Government of Jammu & Kashmir
Forest, Ecology & Environment Department
Civil Secretariat
www.jkforestadm.nic.in

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

NO:- FST/Lit/14/2021-02-Forest Department Dated: 25.10.2021.

Subject:- Monthly Progress Report by States/UTs, pursuant to the Hon'ble NGT order dated 24.09.2020 in the matter of OA No. 673/2018 for the month of **September, 2021.**

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 24.09.2020 in respect Union Territory of J&K for the month of **September 2021** for favour of information and further necessary action.

Yours faithfully,

(Kabir Ahmed Malik)
Deputy Secretary (Law)

Encls: As above.
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 **September, 2021**.
2. Private Secretary to the Commissioner/Secretary to Government, Forest Environment and Ecology Department for information of the Commissioner/Secretary.

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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 September-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 (139.38 MLD)
	• Capacity Utilization of existing STPs	88.18 MLD
	• MLD of sewage being treated through Alternate technology:	0.52 MLD
	• Gap in Treatment Capacity in MLD	383.62 MLD
	• No. of Operational STPs	14
	• No. of Complying STPs	-
	• No. of Non-complying STPs	-
	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 of J&K	238
	• Quantity of Effluent generated from the Industries in MLD	21.24* * ***(Data of quantity of effluent generated from the industries is reconciled)***
	• 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: 36 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, KhonmuhPh-II = **0.50** MLD **f)**IGC Pulwama, Location = **0.50** MLD **g)**IGC, Pulwama, Location 4 = **3**x**0.50** MLD

V-	**Solid Waste Management**	
	Total number of Urban and Local Bodies and their Population	**76** Urban Local Bodies and **02** Municipal Corporations. ULBs Kashmir = 835049 ULBs Jammu = 392585 SMC = 11.92 lacs as per 2011 census JMC = 6962291 (2019)
	• Current Municipal Solid Waste Generation	ULB-Kashmir: 362.26 TPD ULB- Jammu: 230 TPD Srinagar MC: 450 MTPD Jammu MC: 470 TPD
	• Number, installed capacity and utilization of existing MSW processing facilities in TPD bifurcated by type of processing e.g. 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, 01 site of 32 acres in Jammu)	Details given in **Annexure-VII**
	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.	
	MSW Management ULB	76 ULBs and 2 Municipal Corporations.	Details given in **Annexure – VIII**
	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		

VI	**Bio-medical Waste Management:-** Total Bio-medical generation **Covid-19 Bio-medical waste for the month of September -2021**	a) Jammu = **1590.81** Kg/day as per Annual Report 2020 b) Kashmir = **4351.00** Kg/day as per Annual Report 2020 **Total** = **5941.81** Kg / day a) Jammu = **8325.23**Kg/Month b) Kashmir = **2202.77**Kg/Month **Total=10528.00 Kg/Month**
	No. of Hospitals and Health Care Facilities	a) Jammu = **3669** b) Kashmir =**3235** **Total = 6904**
	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	a) Jammu = **981.026** MT / Annum. b) 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, shall be completed by September 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 September-2021)**	a) Polythene = 10667.30 kg. b) SUP = 661.30 kg. **Total = 11328.60 kg.**

<table>
<tr><td></td><td></td><td></td></tr>
<tr><td></td><td>Treatment/ Measures adopted for reduction or management of plastic waste</td><td>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.

ULB / Municipal Corporation-wise details are given as Annexure – IX</td></tr>
<tr><td>IX</td><td>Details of Alternate Treatment Technology being adopted by the State/UT</td><td>Septage Treatment Plants commissioned as Alternate Treatment Technology:
i) Bhagwati Nagar Jammu = 164 KLD
ii) Anantnag = 62 KLD
iii) Alluchi Bagh = 164 KLD
iv) Achan = 130 KLD</td></tr>
<tr><td>X</td><td>Identification of Pollution Sources in Nine (09) Polluted Rivers in UT of Jammu and Kashmir, as per Approved Action Plan:</td><td>
<table>
<tr><th>Polluted River Stretch</th><th>Source of Pollution</th></tr>
<tr><td>River Devak Udhampur</td><td>a) Un-treated sewage pollution from Municipal drains
b) Unabated disposal of Municipal Solid Waste.</td></tr>
<tr><td>Banganga , Holy Stream, Katra</td><td>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.</td></tr>
<tr><td>River Tawi , Jammu</td><td>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.</td></tr>
<tr><td>River Basanter, Samba</td><td>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.</td></tr>
<tr><td>River Chenab at Akhnoor</td><td>a) Disposal of Untreated Sewage Waste into River Chenab.
b) Unabated Disposal of</td></tr>
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</td></tr>
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	Municipal Solid Waste. c) Un-authorized 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.

Details from H&UDD are given as **Annexure-X**

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
5.	**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
6.	**River Chuntkol (A tributary of Jhelum)**	No. of dewatering pumps = **07**	**(5 MLD)** –
7.	**River Gawkadal (A tributary of Jhelum)**	A part of polluted river stretch of river Jehlum (Anantnag to Chhatabal)	**(3.0 MLD)** –
8.	**River Jhelum at Srinagar (Anantnag to Chhatabal Weir)**	No. of drains = **62** + No. of Dewatering pumps = **14**	(**111.4 MLD**) –
9.	**River Sindh at Ganderbal ,Srinagar**	No. of drains = **13**	**(7.6 MLD)** –

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. 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.

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 September-2021

# No	Polluted River Stretch	Water Quality Analysis, May 2021							Ground Water Quality in the catch-ment area
1	River Devak Udhampur	NWMP Monitoring Sites with Sanctioned Station Code	BOD	COD	pH	Hard-ness	Alkali nity	Coliforms count after 24 Hrs. (CFU/ 100ml)	NA
			<2.0 (mg /l)	-	6.5-8.5	-	-	500	
		a) Near Shiv Mandir, Udhampur (Station code 2754)	3.0	15.5	7.56	200	192	630	
		b) About 2Km (D/S) Shiv Mandir (Stn.code 4062)	0.7	3.2	8.56	192	184	350	
		c) About 10Km (D/S) Shiv Mandir (Stn.code:4063)	0.4	2.2	8.25	184	180	860	
2	Banganga , Holy Stream, Katra	NWMP Monitoring Sites	BOD	COD	pH	Hard ness	Alkal inity	Coliforms count after 24 Hrs. (CFU/ 100ml)	NA
		a) Bathing Ghat Katra (Stn. code 2755)	1.4	7.1	8.46	182	176	500	
		b) In front of pony shed (Stn.code2756)	2.0	11.0	8.20	162	192	690	

3	River Tawi , Jammu	**NWMP Monitoring Sites / Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**	**Coliforms count after 24 Hrs. (CFU/ 100ml)**	NA
		i)Below Tawi Bridge-2744	1.8	8.8	8.62	146	160	840	
		ii)Bhagwati Nagar-2745	3.1	15.2	8.80	152	180	930	
		iii)Beli Charana-2746,	0.7	3.2	8.45	156	172	350	
		iv)Surajpur-2747	0.7	3.2	8.42	148	176	390	
		v)Bhagwatinagar 1 Km,D/S below STP discharge point at Bhagwati Ngr-4055	3.4	14.0	8.56	160	184	1250	
4	River Basanter, Samba	**NWMP Monitoring Site / Sanctioned Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**	**Coliforms count after 24 Hrs. (CFU/ 100ml)**	NA
		a) Chak Manga Gujjar samba (2753)	1.7	8.6	7.96	156	160	750	
5	River Chenab at Akhnoor	**NWMP Monitoring Sites / Sanctioned Station Code**	**BOD**	**COD**	**pH**	**Hardness**	**Alkalinity**	**Coliforms count after 24 Hrs. (CFU/100ml)**	NA
		a) At Jio-Pota Mandir (2751)	Monitoring being conducted Bio-Monthly basis					Bio-monthly Monitoring	
6	River Chuntkol (A tributary of Jhelum	**NWMP Monitoring Sites/ Station Code**	**BOD**	**COD**	**pH**	**DO**			NA
		a) NWMP sanctioned location(1307)	5.3	54.0	7.23	2.7			
7	River Gowkadal (A tributary of Jhelum)	**NWMP sanctioned site**	**BOD**	**COD**	**pH**	**DO**			NA
		Gowkadal ,Station Code (1306)	1.5	25.2	7.43	4.5			

	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)	2.5	25.48	7.79	6.2	
				.ii) Batingon, **(PCB Site)**	2.6	27.4	7.57	5.8	
				iii) Bijbehhara(4053)	2.3	23.52	7.96	5.3	
				iv)Sangam U/S (3273)	2.5	25.48	7.73	5.4	
				v) Sangam D/S, (**PCB Site)**	2.0	27.44	7.88	5.8	
				vi) Awantipora (3274)	2.6	25.48	7.6	6.4	
				vii) Pampore (3275)	2.0	21.56	7.9	6.5	
				viii) Panthachowk (4054)	2.0	21.56	7.61	6.8	
				ix) Pandarathan (**PCB Site)**	2.0	23.52	7.49	5.8	
				x) Zero Bridge(1410)	2.3	27.0	7.35	4.2	
				xi) Chattabal Weir (1411)	2.6	28.8	7.45	3.5	
	9	**River Sindh at Ganderbal ,Srinagar**		**NWMP monitoring sites**	**BOD**	**COD**	**pH**	**DO**	**NA**
				a)Dodherhama, Station Code (3286)	1.4	15.7	7.73	6.3	
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	• 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.
XVI	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.
XVII	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.

XVIII	Maintaining minimum e-flow of river	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.

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

S.No	Polluted River Stretch	Area under treatment	Plantation done
1)	**River Devak Udhampur**	100 hectare	Catchment Area Treatment approved under CAMPA, plantation to be taken up during the current year, soil conservation works completed
2)	**Banganga , Holy Stream, Katra**	100 hectare	Catchment Area treated with afforestation and soil conservation works in 100 hectares of area under CAMPA
3)	**River Tawi , Jammu**	200 hectare	Catchment Area Treatment done by plantation of **0.34** la**c** trees treating 200 hectare for the Polluted River Stretch.
4)	**River Basanter, Samba**	100 hectare	Catchment Area Treatment done by plantation of **0.032** la**c** trees and soil conservation works for the Polluted River Stretch
5)	**River Chenab at Akhnoor**	200 hectare	Catchment Area Treatment done by plantation of **0.40** la**c** trees treating 200 hectare with soil conservation works for the Polluted River Stretch
6)	**River Chuntkol (A tributary of Jhelum)**	A part of river Jehlum Catchment Area Treatment proposal	Catchment Area Treatment approved under CAMPA, shall be taken up during the current year
7)	**River Gawkadal (A tributary of Jhelum)**	A part of river Jehlum Catchment Area Treatment proposal	Catchment Area Treatment approved under CAMPA, shall be taken up during the current year
8)	**River Jhelum at Srinagar (Anantnag to Chhatabal Weir)**	300 hectare	Catchment Area Treatment done by plantation, treating 15 hectare area for the Polluted River Stretch, along with soil 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

<table>
<tr><td>XX</td><td>Development of Biodiversity Park</td><td>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.

(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 Rule, 2015 vide Order No. 1362 of 2020 dated 29/10/2020.</td></tr>
<tr><td>XXI</td><td>Reuse of treated water</td><td>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.</td></tr>
<tr><td>XXII</td><td colspan="2">Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
<table>
<tr><th>Location/ Rivers</th><th>Capacity of STP proposed in MLD</th><th>Status of Project(at DPR Stage/Under tendering/work to be awarded)</th><th>Likely date of completion</th><th>Remarks</th></tr>
<tr><td>River Devika, Udhampur</td><td>Zone 1-8.0MLD
Zone-2-4.0MLD
Zone-3-1.6MLD
Total =(13.6MLD)</td><td>(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 2021.

(v) Date of completion

For Ghat work (original)=June 2020.</td><td>(i)For STP and Network work =Dec.2021

(ii)For Ghat Work =Sept 2021</td><td>Work of Sewer Laying ,STP Zone 1st& Ghat are in Progress.</td></tr>
</table></td></tr>
</table>

	Banganga, Holy Stream, Katra	STPs=4.5MLD =1.20 MLD Total=(5.7MLD)	DPR amounting Rs.95.69 Crs, presently with NRCD after having been received from IIT (Roorkee) post clarification of comments/observations.	2 years after sanction 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 sanction 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: 11.12.2020
	<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 sanction of the project.	
		Bijbehera Town=3.0MLD Awantipora= 1.6MLD. Pampore=2.7 MLD			
XXIII	Status of Preparation of Action Plan by the 13 Coastal State		**Does not pertain to J&K**.		
XXIV	Regulation of Mining Activities in the State/UT		The Geology & Mining Department, J&K is implementing the Enforcement and Monitoring Guidelines for regulating		

		mining activities in J&K, UT consistently and the following steps have been/are being taken such as: 1. Feasible Geo-referenced Minor Mineral Blocks of all the River Beds/Nallahs were prepared/carved out and put to e-auction through District Level Auction Committee under Chairmanship of Deputy Commissioner. In total 384 minor minerals blocks have been e-auctioned In J&X, UT. Out of 384, 376 have been issued in respect of minor mineral blocks to various Project Proponents. Out of 376 issued by this department, 363 Mining Plans have been approved by the Competent Authority. Till date 67 Mining Leases have been granted to various Project proponents in whose favour Environmental Clearance & Consent to Operate have been issued. Moreover, 56 Mining Leases in respect of e-auctioned minor mineral blocks have been operationalized to meet out the construction material requirement of the general public as well as government works such as National Highways, PMGSY Roads, AIIMS etc. 2. District Survey Reports in respect of all the Districts stands prepared in J&K, UT. 3. A Replenishment studies for updating of District Survey Report has been taken up in various rivers/nallahs of J&K, UT. 4. Minor mineral blocks in left out /uncovered areas in various rivers/nallahs in J&K, UT are being carved out and shall be put to e-auction after seeking NOCs from all Stake Holder Departments as per the guidelines strictly.

		5. At stationery clearances including Environmental Clearance and C.T.O. has been made pre-requisite for Grant of any mining Lease/quarry permit/ STP permission. 6. Environmental Audit condition as per the Hon'ble NGT directions has been incorporated in the Mining Lease Deed. 7. District Level Task Force Cell has been constituted vide Govt. Order No. 1569-GAD of 2018 dated 22.10.2018 to curb the illegal Mining issues in the district and the rates of Minor Minerals including Sand in all the districts of J&K, UT have been fixed by the District Administration of concerned District for regulating the Sale Price of Minor Minerals. 8. For proper Transportation of Minor Minerals, transportation challans with following security feature have been introduced recently: a) Unique Bar Code b) Unique quick response code c) Water Nark 9. The Department has taken up the construction work of several Check Posts and in process to install Hi-Tech system with CCTVs to monitor the transportation of Minor Minerals including River Bed Material in J&K, UT. 10. Wherever the guidelines are violated, the action under section 21(4) and (5) is taken against the violators during the year 2020-21, the Department has seized 3049 vehicles on account of violating norms and charged penalty amount of Rs 6,10,82,140.00/- during the period.

XXV	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 BaisaranPahalgam, Anantnag**	Rs. 6,855/-	51 JK PCB of 2021, Date: 29/03/2021
18	**M/s Gammon Engineering and Contractors Pvt. Ltd. (Mobile Stone Crusher) at Dhalwas, Ramban**	Rs. 1,08,000/-	03- PCCof 2021, Date: 30.07.2021
19	**M/s Choudhary Jagar Singh Constructions Pvt. Ltd. (Stone Crusher) Village Famrote, SangaldanBaralla Road Gool, Ramban**	Rs. 2,60,400/-	04- PCCof 2021, Date: 30.07.2021
20	**M/s TRG Industries Pvt. Ltd. Stone Crusher, JowahriHadog-Sumber Road, Ramban**	Rs. 1,54,000/-	05- PCCof 2021, Date: 30.07.2021
21	**M/s TRG Industries Pvt. Ltd. Hot Mix Plant, JowahriHadog-Sumber Road, Ramban**	Rs. 1,54,000/-	06-PCCof 2021, Date: 30.07.2021
22	**M/s MilithKarvEngg. & Trading Pvt. Ltd. (Stone Crusher) Dhandrath, Sildhar, Ramban**	Rs. 2,60,400/-	07- PCCof 2021, Date: 30.07.2021
23	**M/s MilithKarvEngg. & Trading Pvt. Ltd. (Hot Mix Plant)Dhandrath, Sildhar, Ramban**	Rs. 2,60,400/-	08- PCCof 2021, Date: 30.07.2021
24	**National Highway Authority of India (NHAI)**	Rs. 58,00,000/-	09-JKPCC of 2021, Date: 08.09.2021

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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	Operational	PRS
3		10	Nil	Under Refurbishment	**Refurbishment of 10 MLD STP at Jammu expected to be completed by Sept. 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	1.60	Operational	Under the Control of Shri Mata Vaishno Devi Shrine Board.
6	Katra Adhkwari (SMVDSB)	0.4	0.20	Operational	Under Control of Shri MataVaishno Devi Shrine Board.
	Total(In Jammu)	**74.60 MLD**	**30.80**		

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	7.5	Operational	Other than PRS
3	Habak, Distt. Srinagar	3.2	3.2	Operational	Other than PRS
4	Nishat Laam, 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-Bagh Cantt, Distt. Srinagar	5.0	5.0	Operational	Assumed Fully operational, Restricted area Access denied
9	Pahalgam, Distt. Anantnag	2.0	1.0	Operational	Under the Control of Tourism Department, J&K, Srinagar.
	Total(In Kashmir)	**64.78 MLD**	**57.38**		
	Total (In J&K)	**139.38 MLD**	**88.18**		

Annexure-I

(B) Details of each existing STP in the UT

iii) 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	Operational	PRS
3		10	Nil	Under Refurbishment	PRS (**Refurbishment of 10 MLD STP at Jammu expected to be completed by Dec. 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	1.60	Operational	Under the ControlofShri Mata Vaishno Devi Shrine Board.
6	Katra Adhkwari (SMVDSB)	0.4	0.20	Operational	Under Control of ShriMataVaishno Devi Shrine Board.
	Total(In Jammu)	**74.60 MLD**	**30.80**		

i) 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	7.5	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	5.0	Operational	Assumed Fully operational, Restricted area Access denied
9	Pahalgam, Distt. Anantnag	2.0	1.0	Operational	Under the Control of Tourism Department, J&K, Srinagar.
	Total(In Kashmir)	**64.78**	**57.38**		
	Total (In J&K)	**139.38**	**88.18**		

Annexure-I

(C) 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)	Belicharana Distt.Jammu	4	95%	**House sewer connections (In Nos.)** Target=4929	03/2022	i. STP 95% 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 = 17.70 Km out of 36.45 Km completed proposed Trunk = 3.2 Km laid out of 5.48 Km proposed. iii) 3 No. IPS work in progress.
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 Breast wall, Grit Chamber, Administrative Block, Blower, HT Room, Sludge holding tank are in progress. STP-2: The work of construction of SBR

3	Omara, Distt. Udhampur	4	Not Started Yet	**House sewer connections (In Nos.)** Target=6632 Achieved=Nil	03/2022	tanks is in progress. STP-3: The work of construction of SBR tanks & Chlorine contact tanks is in progress.
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	100%	**House sewer connections For Hotels/Huts/Houses. (In Nos.)** Target=130 Achieved=125	under trail run	Other than PRS (With Patnitop Development Authority) STP 100% 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 resumed**	Nil	3/2023	Other than PRS

3	Tengpora, Srinagar	6.0	50%	Nil	3/2022	Other than PRS
4	Charar-i-Sharief, Kashmir	2.0	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	3.0	25%	**House sewer connections (In Nos.)** Target=5550 Achieved=Nil	12/2022	Other than PRS
	Details of Under Construction STPs pertaining to Jammu Dev. Authority					
01	JDA Flats at Muthi Jammu	01	JDA Flats at Muthi Jammu	01	JDA Flats at Muthi Jammu	01
02	General Bus Stand cum Shopping Complex , Jammu	02	General Bus Stand cum Shopping Complex , Jammu	02	General Bus Stand cum Shopping Complex , Jammu	02

Annexure-I

(D) 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	DPRamounting 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	Administrative approval / Financial concurrence from GOI is awaited.
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	2 years after sanction of Project	PRS Basanter

			Government2020& communicated by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021		
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 Cr. 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:11.12.20202020& 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 Cr.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:11.12.20202020& 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	DPRsVetted by DCW and Submitted to Govt for accord of Administrative Approval.	3 years after sanction of project	PRS Jehlum
16	Bijbehra, Town	3.0			PRS Jehlum

17	Awantipora	1.6			PRS Jehlum
18	Pampore	2.7			PRS Jehlum
19	Ganderbal	8.0		2 years after sanction of project	PRS Sindh
20	Sonamarg	1.0	DPR under check and revision	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	

i) 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-toEnergy 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 520 TPD waste is being dumped at the Achan Site. Out of 520 TPD waste, around 125 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 **540.560** MTs of plastic waste etc. at MRF upto September, 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 (in Bandhu rakh and operated by UNDP)	05 TPD	05 TPD
2	MRF 2 (In Bhagwati Nagar and operated by IPCA)	05 TPD	05 TPD
3	Composting / Bio Gas (Dogra Hall)	50 TPD	40 TPD

4. Urban Local Bodies, Jammu

The 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. 92.83 crores** for Jammu Division. The various components of the action plan and the steps taken for implementation of action plan on ground are enlisted as under:-

a. Streamlining collection and transport of garbage in the ULBs from individual households and commercial establishments is a component of the action plan. For this purpose the process of procurement of collection and transportation vehicles has already been initiated based on the quantity of waste generated and the current availability of C&T Vehicles. The exercise is likely to be completed by November, 2021.
b. Solid liquid Resource management Facilities with separate provisions for dry and wet waste management being established I 27 ULBs. These facilities would be used for segregation of dry waste into various categories for their scientific disposal.
c. To ensure that segregated waste is collected from household twin bins are being distributed amongst households in all ULBs of Jammu Division. The process of procurement of 79000 dustbins has already been started and in some ULBs the process of distribution of dustbins alongwith massive awareness campaigns in ULBs as part of the IEC action plan under SBM. It is expected that primary segregation at household level would improve in the coming months making processing of waste easier.
d. This process of establishing composting facilities in 27 ULBs has been initiated, the already available composting facility at Doda, Bhaderwah & Sunderbani is being upgraded according to the newer plan.
e. The process of establishment of land for sanitary landfill has also been initiated.
f. Legacy waste sites have been identified and the process of assessing the quantity of legacy waste for its treatment has already been completed for MCs of Katra, Kathua, Samba, Doda, Bhaderwah and Udhampur.

Waste to Energy (Tonnage and Power Output

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

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

There are 4 Municipal Committees viz. MC Doda, MC Bhaderwah, MC Katra 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. The process of establishment of SLRM Facilities with provision of wet waste management in 27 UlBs where land is available has also been initiated.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 1000 Kgs/day has been installed in Municipal Committee of Katra for composting of wet waste. It is planned to set up Solid liquid Resource Management centres with technologies for effective wet waste management shall be developed. Under the action plan, the ULBs where the land has already been transferred in favour of the concerned ULBs, the SLRM centres 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 including katra, Kathua and Udhampur

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 Solid Liquid Resource Management Centres with MRFs shall be established for segregation of re-useable waste and for scientific disposal of the waste which is non-recyclable. The Process of Setting up of SLRM facilities are already taken up. These SLRM 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 establishment of waste processing facilities for 36 ULBs of Kashmir Division on decentralized mode has already been approved by ULAC for an amount of Rs **191.66** Cr.
- The process of implementing the Action plan has been initiated in all the 40 ULBs which will result in 100% waste processing in all these ULBs.
- EoI for establishment of PMU for implementation of Approved Action plan has been floated.
- Procurement process for C&T infrastructure has been initiated through State Motor Garages.
- Procurement of dustbins have already been made in all the MC's of the Urban Local Bodies Kashmir.
- For scientific disposal of Legacy Waste, Contour Mapping has been done at three sites and the same is under process at two Sites. The same after completion shall be tendered out for Bio-remediation.
- Tendering process for establishment of Waste Management Centers as per the approved Action Plan has been initiated for four ULBs viz. Bijbehara, Shopian, Ganderbal and Bandipora, for remaining 36 ULBs, DPRs are under preparation.

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 upgradation 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.

3. Jammu Municipal Corporation

GAP = 343-50=293
JMC is in the process to setting up two Waste Processing facilities to fill the GAP between waste generation and waste processing. These

initiations have been taken by the JMC:

MSW Facilities	Capacity (TPD)	Technology	Status
Solid Waste Processing facility in Kot-Bhalwal (operated by NAFED)	350 TPD	Biogas , Composting and MRF Centre	MoU with NAFED signed on 07th April2021
Integrated Solid Waste Management Facility in Bandhu Rakh	125 TPD	Biogas , Composting and MRF Centre	L1 bidder has been selected & documents of L1 Bidder have been sent to Administrative approval

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

4. Urban Local Bodies, Jammu

- Action plan for establishment of waste processing facilities for 36 ULBs of Jammu Division on decentralized mode has already been approved by UT Level Apex Committee for an amount of Rs **90.84** Cr.
- The process of implementing the Action plan has been initiated in all the 36 ULBs which will result in 100% waste processing in all these ULBs.
- Requirement of vehicles from ULBs have already been received, proposal for purchase of vehicles placed with State Motor Garages.
- Combined RFP for collection, transportation, processing and disposal of waste for 9 ULBs for Bari Brahmana to Kathua Belt is being finalized, RFP to be floated by 11/10/2021.
  - 5000 Sq.Ft Solid Liquid Resource Management (SLRM) facility in 9 ULBs viz. Arnia, Katra, Bhaderwah, RS Pura, Kishtwar, Akhnoor, doda, Poonch & Reasi have been finalized, RFP for selection of vendor to be floated shortly.
  - 3500 Sq. Ft SLRM facility in 8 ULBs has been finalized (Ramban, Jourian, Batote, Billawar, Kalakote, Ramnagar, Sundarbani, Khour) ,RFP for selection of vendor to be floated shortly.
  - Discussion with UNDP is currently in progress for taking up creation and operation of SLRM/MRF facilities through their managing partners, Proposal to be received from UNDP.

- For Bio-remediation of legacy waste, contour Survey for 6 Sites completed (Kathua, Samba, Katra, Doda, Bhaderwah and Udhampur) have been completed.
- RFP for Dumpsite Remediation for Katra Municipal Committee for 82,000 Tonnes of legacy waste has been finalized.

EoI for Dumpsite Remediation of 6 Different Sites of Kathua, Samba, Udhampur, Doda, Baderwah finalized, RFP to be uploaded shortly.

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)	Most of the C&D Waste generated is being reused by the locals for filling of low lying areas. However, some MC's dipose off C&D waste by filling sanitary landfills. Moreover, Directorate of Urban Local Bodies, Kashmir has already notified three locations at Uranhall Anantnag, Shalkhud Sumbal and Sopore for dumping of C&D waste in compliance to the directions of the Hon'ble NGT and Solid Waste Management Rules, 2016.	The SMC is contemplating to set up **100 TPD capacity** 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**:- **01** Detailed Project Report of C&D waste processing facility prepared and sent to DCW for approval. **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**	90 % in all 35 Municipal Wards	**75(100%)**	**446**
no. of wards practicing segregation at source	**26**	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)	**45% Overall**	**233**

Annexure-V

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

As per the Action Plan, Waste Management Centres are to be established with the objective to put in place a system for door to door collection of solid waste from households and commercial establishments in DULBJ & DULBK and to practice scientific disposal of the same.

1. Urban Local Bodies, Jammu

WMCs for various towns of DULB (J) :

ULBs	Waste Generation Range	Proposed Capacity of WMC	No. of Centres per town
Thathri, Chenani	0-1 TPD	1 TPD	1
Ramban, Lakhanpur, Banihal, Jourian, Batote, Gho Manhasa	1-2 TPD	2 TPD	1
Thanamandi, Basholi, Billawar, Kalakote, Ramgarh, Ramnagar	2-3 TPD	3 TPD	1
Sunderbani, Surankote, Khour, Parole, Reasi, Vijaypur, Hiranagar	3-4 TPD	4 TPD	1
Arnia, Katra, Nowshera	4-5 TPD	5 TPD	1
Bishnah, Bhaderwah, Samba	5-6 TPD	3 TPD	2
Kishtwar, R.S.Pura, Bari-Brahmana	7-8 TPD	4 TPD	2
Akhnoor, Doda	~10 TPD	5 TPD	2
Poonch Rajouri	~14-15 TPD	5 TPD	3
Kathua	~ 30 TPD	5 TPD	6
Udhampur	~ 40 TPD	5 TPD	8

2. Urban Local Bodies, Kashmir

Similar to the DULB (J), different capacities of Waste Management Centre (WMCs) are proposed for various towns of DULB (K) based on their waste generation; i.e. 1 TPD, 2 TPD, 3 TPD, 4 TPD and 5 TPD. However due to sub-zero temperatures and even negative temperature range at some places, following models are proposed:

Model 1: (Towns with Biogas Plant as option for wet waste)

Towns based on this model are proposed to have Waste Management System with bio-methanation technique for wet waste processing and segregation & recycling for dry waste.

Part I:

Towns	Wet Waste Generation Range (2030)	Proposed Capacity of Biogas Plant	No. of Plants per Town
Pahalgam	~5 TPD	5 TPD	1
Kupwara	~ 8 TPD	4 TPD	2
Ganderbal	~ 9-10 TPD	5 TPD	2
Gulmarg	~ 3-4 TPD	5 TPD*	1
Kunzer	~ 0.5-1 TPD	1 TPD	1
Aishmuqam-Mattan	~ 4-5 TPD	5 TPD	1

Part II:

Similarly, following table shows the details for proposed WMCs (with dry waste processing only):

Towns	Dry Waste Generation Range (2030)	Proposed Capacity of WMC with Dry Waste Processing Only	No. of Centres per town
Pahalgam	~ 5 TPD	5 TPD	1
Kupwara	~ 8 TPD	4 TPD	2
Ganderbal	~ 9-10 TPD	5 TPD	2
Gulmarg	~ 3-4 TPD	-	-
Kunzer	~ 0.5-1 TPD	5 TPD*	1
Aishmuqam-Mattan	~ 4-5 TPD	5 TPD	1

Model 2: (Towns with Option of Aerated Pit Composting or OWCs):

Towns based on Model 2 are proposed to have Waste Management Centres with aerated pit composting technique 'or' organic waste converter for wet waste processing and segregation & recycling process for dry waste management.

ULBs	Waste Generation Range (2030)	Proposed Capacity of WMC	No. of Centres per town
Khanshaib	1-2 TPD	2 TPD	1
Frisal, Magam	2-3 TPD	3 TPD	1
Achabal, Langate, Chadoora, Wattergam	3-4 TPD	4 TPD	1
Beerwah, Kokernag, Uri, Devsar, Khrew, Qazigund	4-5 TPD	5 TPD	1
Charishairef, Yaripora	~ 6-7 TPD	3 TPD	2
Awantipora, Hajin, Handwara, Sumbal	~ 7-8 TPD	4 TPD	2
Seer-Hamdan, Tral, Pattan, Budgam	~9-10 TPD	5 TPD	2
Shopian, Pampore, Pulwama, Bijbehara, Dooru-Verinag,	~11-12 TPD	4 TPD	3
Kulgam	~15 TPD	5 TPD	3
Bandipora	~20-22 TPD	5 TPD	4

Model 3: (Towns with Option of Large Integrated Facility)

Following towns are proposed to be structured on large scale integrated facility because of the huge waste quantities:

Towns	Waste Generation Range (2030)	Proposed Capacity of Integrated Facility based on Windrow Composting and MRF	No. of Facility per town
Anantnag	~ 76 TPD	80 TPD	1
Baramulla-Sopore	~ 77 TPD	80 TPD	1

3. 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)

4. 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

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. However after approval of Solid Waste Management decentralized facility the problem regarding uncontrolled dumpsites will mitigate will be mitigate.	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:- 02** (Bhagwatinagar and Kothbalwal), with area as 32.50 acres and 12.50 acres respectively. Bhagwati Nagar (Qty, 120000 MT, Work start date: Oct-2020, Qty processed: 60000 MT Time Line: Dec-2021 Kotbhalwal Dumpsite 12.50, DPR sent to DCW for approval. Sanitary landfills: NIL (SLF construction is the part of development of Integrated Solis Waste management facility and MoU has been signed with NAFED)	Approx. 90.75 acres of land is being utilized in various ULBs as Garbage Dump sites.

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: 32.50 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	362.26	9	2 (Two Waste to compost plants at Pahalgam and Tangmarg ULB)	9 TDP	Solid Waste Management decentralized facilities for every ULB have already approved for an amount of Rs. 191.66 Crore by State Level Apex Committee of Swachh Bharat Mission held on 16.03.2021 under the chairmanship of Chief Secretary , J&K.
Srinagar Municipal Corporation	1	520 TPD	125 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**	**Enclosed as Annexure XY**		

Annexure-IX

Plastic Waste Management

	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 **31 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	• 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	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,	1. The Single use Plastic has been banned in all 40 ULBs. Awareness regarding hazardous effects of plastic is being imparted among general masses. 2. Frequent market checking is being conducted by Municipal Councils/Committees to eradicate the menace of plastic. 3. All ULBs has already advised to replace the single use plastic (bags) etc with

	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 than 24 rag pickers are segregating plastic waste from Municipal Solid Waste. From September 2018 to September 2021, the Rag Pickers have collected **540.560 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	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 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	Akhnoor and Bari Brahmana) have been identified for depositing e-waste for its proper disposal. 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.	eco-friendly material. 4. Plastic Waste Management Bye-Laws have been notified/ adopted by all 40 ULBs. 5. Special Task Force teams were constituted in all Municipal Councils/Committees of Kashmir Division to conduct raids in respective UlBs, seize the Single Use Plastic and impose fine on violators on daily basis. Moreover, waste management centers at every ULB have been approved under decentralized Solid Waste Management action Plan in which plastic waste is planned to be segregated for recycling / reuse.

	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 to install requisite machinery in their kilns besides sought clean, dusted and shredded RDF from the Corporation.	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 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		

	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 **43.88** Qtls of banned polythene within the limits of Srinagar City and realized Rs. 5,71,600/- as fine from the defaulters in **296** anti-polythene drives. The SMC has also constituted a squad to check the polythene menace in the city.	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.STPs (Achievement of 18% in civil works) STP-1: The work of construction of SBR Tanks, Grit Chamber, HT Room, Admin Block, Sludge holding tank, Blower Room, Breast wall is in progress. STP-2: The work of construction of SBR tanks is in progress. STP-3: The work of construction of SBR tanks & Chlorine contact tanks is in progress. 63.10 Km out of 124 Km Sewerage Network completed (51.00 %)
2.	**Banganga, Holy**	Pony Shed to	a. Untreated Solid and Liquid	**7(Nos.)drains** from Pony Shed to	i) DPR amounting Rs.95.69Crs

	Stream,Katra	Bathing Ghat, Banganga, Katra	waste disposal from pony sheds. b. Untreated sewage from nearby localities/ establishments. c. Unabated disposal of Municipal Solid Waste. d. Sewage Pollution from minor/major establishments	Bathing Ghat, Banganga, Katra i.Nallah 1 ii.Nallah 2 iii.Nallah 3 iv.Nallah 4 v.Nallah 5 vi.Nallah 6 vii.Nallah 7	presently with NRCD after having been received from IIT (Roorkee) post clarification of 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.Gujjarnagar 6 vii.Gujjarnagar 5 viii.Gujjarnagar 4 ix.Gujjarnagar 3 x.Gujjarnagar 2 xi.Gujjarnagar 1 xii.Gujjarnagar main xiii.Jogi Gate xiv.Prem Nagar xv.Christian Colony nallah	a) Construction of 4 MLD STP at Belicharana based on SBR technologyis under execution and the civil structures in this sub project are 95% complete and Machinery & Equipment- Procurement 100% and installation work 100% completed. b) DPR for Pollution abatement of river Tawi (right bank)atJammu 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 Rs51.67 Cr.** for Construction of 4MLD STP Sewerage Treatment Plant with complete sewerage network for treatment of 5No: Nallah on left side

				xvi.Qasim Nagar xvii.Reharinallah 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	Tawi River Jammu Work in progress & shall be completed by 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.
5.	**River Chenab, Akhnoor**	JalPatan (JioPota) to Pargwal at	a. Disposal of Untreated Sewage Waste into River Chenab. b. Unabated Disposal of	**3 Nos. drains** i.BabaJitto Nallah	i)DPR amounting Rs.123.21 Crsubmitted to **NRCD** for consideration/release of funds but due to budgetary limitations they requested to mobilize

		Akhnoor	Municipal Solid Waste c. Un-authorised dumping of Construction and Demolition Waste. d. Pollution from minor/major establishments.	ii.Nallah near Guruduwara iii.Ward No.10 Nallah	necessary financing from own resources of J&K UT or under different program of Government. ii)Landdocuments for 1 No.STPof capacity 5 MLD received. iii)Acquisition for of 7 Nos IPS are under process
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.
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	**<u>Jhelum</u>** **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
4	**Sindh**	Along Duderhama (Ganderbal)	c) Discharge of un-treated sewage . d) Unauthorised dumping of Municipal Solid Waste.	13 (No.) drains	**DPR for an amount of Rs 105.02Cr.** submitted to Administrative Department for Accord AA & necessary authorization vide Chief Engineer JKUEED No:CE/UEED/TS/379-82 dated 12/11/2020
5	**Bio-remediation for treatment of wastewater flowing through drains/Nallahs outfalling into**	Interim measure to control pollution of river stretches mentioned	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.

	rivers in Kashmir Region as identified by NGT for a period of 1yrs.	above under s.no-01 to 04in Kashmir Region			

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 are 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 28th July, 2021, 1034 trips (approx weight 1034 trips x 5 MTs = 5170 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. The SMC continues its Sunday4Srinagar programme and on every Sunday, bad spots, water bodies, water channels, wet lands are being cleared of the waste.

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. The SMC has also conducted cleanliness drives of the Hokarsar wetland from Zainakote area, Aliabad area and a massive waste clearance drive was scheduled on Sunday the 5th Sept., 2021 from Sozieth area of the wetland.