

The proposed Model Action Plan for 7 thematic areas

1.0 Waste Management Plan

(i) Solid Waste Management Plan (for each ULB)

No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Measurable Outcome for District
	Name of Urban Local Body (ULB)		[name of ULB]	Municipal Council Srinagar
	No of ULBs in the District		[Nos]	1
	Population		[Nos as per 2011 census]	1202447
SW1	Report on inventory of total solid waste			
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]	625
SW1b		Qty. of Dry Waste segregated	[in MT/Day] or [Collection Not initiated]	Collection Not initiated
SW1c		Qty. of Wet Waste segregated	[in MT/Day] or [Collection Not initiated]	Collection Not initiated
SW1d		Qty. of C&D Waste segregated	[in MT/Day] or [Collection Not initiated]	100
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]	15
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]	Not Estimated
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	[in MT/Day] or [No Facility]	No Facility
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	[in MT/Day] or [Qty not estimated]	510
SW1i		No of Old dump sites	[Nos] or [None]	NIL
SW1j		Qty stored in dumpsites	[MT] or [Not estimated]	Not Estimated
SW1k		No of Sanitary landfills	[nos]	3
SW1l		No of wards	[nos]	34
SW2	Compliance by Bulk Waste Generators			
SW2a		No of BW Generators	[numbers] or [inventory not done]	inventory not done
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]	1
SW3	Compliance in segregated waste Collection SW Collection			
SW3a		Total generation	[Automatic] from SW1a	625
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]	323.4
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]	113
SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]	100
SW4	Waste Management Operations			
SW4a		Door to Door Collection	[in %]	70%
SW4b		Mechanical Road Sweeping	Not Initiated	not initiated
SW4c		Manual Sweeping	[100%] / [partial%]	100%

SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]	not initiated
SW4e		Digesters (Bio-methanation)	Not initiated	not initiated
SW4f		Composting operation	[in TPD]	1
SW4g		MRF Operation	Mechanical Segregator	Installed
SW4h		Use of Sanitary Landfill	70%	70%
SW4i		Reclamation of old dumpsites	Not Initiated	not initiated
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	initiated	initiated
SW4k		Linkage with Recyclers	Initiated	Initiated
SW4l		Authorization of waste pickers	Initiated	initiated
SW4m		Linkage with TSDF / CBMWTF	[initiated] / [not initiated]	not initiated
SW4n		Involvement of NGOs	Initiated	initiated
SW4o		Linkage with Producers / Brand Owners	Not initiated	not initiated
SW4p		Authorisation of Waste Pickers	processed	processed
SW4q		Issuance of ID Cards	processed	processed
SW5	Adequacy of of Infrastructure			
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]	2500
SW5b		Mini Collection Trucks	[Nos. Required] / [Nos. Available]	32
SW5c		Segregated Transport	No	Nil
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]	26
SW5e		Waste Transfer points	Not Available	670
SW5f		Bio-methanation units	Nil	Nil
SW5h		Composting units	1 .00	70
SW5i		Material Recovery Facilities	installed	installed
SW5k		Waste to Energy (if applicable)	Not available	Not Available
SW5l		Waste to RDF	Npt Available	Not Available
SW5m		Sanitary Land fills	Not available	1
SW5n		Capacity of sanitary landfills	[MT] // [Nos. Available]	6,66,000
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]	235
SW5p		Other facilities	[give or select from list]	5
SW6	Notification and Implementation of By-Laws			
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]	Done
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]	In Progress
SW7	Adequacy of Financial Status of ULB			
SW7a		CAPEX Required	[INR] / [Not required]	₹70,00,00,000.00
SW7b		OPEX	[INR per Year] / [% of requirement]	₹40,00,00,000.00
SW7c		Adequacy of OPEX	[Yes] / [No]	yes

(ii) Plastic Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
	Name of ULB		[name of ULB]	Municipal Corporation Srinagar
	Population		[Nos as per 2011 census]	1202447
PW1	Inventory of plastic waste generation			
PW1a		Estimated Quantity of plastic waste generated in District	[MT/day] / [Not Estimated]	5
PW2	Implementation of Collection			
PW2a		Door to Door collection	[100%] / [partial %] / [not initiated]	70%
PW2b		Segregated Waste collection	[100%] / [partial %]	Nil
PW2c		Plastic waste collection at Material Recovery Facility	MRF Used	Installed
PW2d		Authorization of PW pickers	[Nos] / [not initiated]	266
PW2e		PW collection Centers	[Nos] / [not established]	not established
PW3	Establishment of linkage with Stakeholders			
PW3a		Established linkage with PROs of Producers	[Nos] / [not established]	not established
PW3b		Established linkage with NGOs	[Nos] / [not established]	established
PW4	Availability of facilities for Recycling or utilization of PW			
PW4a		No. of PW recyclers	[Nos]	Nil
PW4b		No Manufacturers	[Nos]	No Inventory
PW4c		No of pyrolysis oil plants	[Nos]	Nil
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]	Nil
PW4e		Use in road making	[Quantity MT used per Month]	Nil
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]	
W5	Implementation of PW Management Rules, 2016			In Progress
W5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]	Partial
PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited] / [Partial] / [no action]	Prohibited
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	[Implemented] / [Partial] / [no action] / [No Ban]	Implemented

PW6	Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners			
PW6a		No of Producers associated with ULBs	[Nos] / [None]	None
PW6b		Financial support by Producers / Brand owners to ULBs	[Nos] / [None]	None
PW6c		Amount of PRO Support	[Rs...]	
PW6d		Infrastructure support by Producers / Brand owners to ULBs	[Nos of Producers] / [None]	None
PW6e		No of collection centers established by Producers / Brand owners to	[Nos] / [None]	None

(iii) C&D Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
	Name of ULB		[name of ULB]	Municipal Council Srinagar
	Population		[Nos as per 2011 census]	1202447
CD1	Inventory of C&D waste generation			
CD1a		Estimated Quantity	[Kg/Day] / [Not estimated]	100
CD2	Implement scheme for permitting bulk waste generators			Ni
CD2a		Issuance of Permissions by ULBs	[Initiated] / [Not initiated]	not initiated
CD3	Establishment of C&D Waste Deposition centers			
CD3a		Establishment of Deposition Points	[Yes] / [No]	YES
CD3b		C&D Deposition point identified	[Yes] / [No]	yes
CD4	Implementation of By-Laws for CD Waste Management			
CD4a		Implementation of By-laws	[notified] / [not notified]	Notified
CD4b		Collection of Deposition / disposal Charges	[Initiated] / [Not initiated]	Initiated

CD5	Establishment of C&D Waste recycling plant or linkage with such facility			
CD5a		Establishment CD Waste Recycling Plant	[Established] / [Sent to shared Facility] / [No facility exists]	No facility exists
CD5b		Capacity of CD Waste Recycling Plant	[MT/Day] / [Not available]	Not Available

(iv) Biomedical Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
	Name of ULB		[name of ULB]	Municipal Council Srinagar
	Population		[Nos as per 2011 census]	1202447
BMW1	Inventory of Biomedical Waste Generation			No
BMW1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]	26
BMW1b		Total no. of non-bedded HCF	[Nos] / [No inventory]	46
BMW1c		Total no. Clinics	[Nos] / [No inventory]	132
BMW1d		No of Veterinary Hospitals	[Nos] / [No inventory]	
BMW1e		Pathlabs	[Nos] / [No inventory]	215
BMW1f		Dental Clinics	[Nos] / [No inventory]	26
BMW1g		Blood Banks	[Nos] / [No inventory]	1
BMW1h		Animal Houses	[Nos] / [No inventory]	No inventory
BMW1i		Bio-research Labs	[Nos] / [No inventory]	0
BMW1j		Others	[Nos] / [No inventory]	
BMW2	Authorization of HCFs by SPCBs / PCCs			
BMW2a		Bedded HCFs	[Nos Authorized]	12
BMW2b		Non-bedded HCFs	[Nos Authorized]	0
BMW3a	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)			
BMW3a		No of CBMWTFs	[Nos] / None	2
BMW3b		Linkage with CBMWTFs	[Yes] / [no linkage]	YES
BMW3c		Capacity of CBMWTFs	[Adequate] / [Not adequate]	Not Adequate
BMW3d		Requirements of CBMWTFs	[Require] / [not required]	require
BMW3e		Captive Disposal Facilities of HCFs	[Nos] / [None]	none
BMW4	Compliance by CBMWTFs			
BMW4a		Compliance to standards	[Meeting] / [Not meeting] / [NA]	Meeting

BMW4b		Barcode tracking by HCFs / CBMWTFs	[100%] / [Partly %] / [None]	none
BMW4c		Daily BMW lifting by CBMWTFs	[Kg / day]	no
BMW5	Status of Compliance by Healthcare Facilities			no status
BMW5a		Pre-segregation	[100%] / [partly %] / [None]	Partly
BMW5b		Linkage with CBMWTFs	[100%] / [partly %] / [None]	100%

(v) Hazardous Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
HW1	Inventory of Hazardous Waste			
HW1a		No of HW Generating Industry	[Nos.]	0
HW1b		Quantity of HW	[MT/Annum]	0
HW1c		Quantity of Incinerable HW	[MT/Annum]	0
HW1d		Quantity of land-fillable HW	[MT/Annum]	0
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]	0
HW2	Contaminated Sites and illegal			
HW2a		No of HW dumpsites	[Nos] / [None]	NIL
HW2c		Probable Contaminated Sites	[Nos] (provide list)	NIL
HW3	Authorization by SPCBs/PCCs			
HW3a		No of industries authorized	[Nos]	
HW3b		Display Board of HW Generation in front of Gate	[Nos]	
HW3	Availability of Common Hazardous Waste TSDF			
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]	NO
HW3b		Industries linkage with TSDF	[Nos.]	No inventory
HW4	Linkage of ULBs in District with Common TSDF			
HW4a		ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]	Yes

(vi) E-Waste Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
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EW1	Status of facilitating authorized collection of E-Waste			
EW1a		Does the citizen are able to deposit or provide E-Waste through Toll-free Numbers in the District	[Yes] / [No]	No
EW1c		Collection centers established by ULB in District	[Nos] / [None]	Nil
EW1d		Collection centers established by Producers or their PROs in the District	[Nos] / [None]	none
EW1e		Does the district has linkage with authorized E-Waste recyclers / Dismantler	[Yes] / [No]	no
EW1f		No authorized E-Waste recyclers / Dismantler	[Nos] / [None]	none
EW2	Status of Collection of E-Waste			none
EW2a		Authorizing E-Waste collectors	[Authorized] / [None]	no
EW2b		Involvement of NGOs	[Yes] / [No] / [Nos]	no
EW2c		Does Producers have approached NGOs/ Informal Sector for setting up Collection Centers.	[Yes] / [No] / [Nos]	no
EW2d		Does ULBs have linkage with authorized Recyclers / Dismantlers	[Yes] / [No]	no
EW4	Control E-Waste related pollution			nil
EW4a		Does informal trading, dismantling, and recycling of e-waste exists in District	[Yes] / [No]	no
EW4b		Does the administration closed illegal E-Waste recycling in the District	[Yes] / [No] / [Nos]	no
EW4c		No of actions taken to close illegal trading or processing of E-Waste	[Nos]	nil
EW5	Creation of Awareness on E-Waste handling and disposal			
EW5a		Does PROs / Producers conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	yes
EW5c		Does District Administration conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	yes

2.0 Water Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
WQ1	Inventory of water resources in District			
WQ1a		Rivers	[Nos] and [Length in Km]	1 and 35 km
WQ1b		Length of Coastline	[in Km]	NA
WQ1c		Nalas/Drains meeting Rivers	[Nos]	6
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]	4
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)	170 MLD (SEWAGE)
	Control of Groundwater Water Quality			
WQ2a		Estimated number of bore-wells	[Nos]	10,000
WQ2b		No of permissions given for extraction of groundwater	[Nos]	10,000
WQ2c		Number of groundwater polluted areas	[Nos]	NIL
WQ2d		Groundwater Availability	[adequate] / [not adequate]	Adequate
WQ3	Availability of Water Quality Data			
WQ3a		Creation of monitoring cell	[Yes] / [No]	yes
WQ3b		Access to Surface water and groundwater quality data at DM office	[Available] or [Not available]	
WQ4	Control of River side Activities			
WQ4a	Control of River side Activities	River Side open defecation	[Fully Controlled] / [Partly controlled] / [no Measures taken]	Fully Controlled
WQ4b		Dumping of SW on river banks	[Fully Controlled] / [Partly controlled] / [no Measures taken]	Fully Controlled
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]	Not applicable
WQ5	Control of Water Pollution in Rivers			
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)	
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]	Monitored
WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	[Nos]	Not applicable

WQ6	Awareness Activities			
WQ6a		District level campaigns on protection of water quality	[Nos in previous year]	5
WQ6b	Oil Spill Disaster Contingency Plan			
WQ6a		Creation of District Oil Spill Crisis Management Group	[Created] / [Not Created]	Not Created
WQ6b		Preparation District Oil Spill Disaster Contingency Plan	[Prepared] / [Not Prepared]	Not Prepared
WQ7	Protection of Flood plains			
WQ7a		Encroachment of flood plains is regulated.	[Yes] / [No]	Yes
	Rainwater Harvesting			
WQ8a		Action plan for Rain water harvesting	[Implemented] / [Not implemented]	Not Implemented

3.0 Domestic Sewage Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
SM1	Inventory of Sewage Management			
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]	170
SM1b		No of Class-II towns and above	[Nos]	NA
SM1c		No of Class-I towns and above	[Nos]	NA
SM1d		No of Towns needing STPs	[Nos]	NA
SM1e		No of Towns STPs installed	[Nos]	NA
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	45.71
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	92 (20% house holds having septic tank facility)
SM1h		Quantity of sewage flowing into lakes	[MLD]	10
SM1i		No of industrial townships	[Nos]	Nil
SW2	Adequacy of Available Infrastructure for Sewage Treatment			
SM2a		% sewage treated in STPs	[Automatic]	32
SM2b		Total available Treatment Capacity	[MLD]	53.78
SM2c		Additional treatment capacity required	[MLD]	116.22

SM3	Adequacy of Sewerage Network			
SM3a		No of ULBs having partial underground sewerage network	[Nos]	NA
SM3b		No of towns not having sewerage network	[Nos]	NA
SM3c		% population covered under sewerage network	[Automatic]	32

4.0 Industrial Wastewater Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
IWW1	Inventory of industrial wastewater Generation in District			
IWW1a		No of Industries discharging wastewater	[Nos]	Nil
IWW1b		Total Quantity of industrial wastewater generated	[MLD]	Not applicable
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	[MLD]	Not applicable
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	[MLD]	nil
IWW1e		Prominent Type of Industries	[Agro based] / [Chemical – Dye etc.] / [Metallurgical] / [Pharma] / [Pesticide] / [Power Plants] / [Mining] / [Automobile] : Multiple selection based on size of operation and number	NIL
IWW1f		Common Effluent Treatment Facilities	[Nos] / [No CETPs]	NIL
IWW2	Status of compliance by Industries in treating wastewater			
IWW2a		No of Industries meeting Standards	[Nos]	Not applicable
IWW2b		No of Industries not meeting discharge Standards	[Automatic]	Not applicable
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	[Nos]	0

AWW4	Status of Action taken for not meeting discharge standards			
IWW4a		No industries closed for exceeding standards in last 3 months	[Nos]	0
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	[Nos]	0

5.0 Air Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
AQ1	Availability of Air Quality Monitoring Network in District			
AQ1a		Manual Air Quality monitoring stations of SPCBs /CPCB	[Nos] / [None]	4
AQ1c		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]	None
AQ2	Inventory of Air Pollution Sources			
AQ2a		Identification of prominent air polluting sources	[Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Brick Klin, Burning of garden waste,Vechile pollution and dust
AQ2b		No of Non-Attainment Cities	[Nos / [None]	NA
AQ2c		Action Plans for non-attainment cities	[Prepared] / [Not yet prepared]	Prepared
AQ3	Availability of Air Quality Monitoring Data at DMs Office			
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]	Not yet Available
AQ4	Control of Industrial Air Pollution			
AQ4a		No of Industries meeting Standards	[Nos]	All Units Having Consent
AQ4b		No of Industries not meeting discharge Standards	[Nos]	nil

AQ5	Control of Non-industrial Air Pollution sources			
AQ5a		Control open burning of Stubble –during winter	[Nos of fire incidents]	No inventory
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]	No inventory
AQ5c		Control of forest fires	[SOP available] / [No SoP]	SOP Available
AQ5d		Vehicle pollution check centers	[% ULBs covered]	100%
AQ5e		Dust Suppression Vehicles	[% ULBs covered]	No inventory
AQ6	Development of Air Pollution complaint redressal system			
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]	Not Available

6.0 Mining Activity Management plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
MI1a	Inventory of Mining in District			
MI1a		Type of Mining Activity	Sand Mining, Stone quarry and Lime stone Mining	Sand Mining/Stone quarry/ Lime Stone mining
			Multiple selection in order of magnitude of operations	
MI1b		No of Mining licenses given in the District	[Nos]	Minor Mineral Licence Nil and Major Mineral Licence 3
MI1c		Area covered under mining	[Sq Km]	2.97
MI1d		Area of District	[Sq Km]	505
MI1e		Sand Mining	[Yes] / [No]	yes
MI1f		Area of sand Mining	[River bed] / [Estuary] / [Non -river deposit]	River Bed
MI2	Compliance to Environmental Conditions			
MI2a		No of Mining areas meeting Environmental Clearance Conditions	[Nos]	Minor mineral Nil and Major Mineral 3
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	[Nos]	Minor mineral Nil and Major Mineral 2
MI3a	Mining related environmental Complaints			

MI3b		No of pollution related complaints against Mining Operations in last 1 year	[Nos]	5
MI4	Action against non-complying mining activity			
MI4a		No of Mining operations suspended for violations to environmental norms	[Nos]	3
MI4b		No of directions issued by SPCBs	[Nos]	Nil

7.0 Noise Pollution Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
NP1	Availability Monitoring equipment			
NP1a		No. of noise measuring devices with district administration	[Nos] / [None]	Nil
NP1b		No. of noise measuring devices with SPCBs	[Nos] / [None]	Nil
NP2	Capability to conduct noise level monitoring by State agency / District authorities			
NP2a		capability to conduct noise level monitoring by State agency / District authorities	[Available] / [Not available]	Available
NP2	Management of Noise related complaints			
NP2a		No of complaints received on noise pollution in last 1 year	[Nos]	No inventory
NP2b		No of complaints redressed	[Nos]	No inventory
NP3	Compliance to ambient noise standards			
NP3a		Implementation of Ambient noise standards in residential and silent zones	[Regular Activity] / [Occasional] / [Never]	Occasional
NP3b		Noise monitoring study in district	[carried out] / [not carried out]	Carried Out
NP3c		Sign boards in towns and cities in silent zones	[Installed] / [Partial] / [Not Installed]	Partial