

SW1I		No of wards	[nos]	186	55	32	35	35	29
SW2	Compliance by Bulk Waste Generators								
SW2a		No of BW Generators	[numbers] or [inventory not done]		Inventory not done	No bulk waste generators	No bulk waste generators	Inventory not done	Inventory not done
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]		No data			No data	No data

SW3	Compliance in segregated waste Collection SW Collection								
SW3a		Total generation	[Automatic] from SW1a	238.71	182.49	13	16.34	16.6	10.28
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]		Collection not initiated	1	Collection not initiated	Collection not initiated	Collection not initiated
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]	38.5	21	0.5	13.5	3	0.5
SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]	Collection not initiated	Collection not initiated	Collection not initiated	Collection not initiated	Collection not initiated	Collection not initiated
SW4	Waste Management Operations								
SW4a		Door to Door Collection	[100%] / [partial %] / [not initiated]		12%	12%	83%	18%	5%
SW4b		Mechanical Road Sweeping	[100%] / [partial%] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4c		Manual Sweeping	[100%] / [partial%]		50%	80%	60%	20%	50%
SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4e		Digesters (Bio-methanation)	[% of WW] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4f		Composting operation	[% of WW] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4g		MRF Operation	[MRF used] / [not installed]	MRF used	MRF used	MRF used	Not installed	MRF used	MRF used
SW4h		Use of Sanitary Landfill	[% of SW collected] / [no SLF]	no SLF	no SLF	no SLF	no SLF	no SLF	No SLF
SW4i		Reclamation of old dumpsites	[initiated] / [not initiated]		Initiated	Not applicable	Not applicable	Not initiated	Not initiated
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[initiated] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4k		Linkage with Recyclers	[initiated] / [not initiated]	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated
SW4l		Authorization of waste pickers	[initiated] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4m		Linkage with TSDF / CBMWTF	[initiated] / [not initiated]	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
SW4n		Involvement of NGOs	[initiated] / [not initiated]		Initiated	Not initiated	Not initiated	Not initiated	Not initiated

SW5	Adequacy of of Infrastructure								
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]		270/50	10./10	35./35	35/20	29/8
SW5b		Mini Collection Trucks	[Nos. Required] / [Nos. Available]		10./02	1./1	2./2	5./1	4./1
SW5c		Segregated Transport	[yes] / [no] / [% area covered]		No	No	No	No	No
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]		5/2	Not required	Not required	3./1	3./0
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available] / [Not available]		Not available	Not available	Not available	Not available	Not Available
SW5f		Bio-methanation units	[Nos. Required] / [Nos. Available]		40/13	5/0	10/0	15/0	3/0
SW5h		Composting units	[Nos. Required] / [Nos. Available]		40/13	32/3	250/27	15/0	30/20
SW5i		Material Recovery Facilities	[used or installed] / [not available]		Used	Used	Installed	Not available	Installed
SW5k		Waste to Energy (if applicable)	[Required] / [Nos. Available]		1./0	NA	NA	NA	NA
SW5l		Waste to RDF	[Required] / [Nos. Available]						
SW5m		Sanitary Land fills	[Nos] / [Nos. Available]						
SW5n		Capacity of sanitary landfills	[MT] // [Nos. Available]						
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]		Not Available	Not Available	Not Available	Not Available	Not Available
SW5p		Other facilities	[give or select from list]						
SW6	Notification and Implementation of By-Laws								
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]		in progress	in progress	in progress	NOT INITIATED	In Progress
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]		not initiated	not initiated	not initiated	not initiated	not initiated
SW7	Adequacy of Financial Status of ULB								
SW7a		CAPEX Required	[INR] / [Not required]	75,00,00,000	75,00,00,000	2,50,00,000	16,00,00,000	1,50,00,000	5,00,00,000
SW7b		OPEX	[INR per Year] / [% of requirement]		50,00,00,000	1,00,00,000	4,50,00,000	2,00,00,000	2,00,00,000
SW7c		Adequacy of OPEX	[Yes] / [No]		YES	yes	Yes	YES	No

(ii) Plastic Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB1
	Name of ULB		[name of ULB]	Kollam Corporation, Paravur Municipality, Punalur Municipality, Karunagappally Municipality and Kottarakkara Municipality	KOLLAM	PARAVUR	PUNALUR	KARUNAGAPALLY	KOTTARAKKARA
	Population		[Nos as per 2011 census]	549052	388288	37189	46702	47483	29390
PW1	Inventory of plastic waste generation								
PW1a		Estimated Quantity of plastic waste generated in District	[MT/day] / [Not Estimated]	43.5	30	3	4	4	2.5
PW2	Implementation of Collection								
PW2a		Door to Door collection	[100%] / [partial %] / [not initiated]		70%	16%	68%	38%	20%
PW2b		Segregated Waste collection	[100%] / [partial %]		70%	16%	68%	38%	20%
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used] / [not installed]		MRF used	MRF used	MRF used	MRF used	MRF used
PW2d		Authorization of PW pickers	[Nos] / [not initiated]		Not initiated	Not initiated	Not initiated	Not initiated	Not initiated
Not		PW collection Centers	[Nos] / [not established]		Not established	5	200	Not established	12
PW3	Establishment of linkage with Stakeholders								
PW3a		Established linkage with PROs of Producers	[Nos] / [not established]		Not established	Not established	Not established	Not established	Not established
PW3b		Established linkage with NGOs	[Nos] / [not established]		Not established	Not established	Not established	Not established	Not established

PW4	Availability of facilities for Recycling or utilization of PW		
PW4a		No. of PW recyclers	[Nos]
PW4b		No Manufacturers	[Nos]
PW4c		No of pyrolysis oil plants	[Nos]
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]
PW4e		Use in road making	[Quantity MT used per Month]
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]
W5	Implementation of PW Management Rules, 2016		
W5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]
PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited] / [Partial] / [no action]
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	[Implemented] / [Partial] / [no action] / [No Ban]
PW6	Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners		
PW6a		No of Producers associated with ULBs	[Nos] / [None]
PW6b		Financial support by Producers / Brand owners to ULBs	[Nos] / [None]
PW6c		Amount of PRO Support	[Rs...]
PW6d		Infrastructure support by Producers / Brand owners to ULBs	[Nos of Producers] / [None]

NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL
NIL	1	NIL	NIL	1.75
NIL	NIL	NIL	NIL	Nil
All sealed	All sealed	All sealed	All sealed	All sealed
Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
Implemented	Implemented	Implemented	Implemented	Implemented
None	None	None	None	None
None	None	None	None	None
Nil	Nil	Nil	Nil	Nil
None	None	None	None	None

CD5a	Establishment CD Waste Recycling Plant	[Established] / [Sent to shared Facility] / [No facility exists]		No facility exists	No facility exists	No facility exists	No facility exists	No facility exists
CD5b	Capacity of CD Waste Recycling Plant	[MT/Day] / [Not available]		Not available	Not available	Not available	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	ULB1	ULB1	ULB1	ULB1	ULB1
	Name of ULB		[name of ULB]	Kollam Corporation, Paravur Municipality, Punalur Municipality, Karunagappally Municipality and Kottarakkara Municipality	KOLLAM	PARAVUR	PUNALUR	KARUNAGAPALLY	KOTTARAKKARA
	Population		[Nos as per 2011 census]	549052	388288	37189	46702	47483	29390
BMW1	Inventory of Biomedical Waste Generation								
BMW1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]		20	1	6	6	7
BMW1b		Total no. of non-bedded HCF	[Nos] / [No inventory]		22	1	3	10	8
BMW1c		Total no. Clinics	[Nos] / [No inventory]		54	6	3	21	24
BMW1d		No of Veterinary Hospitals	[Nos] / [No inventory]		4	1	1	1	1
BMW1e		Pathlabs	[Nos] / [No inventory]		39	8	1	18	12
BMW1f		Dental Clinics	[Nos] / [No inventory]		25	6	2	4	13
BMW1g		Blood Banks	[Nos] / [No inventory]		4	0	1	1	2
BMW1h		Animal Houses	[Nos] / [No inventory]		0	0	0	0	0
BMW1i		Bio-research Labs	[Nos] / [No inventory]		0	0	0	0	0
BMW1j		Others	[Nos] / [No inventory]		0	0	0	0	0
BMW2	Authorization of HCFs by SPCBs / PCCs								
BMW2a		Bedded HCFs	[Nos Authorized]		20	1	6	6	7
BMW2b		Non-bedded HCFs	[Nos Authorized]		26	1	9	10	6

(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.]	88
HW1b		Quantity of HW	[MT/Annum]	18908.596
HW1c		Quantity of Incinerable HW	[MT/Annum]	NIL
HW1d		Quantity of land-fillable HW	[MT/Annum]	18750
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]	158.596
HW2	Contaminated Sites and illegal industrial hazardous waste dumpsites			NIL
HW2a		No of HW dumpsites	[Nos] / [None]	NIL
HW2c		Probable Contaminated Sites	[Nos] (provide list)	NIL
HW3	Authorization by SPCBs/PCCs			100%
HW3a		No of industries authorized	[Nos]	88
HW3b		Display Board of HW Generation in front of Gate	[Nos]	NIL
HW3	Availability of Common Hazardous Waste TSDF			
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]	Sent to Other District within the State
HW3b		Industries linkage with TSDF	[Nos.]	100%
HW4	Linkage of ULBs in District with Common TSDF			



HW4a	ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]	No
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(vi) E-Waste Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome	Please enter Measurable Outcome for District
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]	None
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			
EW2a		Authorizing E-Waste collectors	[Authorized] / [None]	None
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			
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]	No
EW5c		Does District Administration conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]	Yes/3

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]	3 (Ithikara-56km, Kallada-121km, Pallikkal-42km)
WQ1b		Length of Coastline	[in Km]	6.27
WQ1c		Nalas/Drains meeting Rivers	[Nos]	No inventory
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]	Lakes -4 (Ashtamudi-6140, Vattakayal-15, Paravur-662, Sasthamkotta - 373)

WQ1e	Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+W1b)	Sewage-316.8 MLD, Industrial discharge- No inventory
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	Control of Groundwater Water Quality			
WQ2a		Estimated number of bore wells	[Nos]	4181
WQ2b		No of permissions given for extraction of groundwater	[Nos]	5906
WQ2c		Number of groundwater polluted areas	[Nos]	1
WQ2d		Groundwater Availability	[adequate] / [not adequate]	adequate
WQ3	Availability of Water Quality Data			
WQ3a		Creation of monitoring cell	[Yes] / [No]	No
WQ3b		Access to Surface water and groundwater quality data at DM office	[Available] or [Not available]	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]	Partly Controlled
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]	Measures taken
WQ5	Control of Water Pollution in Rivers			
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)	Not estimated
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]	Not applicable

WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	[Nos]	Nil
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]	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]	46.59
SM1b		No of Class-II towns and above	[Nos]	1
SM1c		No of Class-I towns and above	[Nos]	1
SM1d		No of Towns needing STPs	[Nos]	1
SM1e		No of Towns STPs installed	[Nos]	Nil
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	Nil

SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	No data
SM1h		Quantity of sewage flowing into lakes	[MLD]	No data
SM1i		No of industrial townships	[Nos]	Nil

SW2	Adequacy of Available Infrastructure for Sewage Treatment			
SM2a		% sewage treated in STPs	[Automatic]	0
SM2b		Total available Treatment Capacity	[MLD]	Nil
SM2c		Additional treatment capacity required	[MLD]	Not estimated
SM3	Adequacy of Sewerage Network			
SM3a		No of ULBs having partial underground sewerage network	[Nos]	Nil
SM3b		No of towns not having sewerage network	[Nos]	5
SM3c		% population covered under sewerage network	[Automatic]	Nil

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]	No inventory
IWW1b		Total Quantity of industrial wastewater generated	[MLD]	No inventory
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	[MLD]	No inventory
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	[MLD]	No inventory

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	Cashew, Heavy Mineral Mining, Quarries, Crushers,
IWW1f		Common Effluent Treatment Facilities	[Nos] / [No CETPs]	No CETPS

IWW2	Status of compliance by Industries in treating wastewater			
IWW2a		No of Industries meeting Standards	[Nos]	No inventory
IWW2b		No of Industries not meeting discharge Standards	[Automatic]	No inventory
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	[Nos]	Nil
AWW4	Status of Action taken for not meeting discharge standards			
IWW4a		No industries closed for exceeding standards in last 3 months	[Nos]	NIL
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	[Nos]	NIL

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]	2
AQ1c		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]	1

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)	Small industries, brick kilns
AQ2b		No of Non-Attainment Cities	[Nos / [None]	Nil
AQ2c		Action Plans for non-attainment cities	[Prepared] / [Not yet prepared]	NA
AQ3	Availability of Air Quality Monitoring Data at DMs Office			No
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]	Available

AQ4	Control of Industrial Air Pollution			
AQ4a		No of Industries meeting Standards	[Nos]	No inventory
AQ4b		No of Industries not meeting discharge Standards	[Nos]	No inventory
AQ5	Control of Non-industrial Air Pollution sources			
AQ5a		Control open burning of Stubble –during winter	[Nos of fire incidents]	Nil
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]	1
AQ5c		Control of forest fires	[SOP available] / [No SoP]	No SOP
AQ5d		Vehicle pollution check centers	[% ULBs covered]	100%
AQ5e		Dust Suppression Vehicles	[% ULBs covered]	Nil
AQ6	Development of Air Pollution complaint redressal system			
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]	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] / [Iron Ore] / [Bauxite] / [Coal] / Other [specify] Multiple selection in order of magnitude of operations	Heavy minerals, granite and laterite

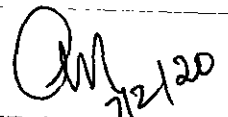
M11b	No of Mining licenses given in the District	[Nos]	25
M11c	Area covered under mining	[Sq Km]	0.545348
M11d	Area of District	[Sq Km]	2491
M11e	Sand Mining	[Yes] / [No]	No
M11f	Area of sand Mining	[River bed] / [Estuary] / [Non -river deposit]	

MI2	Compliance to Environmental Conditions			
MI2a		No of Mining areas meeting Environmental Clearance Conditions	[Nos]	24
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	[Nos]	24
MI3a	Mining related environmental Complaints			
MI3b		No of pollution related complaints against Mining Operations in last 1 year	[Nos]	1
MI4	Action against non-complying mining activity			NIL
MI4a		No of Mining operations suspended for violations to environmental norms	[Nos]	1
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]	1
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]	6
NP2b		No of complaints redressed	[Nos]	6
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]	not installed


 7/2/20
 DISTRICT COLLECTOR
 KOLLAM