

Chitradurga District Environment Plan as per Hon'ble NGT Order dated 26/09/2018 in OA 360/2018

The proposed District Environmental Management 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	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	Proposal of attending the gap with time lines
	Name of ULB		[name of ULB]		CMC, Chitradurga	CMC, Hiriyur	CMC, Challakere	TMC, Hosadurga	TP, Holalkere	TP, Molakalmuru	TP- Nayakanahatti	
	No. of ULBs in the District		[Nos]	7	1	1	1	1	1	1	1	
	Population		[Nos as per 2011 census]	3,32,958.00	1,45,853.00	56,416.00	55194	28,370.00	15,783.00	15,797.00	15,545.00	
SW1	Report on inventory of total solid waste Generation											
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]	134.78	62	20	18.9	17.1	9	3.5	4.28	-
SW1b		Qty. of Dry Waste segregated	[In MT/Day] or [Collection Not initiated]	54.18	27	8	6.9	6.1	2.9	1.5	1.78	-
SW1c		Qty. of Wet Waste segregated	[In MT/Day] or [Collection Not initiated]	80.6	35	12	12	11	6.1	2	2.5	-
SW1d		Qty. of C& D Waste segregated	[In MT/Day] or [Collection Not initiated]	0	0	0	0	0	0	0	0	Dec-20
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]	0	0	0	0	0	0	0	0	-
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]	0	0	0	0	0	0	0	0	-
SW1g		Qty. of Domestic Hazardous Waste(DHW) collection	[In MT/Day] or [No Facility]	0	0	0	0	0	0	0	0	Dec-20
SW1h		Qty. of Other Waste (Horticulure, sanitary waste etc..)	[In MT/Day] or [Qty not estimated]	0	0	0	0	0	0	0	0	Dec-20
SW1i		No. of Old dump sites	[Nos] or [None]	6	1	1	1	1	1	1	None	-
SW1j		Qty stored in dump sites	[MT] or [Not estimated]	237050	150000	31000	25025	31025	Not Estimated	Not Estimated	Not Estimated	Dec-20
SW1k		No. of Sanitary landfills	[Nos] or [None]	6	1	1	1	1	1	1	0	Mar-21
SW1l		No of wards	[Nos]	168	35	31	31	23	16	16	16	-
SW2	Compliance by Bulk Waste Generators											Dec-20
SW2a		No of BW Generators	[numbers] or [inventory not done]	0	0	0	0	0	0	0	0	-
SW2b		No. of on-site facilities for Wet Waste	[numbers] or [No data]	4	0	0	0	2	1	1	0	-

SW3	Compliance in segregated waste Collection SW Collection (MT per day)												-
SW3a		Total generation	[Automatic] from SW1a	134.78	62.00	20	18.9	17.10	9.00	3.50	4.28		-
SW3b		Wet Waste	[In MT/Day] or [Collection Not initiated]	75.88	35.00	8	12	11.00	6.10	2.00	1.78		-
SW3c		Dry Waste	[In MT/Day] or [Collection Not initiated]	58.9	27.00	12	6.9	6.10	2.90	1.50	2.50		-
SW3d		C&D Waste	[In MT/Day] or [Collection Not initiated]	0	0	0	0	0	0	0	0		Dec-20
SW4	Waste Management Operations												-
SW4a		Door to Door Collection	[100%]/[partial%]/[not initiated]		92%	100%	100%	100%	100%	100%	56%		Dec-20
SW4b		Mechanical Road Sweeping	[100%]/[partial%]/[not initiated]		Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated		-
SW4c		Manual Sweeping	[100%]/[partial%]	100%	100%	100%	100%	100%	100%	100%	100%		-
SW4d		Segregated Waste Transport	[100%]/[partial%]/[not initiated]	65.14%	100%	100%	60%	96%	87.5%	100%	0%		Dec-20
SW4e		Digesters (Bio-methanation)	[% of WW]/[not initiated]		Initiated	Initiated	Not initiated	Not initiated	Not initiated	Not initiated	Not initiated		-
SW4f		Composting operation	[% of WW]/[not initiated]	5.71%	10%	10%	Not initiated	20%	Not initiated	Not initiated	Not initiated		Mar-21
SW4g		MRF Operation	[MRF used]/[not installed]		Not installed	Not installed	Not installed	MRF Used	MRF Used	Not installed	Not installed		-
SW4h		Use of Sanitary Landfill	[% of SW collected]/[no SLF]		0%	0%	0%	10%	0%	0%	No Slf		Mar-21
SW4i		Reclamation of old dumpsites	[initiated]/[not initiated]		Initiated	Not Initiated	Not Initiated	Initiated	Not Initiated	Not Initiated	Not Initiated		Dec-20
SW4j		Linkage with Waste to Energy Boilers/Cement Plants	[initiated]/[not initiated]		Initiated	Initiated	Not Initiated	Initiated	Not Initiated	Not Initiated	Not Initiated		Mar-20
SW4k		Linkage with Recyclers	[initiated]/[not initiated]		Not Initiated	Not initiated	Not Initiated	Initiated	Not Initiated	Not Initiated	Not Initiated		May-20
SW4l		Authorization of waste pickers	[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		May-20
SW4m		Linkage with TSDF/CBMWTF	[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		-
SW4n		Involvement of NGOs	[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		May-20
SW4o		Linkage with Producers/Brand Owners	[initiated]/[not initiated]		Not initiated	Not Initiated	Not initiated	Not Initiated	Not initiated	Not initiated	Not Initiated		May-20
SW4p		Authorization of waste pickers	[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		May-20
SW4q		Issuance of ID Cards	[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		Mar-21
SW5	Adequacy of Infrastructure		[initiated]/[not initiated]		Initiated	Initiated	Initiated	Initiated	Initiated	Initiated	Initiated		Dec-20
SW5a		Waste Collection Trolleys	[Nos Required]/[Nos.available]		85/85	Not Available	Not Available	11/11.	10/10.	01/01	Initiated		May-20
SW5b		Mini Collection Trucks	[Nos Required]/[Nos.available]		35/25	05/08	13/06	0	06/01	00/02	03/00		May-20

SW5c		Segregated Transport	[Yes]/[no]/[% area covered]		70%	60%	60%	100%	88%	100%	0%	Dec-20
SW5d		Bulk Waste Trucks	[Nos Required]/[Nos.available]		01/01.	Not Available	01/00	00/00	00/00	00/00	02/00	May-20
SW5e		Waste Transfer points	[Nos Required]/[Nos.available]/Not available		Not available	00/01	01/00	00/00	00/00	00/00	00/00	Dec-20
SW5f		Bio-methanation units	[Nos. Required]/[Nos.available]		01/01.	00/01	00/00	00/00	01/00	00/00	0	Mar-21
SW5h		Composting units	[Nos. Required]/[Nos.available]		01/01.	00/01	01/00	02/02	02/00	00/00	01/00	Dec-20
SW5i		Material Recovery Facilities	[used or installed]/[Nos.available]		Not installed	Not installed	Not installed	1	Not Installaed	Not Installaed	Not installed	Dec-20
SW5j		Waste to Energy(if applicable)	[Required]/[Nos.Available]		Required	Required	Required	Required	Required	Required	Required	Mar-21
SW5k		Waste to RDF	[Required]/[Nos.Available]		Required	Required	Required	Required	Required	Required	Required	-
SW5l		Sanitary Land fills	[Nos.]/[Nos.Available]		01/01	1	1	1	1	0	0	Dec-20
SW5m		Capacity of sanitary landfills	[MT]/[Nos.Available]		20,000 MT	15000 MT	15000 MT	10000 MT	7000 MT	0	0	Mar-21
SW5o		Waste Deposit Centers(DHW)	[Nos]/[Nos.Available]	6	1	1	1	1	1	1	0	-
SW5p		Other facilities	[give or select from list]	Give	Give	Give	Give	Give	Give	Give	Give	Dec-20
SW6	Notification and implementation of By-Laws											-
SW6a		Notification of By-Laws	[done]/[in progress]/[not initiated]		Done	Done	Done	Done	Done	Done	Done	May-20
SW6b		Implementation of by-laws	[done]/[in progress]/[not initiated]		In progress	In progress	In progress	In progress	In progress	In progress	In progress	May-20
SW7	Adequacy of Financial Status of ULB											Mar-21
SW7a		CAPEX Required	[INR]/[Not required]In Lakhs	2377.62	581	342	379.62	99	351	345	280	-
SW7b		OPEX	[INR per year]/[% if requirement] In Lakhs	1491	589	335	253	25	103	100	86	-
SW7c		Adequacy of OPEX	[Yes]/[No]		No	Yes	Yes	Yes	No	No	No	-
(ii) Plastic Waste Management (for each ULB)												
No	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7	
	Name of ULB		[name of ULB]		CMC, Chitradurga	CMC Hiriyur	CMC, Challakere	TMC, Hosadurga	TP, Holalkere	TP, Molakalmuru	TP-Nayakanahatti	
	Population		[Nos as per 2011 census]	332958	145853	56416	55194	28370	15783	15797	15545	
PW1	Inventory of plastic waste generation											
PW1a		Estimated Quantity of plastic waste generated in ULB	[MT/day]/[Not Estimated]		Not Estimated	0.8	1.17	2	0.03	0.05	0.01	Dec-20
PW2	Implementation of collection											-
PW2a		Door to Door collection	[100%]/[partial%]/ [not initiated]		92%	100%	100%	100%	100%	100%	56%	Dec-20
PW2b		Segregated Waste collection	[100%]/[partial%]		50%	60%	60%	100%	87.5%	50%	0%	Dec-20
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used]/[not installed]		Not installed	Not installed	Not installed	MRF Used	MRF Used	Not installed	Not installed	Mar-21

PW2d		Authorization of PW pickers	[Nos]/[not initiated]		30	Not initiated	Not initiated	6	5	Not installed	Not initiated	May-20
PW2e		PW collection Centers	[Nos]/[not established]		Not established	Not established	Not established	1	Not established	Not established	Not Established	Dec-20
PW3	Establishment of linkage with stakeholders											Mar-21
PW3a		Established linkage with PROs of producers	[Nos]/[not established]		Not established	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	Mar-21
PW3b		Established linkage with NGOs	[Nos]/[not established]		Not established	Not Established	Not Established	Not Established	Not Established	Not Established	Not Established	-
PW4	Available of facilities for Recycling or utilization of PW											-
PW4a		No.of PW recyclers	[Nos]	0	0	0	0	0	0	0	0	Dec-20
PW4b		No.of Manufacturers	[Nos]	0	0	0	0	0	0	0	0	
PW4c		No of pyrolysis oil plants	[Nos]	0	0	0	0	0	0	0	0	
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]	0	0	0	0	0	0	0	0	
PW4e		Use in road making	[Quantity MT used per Month]	0	0	0	0	0	0	0	0	
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]	0	0	0	0	0	0	0	0	
W5	Implementation of PW Management Rules, 2016											-
W5a		Sealing of units producing <50-micron plastic	[All sealed]/[partial]/[no action]		All sealed	All sealed	All sealed	All sealed	All sealed	All sealed	Partial	-
PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited]/[Partial]/[no action]	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	-
PW5c		Ban on carry bags and other single use plastics as notified by State Government	[Implemented]/[Partial]/[no action]/[No Ban]	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Implemented	Dec-20
PW6	Implementation of Extended Producers Responsibility (EPR) through producers/Brand-owners											-
PW6a		No of Producers associated with ULBs	[Nos]/[None]	None	None	None	None	None	None	None	None	-
PW6b		Financial support by Producers/Brand owners to ULBs	[Nos]/[None]	None	None	None	None	None	None	None	None	-
PW6c		Amount of PRO Support	[Rs.....]	None	None	None	None	None	None	None	None	-

PW6d		Infrastructure support by producers/Brand owners to ULBs	[Nos of Producers]/[None]	None	None	None	None	None	None	None	None	None	Dec-20
PW6e		No of collection centers established by Producers/Brand owners to ULBs	[Nos]/[None]	None	None	None	None	None	None	None	None	None	Dec-20
(iii) C & D Waste Management													
No.	Action Areas	Details of Data Requirement	Units of Measurable Outcome	Measurable Outcome for District	ULB1	ULB2	ULB3	ULB4	ULB5	ULB6	ULB7		
	Name of the ULB		[Name of ULB]		CMC, Chitradurga	CMC, Hiriyur	CMC, Challakere	TMC, Hosadurga	TP, Holalkere	TP, Molakaluru	TP, Nayakanahatti		
	Population		[Nos as per 2011 census]	332958	145853	56416	55194	28370	15783	15797	15545		
CD1	Inventory of C & D waste generation												-
CD1a		Estimated Quantity	[Kg/Day]/[Not estimated]	1561.5	Not Estimated	3000 Kg/Day	1000 Kg/D	170Kg/D	110Kg/D	Not Estimated	No Estimated		Dec-20
CD2	Implement scheme for permitting bulk waste generators												Mar-21
CD2a		Issuance of Permissions by ULBs	[Initiated]/[Not initiated]	Not initiated	Not initiated	Not initiated	Initiated	Initiated	Initiated	Not initiated	Not initiated		-
CD3	Establishment of C&D Waste Deposition centers												-
CD3a		Establishment of Deposition points	[Yes]/[No]	No	No	No	Yes	Yes	No	No	No		Mar-21
CD3b		C&D Deposition point identified	[Yes]/[No]		No	No	Yes	Yes	No	No	No		Mar-21
CD4	Implementation of By-Laws for CD Waste Management												-
CD4a		Implementation of by-laws	[notified]/[not notified]		Notified	Notified	Notified	Notified	Notified	Not Initiated	Not Initiated		Mar-21
CD4b		Collection of Deposition/disposal charges	[Initiated]/[Not initiated]		Not Initiated	Not Initiated	Not Initiated	Not Initiated	Not Initiated	Not Initiated	Not Initiated		Mar-21
CD5	Establishment of C&D Waste recycling plant or linkage with such facility												-
CD5a		Establishment of 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	No facility exists	No facility exists	No facility exists		Mar-21

CD5b		Capacity of CD Waste Recycling Plant	[MT/Day]/[Not available]	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Mar-21

3.0 Domestic Sewage Management Plan												
No.	Action areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome for District	Proposal of attending the gap with timelines							
SM1	Inventory of Sewage Management											
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]	28 MLD								
SM1b		No of Class-II towns and above	[Nos]	2								
SM1c		No of Class-I towns and above	[Nos]	1								
SM1d		No of Towns needing STPs	[Nos]	7								
SM1e		No of Towns STPs installed	[Nos]	1								
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	0								
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	24 MLD								
SM1h		Quantity of sewage flowing into lakes	[MLD]	10								
SM1i		No of industrial townships	[Nos]	3								
SM2	Adequacy of Available Infrastructure for Sewage Treatment											
SM2a		% sewage treated in STPs	[Automatic]	36%	Mar-21							
SM2b		Total available Treatment Capacity	[MLD]	20 MLD								
SM2c		Additional treatment capacity required	[MLD]	20 (For 2 CMC, 1 TMC, 3 TP)								
SM3	Adequacy of Sewerage Network											
SM3a		No of ULBs having partial underground sewerage network	[Nos]	1								
SM3b		No of towns not having sewerage network	[Nos]	6								

SM3c		% population covered under sewerage network	[Automatic]	14%	
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		Details of Quantity of Waste Generated in TPD	
SI No	Type of Waste generated	Chitradurga District	Chitradurga Town
1	Municipal Solid Waste	134.78	62
2	Plastic Waste	6.06	2
3	Bio-medical Waste	0.294	0.1
4	Hazardous Waste	0.477	0.3
5	E-Waste	0	0
6	Battery Waste	0	0

3.0 Domestic Sewage Management Plan

No.	Action areas	Details of Data Requirement	Measurable Outcome	Measurable Outcome for District	Proposal of attending the gap with timelines
SM1	Inventory of Sewage Management				
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]	28 MLD	
SM1b		No of Class-II towns and above	[Nos]	2	
SM1c		No of Class-I towns and above	[Nos]	1	
SM1d		No of Towns needing STPs	[Nos]	7	
SM1e		No of Towns STPs installed	[Nos]	1	
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]	0	
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]	24 MLD	
SM1h		Quantity of sewage flowing into lakes	[MLD]	10	
SM1i		No of industrial townships	[Nos]	3	
SM2	Adequacy of Available Infrastructure for Sewage Treatment				
SM2a		% sewage treated in STPs	[Automatic]	36%	Mar-21
SM2b		Total available Treatment Capacity	[MLD]	20 MLD	
SM2c		Additional treatment capacity required	[MLD]	20 (For 2 CMC, 1 TMC, 3 TP)	
SM3	Adequacy of Sewerage Network				
SM3a		No of ULBs having partial underground sewerage network	[Nos]	1	
SM3b		No of towns not having sewerage network	[Nos]	6	
SM3c		% population covered under sewerage network	[Automatic]	14%	