chattabal Weir to ensure navigation during lean season in the upstream besides ensuring the eco-flow on upstream without affecting the conditions in the downstream.
The Department shall further take consultation of Central Water Commission in order to regulate minimum e-flow wherever storage schemes on rivers are planned.</td></tr>
<tr><td>XXI</td><td colspan="2">Plantation activities along the rivers:-
<table>
<tr><th>S.No</th><th>Polluted River Stretch</th><th>Area under treatment</th><th>Plantation done</th></tr>
<tr><td>1)</td><td>River Devak Udhampur</td><td>100 hectare</td><td>Catchment Area Treatment approved under CAMPA, plantation to be taken up during the current year, soil conservation works completed</td></tr>
<tr><td>2)</td><td>Banganga , Holy Stream, Katra</td><td>100 hectare</td><td>Catchment Area treated with afforestation and soil conservation works in 100 hectares of area under CAMPA</td></tr>
<tr><td>3)</td><td>River Tawi , Jammu</td><td>200 hectare</td><td>Catchment Area Treatment done by plantation of 0.34 lac trees treating 200 hectare for the Polluted River Stretch.</td></tr>
<tr><td>4)</td><td>River Basanter, Samba</td><td>100 hectare</td><td>Catchment Area Treatment done by plantation of 0.032 lac trees and soil conservation works for the Polluted River Stretch</td></tr>
<tr><td>5)</td><td>River Chenab at Akhnoor</td><td>200 hectare</td><td>Catchment Area Treatment done by plantation of 0.40 lac trees treating 200 hectare with soil conservation works for the Polluted River Stretch</td></tr>
<tr><td>6)</td><td>River Chuntkol (A tributary of Jhelum)</td><td>A part of river Jehlum Catchment Area Treatment proposal</td><td>Catchment Area Treatment approved under CAMPA, shall be taken up during the current year</td></tr>
<tr><td>7)</td><td>River Gawkadal (A tributary of Jhelum)</td><td>A part of river Jehlum Catchment Area Treatment proposal</td><td>Catchment Area Treatment approved under CAMPA, shall be taken up during the current year</td></tr>
<tr><td>8)</td><td>River Jhelum at Srinagar (Anantnag to Chhatabal Weir)</td><td>300 hectare</td><td>Catchment Area Treatment done by plantation, treating 15 hectare area for the Polluted River Stretch, along with soil</td></tr>
</table></td></tr>
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				conservation works.
	9)	**River Sindh at Ganderbal , Srinagar**	100 hectare	Catchment Area Treatment in 100 hectare approved under CAMPA, to be taken up during the current year, soil conservation works completed

XXII	Development of Biodiversity Park	Jammu Dev. Authority has developed a park in 5.6hectare at the bank of river tawi area of polluted river stretch recently. (SMC) Srinagar Municipal Corporation has recently constituted Biodiversity Management Committee on 29.10.2020 under section 41 (1) OF Biological Diversity Act, 2002; and Rule 19 of the J&K Biological Diversity Rules, 2015 vide Order No. 1362 of 2020 dated 29.10.2020.
XIII	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.

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

Location/ Rivers	Capacity of STP proposed in MLD	Status of Project(at DPR Stage/Under tendering/work to be awarded)	Likely date of completion	Remarks
River Devika, Udhampur	Zone 1-8.0MLD Zone-2-4.0MLD Zone-3-1.6MLD Total =(13.6MLD)	(i)Project Cost 186.74 Cr approved under NRCP on 28-09-2018. (ii)Work allotted Date of start For STP and Network work =May 2019. (iii) Work allotted Date of start For Ghat work =June 2019. (iv)Date of completion For STP and Network work (original) = May	(i)For STP and Network work =Dec.2021 (ii)For Ghat Work =March.2021	Work of Sewer Laying ,STP Zone 1st& Ghat are in Progress.

			2021. (v) Date of completion For Ghat work (original)=June 2020		
	Banganga, Holy Stream, Katra	STPs= 4.5MLD =1.20 MLD Total =(5.7MLD)	DPR amounting Rs.95.69Crs presently with NRCD after having been received from IIT (Roorkee) post clarification of comments/observations.	2 years after section of the project.	DPR amounting Rs.95.69Crs presently with NRCD after having been received from IIT (Roorkee) post clarification of comments /observations.
	River Tawi, Jammu	STP=10MLD	DPR amounting Rs.41.84 Cr submitted to **NRCD** for consideration/release of funds vide letter no. HUD /Plan/16/2019/SP Dated:11.12.2020.	2 years after section of the project.	DPR for Pollution abatement of river tawi (right bank) at Jammu city (J&K) amounting Rs.41.84 Cr submitted to **NRCD** for consideration/ release of funds vide letter no. HUD /Plan/16/2019 /SP Dated:11.12.2 020
	<u>Jhelum</u> River	STP Anantnag Town (Phase-2nd/ 3rd) on SBR Technology= 21.30 MLD	DPR Vetted by DCW and Submitted to Govt for accord of A.A	3 years after section of the project.	
		Bijbehera Town=3.0MLD Awantipora= 1.6MLD. Pampore=2.7 MLD			

XV	Status of Preparation of Action Plan by the 13 Coastal State	**Does not pertain to J&K**.
XVI	Regulation of Mining Activities in the State/UT	**Details awaited from Geology and Mining Department, JK Govt.**
XVII	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	**The JK PCC has imposed Environmental Compensation (EC) under Polluter Pays Principle (PPP) to the following:-**

S. No.	Agency	Penalty	EC Order No. / Date
1	**CEO, MC Udhampur**	Rs. 1,39,00,000/-	25 PCB of 2019, Date: 21/11/2019
2	**Executive Officer, MC Ramban**	Rs. 12,88,000/-	32 PCB of 2020, Date: 10/09/2020
3	**Hotel Meridian, Panthal Road, Katra**	Rs. 56,142/-	34 PCB of 2020, Date: 02/11/2020
4	**Executive Officer, MC Sopore**	Rs.1,30,46,000/-	36 PCB of 2020, Date: 24/11/2020
5	**SMGS Hospital,Jammu**	Rs.18,28,000/-	37 PCB of 2020, Date: 29/12/2020
6	**Hotel Maharaja, Patnitop, Udhampur**	Rs. 52,660/-	38 PCB of 2020, Date: 30/12/2020
7	**M/s Attar Logistics, Transport Nagar, Jammu**	Rs. 25,000/-	39 PCB of 2021, Date: 06/01/2021
8	**Hotel Patnitop, Chenani, Udhampur**	Rs. 46,800/-	40 PCB of 2021, Date: 12/01/2021
9	**Hotel Kings, Banganga, Katra**	Rs. 22,436/-	42 PCB of 2021, Date: 21/01/2021
10	**Hotel Krishna Plaza, Rajinder Bazar, Jammu**	Rs.4, 524/-	43 PCB of 2021, Date: 05/02/2021
11	**Executive Officer Municipal Committee Bandipora**	Rs. 64,21,000/-	45 PCB of 2021, Date: 09/02/2021
12	**M/s Hotel holy Shrine Dak Banglow, Road Katra, Reasi**	Rs. 2,873/-	46 PCB of 2021, Date: 15/02/2021
13	**M/s ASCOMS Hospital Sidhara, Jammu**	Rs.1,37,34,800/-	47 PCB of 2021, Date: 15/02/2021
14	**M/s Hotel Montreal Shalimar Srinagar**	Rs. 9,660/-	Amount deposited dt. 22.02.2021
15	**M/s Hotel Maa Balganga Road, Katra**	Rs. 9,476/-	48 JK PCB of 2021, Date: 10/03/2021
16	**M/s National Highway Authority**	Rs. 2,00,00,000/-	50 JK PCB of 2021, Date: 24/03/2021
17	**M/s Hotel Baisaran Pahalgam, Anantnag**	Rs. 6,855/-	51 JK PCB of 2021, Date: 29/03/2021

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Annexure-I

(A) Details of each existing STP in the UT

i) In Jammu

No.	Location	Existing STP Capacity (MLD)	Capacity being utilized (MLD)	Operational status of STP	Remarks
1	Bhagwati Nagar, Distt.Jammu	30	13+7=20	Operational	Polluted River Stretches (PRS)
2		27	07	Under testing and Commissioning	PRS
3		10	Nil	Under Refurbishment	PRS (**Refurbishment of 10 MLD STP at Jammu expected to be completed by August 2021)**
	Total	**67**	**27**		**Above 3Nos STP's are at One Place at Bhagwati Nagar Jammu with Common Collection Facility)**
4	Jagti,Distt.Jammu	4	2	Operational	Other than PRS (with Relief &Rehabilitation Deptt.)
5	Katra,Bhawan, Distt.Reasi. (SMVDSB)	3.2	-	-	Under the ControlofShri Mata Vaishno Devi Shrine Board.
6	Katra Adhkwari (SMVDSB)	0.4	-	-	Under Control of ShriMataVaishno Devi Shrine Board.
	Total(In Jammu)	**74.60 MLD**	**-**		

ii) In Kashmir

No.	Location	Existing STP Capacity (MLD)	Capacity being utilized (MLD)	Operational status of STP	Remarks
1	Mehndi-Kadal,Distt.Anantnag	4.0	2.0	Operational	Pollution River Stretches(PRS)

2	Hazratbal, Distt. Srinagar	7.5	7.0	Operational	Other than PRS
3	Habak, Distt. Srinagar	3.2	3.2	Operational	Other than PRS
4	NishatLaam, Distt. Srinagar	4.5	4.5	Operational	Other than PRS
5	Brari-Numbal (Old), Distt. Srinagar	17.08	17.08	Operational	Other than PRS
6	Brari-Numbal (New), Distt. Srinagar	16.1	13.1	Operational	Under the Control of J&K LAWDA, Srinagar.
7	Nallah Amir Khan, Distt. Srinagar	5.4	4.0	Operational	Under the Control of J&K LAWDA,Srinagar.
8	Badami-BaghCantt, Distt. Srinagar	5.0	_		Under the Control of BadamiBagh Cantonment Board.
9	Pahalgam, Distt. Anantnag	2.0	1.0	Operational	Under the Control of Tourism Department, J&K, Srinagar.
	Total(In Kashmir)	**64.78 MLD**	**-**		
	Total (In J&K)	**139.38 MLD**	**-**		

Annexure-I

(B) Details of under construction STPs in the UT

i) In Jammu

No.	Location	Capacity of the Plant in (MLD)	Physical Progress in %	Status of I&D or House sewer connections	Completion Time	Remarks
1 (a)	BeliCharanaDistt.Jammu	4	85%	**House sewer connections (In Nos.)** Target=4929	09/2021	i. STP 85% completed. ii. House connections proposed under State Capex (Funds awaited)
(b)	Sewerage Network & IPSs			**Proposed under State Capex (Funds awaited)**		DPR Revised Laying of Sewerage Network in progress Trunk Sewer 3.2 Km out of 5.48 Km laid ii) Lateral = 17.00 Km out of 36.45 Km completed proposed Trunk = 3.2 Km laid out of 5.48 Km proposed. iii) 3 No. IPS work allotted
In Udhampur District						
2	Baryal, Distt. Udhampur	8	**Approach Road Work/PCC/ Reinforcement Work Started**	**House sewer connections (In Nos.)** Target=13460 Achieved=Nil	03/2022	STP-1: SBR Work of STP-1 in progress Foundation completed, walling in progress Vetted Hard Copies of STP-2 & STP-3 from MNIT Jaipur received & work likely to start
3	Omara, Distt. Udhampur	4	Not Started	**House sewer connections**	03/2022	

			Yet	**(In Nos.)** Target=6632 Achieved=Nil		
4	Pitan, Distt. Udhampur	1.6	Not Started Yet	**House sewer connections (In Nos.)** Target=2724 Achieved=Nil	03/2022	
5	Patnitop,Distt. Udhampur	1.2	90%	**House sewer connections For Hotels/Huts/Houses. (In Nos.)** Target=130 Achieved=120	07/2021	Other than PRS (With Patnitop Development Authority) 95% completed
iv)	**In Kashmir**					
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 Distt. Srinagar	60	75%	**House sewer connections(In Nos.)** Target=16139 Achieved=5306	3/2022	Other than PRS Under NBCC
2	Rajbagh, Srinagar	2.21	**Work Stopped by the**	Nil	3/2023	Other than PRS

			Revenue Dept.			
3	Tengpora, Srinagar	6	30%	Nil	3/2022	Other than PRS
4	Charar-i-Sharief, Kashmir	2	Work allotted(**work of Approach Road to STP Site is with another contractor due to which work not started yet. Hopefully It will be started in upcoming month.**)	**House sewer connections (In Nos.)** Target=3300 Achieved=Nil	3/2022	Other than PRS
5	Baramulla	3	15%	**House sewer connections (In Nos.)** Target=5550 Achieved=Nil	3/2022	Other than PRS
	Details of Under Construction STPs pertaining to Jammu Dev. Authority					
01	JDA Flats at Muthi Jammu	160 KLD	**90%**	**For flatted Accommodation**	**Installation completed**	**Two months required for operation/testing and commissioning. However, STP can be put to use only after the availability of permanent three phase power supply for which the construction of sub-station is in progress by JPDCL.**

02	General Bus Stand cum Shopping Complex , Jammu	240 KLD	**97%**	**For General Bus Stand**	**Installation completed**	STP can be put to use only after the testing and commissioning of STP and subject to the availability of minimum Of 90 KLD sewage on daily basis.

Annexure-I

(C) Details of Proposed STPs in the UT

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	Peerkho Jammu (For I&D of right bank 13 nos. Nallahs Polluting Tawi)	10	DPR amounting **Rs.41.84 Cr** submitted to **NRCD** for consideration/release of funds vide letter no. HUD /Plan/16/2019/SP Dated:11.12.2020& retained by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021 for consideration	2 years after sanction of Project	Administrative Approval / Financial concurrence from NRCD awaited
2	Katra Town	4.5	DPR amounting **Rs.95.69Crs** presently with NRCD after having been received from IIT(Roorkee)post clarification of comments/observations and active consideration for funding.	2 years after sanction of Project	Work of STPs / IPS & Sewerage Network put to tenders
3	Katra Town	1.3		2 years after sanction of Project	
4	Samba Town	3.5	DPR amounting **Rs.70.60 Cr** submitted to **NRCD** for consideration/release of funds but due to budgetary limitations they requested to mobilize necessary financing from own resources of J&K UT or under different program of Government 2020& communicated by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021	2 years after sanction of Project	PRS Basanter
5	Akhnoor Town	5.0	DPR amounting **Rs.123.21 Cr** submitted to **NRCD** for consideration/release of funds but due to budgetary limitations they requested to mobilize necessary financing from own resources of J&K UT or under different program of Government& communicated by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021	2 years after sanction of Project	PRS Chenab

6	Kathua Town	19.1	DPR amounting **Rs.265.23 Cr** submitted to **NRCD** for consideration/release of funds but due to budgetary limitations they requested to mobilize necessary financing from own resources of J&K UT or under different program of Government.	3 years after sanction of Project	Other than PRS
7	Hiranagar Town	2.5+1.5=4	96Cr(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 Town	2.5+3.5=6	135 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other 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
13	ChuntKol, Srinagar	5	DPR duly vetted by the DCW for Rs.40.44 Crs submitted to Secretary, GoI, Ministry of Jal Shakti for Consideration/Sanction of DPR by the Deputy Director (P&S),H&UDD vide letter no. HUD /Plan/16/2019/SP Dated:11.12.20202020 & retained by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021 for consideration	2 years after sanction of project	PRS Jehlum
14	Gawkadal, Srinagar	3	DPR duly vetted by the DCW for Rs.26.22 Crs submitted to Secretary, GoI, Ministry of Jal Shakti for Consideration/Sanction of DPR by the Deputy Director (P&S),H&UDD vide letter no. HUD /Plan/16/2019/SP Dated:11.12.20202020 & retained by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021 for consideration	2 years after sanction of project	PRS Jehlum
15	Anantnag Sewerage				

	Scheme(Phase-2nd/3rd)on SBR Technology	***21.30***	DPRs vetted by DCW and Submitted to Govt for accord of Administrative Approval.	3 years after sanction of project	PRS Jehlum
16	Bijbehra, Town	***3***			PRS Jehlum
17	Awantipora	***1.6***			PRS Jehlum
18	Pampore	***2.7***			PRS Jehlum
19	Ganderbal	***8***		2 years after sanction of project	PRS Sindh
20	Sonamarg	1	Tender floated proposed SBR technology	2 years after sanction of project	Under the Control of Tourism Department, J&K, Srinagar.
21	Gulmarg	2.5	Proposed SBR technology	2 years after sanction of project	Under the Control of Tourism Department, J&K, Srinagar.

Annexure-II

- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg-**
  - **iv. Waste to Energy (Tonnage and Power Output),**
  - **v. Compost Plants (Windrow, Vermi, decentralized pit composting),**
  - **vi. Biomethanation, MRF etc**

1. Urban Local Bodies, Kashmir	
i. Waste to Energy (Tonnage and Power Output),	**0**
ii. Compost Plants (Windrow, Vermi, decentralized pit composting),	**Plants (09 TPD Capacity)**
iii. Biomethanation, MRF etc	**NIl**

2. Srinagar Municipal Corporation

) Vide Government Order No. 255-HUD of 2017 dated 22/11/2017, the Commissioner, Srinagar Municipal Corporation has issued Letter of Intent (LOI) in favour of (sole) bidder namely, M/S. Highland Automobiles Pvt Ltd. (in consortium with Key Stone Energy System LLP & Astrix Infra Pvt Ltd.), now an SPV namely, Syntech Bio-energy Pvt. Ltd., for establishment of 5MW capacity Waste-to Energy Plant (disposal of 500±125 TPD) at landfill site Achan subject to certain terms and conditions including that the rates/tariff on which power shall be purchased will have to be adopted by the J&K State Electricity Regulatory Commission before signing the Power Purchase Agreement in terms of J&K Electricity Act, 2010. The SMC has issued with all necessary documents required by the Project Proponent to approach the JERC for adoption of discovered tariff and subsequently the Power Purchase Agreement (PPA) shall be signed by the concerned stakeholders which include Housing & Urban Development Department, J&K Power Development Department & the Project Proponent. As per the directions of Hon'ble National Green Tribunal in an OA No. 277/2013 titled Dr. Irfan Ahmad v/s Nawang Rigzin Jora & others, the Proponent shall have to establish the Plant within 18 months as after signing of PPA. The signing of PPA is under process and the Hon'le Lt. Governor is also being updated on the progress of signing of the PPA and adoption of tariff by the JERC. The things are moving fast and it is expected that the PPA shall be signed very soon which shall pave way for smooth establishment of the Waste-to Energy Plant.

ii) As on date, approximate 450 TPD waste is being dumped at the Achan Site. Out of 450 TPD waste, 100 to 115 MTs of garbage is being mechanically segregated at the Mechanical Segregator on daily basis. Organic waste is collected from less than 30mm sieve which is being taken directly to the compost plant for its curation and further sieving at 4mm sieve. More than 30mm and less than 100 mm waste sieved is also organic in nature which is kept for curation in windrows and after 45 to 60 days of curation and turnings, it is again sieved at less than 30mm sieve and further sieving at 4 mm trommel for final compost produce. The compost being produced at dumping site is marketed in packed form and is being sold in 20 Kg's bags at the rate of Rs. 5/- per Kg. Though, there is marketing issue, but the SMC is exploring possibilities to sell the compost in bulk to Government Departments such as Agriculture Department, Floriculture Department, SKAUST, Horticulture Department and other relevant Government institutions.

iii) A Material Recovery Facility (MRF) is operational at SMC's dumping site where 24 Rag Pickers are working and recovering the recyclable material. The Rag Pickers have collected **441.880** MTs of plastic waste etc. at MRF upto June, 2021.

3. Jammu Municipal Corporation

- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg-**
  - **vii. Waste to Energy (Tonnage and Power Output),**
  - **viii. Compost Plants (Windrow, Vermi, decentralized pit composting),**
  - **ix. Biomethanation, MRF etc**

S. No.	MSW Processing Facilities	Installed Capacity (TPD)	Utilization of existing MSW Processing facilities (TPD)
1	MRF 1	05 TPD	05 TPD
2	MRF 2	05 TPD	05 TPD
3	Composting	50 TPD	40 TPD
4			
5			
6			

4. Urban Local Bodies, Jammu

So far in the last few months, the processing of the Municipal Solid Waste has remained at the same level where it used to be as processing capacities have not been increased. However, in a recent meeting of State Level Apex Committee under the chairmanship of Chief Secretary held on 16.03.2021, an action plan for de-centralized Solid Waste Management Facilities has been approved at a cost of **Rs. 90.84 crores** for Jammu Division. The various components of the action plan are enlisted as under:-

a. Streamlining collection and transport of garbage in the ULBs from individual households and commercial establishments.
b. Establishing organized fleet of vehicles in each ULB for efficient collection and transport of garbage.
c. Establishing facilities for segregation of collected waste from household and commercial establishments.
d. Providing facilities to the households for segregation of waste for its proper disposal.
e. Construction of material recovery facilities at ULB level for processing of the waste collected for its scientific disposal including processing of wet waste through composting etc.

f. Establishment of Sanitary Landfill Sites for disposal of inert waste.
g. Establishment facilities for disposal of C&D waste.
h. Treatment of legacy waste at the dump sites already under use for the dumping of garbage.

As per the present capacities and the infrastructure available in the Jammu Division, the following details indicate the present system of Collection and Disposal of the Municipal Solid Waste.

Waste to Energy (Tonnage and Power Output

At present there is no such facilities anywhere in Jammu Division for utilizing waste for energy

Compost plants (Windrow, Vermi, decentralized pit composting),

There are 3 Municipal Committees viz. MC Doda, MC Bhaderwah and MC Sunderbani with SWM Composting Plants and Segregation of waste facilities. In addition to this, Composting has also been initiated in MC Udhampur for treatment of wet waste. A bailing machine has been installed at Sui Chakkar Udhampur for scientific disposal of plastic waste around 5 Tonnes of Plastic Waste has been processed and transported for disposal through IPCA. A composting machine with a capacity of 200 Kgs/day has been installed in Municipal Committee of Katra for composting of wet waste. Similar composting machines shall be procured under the action plan approved as mentioned above for such ULBs where temperature is not conducive for faster composting of wet waste. Under the action plan, the ULBs where the land has already been transferred in favour of the concerned ULBs, the processing facilities shall be established immediately so that scientific disposal of Municipal Solid Waste can take place.

In order to effectively implement the action plan, the Directorate of Urban Local Bodies Jammu is in the process of establishing a Project Management Unit in the directorate so that all the components of scientific disposal of Municipal Solid Waste can be taken care of in an efficient manner.

Biomethanation

At present no such facility is available. However, as per the action plan, the ULBs where there is sufficient Municipal Solid Waste generation, Bio-methanation facilities would be established.

MRF

(Material Recycle Facilities)

Recycling of collected garbage is done at MSW processing facilities at MC Katra, MC Doda, MC Bhaderwah and MC Sunderbani. In addition to this, the rag pickers on their own segregate reusable garbage in all the ULBs for recycling from the identified garbage dumping sites.

As per the approved action plan, in all the ULBs separate Material Recovery Facilities shall be established for segregation of re-useable waste and for scientific disposal of the waste which is non-recyclable. These material recovery facilities will come up immediately in the first phase in those ULBs where there is land available for establishing such processing facilities. The wet waste generated in the ULBs shall be disposed of through composting in the same processing facilities.

Annexure-II

- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**

1. Urban Local Bodies, kashmir

Action Plan for decentralized facility for every ULB has already approved by the State Level Apex Committee of Swachh Baharat Mission held on 16.03.2021 under the chairmanship of Chief Secretary J&K.

2. Srinagar Municipal Corporation

Srinagar Municipal Corporation is planning to implement a holistic solid waste management plan with a vision to make Srinagar:

1. Litter Free

2. Bin Free

3. Dust Free

4. Land Pollution Free

This Action Plan has a significant step forward in assessing the existing situation of SWM as well as laying out clear guidelines for making Srinagar a safe, resilient and litter-free city in the near future. This involves various aspects of the MSW operations viz. source segregation, door-to-door collection, primary & secondary transportation, intermediate waste storage & transfer, scientific processing and final disposal as per SWM Rules, 2016. Some of the major interventions of the proposed action plan are as below:

1. Fleet up gradation and additional deployment of hoppers/compactors/bins for achieving the 100% collection & transportation system.

2. 12 Garbage Transfer Stations are planned across the city. The Garbage Transfer Stations (GTS) will be located in different parts of the city and will be equipped with equipment's like ancillary infrastructure facilities, compactors, bins, hook loaders, leachate system and Material Recovery Facility.

3. Augmentation of existing Compost Plant for processing of 100% waste and to improve the quality of compost

4. A Material Recovery Facility and RDF is also proposed to promote the recycling and conversion of combustible waste in to RDF.

5. Provision of Mechanical Sweepers which would reduce 3 times operational cost from manual Street Sweeping.

6. Provision of Animal Carcass Incinerator and Poultry Waste Incineration for the safe and scientific disposal of waste.

7. Provision of Organic Waste Converters, Cleaning & Bailing of Solid Waste.

8. Provision for setting-up C&D waste processing facility in compliance to C&D Management & Handling Rules, 2016.

9. Srinagar Municipal Corporation has proposed GIS based integrated waste management system which will have following features like Fleet Management System, Geo-fencing and Geo mapping, Bio metric staff management system RFID based house numbering.

10. Srinagar Municipal Corporation will be running a separate waste collection service for bulk waste generators (More than 25kgs). This would be a user charge based service where separate vehicles will 5 SMC-SWM Action Plan SRINAGAR MUNICIPAL CORPORATION be deployed for bulk waste collection. This would ensure proper segregation of waste and will also help in augmenting the revenues of Municipal Corporation. Based on the ward wise data analysis, the plan mentions critical gap analysis along with suggestions for improvement to ensure overall compliance. The plan also describes in detail the possible interventions in MSW collection, transportation, treatment and disposal.

The Action Plan has been submitted to the Administrative Department. In a meeting held on 29/6/2021 and convened by the Principal Secretary, H&UDD, the Action Plan has been approved and shall now be submitted before the worthy Chief Secretary of UT of J&K for unlocking of funds.

3. Jammu Municipal Corporation

a) Initiatives for waste to compost have been taken under which leaves composting at Zanana Park, Digiana Park, and Rotary Bhawan Ghandi Nagar is in progress. The other parks are also being covered shortly. Moreover, for recycling of dry waste there are two MRF available in JMC, which is operated by M/S IPCA and M/S UNDP.
   The objective of this partnership is:-
   - To bring a sense of responsibility among the citizens for their waste management.
   - To bring about behaviour change and awareness among the masses on issue of waste management, particularly zero littering, segregation and waste collection.
   - Put 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.

b) As per proper action plan, JMC and UNDP have taken the step for plastic waste management in 10 identified wards (W. No. 45, 50, 51, 52, 53, 55, 56, 57, 58, &68) of Jammu city. UNDP will also work with JMC as partner in collection, segregation and transportation of plastic waste to recyclers. UNDP also with JMC is carrying out media campaigns.

c) JMC has hired an agency for IEC activity in city regarding Plastic waste management rule-2016, Solid Waste Management rule 2016; C&D waste management rule2016 and BMW Rule 2016, and other different- different activities for awareness in general public.

d) JMC has started vermi compost unit at JMC Stray Cattle Pound Dogra Hall in which stray cattle's dung is being converted into vermi compost which is being used in different JMC Parks. Till date about 45 MT compost has been used. JMC has also started sale outlet at Town hall for general public.

e) JMC has also installed 06 cubic meter Bio-gas plant by using stray cow dung at JMC Cattle Pound at Dogra hall.
f) After awareness by JMC, 03 dairy unit owners have also installed 6 cum Bio-gas unit each at Buta Nagar, Shakti Nagar and Sanik Colony. They are using biogas for cooking purpose.
g) JMC is collecting the fresh vegetable waste on daily basis from different vegetable Mandies within the city and feeding it to the stray animals at JMC Cattle Pound Dogra Hall and Municipal Animal care Centre Roop Nagar.
h) JMC is also collecting flowers from 25 temples and utilizing old waste flowers for composition. Two Aggarbatti 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 Mandirs and are being used for compost and making aggarbattis. The outlet of sale of aggarbattis has been opened at Town Hall Complex, Jammu.
i) JMC launches campaigns for plastic waste management and solid waste management time to time with the help of SHGs, NGOs and schools. The themes of these campaigns like- Plastic free rallies, cleaning of plastic waste from roadsides and households by students/volunteers.
j) Time to time JMC organizing multiple programs for the community on PWM.
k) JMC engaged an IEC partner M/s AIILSG to organize the activities in JMC jurisdictions.
l) JMC has been floated the RFP for setup the ISWM facility with 125 TPD in bandhu-rakh for 26 ward of Zone-3.L1 bidder has been selected and document has been sent to Cabinet Committee for approval.
m) JMC has signed the MoU with NAFED for setup the Waste processing facility in kot-bhalwal for 49 ward of Zone-1&2

Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)

4. Urban Local Bodies, Jammu

The process of developing Solid Waste Management plants is underway as per the approved action plan and for that land has been transferred in favour of 16 MCs (Poonch, Kathua, Reasi, Sunderbani, Ramban, Batote, Doda, Bhaderwah, Udhampur, Akhnoor, Khour, Jourian, Billawar, Ramnagar, Kalakote and Katra. In the remaining ULBs, land is in the process of being transferred. In respect of MCs at Doda, Bhaderwah and Sunderbani, the existing MSW processing Plants would also be upgraded on the modern lines as per the approved action plan.

In order to increase the capacities of processing of Municipal Solid Waste in all the ULBs, the following measures are being taken:-

a. Establishment of a Project Management Unit in the Directorate for preparing plans of implementation of the approved action plan, procurement of equipments for establishing the above mentioned facilities and to help the Directorate expedite various contracting processes for faster procurements.

b. Procurement of collection and transport vehicles for each ULBs as per the requirement of the concerned ULB and also keeping in view, the terrain of such ULBs.

c. To increase the Door to Door collection coverage to all the 446 wards of 36 ULBs.

d. To promote Primary Segregation at household level by distributing Bins and educating peoples through IEC activities on the importance of primary

segregation at household level. Establishment of Waste Management Centre with separate facility to treat Wet Waste and for segregation of Dry waste through Material Recovery Facilities.

Annexure-III

Points	Urban Local bodies Kashmir	Srinagar Municipal Corporation	Jammu Municipal Corporation.	Urban Local Bodies Jammu
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 **100 TPD capacities** C&D Waste Processing Plant in Saidapora, Achan. The DPR is under process. C&D Waste collection centre at dumping site Achan, Srinagar already notified.	Existing facilities: Only collection centre at Bhagwati Nagar site. Proposed facilities:- Tendering Stage Facilities under construction:- Nil	As on date, no C&D processing Plant has been established in any of the ULBs of Jammu Province. However, 6 sites at Kathua, Udhampur, Poonch, Ramnagar, Reasi & (Akhnnoor, Jourain & Khour) have been identified for dumping of C&D Waste. A survey has been conducted in all ULBs to determine the quantity of C&D waste generated. The C&D waste generated in all the ULBs varies month to month between 500 kgs to 5 Tonnes. As per the action plan which will be implemented now, the sanitary fill sites to be developed/Solid Waste Management Facilities will take care of C&D deposition as well. The Chief Executive Officers/ Executive Officers have already been directed to dump the C&D waste at the identified site only.

Annexure-IV

Points	Urban Local bodies Kashmir	Srinagar Municipal Corporation	Jammu Municipal Corporation.	Urban Local Bodies Jammu
Total no. of wards,	**529**	**35**	**75 wards**	**446**
no. of wards having door to door collection	**476**	85 % in all 35 Municipal Wards	**75(100%)**	**405**
no. of wards practicing segregation at source	**22**	100% Segregated waste collected in 04 Municipal Wards i.e. Ward No. 01 (Nishat), Ward No. 11 (Lalbazar), Ward No. 22 (Karan Nagar) & Ward No. 33 (Humhama)	**40% in all wards**	**101** There has been constant push to achieve 100% door to door garbage collection from households/commercial establishments. Since, the action plan for scientific disposal of Municipal Solid Waste is in process of being implemented, therefore the door to door collection could not be pushed further in the last few months due to limited capacity of ULBs not having educate collection and transport infrastructure. Now, as per the requirement of the ULBs more collection and transport vehicles are being procured for which State Motor Garages has initiated the process of procurement. Once the collection and transport vehicles are procured, 100% door to door collection will be achieved using proper tracking and disposal of the garbage collected.

Annexure-V

Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)

1. Urban Local Bodies, Kashmir

Solid Waste Management decentralized facilities for every ULB have already approved for an amount of Rs 191.66 Crores by State Level Apex committee of Swachh Baharat Mission held on 16.03.2021 under the Chairmanship of Chief Secretary, J&K. The Directorate has already initiated the process of procurement of collection and transportation infrastructure through State Motor Garages. Expression of Interest stands also invited for placement of dedicated Project Management Unit for establishment of Solid Waste Management facilities in all the Urban local Bodies of Kashmir as per the approved Action Plan.

2. Srinagar Municipal Corporation

1. Letter of Intent for establishment of 5MW capacity Waste-to- Energy plant capable to 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.
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. Proposal for AA submitted to H&UDD. Proposal under examination in H&UDD
3. Bioremediation/bio-mining of legacy waste tendered. Bids received and technical/financial evaluation already done. Proposal for AA submitted to H&UDD shortly. Proposal under examination in H&UDD
4. A 100 TPD Capacity C&D waste processing plant to be set up at Achan. DPR under preparation.
5. The SMC has proposed that 12 state-of-art garbage transfer stations shall be constructed for collection of waste from tricycles, handcarts and Hoppers. The Garbage Transfer Stations will be located in different parts of the city and will be equipped with equipment's like bins/containers, compacting machine, hook-loaders, leachate collection system, material recovery facility, boundary wall, office room, green buffer, cement concrete platform, main gate and covered shed. It is proposed that from 35 wards, the waste shall be first brought to the transfer stations and then transported to the waste processing and disposal site located at Achan. Transfer station is a facility where municipal solid waste will be unloaded from primary collection vehicles and briefly held while it is reloaded onto larger vehicles (Hook Loader-Container System) for transportation to integrated waste processing and disposal facility. By combining the loads of several small individual waste collection vehicles into a single shipment, apart from reduction in number of vehicular trips travelling to and from the disposal site, there will be significant resource saving in terms of money on the labour, operating costs of transporting the waste to a

distant disposal site and environmental protection. Although waste transfer stations help reduce the impacts of trucks travelling to and from the disposal site.

6. To regulate the transport fleet, attendance of the SWM staff, the Srinagar Municipal Corporation has decided to use GIS based integrated waste management system which will have following features:

    1. Fleet Management System:

    To track and monitor the movement of vehicles like hoppers, compactors/tipper vehicles, mechanical sweepers, snow clearing machines, bin washers and dumpers throughout the city.

    2. Geo-fencing and Geo mapping shall ensure the waste collection is done as per pre designated routes and on pre specified time intervals.

    3. Bio metric staff management system to ensure effective utilization of human resource.

    4. RFID based house numbering and tax to ensure waste collection is done in each and every household and effective assessment of user charges.

    5. Customer Care Centre/Control Room Application to receive customer, SMC staff complaints, requests on phone calls, SMS or emails.

    6. Automation using GPS, RFID/RFID Reader, Photo & Request Update using "Mobile Applications", SMS, Bio-Metric Machines etc.

    7. An effective and transparent complaint handling system is a pre-requisite to any successful transformation. It is thus proposed to set-up an efficient, effective, transparent and user-friendly complaint handling system for registering complaints from people regarding removal of solid waste.

    7. SMC is planning to convert its existing landfill site at Achan into a well-managed and scientifically designed garbage processing and disposal site. The site will have facility for resource recovery, plastic management, and waste to energy and bio mining besides a sanitary landfill. The waste reaching the site will be separated using machines into recyclable portions and non-recyclable ones. The recyclable waste would be collected and sent for sale to recycling firms. The non-recyclable single use plastic will be cleaned and shredded into refused derived fuel (RDF) to be later used as fuel by cement units. The bio degradable waste would be separated and converted into compost. SMC is planning to sell this compost in open market and also use it in the parks and gardens being maintained by the Srinagar Municipal Corporation.

Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)

3. Jammu Municipal Corporation

MSW Facilities	No.	Capacity (TPD)	Technology
MSW treatment facilities Proposed	2	450(approx.)	Aerobic Composting, Biogas, and MRF centers
MSW treatment facilities under construction	0	0	NIL

4. Urban Local Bodies, Jammu

As per the action plan which will be implemented soon, Solid Waste Management Facilities will be established in all the ULBs with all the requisite infrastructure in place. The existing facilities at Sunderbani, Bhaderwah and Doda shall also be upgraded as per the components of the action plan.

The capacities of the Solid Waste Management Facilities in different ULBs shall commensurate with the waste generation in such ULBs. These facilities are being designed to take care of increased Municipal Solid Waste generation in the next 15 to 20 years.

Annexure-VI

Points	Urban Local bodies Kashmir	Srinagar Municipal Corporation	Jammu Municipal Corporation.	Urban Local Bodies Jammu
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	17 Municipal Committees have furnished details of 28.26 Acres of uncontrolled Land/Garbage dumping sites and sanitary land fill.	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 constructed. Cell Nos. 1&3 already closed and capped. Cell No. 2 is presently in operation.	Uncontrolled Garbage Dumpsites:- 2 (Bhagwatinagar and Kothbalwal), Number of dumping site and area is 32 acres and 19.5 acres respectively. Bhagwati Nagar dumping site is under remediation process. Sanitary landfills: Nil (under proposal)	Approx. 90.75 acres of land is being utilized in various ULBs as Garbage Dump sites and Sanitary Landfills.

Annexure-VII

Points	Urban Local bodies Kashmir	Srinagar Municipal Corporation	Jammu Municipal Corporation.	Urban Local Bodies Jammu
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	08	None, In the buffer within 1 KM of rivers	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	As received from different ULBs 98 Drains have been drains out towards water bodies.	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

Annexure-VIII

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
Urban Local bodies Kashmir	40	366	9	2 (Two Waste to compost plants at Pahalgam and Tangmarg ULB)	9 TDP	The Action Plan for establishing the Waste Processing facilities of Jammu Division on Decentralized was approved by SLAC on 16.03.2021 for an amount of Rs 191.66 Crores. The process of Implementation of the Action Plan has been initiated in all the 36 ULBs and is likely to be completed by March 2022.
Srinagar Municipal Corporation	1	450 TPD	120 TPD	1. Mechanical Segregator; 2. Land filling.	30 TPH capacity Mechanical Segregator. 70% land filling in land fill Cell No. 2.	1. Waste to Energy Plant shall be commissioned within 18 months after signing of Power purchase agreement among the parties; 2. Bioremediation of the existing landfill cells shall be taken up immediately after administrative approval is accorded to the proposal. 3. The Construction of landfill cell No. IV shall be taken up for execution after accord of Adm. Approval.
Jammu Municipal Corporation.	1	470 TPD	60 TPD	03	60-70%	2 (125 TPD SWM and 270 TPD) approx probably work will be started in **July, 2021.**
Urban Local Bodies Jammu	36	**230.10 TPD**	**55 TPD**	**Tabulated below, ULB wise**		

Status of ULB wise Management of Solid Waste

Urban Local Bodies, Jammu

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 and completion timeline
MC, Akhnoor	**7.0**	No MSW processing plant is in operation. However, the waste collected is segregated at source to some extent and a part of it is dumped at the dumping site and remaining is segregated by the rag pickers from the dumping sites at their own for recycling.	The waste is disposed off at identified dumping sites for the purpose.	The identified dumping sites have capacity to cater to the waste generated. The department is continuously in the process of identifying more land parcels for garbage dumping. As and when MSW processing plants are established, the process of garbage disposal would become more efficient.	The Action Plan for establishing the Waste Processing facilities of Jammu Division on Decentralized was approved by SLAC on 16.03.2021 for an amount of Rs 90.84 Crores. The process of Implementation of the Action Plan has been initiated in all the 36 ULBs and is likely to be completed by March 2022.
MC, Jourian	**2.00**	--do--	--do--	-	--do--
MC, Khour	**3.00**	--do--	--do--	-	--do--
MC, Ghou-manhasan	**1.69**	--do--	--do--	-	--do--
MC, R S Pura	**10.00**	--do--	--do--	-	--do--
MC, Bishnah	**3.00**	--do--	--do--	-	--do--
MC, Arnia	**2.00**	--do--	--do--	-	--do--
MC, Samba	**9.00**	--do--	--do--	-	--do--
MC, Vijaypur	**3.00**	--do--	--do--	-	--do--
MC, Ramgarh	**2.4**	--do--	--do--	-	--do--
MC, Bari	**2.00**	--do--	--do--	-	--do--

Brahmana					
MC, Rajouri	**16.00**	--do--	--do--	**-**	--do--
MC, Sunderbani	**3.00**	The entire garbage collected is segregated at the MSW facility Sunderbani where the wet waste goes into composting pits and dry waste is further segregated for recycling of re-useable garbage.	Composting Pits	4.00 TPD	do
MC, Nowshera	2.19	No MSW processing plant is in operation. However, the waste collected is segregated at source to some extent and a part of it is dumped at the dumping site and remaining is segregated by the rag pickers from the dumping sites at their own for recycling.	The waste is disposed off at identified dumping sites for the purpose.	The identified dumping sites have capacity to cater to the waste generated. The department is continuously in the process of identifying more land parcels for garbage dumping. As and when MSW processing plants are established, the process of garbage disposal would become more efficient.	**do**
MC,Thanamandi	**1.20**	--do--	--do--	**-**	--do--
MC, Kalakote	**1.61**	--do--	--do--	**-**	--do--
MC, Poonch	**10**	--do--	--do--	**-**	--do--
MC, Surankote	**3.00**	--do--	--do--	**-**	--do--
MC, Kathua	**32.00**	--do--	--do--	**-**	--do--
MC, Billawar	**2.00**	--do--	--do--	**-**	--do--
MC, Basohli	**2.00**	--do--	--do--	**-**	--do--
MC, Lakhanpur	**4.00**	--do--	--do--	**-**	--do--

MC, Parole	**3.00**	--do--	--do--	-	
MC, Hiranagar	**1.81**	--do--	--do--	-	--do--
MC, Katra	**38.00**	--do--	--do--	-	--do--
MC, Reasi	**7.00**	--do--	--do--	-	--do--
MC, Doda	**10.00**	The garbage collected is segregated at the MSW facility Doda where the wet waste goes into composting pits and dry waste is further segregated for recycling of re-useable garbage. Any additional garbage generated is dumped at the dumping site and the same is segregated by the rag pickers on their own from the dumping sites.	Composting Pits	5.00 TPD	do
MC, Bhaderwah	**5.00**	The entire garbage collected is segregated at the MSW facility Bhaderwah where the wet waste goes into composting pits and dry waste is further segregated for recycling of re-useable garbage.	Composting Pits	5.00 TPD	do
MC, Thathri	**1.50**	No MSW processing plant is in operation. However, the waste collected is segregated at source to some extent and a part of it is dumped at the dumping site and remaining is segregated by the rag pickers from the dumping sites at their own	The waste is disposed off at identified dumping sites for the purpose.	The identified dumping sites have capacity to cater to the waste generated. The department is continuously in the process of identifying more land parcels for garbage dumping. As and when MSW processing plants are established, the process of	**do**

		for recycling.		garbage disposal would become more efficient.	
MC, Udhampur	**23.00**	No MSW processing plant is in operation. However, the waste collected is segregated at source to some extent and a part of it is dumped at the dumping site and remaining is segregated by the rag pickers from the dumping sites at their own for recycling. A kill to waste plant of a capacity of 1.50 TPD has been installed in MC Udhampur.	The waste is disposed off at identified dumping sites for the purpose.	The identified dumping sites have capacity to cater to the waste generated. The department is continuously in the process of identifying more land parcels for garbage dumping. As and when MSW processing plants are established, the process of garbage disposal would become more efficient.	The Action Plan for establishing the Waste Processing facilities of Jammu Division on Decentralized was approved by SLAC on 16.03.2021 for an amount of Rs 90.84 Crores. The process of Implementation of the Action Plan has been initiated in all the 36 ULBs and is likely to be completed by March 2022
MC, Ramnagar	**3.00**	No MSW processing plant is in operation. However, the waste collected is segregated at source to some extent and a part of it is dumped at the dumping site and remaining is segregated by the rag pickers from the dumping sites at their own for recycling.	The waste is disposed off at identified dumping sites for the purpose.	The identified dumping sites have capacity to cater to the waste generated. The department is continuously in the process of identifying more land parcels for garbage dumping. As and when MSW processing plants are established, the process of garbage disposal would become more efficient.	**-do-**
MC, Chenani	**1.50**	--do--	--do--	**-**	--do--
MC, Kishtwar	**8.00**	--do--	--do--	**-**	--do--
MC, Ramban	**2.20**	--do--	--do--	**-**	--do--
MC, Banihal	**2.00**	--do--	--do--	**-**	--do--
MC, Batote	**2.00**	--do--	--do--	**-**	--do--
TOTAL	**230.10**	**-**	**-**		

Annexure-IX

	Srinagar Municipal Corporation	**Jammu Municipal Corporation**	**Directorate of Urban Local Bodies, Jammu.**	**Directorate of Urban Local Bodies, Kashmir.**
Total - waste generation.	As per the analysis of waste conducted at landfill site Achan on 24/1/2013, the waste has about 6% plastics. Therefore, the plastic waste collected at dumping site is around **24-27 TPD** based on analysis done in the year 2013.	40 TPD	**8554 MT per Annum**.	**45.33 TPD**
Treatment/Measures adopted for reduction or management of plastic waste.	There is no treatment facility set up as on date. However; One number MRF has been set up at dumping site where 24 Rag Pickers are integrated with material recovery. The SMC is launching sustained awareness to educate citizens about the harmful effects of plastic made items, penalties etc & exhorts them to refrain from using plastic or plastic made items. SMC has set up at landfill site at Achan where more	• 2 number of MRF has been setup in city and integrated with informal waste pickers working in the city limit and 2 more MRF is under planned to setup for dry waste generated in the city. • ICE agency has been hired for awareness in citizens for segregation of waste at source level and try to avoid single use plastic, disposable plastic even ULB has been notified fine for violators. Awareness program has been started since 26 Oct 2020. • A dedicated team has been set up to enforce The Plastic Waste Management rule 2016 and Solid Waste Management	a. The use of polythene below 50 microns has been banned. b. Use of polythene is penalized by way of fine to discourage people from using it. c. Segregation at source and segregation at dumping sites is encouraged for recycling of plastic waste. d. Awareness campaigns are organized discouraging people from using polythene. e. 6 sites (Kathua, Udhampur, Poonch, Katra, Akhnoor and Bari Brahmana) have been identified for depositing e-waste for its proper disposal.	All the ULBs have been directed to take measures for strict ban on single use plastic vide circular No. DULB/Plg/1376313806 dated 26.07.2019. Plastic Waste Management Bye-laws have been circulated to all MCs for strict compliance. The single use plastic have been banned inn all ULBs. Awareness regarding hazardous effects of plastic is being imparted among general masses. Frequent market checking is being conducted by MCs to eradicate the menace of Plastic.

	than 24 rag pickers are segregating plastic waste from Municipal Solid Waste. From September 2018 to June 2021, the Rag Pickers have collected **441.880 MTs** of Plastic waste at Landfill site Achan. 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, Tramboo Cement Industries Pvt. Ltd., has lifted 5885 kgs of RDF from SMCs dumping site. On 23/4/2021, a meeting of the Cement Manufacturers was convened by the SMC and was attended by the representatives of the prominent cement industry units. The representatives sought a time to enable them	rule 2016. • JMC ensuring segregation, collection, storage, transportation, processing and disposal of plastic waste. • JMC ensuring that no damage is caused to the environment during this process of plastic waste and planning for setup new MRF centers in city. • JMC ensuring channelization of recyclable plastic waste fraction to recyclers after processing through MRF centers. • JMC is in the process to channelizing to scrap dealer with system, they will help JMC in implementation of PWM rules within the jurisdiction. • JMC creating awareness among all stakeholders about their responsibilities. ICE agency has been hired for awareness in citizens for segregation of waste at source level and try to avoid single use plastic, disposable plastic even ULB has been notified fine for violators. • JMC engaging civil societies or groups working with waste	As per the action plan which will be implemented in all the Local Bodies, the treatment of plastic waste through segregation and by using other scientific methods shall be started. Similarly, the scientific disposal of e-waste generated in all the Urban Local Bodies shall be ensured as per the laid down procedures/norms.	

	to install requisite machinery in their kilns besides sought clean, dusted and shredded RDF from the Corporation. To enforce strict ban on sale, stock and carrying of polythene bags of <50 microns thickness, the SMC from Jan-2018 has seized and destroyed **37.35** Qtls of banned polythene within the limits of Srinagar City and realized Rs. 3,14,200/- as fine from the defaulters in **239** anti-polythene drives. However, due to imposition of COVID 19 lockdown, the business activity remained shut in the city and no significant raids were conducted. The SMC has also constituted a squad to check the polythene menace in the city.	pickers; and • JMC ensuring that open burning of plastic waste does not take place and JMC has also issued public notification in two leading newspaper • stakeholders about their responsibilities. IEC agency has been hired for awareness in citizens for segregation of waste at source level and try to avoid single use plastic, disposable plastic even ULB has been notified fine for violators. • JMC engaging civil societies or groups working with waste pickers; and • JMC ensuring that open burning of plastic waste does not take place		

Annexure-X

I. Identification of Polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: UEED J&K

i) Jammu

S.No	Name of Rivers	Polluted Stretches	Source of Pollution	Drains Contributing to River Pollution	Action
1.	**River Devika, Udhampur**	Guru Ravi Dass Temple to Nainsu at Udhampur	a. Un-treated sewage pollution from Municipal drains. b. Unabated disposal of Municipal Solid Waste.	**13 Nos. Drains** i.Housing Colony ii.MH to Devika iii.MH Chowk iv.Shiv Nagar near S.S.P office v.Meat Market vi.Near Happy Model School vii.NearBhartiVidyaMandir viii.NearRaghunathMandir ix.Chabbutra Bazaar x.Opp. AryaSamajMandir xi.Opp. GeeetaBhawan xii.NearDak Bungalow xiii.Link road Devika	**A) (The Project is approved under NRCP funding for Rs.186.74 Cr.** i) Work of 1 No. STP at Zone-1 (8 MLD)started. Raft foundation of SBR completed, walling in progress. **ii)** Process / Structural vetted Designs for 2 Nos. STP(4 MLD at Zone-2 1.6 MLDat Zone-3) have been received on 21-06-2021 from MNIT Jaipur & work likely to start & shall be completed by 03/2022 iii) 54.00 Km out of 124 Km Sewerage Network completed (42%)
2.	**Banganga, Holy Stream,Katra**	Pony Shed to Bathing Ghat,	a. Untreated Solid and Liquid waste disposal from pony sheds.	**7(Nos.)drains** from Pony Shed to Bathing Ghat, Banganga,	i) DPR amounting Rs.95.69 Crs presently with NRCD after having been received from IIT (Roorkee) post clarification of

		Banganga, Katra	b. Untreated sewage from nearby localities/ establishments. c. Unabated disposal of Municipal Solid Waste. d. Sewage Pollution from minor/major establishments e.	Katra i.Nallah 1 ii.Nallah 2 iii.Nallah 3 iv.Nallah 4 v.Nallah 5 vi.Nallah 6 vii.Nallah 7	comments/observations. Administrative Approval/ Financial concurrence awaited ii) Land acquisition for construction of 2 No. STP's and 4 Nos.IPS under process. iii) Work for STPs / IPSs alongwith Sewerage Network put to tenders
3.	**River Tawi,Jammu**	Surajpur to Belicharana, River Tawi at Jammu	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.	**26 Nos. Drains On R.H.S** i. Doonthly Nallah ii. Jullaha Mohalla iii. Peerho 1 iv. Peerho 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	a) Construction of 4 MLD STP at Belicharana based on SBR technology is under execution and the civil structures in this sub project are 85% 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) amounting Rs.41.84 Cr submitted to **NRCD** for consideration/release of funds vide letter no. HUD /Plan/16/2019/SP Dated:11.12.2020. c)Revised **DPR for an amount of Rs 51.67 Cr.** for Construction of 4MLD STP Sewerage Treatment Plant with complete sewerage network for treatment of 5No: Nallah on left side Tawi River Jammu formulated and submitted for accord of A/A. Work in progress & shall be completed by

				xvi.Qasim Nagar xvii.Rehari nallah xviii.Krishna Nagar xix.Rajinder Nagar xx.Bhagwati Nagar **On L.H.S** i.Gorkha Nagar ii. Rajiv Nagar iii.University Nallah iv.Refugee baste v.BikramChowk vi.Ware House	03/2022 , d) Land acquisition for construction of 1 No. STP of capacity 10MLD at Peerkho under process.
4.	**River Basanter, Samba**	Samba to Chak Manga Rakwal, adjoining IGC Samba	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 Construction and Demolition Waste. e. Pollution from minor/major establishments.	**3 Nos. Drains** i.Sidco Sewage Drain backside of Hotel Rex Argi Nallah ii.NearShamshan Ghat MandiFloura Nallah. iii.Drain near Railway Bridge.	i) DPR amounting Rs.70.60 Cr submitted to **NRCD** for consideration/release of funds but due to budgetary limitations they requested to mobilize necessary financing from own resources of J&K UT or under different program of Government. Land acquired for construction of STP and boundary wall work started. ii) Land Acquisition for 2Nos. IPS under process. iii) RS 11.00 Cr proposed in the current under the Capex budget submitted for approval.
5.	**River Chenab, Akhnoor**	JalPatan (JioPota) to Pargwal at	a. Disposal of Untreated Sewage Waste into	**3 Nos. drains**	i)DPR amounting Rs.123.21 Cr submitted to **NRCD** for consideration/release of funds

		Akhnoor	River Chenab. b. Unabated Disposal of Municipal Solid Waste c. Un-authorised dumping of Construction and Demolition Waste. d. Pollution from minor/major establishments.	i.BabaJitto Nallah ii.Nallah near Guruduwara iii.Ward No.10 Nallah	but due to budgetary limitations they requested to mobilize necessary financing from own resources of J&K UT or under different program of Government. ii)Land documents for 1 No. STP of capacity 5 MLD received. iii)Acquisition for of 7 Nos IPS are under process iv) Rs 14.00 Cr proposed in the capex budget and submitted for approval.
6.	**Bioremediation for treatment of wastewater flowing in nallahs/drains falling and Polluting river stretches (i) Tawi, (ii)Ban-Ganga, (iii) Basanter, (iv) Devika & (v)Chenab in Jammu identify by NGT**	Interim measure to control pollution of river stretches mentioned above under s.no-01 to 05 in Jammu Region	As mention above under s.no-01 to 05	As mention above under s.no-01 to 05	Bid received shall be processed once financial concurrence received from Govt.

ii)In Kashmir					
S.No	**Name of Rivers**	**Polluted Stretches**	**Source of Pollution**	**Drains Contributing to River Pollution**	**Action**
1.	**ChuntKol (Tributary of Jhelum)**	Gawkadal to Zero Bridge	c) Discharge of untreated sewage into the river. d) Dumping of Solid Waste.	8 (No.) dewatering pumps	DPR duly vetted by the DCW for Rs.40.44 Crs is submitted to Secretary, GoI, Ministry of Jal Shakti for Consideration/Sanction of DPR by the Deputy Director (P&S),H&UDD vide letter no. HUD /Plan/16/2019/SP Dated: 11.12.2020. Under consideration with Government of India, Ministry of Jal Shakti.
2	**Gaw-Kadal** **(Tributary of Jhelum)**	Gawkadal bridge to Nowhatta	a) Discharge of un-treated Sewage into the river. c) Dumping of Solid Waste.	N.A.	DPR duly vetted by the DCW for Rs.26.22 Crs is submitted to Secretary, GoI, Ministry of Jal Shakti for Consideration/Sanction of DPR by the Deputy Director (P&S),H&UDD vide letter no. HUD /Plan/16/2019/SP Dated:11.12.2020.
3	**Jhelum** **i) Anantnag Phase-II** **ii)Bijbehara** **iii)Awantipora** **iv)Pampore**	Anantnag to Chattabal Weir	c) Discharge of un-treated Sewage into the river. d) Dumping of Solid Waste.	62 drains + 14 Dewatering pumps	DPR Vetted by DCW and Submitted to Govt for accord of A.A. An amount of Rs. 44.60 Crores has been proposed in the current year budget for these stretches of Rivers.
4	**Sindh**	Along Duderhama (Ganderbal)	c) Discharge of un-treated sewage . d) Unauthorised	13 (No.) drains	**DPR for an amount of Rs 96.22 Crores**

			dumping of Municipal Solid Waste.		formulated. Rs 14.00 Cr proposed during the current year & A/A awaited.
5	**Bio-remediation for treatment of wastewater flowing through drains/Nallahs out falling into rivers in Kashmir Region as identified by NGT for a period of 1yrs.**	Interim measure to control pollution of river stretches mentioned above under s.no-01 to 04in Kashmir Region	As mention above under s.no-01 to 04	As mention above under s.no-01 to 04	Bid received shall be processed once financial concurrence received from Govt.

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

Srinagar Municipal Corporation

To revive the pristine glory of the water bodies, rivers, lagoons, ponds, streams and so on, existing in the Srinagar city, the Srinagar Municipal Corporation is actively participating in the water bodies clearance initiatives. Here are glimpses of some of the work done for restoration of water bodies of Srinagar city:-

1) Rejuvenation of Khushalsar / Gilsar:

The Srinagar Municipal Corporation is providing every assistance and support to Lakes and Waterways Development Authority, Irrigation & Flood Control Department by way of lifting and disposal of muck/garbage/weed etc. collected from the Khushalsar & Gilsar lakes. The SMC is lifting around 07 tipper loads of muck/garbage etc. at an average on daily basis. From Feb., 24th 2021 till date 26th June, 2021 (122 days), 834 trips (approx weight 834 trips x 5 MTs = 4170 MTs) have been lifted and disposed of by SMC while making available the Tippers, JCB and disposal site. Every support shall be given to the JK LDA & I&FC Departments in rejuvenation and restoration of said water bodies.

2) Conservation of Dal/ Nigeen Lakes :

The Dal and Nigeen Lakes are surrounded by the 06 Municipal Administrative Wards comprising of Ward Nos. 01 (Nishat), 02 (Lalchowk), 03 (Dal), 08 (Saida Kadal), 11 (Lalbazar) & 12 (Hazratbal). The waste management of the peripheries of the twin lakes in said Municipal Wards is being done the Srinagar Municipal Corporation (SMC). The SMC is collecting the solid waste generated in the peripheries by households and business establishments on daily basis.

The SMC has already brought Ward No. 11 & Ward No. 01 under the ambit of 100% segregated door to door waste collection and efforts are on to include more wards particularly the remaining Wards under this ambit. It is being ensured that the waste generated in the peripheries is collected at source and disposed off accordingly. Nearly 40 MTD solid waste is generated in the peripheries of the Lakes which is being taken to the Municipal waste dumping facility using the different kinds of waste hauling vehicles such as Light Commercial Vehicles, Compactor Vehicles etc.

The SMC has also installed Waste Bins (Compactor Bins) alongside the peripheries of the Lakes, which are being emptied on regular basis.

The waste management of the interior Dal & Nigeen Lakes is being looked after by the Lakes & Waterways Development Authority (LDA). The SMC is providing transportation and disposal/dumping facility to the LDA against the nominal charges. SMC has put its transportation facility available to the LDA at 02 spots at Near Welcome Hotel, Boulevard Road & Ranger Stop, where the waste collected by the LDA is loaded on the tippers for its final disposal at SMC's waste disposal facility at Achan Srinagar. Nearly 15 MTD waste is collected by the LDA from the interiors of the Dal & Nigeen Lakes.

The SMC has constructed Trash Guards alongside the water channel from Khojyarbal to Nowpora wherein the trash flowing through the surface drains is trapped. The trapped trash is being subsequently cleared by the Boatmen-cum-Safaiwalas engaged by the SMC for the very purpose.

3) Sunday4Srinagar Programme:

Under the said initiative, special sanitation and cleanliness drives were conducted on every Sunday before the imposition of COVID-19 lockdown restrictions. The main focus of these drives was clearance of water streams, water channels, water bodies & so on. In the month of March & April, 2021 special clearance drives were launched in Shalimar Khul flowing from behind the Shalimar Garden, Water channel from Chowdhry Bagh to Mir Behri Dal, water stream flowing from Harwan Garden to Shalimar, water channel from Shalimar garden to Northern Foreshore Road. Doodhganga flood channel situated at Chattabal, from Baghat to Byepass, Channapora to Barzulla, Bemina Bridge to Tengpora were also cleared of the waste/garbage under the Sunday4Srinagar initiative.

4) Hokarsar wet land:

On 5th June, 2021, the World Environment Day, a massive sanitation drive was launched in the 3 Km periphery stretch of Hokarsar wet land and cleared of garbage and litter. The SMC in collaboration of an NGO launched an another sanitation drive in the peripheries of Hokarsar on 23/6/2021 and cleared the area from trash and garbage. Instructions have been issued to field staff for conduct of weekly sanitation drives in the area to conserve and preserve the wetland.