File No. FST/Lit/14/2021-02-Forest Department

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: **28**.03.2022.

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 **February, 2022.**

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 **Febrary, 2022** for favour of information and further necessary action. The data in the MPR has been compiled after receiving inputs from Housing and Urban Development Department (Urban Local Bodies, Municipal Corporations, UEED), Industries & Commerce Department, Geology Department, Jal Shakti Department and J&K Pollution Control Committee.

Yours faithfully,

Deputy Secretary (Legal)
Forest, Ecology & Environment Department.

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 **February, 2022**.
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 February-2022
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	14
	• No. of Non-complying STPs	01 No. under Refurbishment
	Details of existing, under construction and proposed STPs given in **"Annexure-I(a)", Annexure-I(b)" and Annexure I(c) respectively.**	
IV	**Details of Industrial Pollution:-** • No. of Industries in the UT of J&K	a) Jammu = 4746 b) Kashmir = 5554 **Total = 10300**
	• No. of Water Polluting Industries in the UT of J&K	a) Jammu = 178 b) Kashmir = 104 **Total = 282**
	• Quantity of Effluent generated from the Industries in MLD	a) Jammu = 16.35 b) Kashmir = 5.7 **Total = 22.05*** * ***(Data of quantity of effluent generated from the industries is reconciled)***
	• Number of Industrial units having functional ETPs	a) Jammu = 172 b) Kashmir = 70 **Total = 242**
	• Compliance Status of the ETPs	**No. of industries operating without ETPs:** a) Jammu = 6 (closure proceedings initiated, notices issued) Kashmir = 34 (11- closure orders issued. (23- closure proceedings initiated) **Total = 40**

<table>
<tr><td></td><td>• Number and total capacity of Existing CETPs</td><td>a) Jammu = 10
b) Kashmir = 8
<u>Total = 18</u></td></tr>
<tr><td></td><td colspan="2">Status of compliance and operation of the CETPs</td></tr>
<tr><td></td><td>Industrial discharge</td><td>14 MLD</td></tr>
<tr><td></td><td>Status of ETPs</td><td>Functional: 242 MLD
Without ETP: 40 MLD</td></tr>
<tr><td></td><td colspan="2">Status of CETPs
<table>
<tr><th>Existing</th><th>Under Construction</th><th>Proposed</th></tr>
<tr><td>6</td><td>5</td><td>10</td></tr>
<tr><td>a) Ghatti,Ph-I = 0.45 MLD
b) IGC Samba, P-I = 1.0 MLD
c) IGC Samba, P-II= 1.0 MLD
d) IGC Samba, P-II= 0.5 MLD
e) IGC Samba, P-III= 0.5 MLD</td><td>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</td><td>a) EPIP Kartholi = 0.5 MLD</td></tr>
<tr><td>IGC Lassipora Khanmoh, Srinagar =0.6 MLD</td><td></td><td>a) Electronic Complex, Rangreth
Ph-I = 1MLD
b) Food Park, Doabgah, Sopore, Ph-I = 0.30 MLD
c) Ind. Estate, Shalteng = 0.30 MLD
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 = 3x0.50 MLD</td></tr>
</table></td></tr>
<tr><td>V-</td><td>Solid Waste Management</td><td></td></tr>
<tr><td></td><td>Total number of Urban and Local Bodies and their Population</td><td>76 Urban Local Bodies and 02 Municipal Corporations.

JMC = 710217 (2021)
SMC = 11.92 lacs as per 2011 census, as on date 15.50 lacs approx
ULBs Jammu = 392585 (36 ULBs)
ULBs Kashmir = 835049 (40 ULBs)</td></tr>
<tr><td></td><td>• Current Municipal Solid Waste Generation</td><td>Jammu MC: 501 TPD (364 MSW)

Srinagar MC: 520 MTPD
ULBs- Jammu: 230 MTPD

ULBs-Kashmir: 384 TPD</td></tr>
</table>

	• 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(a)**	
	• **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**	Details given in **Annexure-II(b)**	
	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	1085	Details given in **Annexure-IV**
	No. of wards practicing segregation at source	301	
	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.	

	Total MSW generation in TPD	**1499 TPD**	Details given in **Annexure – VIII**
	Total MSW being processed in TPD	**291.06 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 February-2022**	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 c) Jammu = **9074.235** Kg/Month d) Kashmir = **63478.019** Kg/Month **Total= 11552.254 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 = **1182.34235** MT / Annum. b) Kashmir=**170.00** MT/Annum. **Total = 1352.34235 MT/Annum**	
	No. of Industries generating Hazardous waste	Jammu = **231** Kashmir = **11** **Total = 242**	
	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.	

<table>
<tr><td rowspan="3">VIII</td><td><u>Plastic Waste Management:</u>
Total Annual Plastic Waste generation in J&K</td><td>• 21527 MT/Annum (app.), with monthly average of 1794 MT (app.)</td></tr>
<tr><td>Seizure done
(April 2021 to February-2022)</td><td>a) Polythene = 25270.30 kg.
b) SUP = 1568.30 kg.
Total = <u>23838.60 kg.</u></td></tr>
<tr><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>
</table>
</td></tr>
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River Chenab at Akhnoor	a) Disposal of Untreated Sewage Waste into River Chenab. b) Unabated Disposal of Municipal Solid Waste. c) Un-authorized dumping of Construction and Demolition Waste.
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 Geeta Mandir:- 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) Mandi Floura Nallah ii) Argi Nallah	**(3.5 MLD)** 2.5 1.0
5.	**River Chenab at Akhnoor**	No. of drains = **3** i) Baba Jitto Nallah 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 February-2022

# No	Polluted River Stretch	Water Quality Analysis, February-2022							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)	3.3	16.3	8.20	340	348	1000	
		b) About 2Km (D/S) Shiv Mandir (Stn.code 4062)	1.9	9.3	8.54	300	320	1200	
		c) About 10Km (D/S) Shiv Mandir (Stn.code:4063)	1.8	8.9	8.27	280	300	1000	
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)	1.9	9.7	8.46	216	236	1800	
		b) In front of pony shed (Stn.code2756)	2.0	10.8	8.54	224	228	1500	

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	2.8	14.2	8.50	186	216	1100	
		ii)Bhagwati Nagar-2745	5.5	28.2	8.65	210	236	2300	
		iii)Beli Charana-2746,	1.2	7.0	8.47	192	220	800	
		iv)Surajpur-2747	1.1	5.3	8.20	184	216	1100	
		v)Bhagwatinagar 1 Km,D/S below STP discharge point at Bhagwati Ngr-4055	7.0	39.0	8.65	254	248	1900	
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)	1.8	9.1	8.20	312	328	1600	
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)	**1.0**	**2.5**	**7.86**	**112**	**92**	**1700**	
6	River Chuntkol (A tributary of Jhelum	**NWMP Monitoring Sites/ Station Code**	**BOD**	**COD**	**pH**	**DO**	**Coliforms count after 24 Hrs. (CFU/100ml)**		NA
		a) NWMP sanctioned location(1307)	3.2	30.4	7.50	5.5	1870		
7	River Gowkadal (A tributary of Jhelum)	**NWMP sanctioned site**	**BOD**	**COD**	**pH**	**DO**	**Coliforms count after 24 Hrs. (CFU/100ml)**		NA
		Gowkadal ,Station Code (1306)	3.1	27.2	7.51	8.3	1060		

	8	**River Jhelum at Srinagar (Anantnag to Chhatabal Weir)**		**NWMP/PCB Monitoring Sites** with Sanctioned Station Code	**BOD**	**COD**	**pH**	**DO**	**Coliforms count after 24 Hrs. (CFU/ 100ml)**	**NA**
				at:- i) Anantnag (1304)	2.9	36.2	7.70	8.9	930	
				.ii) Batingon, **(PCB Site)**	3.9	43.5	7.50	7.8	800	
				iii) Bijbehhara(4053)	2.5	28.9	7.52	8.0	820	
				iv)Sangam U/S (3273)	2.4	28.9	7.55	8.0	840	
				v) Sangam D/S, (**PCB Site)**	3.0	36.2	7.48	8.9	950	
				vi) Awantipora (3274)	3.1	36.2	7.69	9.3	700	
				vii) Pampore (3275)	3.4	36.2	7.50	9.4	850	
				viii) Panthachowk (4054)	3.0	43.5	7.46	9.9	900	
				ix) Pandarathan (**PCB Site)**	2.4	21.7	7.49	9.4	865	
				x) Zero Bridge(1410)	2.7	24.0	7.58	8.0	1440	
				xi) Chattabal Weir (1411)	3.1	28.8	7.56	6.8	1750	
	9	**River Sindh at Ganderbal ,Srinagar**		**NWMP monitoring sites**	**BOD**	**COD**	**pH**	**DO**	**Coliforms count after 24 Hrs. (CFU/ 100ml)**	**NA**
				a)Dodherhama, Station Code (3286)	1.1	14.2	7.77	9.0	-	

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	Following practices are adopted: • Controlling and channelizing the canals and collecting the surface run-off water. • Ensuring adequate supplies at tail end of the distribution system. • Minimizing the closure period of canals to the bare minimum from time to time and to minimize carriage losses.
XVI	Rain Water Harvesting	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 already constructed in Kupwara/Handwara and Budgam. 02 Storage tanks with capacity of 25.5 Ha Mt completed during 2020-21. Moreover, 10 and 33 water storage schemes are under execution at present in Kashmir region under PMKSY and Languishing Programme. It is pertinent to mention that Hon'ble Prime Minister of India has launched Jal Shakti Abhiyan under the tag "Catch the Rain" (CTR) Campaign on World Water Day celebrated on 22nd of March, 2021 whereunder various activities are being carried out to conserve rain water across the country. In the UT of J&K also various activities are under way. A provision for rain water harvesting is being incorporated in building permissions issued by Srinagar Municipal Corporation in accordance with the order No. 269 of 2020 dated 11/2/2020.
XVII	Demarcation of Flood plain and removal of illegal encroachments	The Water Resource Regulatory Authority is in a process of notification of low lying areas or areas susceptible to floods by inundation, as flood basin under Section 75 and section 76 of Water Resource Management and Regulation Act. The draft proposal has been forwarded to Water Regulatory Authority (WRRA) for notification of flood plains, and regarding the status/details in respect 7 No water bodies/low lying areas namely Hockersar Lake, Nowgam Lake, Hygham Lake, Narkara Numbal, Anchar Lake, Wullar Lake and Left side of River Jehlum from Sangam to Padshaibagh with important land marks along with latitude and longitude forming the boundaries of flood plain and classification of land, the matter stands taken up with Divisional Commissioner Kashmir. Besides under World Bank funded PMU Jammu Tawi Flood Recovery Project (JTFRP) the verification of flood plains is being studied through international consultancy M/S Eptisa Ltd. A preliminary study in this matter has been carried out, however due to the use of coarse resolution of the DEM (Digital Elevation Model) at present, the same is being fine-tuned by them. This study will confirm the flood plains as well as inundation depths. Removal of encroachments is a continuous process

<table>
<tr><td></td><td></td><td>and on the direction of Hon'ble High Court in the PIL titled Noorul-Haq V/s State of J&K, the Department with an active support of District Administration is removing the encroachments on the banks of River Jhelum and other water bodies after proper demarcation and identification by Revenue Authorities. As on date the department has removed 2540 Kaccha and Pacca structures 1871 Boundary walls from River Jhelum and other water bodies.</td></tr>
<tr><td>XVIII</td><td>Maintaining minimum e-flow of river</td><td>There are no storage reservoirs on the River Jhelum, so the minimum environmental flow is assured at all times. The department has a regulating structure 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.

I&FC Department Jammu is taking consultation of Central Water Commission to regulate minimum e-flow wherever storage schemes on rivers are planned in Jammu Province.</td></tr>
<tr><td>XIX</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>
</table></td></tr>
</table>

	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

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

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

Location / Rivers	Priority	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	(i)	Zone 1-8.0MLD Zone-2-4.0MLD Zone-3-1.6MLDTotal =(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	(i)For STP and Sewerage Network work =June-2022 (ii)For Ghat Work =completed	Work of SewerLaying ,STP Zone 1, II, III &Ghat are in Progress.

				completion For STP and Network work(original)= May 2021. (v) Date of completion For Ghat work (original)= June 2020.		
	Banganga, Holy Stream, Katra	(ii)	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	(iii)	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)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
	<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:-**

	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.33,436/-	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**	i. Rs. 2,00,00,000/- ii. Rs. 0.58 Cr.	i. 50 JK PCB of 2021, dt: 24/03/2021. ii. 09 JK PCC of 2021 dt. 08/09/2021
17	**M/s Hotel Baisaran Pahalgam, Anantnag**	Rs. 6,855/-	51 JK PCB of 2021, Date: 29/03/2021
18	**M/s Gammon Engineeering and Contractors Pvt. Ltd. (Mobile Stone Crusher) at Dhalwas, Ramban**	Rs. 1,08,000/-	03-PCC of 2021 dt. 30.07.2021
19	**M/s Choudhary Jagar Singh Contractions Pvt. Ltd. (Stone Crusher) Village Famrote, Sangaldan Barala Road, Gool Ramban**	Rs. 2,60,400/-	04-PCC of 2021 dt. 30.07.2021
20	**M/s TRG Industries Pvt. Ltd. Stone Crusher, Jowahri Hadog- Sumber Road**	Rs. 1,54,000/-	05-PCC of 2021 dt. 30.07.2021
21	**M/s TRG Industries Pvt. Ltd. Hot Mix Plant, Jowahri Hadog- Sumber Road**	Rs. 1,54,000/-	06-PCC of 2021 dt. 30.07.2021
22	**M/s Milith Karv Engg, & Trading Pvt. Ltd. (Stone Crusher)** . Dhandrath, Sildhar, Ramban	Rs. 2,60,400/-	07-PCC of 2021 dt. 30.07.2021
23	**M/s Milith Karv Engg, & Trading Pvt. Ltd. (Hot mix Plant)** Dhandrath, Sildhar, Ramban.	Rs. 2,60,400/-	08-PCC of 2021 dt. 30.07.2021
24	**M/s New Natraj Hotel, Bus Wtand Katra, Distt. Reasi**	Rs. 9,612/-	10-PCC of 2021 dt. 03.12.2021
25	**M/s Hotel Krishna bus stand Katra, District Reasi**	Rs. 9,842/-	11-PCC of 2021 dt. 03.12.2021
26	**M/s Anil guest House Ward No. Tea Garden Katra, Distt. Reasi**	Rs. 2,19,348/-	12-PCC of 2021 dt. 03.12.2021
27	**M/s National Guest house, Katra distt. Reasi**	Rs. 10,137/-	13-PCC of 2021 dt. 03.12.2021
28.	**M/s Hotel Shree Hari Niwas Katra Distt, Reasi**	Rs. 11,639/-	14-PCC of 2021 dt. 03.12.2021
29	**M/s Hotel Pream International Katra Distt. Reasi**	Rs. 11,232/-	15-PCC of 2021 dt. 03.12.2021
30	**M/s Buther construction Stone Crusher, Rakshalina Lasjan Budgam**	Rs. 19,200/-	16-PCC of 2021 dt. 03.12.2021
31	**Executive Officer, Municipal Council Kathua**	Rs. 82,40,000/-	17-PCC of 2021 dt. 03.12.2021
32	**M/s Simm Samm Hotel, Reasi Distt. Katra**	Rs. 15,150/-	18-PCC of 2021 dt. 03.12.2021

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Annexure-I(a)

(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	PRS (Refurbishment of 10 MLD STP at Jammu expected to be completed by June 2022)
	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 ControlofShriMata 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(b)

(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	100%	**House sewer connections** **(In Nos.)** Target=4929	Completed	i. STP 100% completed. ii. House connections proposed under State Capex
(b)	Sewerage Network & IPSs		a.Trunk Sewer =58.40% b.Lateral= 66% c.IPS= 02 out of 03 Nos. in Progress	**Proposed under State Capex**		DPR Revised due to change of alignment for Trunk due to proposed development of Tawi Water Front Laying of Sewerage Network in progress Trunk Sewer 3.2 Km out of 5.48 Km laid ii) Lateral = 24.10 Km out of 36.55 Km completed proposed iii) 3 No. IPS work in progress.
In Udhampur District						
2	Baryal, Distt. Udhampur	8	**23%**	**House sewer connections** **(In Nos.)**	06/2022	**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.

				Target=13460 Achieved=Nil		
3	Omara, Distt. Udhampur	4	12.0%	**House sewer connections** **(In Nos.)** Target=6632 Achieved=Nil	06/2022	**STP-2:** The work of construction of SBR tanks is in progress.
4	Pitan, Distt. Udhampur	1.6	17.0%	**House sewer connections** **(In Nos.)** Target=2724 Achieved=Nil	06/2022	**STP-3:** The work of construction of SBR tanks & Chlorine contact tanks is in progress.
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	84%	**House sewer connections(In Nos.)** Target=16139 Achieved=5306	6/2022	Other than PRS Under NBCC
2	Rajbagh, Srinagar	2.21	**25%(Civil works)**	Nil	3/2023	(Work was stopped by revenue Deptt & it was resumed in 1st week of October) Other than PRS
3	Tengpora, Srinagar	6.0	28%(civil works)	Nil	3/2023	Other than PRS
4	Charar-i-Sharief, Kashmir	2.0	12% (civil works)	**House sewer connections (In Nos.)** Target=3300 Achieved=Nil	3/2023	Other than PRS
5	Baramulla	3.0	31%	**House sewer connections (In Nos.)** Target=5550 Achieved=Nil	03/2023	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 Multi level Car parking Cum Commercial Complex , at Jammu	240 KLD	**100%**	**For** General Bus Stand cum Multi level Car parking Cum Commercial Complex , at Jammu	**completed**	**Operation/commissioning and testing of the STP shall be done upon the availability of minimum Daily Demand of 90 KLD.**

Annexure-I(c)

(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 still 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 still 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 Government2020& communicated by them vide their office No: J-24023/3/19-NRCD-II dt: 15-01-2021	2 years after sanction of Project	PRS Basantar (Project Approved under State Capex)
5	Akhnoor Town	5.0	DPR amounting Rs.123.21 Cr submitted to **NRCD** for consideration/release of funds but	2 years after sanction of Project	PRS Chenab (Project Approved under State Capex)

			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		
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 (Project Approved under State Capex)
7	Hiranagar Town	2.5+1.5=4	96Cr(approx.)Proposed SBR Technology	2 years after sanction of Project	Other than PRS Septage Treatment Capacity = 40 KLD Cost= 422.35 lacs
8	Vijaypur Town	3+4=7	145 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS Septage Treatment Capacity = 40 KLD Cost =422.35 lacs
9	Bari Brahmana Town	2.5+3.5=6	135 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS Septage Treatment Capacity = 80 KLD Cost =543.31 lacs
10	Arnia Town	2.5+1.5=4	94 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS Septage Treatment Capacity = 40 KLD Cost =422.35 lacs
11	R.S.Pura Town	2.5+3.5=6	138 Cr(approx.) Proposed SBR	2 years after sanction of Project	Other than PRS

			Technology		Septage Treatment Capacity = 45 KLD Cost =472.51 lacs
12a	Bishnah Town	2+2.5=4.5	98 Cr(approx.) Proposed SBR Technology	2 years after sanction of Project	Other than PRS Septage Treatment Capacity = 40 KLD Cost =422.35 lacs
12b	Basoli Town			1years after sanction of Project	Septage Treatment Capacity = 10KLD Cost =422.35 lacs
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 (AA from UT Administrative council awaited)
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 (AA from UT Administrative council awaited)
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 (AA from UT Administrative council awaited)
16	Bijbehara, Town	3.0			PRS Jehlum (AA from UT Administrative council awaited)
17	Awantipora	1.6			PRS Jehlum (AA from UT Administrative council awaited)
18	Pampore	2.7			PRS Jehlum (AA from UT Administrative council awaited)
19	Ganderbal	8.0		2 years after sanction of project	PRS Sindh (AA from UT Administrative council awaited)
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(a)

- **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**

- **Jammu Municipal Corporation**

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

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. 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.

ii) 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 **592.728** MTs of plastic waste etc. at MRF upto Feb., 2022.

Urban Local Bodies, Jammu

<table>
<tr><td>Waste to Energy (Tonnage and Power Output)</td><td>NIL</td></tr>
<tr><td>Compost plants (Windrow, Vermi, decentralized pitcomposting),</td><td>
<table>
<tr><th>ULB Name</th><th>Technology</th><th>Capacity in TPD</th><th>Utilization in TPD</th></tr>
<tr><td>MC Doda</td><td>Vermi Composting</td><td>5</td><td>5</td></tr>
<tr><td>MC Bhaderwah</td><td>Vermi Composting</td><td>3</td><td>3</td></tr>
<tr><td>MC Sunderbani</td><td>Vermi Composting</td><td>1.5</td><td>1.5</td></tr>
<tr><td>MC Katra</td><td>OWC (Mechanized Composting</td><td>200 Kg/Day</td><td>200 Kg/Day</td></tr>
<tr><td>MC Udhampur</td><td>Aerobic Windrow</td><td>1</td><td>1</td></tr>
</table>
Note:- 6 Ton of Wet Waste of Katra Municipal Body goes to Animal Feeding (Goushal)

The plan for under construction and proposed facilities are provided in the next section</td></tr>
<tr><td>Bio-methanation</td><td>NIL</td></tr>
<tr><td>MRF

(Material Recycle Facilities)</td><td>
<table>
<tr><th>ULB Name</th><th>Technology</th><th>Capacity in TPD</th><th>Utilization in TPD</th></tr>
<tr><td>MC Katra</td><td>Manual

MRF</td><td>5</td><td>5</td></tr>
<tr><td>MC Udhampur</td><td>Manual MRF</td><td>10</td><td>10</td></tr>
</table>
However, ragpickers are involved in each of the ULBs which are involved in secondary segregation and recycling of high valuable dry waste through the Kabadi walas.

The plan for under construction and proposed facilities are provided in the next section</td></tr>
</table>

4. Urban Local Bodies, Kashmir	
Waste to Energy (Tonnage and Power Output),	**0**
Compost Plants (Windrow, Vermi, decentralized pit composting),	**Plants 02 (09 TPD Capacity)**
Biomethanation, MRF etc	**NIL**

Annexure-II(b)

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

1. Jammu Municipal Corporation

GAP = 364-50=314

JMC is in the process to setting up two Waste Processing facilities to fill the GAP between waste generation and waste processing. These initiatives 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 110 Kannals has been allocated. Boundary and construction work has been started by NAFED.
Integrated Solid Waste Management Facility in Bandhu Rakh	125 TPD	Biogas , Composting and MRF Centre	L1 bidder has been selected & accorded the approval from UT Level Contract Committee on 29.11.2021

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.

1. Urban Local Bodies, Jammu

Annexure "XI"

2. Urban Local Bodies, Kashmir

Action Plan for decentralized Solid waste Management 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.

Annexure-III

Points	Jammu Municipal Corporation.	Srinagar Municipal Corporation	Urban Local Bodies Jammu	Urban Local bodies Kashmir
No. and capacity of C&D waste processing plants in TPD **(existing, proposed and under construction)**	**Existing facilities**: No Existing facility, However Only collection centre available at Bhagwati Nagar site. **Proposed facilities**:- **01** Technical vetting of DPR of C&D waste processing facility has been approved by Development Commissioner (Works) and tender preparation is under progress. **Facilities under construction**:- Nil	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.	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 is under implementattion, the sanitary landfill 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.	02 Proposed. (Uranhall, Anantnag and Shalkhud, Sumbal)

Annexure-IV

Points	Jammu Municipal Corporation.	Srinagar Municipal Corporation	Urban Local Bodies Jammu	Urban Local bodies Kashmir
Total no. of wards,	**75 wards**	**35**	**446**	**529**
no. of wards having door to door collection	**75(100%)**	100%	**100%**	**529**
no. of wards practicing segregation at source	**40% Overall**	08	**233**	**32**

Annexure-V

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

1. Jammu Municipal Corporation

Name of MSW treatment Facility	Status	Capacity (TPD)	Technology	Time Line
ISWM Bandhu Rakh	Proposed	125	Composting, Biogas, and MRF centers	March 2024
Solid Waste Processing facility in Kot-Bhalwal	Proposed	350	Bio-gas, Composting & MRF Centre	March 2024

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 74 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.

To implement the said Action Plan following has been done:

Under Ground Bins:

Tenders through MED Kmr. floated.

Garbage Transfer Stations:

Tenders for 3 Stations already floated. Bids received. Bids under technical/financial evaluation.

Incinerators:

Tenders for animal carcass incinerator floated through MED Kashmir.

Hoopers/LCVs:

Supply order for supply of 100 Nos. of LCVs already issued by MED Kashmir. Supply expected by ending March 2022.

Tractors for snow clearance:

Supply of 8 tractors received. Further supply of 35 Nos. expected by Mid March 2022.

Air Quality Monitoring system:

Tendering done. Bids received. Bids under technical/financial evaluation. To be set by March 2022.

Vacuum Cleaning Vehicles:

Tendering done. Bids received. Bids under technical/financial evaluation. Supply expected by March 2022.

Water Sprinklers:

Tendering done. Bids received. Bids under technical/financial evaluation. Supply expected by March 2022.

Colour Coded Litter/Dust bins:

Tendering done. Bids received. None of the participant bidder found eligible. Tenders to be floated afresh by 5/3/2022.

Personal Protection Equipment:

Uniform including gloves, goggles, masks, rain coats, pent/shirt, frock/shalwar, boots for Safaiwalas already ordered. 70% supply received.

Construction of landfill Cell No: IV

Tendering process already done. Proposal for Adm. Approval submitted to H&UDD. File presently with GAD for SAC approval

3. Urban Local Bodies, Jammu

As per the action plan the process of establishment of Solid Waste Management Facilities has been initiated in 27 ULBs.

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.

4. Urban Local Bodies, Kashmir

06 No. Biogas Plants : 33 TPD
06 No. of WMCS for dry waste : 33 TPD
30 Nos Aerated pit composting : 233 TPD
02 Nos Integrated facility : 80 TPD each.
Procurement of Collection vehicle, Handcart with segregated bin, tricycles to achieve 100% door to door collection and segregation for all urban local bodies has been completed and the first lot of vehicles has been received and will be handed over to respective ULBs. Besides, the establishment of WMCs is under process i.e. out of 40 ULBs, 26 have prepared DPRs of which 03 have been tendered (2 alloted –Ganderbal and Chadoora) while 14 DPRs are under process. In December, 2022 establishment of WMCs will be completed. The PMU (Project Management Unit) for Solid Waste Management facilities at Directorate of Urban Local Bodies, Kashmir. 28829 dustbins have been procured by all ULBs for an amount of Rs. 119.92 lacs.

Annexure-VI

<table>
<tr><th>Points</th><th>Jammu Municipal Corporation.</th><th>Srinagar Municipal Corporation</th><th>Urban Local Bodies Jammu</th><th>Urban Local bodies Kashmir</th></tr>
<tr><td>No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.</td><td>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: 90000 MT
Time Line: March 2022
Kotbhalwal Dumpsite, area is 12.50 acres, DPR sent to DC (Works) for vetting.
Sanitary landfills: NIL (SLF construction is the part of development of Integrated Solis Waste management facility and MoU has been signed with NAFED)</td><td>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.</td><td>Approx. 90.75 acres of land is being utilized in various ULBs as Garbage Dumpsites.

<table><tr><th>Site</th><th>Quantum of Legacy Waste</th></tr><tr><td>Katra</td><td>65,000 MT</td></tr><tr><td>Kathua</td><td>50,000 MT</td></tr><tr><td>Samba</td><td>16500 MT</td></tr><tr><td>Udhampur</td><td>15000 MT</td></tr><tr><td>Bhaderwah</td><td>1000 MT</td></tr><tr><td>Doda</td><td>7500 MT</td></tr><tr><td>Total</td><td>1,55,000 MT</td></tr></table>
Tendering for Katra has already been done and bid will be opened and LOA will be issued shortly.</td><td>17 numbers

28.26 Acres</td></tr>
</table>

Annexure-VII

Points	Jammu Municipal Corporation.	Srinagar Municipal Corporation	Urban Local Bodies Jammu	Urban Local bodies Kashmir
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Bhagwati Nagar Dumpsite area 32.50 acres (Qty, 120,000 MT, Work start date: Oct-2020, Qty processed: 90000 MT Time Line: March 2022	None, In the buffer within 1 KM of rivers	NIL	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	No. of drains falling into rivers: 26 No. of drains installed screens: 0	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.	NIL	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
Jammu Municipal Corporation.	1	364 TPD	60 TPD	03	60-70%	-
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.
Urban Local Bodies Jammu	36	**230TPD**	**68.02** (through recyclers)	Details of ULB wise status for Directorate of Urban Local Bodies, Jammu is enclosed as Annexure **"XI"**		
Urban Local bodies Kashmir	40	384	38.04	2 (Two Waste to compost plants at Pahalgam and Tangmarg ULB)	38.04 TDP	06 number of Bio gas Plants : 33 TPD 06 Number of WMCs for dry waste: 32 TPD 30 number Aerated pit composting :233 TPD 02 Integrated facilities: 80 TPD each the establishment of WMCs is under process i.e. out of 40 ULBs, 26 have prepared DPRs of which 03 have been tendered (2 allotted – Ganderbal and Chadoora) while 14 DPRs are under process. In December, 2022 establishment of WMCs will be completed

Annexure-IX

Plastic Waste Management

	Jammu Municipal Corporation	**Srinagar Municipal Corporation**	**Directorate of Urban Local Bodies, Kashmir.**
Total - waste generation.	40 TPD	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.	**48.04 TPD**
Treatment/Measures adopted for reduction or management of plastic waste.	• 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 rule 2016. • JMC ensuring segregation, collection, storage, transportation, processing and disposal of plastic	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 than 24 rag pickers are	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. ULBs have conducted 272 Anti Plastic drives w.e.f. April to February 2022 to eradicate the menace of plastic. 3. All ULBs has distributed the eco friendly material viz Jute bags as a replacement to plastic (bags) among inhabitants and also continuous awareness regarding hazardous of polythene/plastic through IEC activities are being

	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 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	segregating plastic waste from Municipal Solid Waste. From September 2018 to Feb-2022, the Rag Pickers have collected **592.728 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 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 <100 microns thickness, the SMC from Jan-2018 has	conducted for mass consciousness of general public. 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. A total of 2282 KG polythene has been seized and RS. 374360/- as fine has been imposed against the defaulters since April 2021 to February 2022 6. ULBs have engaged 107 eco guards (rag pickers) in order to channelize the plastic waste to small scale industries and process of registering more rag pickers is under progress. 7. Moreover, waste management centres at every ULB have been approved under decentralized Solid Waste

	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	seized and destroyed **4838 Kgs** of banned polythene within the limits of Srinagar City and realized Rs. 7,07,100/- as fine from the defaulters in **353** anti-polythene drives. The SMC has also constituted a squad to check the polythene menace in the city.	Management action plan in which plastic waste is planned to be segregate for recycling/reuse.

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 37% 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. Civil works = 46% **STP-2:**The work of construction of SBR tanks is in progress. Civil works = 23% **STP-3:** The work of construction of SBR tanks & Chlorine contact tanks is in progress. Civil works = 34% 72.0 Km out of 124.0Km Sewerage Network completed (58.00%)
2.	**Banganga, Holy**	Pony Shed to Bathing Ghat,	a. Untreated Solid and Liquid waste disposal from pony	**7(Nos.)drains** from Pony Shed to Bathing Ghat, Banganga, Katra	i) DPR amounting Rs.95.69Crs presently with NRCD after

	Stream,Katra	Banganga, Katra	sheds. b. Untreated sewage from nearby localities/ establishments. c. Unabated disposal of Municipal Solid Waste. d. Sewage Pollution from minor/major establishments	i.Nallah 1 ii.Nallah 2 iii.Nallah 3 iv.Nallah 4 v.Nallah 5 vi.Nallah 6 vii.Nallah 7	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. Dounthly Nallah ii. Jullaha Mohalla iii. Peerkho 1 iv. Peerkho 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 xvi.Qasim Nagar	a) Construction of 4 MLD STP at Belicharana based on SBR technologies under execution and the civil structures in this sub project are 100% 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.43.87 Cr submitted to **NRCD** forconsideration/release of funds vide letter no. HUD /Plan/16/2019/SP Dated:11.12.2020. c)Revised **DPR for an amount**

				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 Basti v.BikramChowk vi.Ware House	**of Rs51.67 Cr.** for Construction of 4MLD STP Sewerage Treatment Plant with complete sewerage network for treatment of 5No: Nallah on left side Tawi River Jammu Work in progress & shall be completed by 06/2022 , 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 RailwayBridge.	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 Akhnoor	a. Disposal of Untreated Sewage Waste into River Chenab. b. Unabated Disposal of Municipal Solid Waste	**3 Nos. drains** i). BabaJitto Nallah ii). Nallah near Gurudwara iii). Ward No.10 Nallah	i)DPR amounting Rs.123.21 Cr. submitted to **NRCD** for consideration/release of funds but due to budgetary

			c. Un-authorised dumping of Construction and Demolition Waste. d. Pollution from minor/major establishments.		limitations they requested to mobilize 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 from Tehsildar and lying with DDC Jammu 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**	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.

	NGT				
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 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. Every support is being given to the JK LCMA & 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 Conservation Management Authority (LCMA). The SMC is providing transportation and disposal/dumping facility to the LCMA against the nominal charges. SMC has put its transportation facility available to the LCMA at 02 spots at Near Welcome Hotel, Boulevard Road & Ranger Stop, where the waste collected by the LCMA 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 LCMA 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:

The SMC continues its innovative Sunday4Srinagar programme and on every Sunday, bad spots, embankments of water bodies, water channels, wet lands are being cleared of the waste.

4) Hokarsar wet land:

Regular sanitation drives are being conducted of the embankments of the Hokarsar wet land besides 100% door to door waste collection is being done to ensure no waste is thrown or dumped in the wet land.

Annexure XI

Status of ULB Wise Management of Solid Waste

Urban local bodies Jammu

ULB	Total MSW generation in TPD	Total Dry Waste in TPD	Total Wet Waste 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**	3.5	3.5	1.40 (through recyclers)	Initiated for 5 TPD MRF and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Jourian	**2.00**	1	1	0.40 (through recyclers)	Initiated for 2 TPD MRF Plant and 1 TPD Composting Unit	NIL	2 TPD MRF Plant and 1 TPD Composting Unit D.O.C: 31/01/2022
MC, Khour	**3.00**	1.5	1.5	0.60 (through recyclers)	Initiated for 3 TPD MRF Plant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Ghou-manhasan	**1.69**	1.4	1.4	0.34 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, R S Pura	**10.00**	5	5	2.00 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Bishnah	**3.00**	1.5	1.5	0.60	Land identification	NIL	Land identification

				(through recyclers)	currently in process		currently in process
MC, Arnia	**2.00**	1	1	0.40 (through recyclers)	Initiated for 2 TPD MRF Plant and 1 TPD Composting Unit	NIL	2 TPD MRF Plant and 1 TPD Composting Unit D.O.C: 31/01/2022
MC, Samba	**9.00**	4.5	4.5	1.80 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Vijaypur	**3.00**	1.5	1.5	0.60 (through recyclers)	Initiated for 3 TPD MRF Plant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Ramgarh	**2.4**	1.2	1.2	0.48 (through recyclers)	Initiated for 3 TPD MRF Plant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Bari Brahmana	**2.00**	1	1	0.40 (through recyclers)	Initiated for 2 TPD MRF Plant and 1 TPD Composting Unit	NIL	2 TPD MRF Plant and 1 TPD Composting Unit D.O.C: 31/01/2022
MC, Rajouri	**16.00**	8	8	3.20 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Sunderbani	**3.00**	1.5	1.5	3.00 (through recyclers and Processing Facility)	Initiated for 3 TPD MRF Plant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Nowshera	2.19	1.09	1.09	0.44 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process

MC,Thanamandi	**1.20**	1.1	1.1	0.24 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Kalakote	**1.61**	1.8	1.8	0.32 (through recyclers)	Initiated for 2 TPD MRF Plant and 2 TPD Composting Unit	NIL	2 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Poonch	**10**	5	5	2.00 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Surankote	**3.00**	1.5	1.5	0.60 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Kathua	**32.00**	16	16	6.40 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Billawar	**2.00**	1	1	0.40 (through recyclers)	Initiated for 2 TPD MRF Plant and 1 TPD Composting Unit	NIL	2 TPD MRF Plant and 1 TPD Composting Unit D.O.C: 31/01/2022
MC, Basohli	**2.00**	1	1	0.40 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Lakhanpur	**4.00**	2	2	0.80 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Parole	**3.00**	1.5	1.5	0.60 (through	Initiated for 3 TPD MRF Plant and 2 TPD Composting	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022

				recyclers)	Unit		
MC, Hiranagar	**1.81**	1.9	1.9	0.36 (through recyclers)	Initiated for 2 TPD MRF Plant and 2 TPD Composting Unit	NIL	2 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Katra	**38.00**	19	19	11.60 (through recyclers and Processing Facility)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	100%	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Reasi	**7.00**	3.5	3.5	1.40 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Doda	**10.00**	5	5	7.00 (through recyclers and Processing Facility)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	100%	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Bhaderwah	**5.00**	2.5	2.5	5.00 (through recyclers and Processing Facility)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	100%	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Thathri	**1.50**	2.25	2.25	0.30 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Udhampur	**23.00**	11.5	11.5	11.20 (through recyclers and Processing Facility)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	100%	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022

MC, Ramnagar	**3.00**	1.5	1.5	0.60 (through recyclers)	Initiated for 3 TPD MRF Plant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2TPD Composting Unit D.O.C: 31/01/2022
MC, Chenani	**1.50**	0.75	0.75	0.30 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Kishtwar	**8.00**	4	4	1.60 (through recyclers)	Initiated for 5 TPD MRF Plant and 2.5 TPD Composting Unit	NIL	5 TPD MRF Plant and 2.5 TPD Composting Unit D.O.C: 31/01/2022
MC, Ramban	**2.20**	1.1	1.1	0.44 (through recyclers)	Initiated for 3 TPD MRFPlant and 2 TPD Composting Unit	NIL	3 TPD MRF Plant and 2 TPD Composting Unit D.O.C: 31/01/2022
MC, Banihal	**2.00**	1	1	0.40 (through recyclers)	Land identification currently in process	NIL	Land identification currently in process
MC, Batote	**2.00**	1	1	0.40 (through recyclers)	Initiated for 2 TPD MRF Plant and 1 TPD Composting Unit	NIL	2 TPD MRF Plant and 1 TPD Composting Unit D.O.C: 31/01/2022
TOTAL	**230.10**	**115.05**	**115.05**	**-**	**-**		