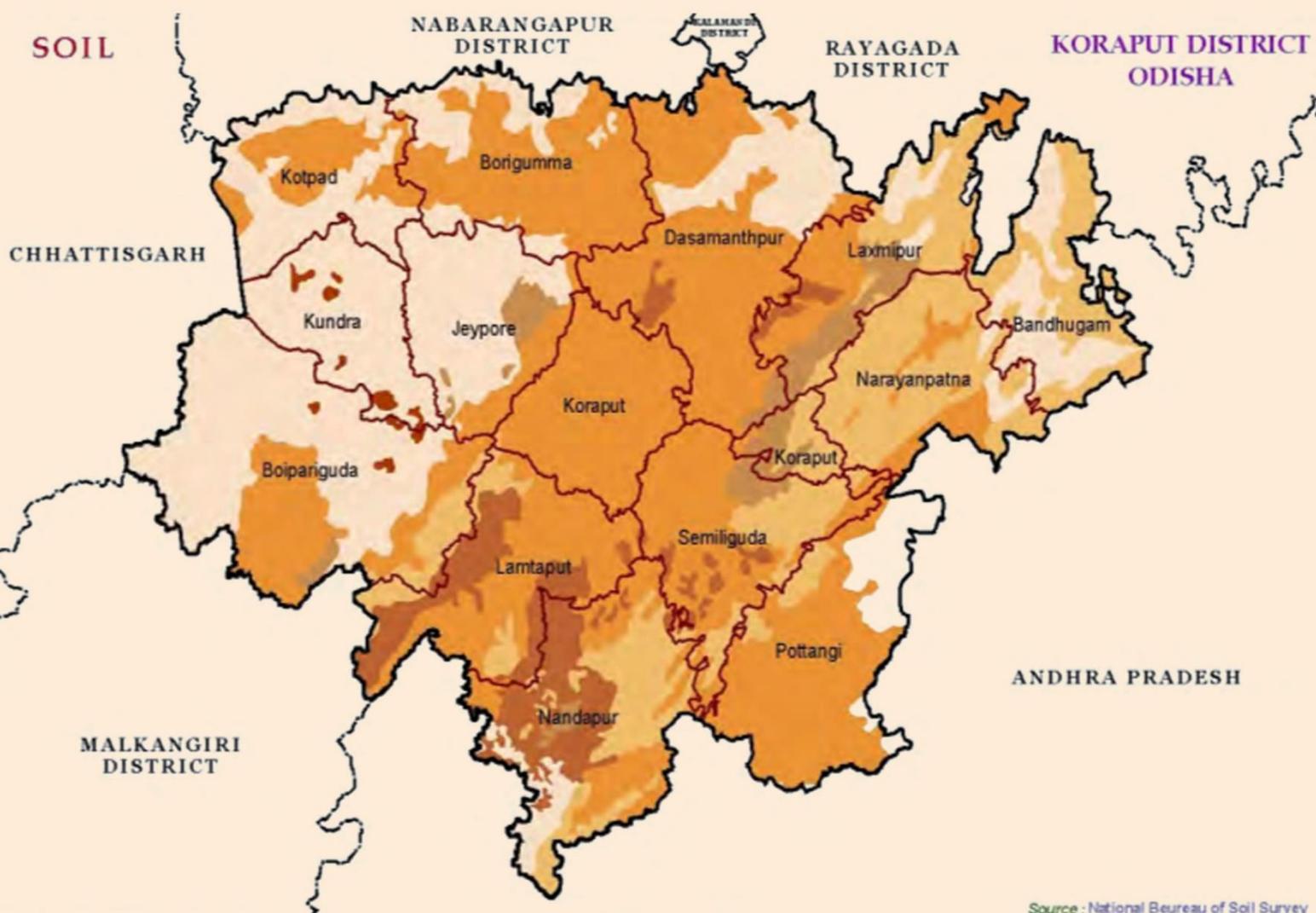


Year: 2022

# DISTRICT ENVIRONMENT PLAN KORAPUT, ODISHA



Source : National Beureau of Soil Survey



**Collector & District Magistrate**  
Collectorate, Koraput- 764020

E-Mail ID: [dm-koraput@nic.in](mailto:dm-koraput@nic.in)

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## 1.0 DISTRICT PROFILE

### (a) District Administrative Set-Up

Koraput District located in the backdrop of green valleys contemplating immaculate freshness, was established on 1st April, 1936. Decorated by forests, waterfalls, terraced valleys and darting springs, the District draws the nature loving people. The Koraput District lies at 17.4 degree to 20.7 degree North latitude and 81.24 degree to 84.2 degree east longitude. The District is bounded by Rayagada in the east, Bastar District of Chhatisgarh in the west and Malkangiri District in the south. As far as the history of the District is concerned, the region of Koraput existed far back in the 3rd century BC when it belonged to the valiant and dreaded Atavika people. The region was ruled by several dynasties, like Satavahans, Ikshvakus, Nalas, Ganga kings and kings of Suryavanshi, who nominated the Koraput region before the arrival of British. Finally the Koraput became a District in the year 1936.

The Koraput District covers an area of 8807 sq km consisting total 13, 79,647 populations as per 2011 census. The District has got 2 sub divisions namely Koraput and Jeypore. There are total 14 Tahasils, 14 Blocks, three Municipalities, one NAC, 23 Police stations, 2028 Villages and 240 Gram Panchayats functioning in the District of Koraput.

Koraput District experiences minimum 12.0 Celsius and maximum 38.0 Celsius temperature. The District experiences mainly three season's i.e. summer, winter and rainy. Summer occurs from April to June, Rainy season is from June to October and winter is from November to March. Winter season in Koraput District is longer than other parts of Odisha. The average rainfall in the District is measured to be 1505.8mm (Average) rainfall.

The Economy of Koraput District is primarily based upon forestry and agriculture (including shifting cultivation), the bulk of commodities used domestically for everyday use are agricultural and forest products. The District with semi evergreen to deciduous vegetation endowed with various wild plants as a natural resource. Agriculture is the mainstay of the Economy of the Koraput District because around 83 percent depends on it. The soil and climate in the District are favourable for taking up of agro horticultural activities. The suitability of soil and climatic condition for production of coffee, cashew, cotton, tobacco, vegetable and fruits and the production of these crops strengthen the economy of the Koraput District.

There are various historical places to be visited in the Koraput District. Places like Gupteswar Temple, Jeypore, Sabara Srikhetra, Koraput Museum, Duduma waterfall, Kolab dam, Damanjodi, Jain Monastery, Maliguda, Rani Duduma, Rani Gumpha, Deomali are the places that are visited by lots of tourists round the year.

District of Koraput celebrates many festivals with great enthusiasm. Common festivals of the District are Chaitra parab, Bali yatra, Sume Gelirak, Dashara feast, Sivaratri, Holi, Ratha yatra. Parab is the most important festival being celebrated every year in the district which includes dance, music and celebration

**(b) Local Institutions:**

<b>Education</b>		
Primary School (2017-18)	No. of Schools	2460
	Enrolment (No)	170430
	Pupil Teacher Ratio	22.14
Upper Primary School 2017-18	No. of Schools	573
	Enrolment (No)	51686
	Pupil Teacher Ratio	19.74
General College 2017-18	Junior	25
	Degree	15
	Medical College	01
	Govt. LAW College	01
Secondary School	No. of Schools	233
	Enrolment (No)	23074
	Pupil Teacher Ratio	31.70
Literacy Rate, 2011	Male	61.0
	Female	39.2

**(c) Natural Resources:***Water Bodies and availability of water resources:*

There are total 134 Nos. (67 each in both Forest Division) of water bodies have been created and 10 Nos. Water bodies have been renovated in different Forest Blocks to make water available for wildlife during summer season.

However there are 1162 water bodies with big and small sizes have been existed in Koraput District out of which the Kollab reservoir, Machkunda reservoir, Muran reservoir, Jhanjavathi River, Padwa River, Jagannath Sagar & Damayanti Sagar which are above 5.0 Ha. are large water bodies in Koraput District.

*Forest Coverage:*

Table 1: Category wise forest cover in Koraput Division

<b>Type</b>	<b>No of Blocks</b>	<b>Area (in Hectares)</b>
RF	61	30251.2037
PRF	125	39779.1841
DPF	61	23232.7944
VF	81	558.1600
RL	4	151.8100
PL	1	33.3700
CA	24	3203.8540
Total Forest Area	357	97210.3762
Unclassed Forest	--	40.1100
DLC Forest	--	10414.0803 (25732.84 Ac)

Table 2: Category wise forest cover in Jeypore Division

Sl. No	Category of Forest	No. of Blocks	Notification Area in Ha.
1	Reserved Forest (RF)	47	17608.4354
2	Proposed Reserve Forest (PRF)	44	32853.2425
3	DPF	18	3786.7214
4	Village Forest (VF)	143	1001.96
5	Protected Forest (PF)	05	16.371
6	DLC Forest	326	2005.00
7	Revenue Land	02	29002.4208
8	Revenue Forest	--	32137.24
	Total Forest		118411.3911

## (d) Geography & Demography:

### Geography:

This Forest Division comprises a part of Koraput District excluding Jeypore Subdivision. It lies between latitudes 18.240953 N to 19.209026 N and longitudes 82.395801E to 83.410552 E . The total geographical area of this division is 5337 Sq Km of which 22.6 % is the forest area under the administrative control of forest department.

### Demography:

Table 3: Population of Koraput District in 2011 and 2001

Description	2011	2001
Population	1379647	1180637
Male	678809	590743
Female	700838	589894
Population Growth	16.86%	14.67%

Table 4: Demographic details of Koraput district for 2011 and 2001

Description	2011	2001
Area sq. Km	8,807	8,807
Density/km <sup>2</sup>	157	134
Proportion to Odisha population	3.29%	3.21%
Sex ratio (per 1000)	1032	999
Child sex ratio (0-6 age)	979	983
Average literacy	49.21	35.72
Male literacy	60.32	47.2
Female literacy	38.55	24.26
Total child population (0-6 age)	2,25,126	2,00,689
Male population (0-6 age)	1,13,742	1,01,181
Female population (0-6 age)	1,11,384	99,508
Literates	5,68,090	3,50,044
Male literates	3,40,843	2,31,055
Female literates	2,27,247	1,18,989
Child proportion (0-6 age)	16.32%	17.00%
Boys proportion (0-6 age)	16.76%	17.13%
Girls proportion (0-6 age)	15.89%	16.87%

**(e) Land Use Pattern:**

Sl. No.	Items	Value																																						
1	Geographical Area (Ha.)	:	8,81,000.00																																					
2	Area under Forest (Ha.)	:	<table border="1"> <tr> <td>i)</td> <td>Koraput-1</td> <td>-</td> <td>1,20,680.95</td> </tr> <tr> <td>ii)</td> <td>Jeypore</td> <td>-</td> <td>1,18,411.39</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td>-</td> <td><b>2,39,092.34</b></td> </tr> </table>		i)	Koraput-1	-	1,20,680.95	ii)	Jeypore	-	1,18,411.39	<b>Total</b>		-	<b>2,39,092.34</b>																								
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3	Cultivable area (Ha.)	:	3,01,100.00																																					
4	Cultivated Area (Cropped Area) (Ha.)	:	<table border="1"> <tr> <td>i)</td> <td>High</td> <td>-</td> <td>1,83,690.00</td> </tr> <tr> <td>ii)</td> <td>Medium</td> <td>-</td> <td>78,530.00</td> </tr> <tr> <td>iii)</td> <td>Low</td> <td>-</td> <td>33,480.00</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td>-</td> <td><b>2,95,700.00</b></td> </tr> </table>		i)	High	-	1,83,690.00	ii)	Medium	-	78,530.00	iii)	Low	-	33,480.00	<b>Total</b>		-	<b>2,95,700.00</b>																				
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5	Irrigated Area (Ha.)	:	<table border="1"> <tr> <td>i)</td> <td>Major Irrigation Project</td> <td>-</td> <td>42,440.00</td> </tr> <tr> <td>ii)</td> <td>Minor Irrigation Project</td> <td>-</td> <td>5,780.00</td> </tr> <tr> <td>iii)</td> <td>LIP (Govt.)</td> <td>-</td> <td>25,730.00</td> </tr> <tr> <td>iv)</td> <td>LIP (Pvt.)</td> <td>-</td> <td>1,032.00</td> </tr> <tr> <td>v)</td> <td>Bore Well</td> <td>-</td> <td>9,320.00</td> </tr> <tr> <td>vi)</td> <td>Dug well</td> <td>-</td> <td>960.00</td> </tr> <tr> <td>vii)</td> <td>Water Harvesting Structure</td> <td>-</td> <td>8,017.00</td> </tr> <tr> <td>viii)</td> <td>Other sources (Pond/ Pump set/ Diversion weir/ Mega lift/ River lift/ Tenda etc.)</td> <td>-</td> <td>14,000.00</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td>-</td> <td><b>1,07,279.00</b></td> </tr> </table>		i)	Major Irrigation Project	-	42,440.00	ii)	Minor Irrigation Project	-	5,780.00	iii)	LIP (Govt.)	-	25,730.00	iv)	LIP (Pvt.)	-	1,032.00	v)	Bore Well	-	9,320.00	vi)	Dug well	-	960.00	vii)	Water Harvesting Structure	-	8,017.00	viii)	Other sources (Pond/ Pump set/ Diversion weir/ Mega lift/ River lift/ Tenda etc.)	-	14,000.00	<b>Total</b>		-	<b>1,07,279.00</b>
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6	Irrigated area % to total cropped area	:	36.27%																																					

**(e) Climate:**

The climate of the district is typically tropical to sub-tropical with three distinct seasons e.g. summer, winter and Monsoon. December & January is the coldest month with mean daily average temperature of 15 degree Celsius which reaches 38 degree Celsius in May. The rain fall in the area is mostly from the South west monsoon last from middle of June to October. The average annual rainfall varies from 1320.00 mm to 1520.00 mm

The district overall has a warm and humid type of climate, though significantly more pleasant than the rest of Odisha. Mean Maximum summer temperature 34.1 C and Mean Minimum Winter temperature is 10.4 C. The temperature on the 3000 feet plateau is often much lower and can approach close to freezing during peak winter at certain places.

## 2.0 INDICATIVE GAP ANALYSIS & ACTION PLAN FOR COMPLYING WITH WASTE MANAGEMENT RULES

### (i) Solid Waste Management

#### a. Current status related to solid Waste management

Sl. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day (TPD)
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	NA	NA	NA	NA
2	Municipalities (Nagar Palikas)				
	1. Koraput Municipality	21	11350	47468	25
	2. Jeypore Municipality	28	20256	83850	30
	3. Sunabeda Municipality	25	13642	50952	12.6
3	Nagar panchayats (Town area Councils)				
	1. Kotpad NAC	13	3870	16326	1.5

Note: NA- Not Applicable

Sl. No.	Local bodies	No of Village panchayats / Blocks	No of Households	Population	Solid Waste Generated per day (TPD)
1	Block / Taluk / Mandal Tehsils ##	14	296608	1542146	5.68
2	Village/ Gram Panchayats	1901/240			

## Total urban and village population (Sl 1 +2)

#### b. Identification of gaps and Action plan:

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
1	<b>Segregation</b>				
(i)	Segregation of waste at source	<ul style="list-style-type: none"> <li>About 50 to 60 % of Dry &amp; Wet wastes segregation at source being practiced during Door-to-Door collection.</li> <li>Domestic Hazardous wastes segregation not carried out.</li> <li>Identification of Bulk generators like apartments, Market complexes,</li> </ul>	<ul style="list-style-type: none"> <li>Regular awareness programme in Schools, Colleges and Societies etc.</li> <li>Supply of one set Blue &amp; Green coloured bins to each Households, Apartments, Market complexes (May be on payment basis)</li> <li>Awards, Incentives for best management</li> <li>Identification &amp; Declaration in</li> </ul>	<ul style="list-style-type: none"> <li>Koraput Municipality</li> <li>Jeypore Municipality</li> <li>Sunabeda Municipality</li> <li>Kotpad NAC</li> <li>All Grampanchayats</li> </ul>	3 months

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			Social Medias for Habitual violators including imposition of Penalties.		
<b>2</b>	<b>Sweeping</b>				
(i)	Manual Sweeping	<ul style="list-style-type: none"> <li>About 60% &amp; 90 % Paved roads in urban &amp; Rural areas respectively are not covered for regular sweeping.</li> <li>Manpower deployment in Urban &amp; Rural sector is about 30% &amp; 20% respectively than that of total requirements.</li> <li>No mechanized tools available.</li> <li>PPEs provision not adequate</li> </ul>	<ul style="list-style-type: none"> <li>Handy manual drive sweeping tools (vacuum type) &amp; small motorized equipment for transportation to main collection Points to reduce direct contact with wastes.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
(ii)	Mechanical Road Sweeping & Collection	<ul style="list-style-type: none"> <li>No provision of Mechanical Road sweeping systems</li> </ul>	<ul style="list-style-type: none"> <li>2 nos Truck mounted vacuum type road sweeping machines required for 4 lane/ 2 Lane roads per 50 km in urban areas.</li> <li>At least 1no tractor/small vehicle mounted vacuum type road sweeping machines required for single lane/ RD roads for Urban &amp; GP areas.</li> <li>Supply of adequate PPEs for sweepers &amp; workers.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	06 Months
<b>3</b>	<b>Waste Collection</b>				
(i)	100% collection of solid waste	<ul style="list-style-type: none"> <li>About 70 to 80% waste collection being carried out on daily basis by ULBs &amp; less than 50% in Rural areas.</li> <li>Inadequate collection Bins/ community Bins</li> </ul>	<ul style="list-style-type: none"> <li>Deployment of mechanical transportation systems.</li> <li>Clear Demarcation of waste collection stations.</li> <li>Fixing of responsibilities on Bulk generators for collection of segregated wastes.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(ii)	Arrangement for door to door collection	<ul style="list-style-type: none"> <li>• 100% &amp; 50% door to door collection systems provided at Koraput, Jeypore, Sunabeda &amp; Kotpad ULBs respectively.</li> <li>• No door to door collection systems in GPs.</li> </ul>	<ul style="list-style-type: none"> <li>• Deployment of outsourced agencies, NGOs in rest of Urban/Semi-Urban areas &amp; completely in Rural areas.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
(iii)	Waste Collection trolleys with separate compartments	<ul style="list-style-type: none"> <li>• 100% has been provided in narrow lanes &amp; Slums in ULBs.</li> <li>• Manual collection in most part of Rural areas</li> </ul>	<ul style="list-style-type: none"> <li>• 124 no. of BOV for waste collection Trolleys with separate compartments required for Urban &amp; Rural areas.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
(iv)	Mini Collection Trucks with separate compartments	<ul style="list-style-type: none"> <li>• 80% has been provided in narrow lanes &amp; Slums in ULBs.</li> <li>• Manual collection in most part of Rural areas</li> </ul>	<ul style="list-style-type: none"> <li>• Phase-out of existing Diesel mini collection Trucks &amp; switch over to 100% mini E vehicles with separate compartments</li> <li>• 37 mini collection Trucks required for Urban &amp; Semi Urban (Block Headquarters, ) areas respectively shall be replaced by Small E vehicles with separate compartments.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
(v)	Waste Deposition centres (for domestic hazardous wastes)	<ul style="list-style-type: none"> <li>• No provision has been made in Urban or in GPs.</li> </ul>	<ul style="list-style-type: none"> <li>• At least 2nos in each ULBs &amp; one in each GP Headquarters to be declared as Waste deposition centers for domestic Hazardous wastes &amp; to be linked with authorized recyclers for disposal.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
<b>4</b>	<b>Waste Transport</b>				
(i)	Review existing infrastructure for waste Transport.	<ul style="list-style-type: none"> <li>• Waste Transport facilities not adequate</li> <li>• No mechanical Transport facilities in GPs.</li> </ul>	<ul style="list-style-type: none"> <li>• Additional 4 nos &amp; 1 no Mini E Vehicles with separate compartments required for Koraput, Jeypore, Sunabeda &amp; Kotpad</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> </ul>	03 Months

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			ULBs respectively. • Tri cycle with separate compartments in each village & Mini E Vehicles with separate compartments in each GP Headquarters & for semi urban areas.	v. All Grampanchayats	
(ii)	Bulk Waste Trucks	• No Bulk waste Trucks available.	• At least 01 no Bulk waste Truck (preferably Truck) required for each ULB. Mini Trucks with separate compartments in each GP Headquarters & for semi urban areas.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
(iii)	Waste Transfer points	• No waste Transfer Points exist.	• At least one (1) Waste Transfer Point is required in each ULB for recyclable materials transportation to recyclers.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
<b>5</b>	<b>Waste Treatment and Disposal</b>				
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)	• Identification of Bulk waste generators in ULBs & GPs yet to be done. • Provision for direct supply of segregated vegetable wastes from Vegetable Markets, Mundies to Dairy farms & Gaushalas as cattle feeds.	• Listing of Bulk Waste generators in ULBs & GPs. • Provision of legal binding for installation & proper functioning of onsite composting facilities for Bulk waste Generators during approval of Building & other plans.	• ULBs authority • Town Planning & Development Authority • Block level authority	03 Months
(ii)	Wet-waste Management: Facility(ies) for central Bio methanation / Composting of wets waste.	• No facilities for central Biomethanation / Composting of wets waste.	• Central Biomethanation / Composting of wets wastes facility needs to be installed if Population exceeds 1 Lakh.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	<ul style="list-style-type: none"> <li>• One MRF exists in each ULBs.</li> <li>• No MRF in GP Headquarters.</li> <li>• No waste to Energy Plant.</li> <li>• No tie up with authorized recyclers.</li> </ul>	<ul style="list-style-type: none"> <li>• One MRF in each GP Head quarters</li> <li>• Feasibility study of one Waste to Energy plant considering 2 ULBs, Agro wastes from local villages etc.</li> <li>• Tie up with authorized recyclers for MRFs.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	<ul style="list-style-type: none"> <li>• No proper sanitary land fill sites exist.</li> <li>• Parts of SW still being disposed of by open dumping.</li> </ul>	<ul style="list-style-type: none"> <li>• At least one properly Designed Sanitary Land Fill site required in each ULB &amp; GP Head quarter for disposal of compost rejects, inert materials.</li> <li>• Ensure maximum Recovery, Reuse &amp; Recycle policy to minimize land filling.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	12 Months
(v)	Remediation of historic / legacy dumpsite	<ul style="list-style-type: none"> <li>• No legacy dump sites exist in ULBs.</li> <li>• No remediation of legacy dump sites has been initiated.</li> </ul>	<ul style="list-style-type: none"> <li>• Proper identification &amp; Remediation plan for each legacy dump sites in ULBs needs to be prepared &amp; implemented.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC	03 Months
(vi)	Involvement of NGOs	<ul style="list-style-type: none"> <li>• Involvement of NGOs yet to be envisaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of NGOs &amp; fund allocation required for management of solid waste campaign.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
(vii)	EPR of Producers: Linkage with Producers / Brand Owners	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months

S. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			responsibilities on whole sellers/ Vendors/ Market associations.		
(viii)	Authorisation of Waste Pickers	Yes	<ul style="list-style-type: none"> <li>Detail List preparation in each ULBs, GPs &amp; Semi Urban areas.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC	03 Months
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes	<ul style="list-style-type: none"> <li>No action required</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC	03 Months

## (ii) Plastic waste Management

### (a) Current status related to Plastic waste management

Sl. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day (TPD)
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	Not Applicable
2	Municipalities (Nagar Palikas)	1.83
3	Nagar panchayats (Town area Councils)	0.002

Sl. No.	Local Bodies	Plastic Waste Generated per day (TPD)
1	Block /Taluk / Mandal Tehsils	5.68
2	Village/Gram Panchayats	Not Available

### (b) Identification of gaps and Action Plan

Sl. No.	Action points for village panchayats/ blocks/ municipalities / corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1	Door to Door collection of dry waste including PW	<ul style="list-style-type: none"> <li>Identification yet to be done.</li> <li>Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>Listing of producers/Brand owners of packaging wastes.</li> <li>Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP headquarters.</li> <li>Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months

Sl. No.	Action points for village panchayats/ blocks/ municipalities / corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
			Market associations.		
2	Facilitate organized collection of PW at Waste transfer point or Material Recovery Facility	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
3	PW collection Centres	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
4	Awareness and education programs implementation	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
5	Access to Plastic Waste Disposal Facilities	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months

### (iii) C & D Waste Management

#### a. Current status related to C & D Waste

Details of Data Requirement	Present Status
Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities)	190.5
Does the District have access to C&D waste recycling facility?	No

#### b. Identification of gaps and Action plan:

S. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1	Arrangement for separate collection of C&D waste to C&D waste deposition point.	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
2	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
3	C&D recycling Facility	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
4	Usage of recycled C&D waste in non- structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> </ul>	03 Months

S. No. / town municipalities / City corporations	Action points for blocks Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan	
		& GP head quarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/Market associations.	v. All Grampanchayats		
5	ICE on C&D waste management	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months

#### (iv) Biomedical Waste Management

##### a. Current Status related to biomedical Waste

Inventory of water resources in District	Quantity
Total no. of Bedded Healthcare Facilities	32Nos
Total no. of non-bedded HCF	70Nos
No. of HCFs authorization of by SPCBs / PCCs	92Nos
No of Common Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)	Nil
Capacity of CBWTFs	Nil
No. of Deep Burials for BMW if any	214 Nos
Quantity of bio medical waste generated per day	in 828Kg/day
Quantity of bio medical waste treated per day	in 580 Kg/day

##### b. Identification of gaps and Action plan:

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory and Identification of Healthcare Facilities	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
2	Adequacy of facilities to treat biomedical waste	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda</li> </ul>	03 Months

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
		responsibility	in each ULBs & GP headquarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/ Market associations.	Municipality iv. Kotpad NAC v. All Grampanchayats	
3	Tracking of BMW	• Identification yet to be done. • Lack of legal provisions for fixing responsibility	• Listing of producers/ Brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs & GP head quarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
4	Awareness and education of healthcare staff	• Identification yet to be done. • Lack of legal provisions for fixing responsibility	• Listing of producers/ Brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs & GP head quarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
5	Adequacy of funds	• Identification yet to be done. • Lack of legal provisions for fixing responsibility	• Listing of producers/ Brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs & GP head quarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
6	Compliance to Rules by HCFs and CBWTFs	• Identification yet to be done. • Lack of legal provisions for fixing responsibility	• Listing of producers/ Brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs & GP headquarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/ Market associations.	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
7	District Level Monitoring Committee	• Identification yet to be done. • Lack of legal provisions for fixing responsibility	• Listing of producers/ Brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs & GP	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality	03 Months

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
			headquarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations.	iv. Kotpad NAC v. All Grampanchayats	
8	Wastewater Treatment	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months

## (v) Hazardous Waste Management

### a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	03 No.
Quantity of HW in the district	445.00 MT/Annum
(i) Quantity of Incinerable HW	17 MT/Annum
(ii) Quantity of Land-fillable HW	Nil
(iii) Quantity of Recyclable / utilizable HW	428 MT/Annum
No of captive/common TSDF	[Nos of integrated TSDF- Nil], [Nos of SLF- Nil]. [No of Standalone incinerators- Nil]
Contaminated Sites or probable contaminated sites	Probable contaminated sites -1 Nos

### b. Identification of gaps and action plan:

S. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1	Regulation of industries and facilities generating Hazardous Waste	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
2	Establishment of collection centres	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP head quarters.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> </ul>	03 Months

S. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
			<ul style="list-style-type: none"> <li>Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	v. All Grampanchayats	
3	Training of workers involved in handling recycling / disposal of HW	<ul style="list-style-type: none"> <li>Identification yet to be done.</li> <li>Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>Listing of producers/Brand owners of packaging wastes.</li> <li>Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
4	Availability / Linkage with common TSDF disposal facility	<ul style="list-style-type: none"> <li>Identification yet to be done.</li> <li>Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>Listing of producers/Brand owners of packaging wastes.</li> <li>Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP headquarters.</li> <li>Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months
5	Contaminated Sites	<ul style="list-style-type: none"> <li>Identification yet to be done.</li> <li>Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>Listing of producers/Brand owners of packaging wastes.</li> <li>Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs &amp; GP headquarters.</li> <li>Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	i. Koraput Municipality ii. Jeypore Municipality iii. Sunabeda Municipality iv. Kotpad NAC v. All Grampanchayats	03 Months

## (vi) E-Waste Management

### a. Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	Not available
Collection centers established by ULBs in the District	[Nil]
Collection centers established by Producers or their PROs	[1 No]
No authorized E-Waste recyclers / Dismantler	[Nil]

*b. Identification of gaps and action plan:*

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E-Waste / Bulk-waste generators	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
2	E-Waste collection points	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
3	Linkage among Stakeholders to channelize E-Waste	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
4	Regulation of Illegal E- Waste recycling / dismantling	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months
5	Integration of informal sector	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP head quarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
			responsibilities on whole sellers/ Vendors/ Market associations.		
6	Awareness and Education	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility</li> </ul>	<ul style="list-style-type: none"> <li>• Listing of producers/ Brand owners of packaging wastes.</li> <li>• Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs &amp; also fixing responsibilities on whole sellers/ Vendors/ Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>i. Koraput Municipality</li> <li>ii. Jeypore Municipality</li> <li>iii. Sunabeda Municipality</li> <li>iv. Kotpad NAC</li> <li>v. All Grampanchayats</li> </ul>	03 Months

### 3.0 AIR QUALITY MANAGEMENT

#### a. Current Status related to Air Quality Management

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations in the district.	
- Operated by SPCB / State Govt / Central govt./ PSU agency:	Nil
- Operated by Industry:	Nil
Number of manual monitoring States operated by SPCBs	01
Name of towns / cities which are failing to comply with national ambient air quality stations	[Nil]
No of air pollution industries	[189 Nos]
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	[Large Industry: 06 No/ Small Industry: 183 Nos/Industrial Estate/ Others]

#### b. Identification of gaps and action plan:

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	Identification of prominent air polluting sources.	Regular inspection & monitoring of air polluting Industries & Mines.	State Pollution Control Board, Odisha, Koraput	Continuing
		Regular & continuous monitoring of AAQ w.r.t. PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , Ammonia, Ozone etc in Industrial establishments & Mines.	State Pollution Control Board, Odisha, Koraput	Continuing
		Setting up of information network for identification of Pollution prone Zone	District Administration, Koraput  DFO Koraput  State Pollution Control Board, Odisha, Koraput	01months
2.	Ambient Air quality data	Creation of Public awareness to get access to SPCB & CPCB server for online Real time Data	State Pollution Control Board, Odisha, Koraput	Continuing
		Installation of Digital Display Board at Traffic square for Local AAQ.	District Administration, Koraput State Pollution Control Board, Odisha, Koraput  ULBs Authority, Koraput	06 months
		Display of Real time AAQ data of Industries at their main gate for Public views	State Pollution Control Board, Odisha, Koraput  Industry Authority	Continuing
3	Setting up of Continuous Ambient Air Quality Monitoring Station	Identification of at least one site for installation of OCAAQMS at District Headquarter	District Administration, Koraput  State Pollution Control Board, Odisha, Koraput	06 months

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
		Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Koraput State Pollution Control Board, Odisha, Koraput ULBs Authority, Koraput	06 months
4.	District Level Action Plan for Air Pollution	Regular inspection & monitoring of air polluting Industries & Mines.	State Pollution Control Board, Odisha, Koraput	Continuing
		Regular & continuous monitoring of AAQ w.r.t. PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , Ammonia, Ozone etc in Industrial establishments & Mines.	State Pollution Control Board, Odisha, Koraput	Continuing
		Use of at least 25% energy from renewable sources (Green Energy) in all Government offices, Commercial establishments, Industrial sectors.	District Administration, Koraput Energy Department, Koraput	06 months
		Shifting from Petrol/Diesel driven vehicles to Electric operated vehicles (At least 50%) in Government, Private sectors & individual levels.	District Administration, Koraput Road Transport Office, Koraput	06 months To prevent Air Pollution the Transport Department of Govt. of Odisha is encouraging Govt. and Private institutions as well as general public to use more and more electric operated vehicles instead of petrol/Diesel driven vehicles in this state.
		Promotion of E vehicles, CNG Taxies, improvements of comfortable Public Transport system.	District Administration, Koraput Road Transport Office, Koraput	So far as the RTO, Koraput is concerned, 30 nos of electric vehicles have been registered w.e.f. 01.09.2021 to 31.01.2022. Similarly 11 nos. of Pollution testing centres

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
				are being operated to check fuel Norms and issue of Pollution Certificate in this district. During enforcement checking 359 nos. of e-challns have been issued during current financial year up to 15.03.2022 against the vehicle owners for non production of Pollution Certificate and fine also realized.
		Identification, Development & Protection of at least 35% thick Forest area /Plantation Zone in each ULBs/ Block /GP of the District.	District Administration, Koraput DFO Koraput District Forest Office, Koraput	12 months
		Ensure Dust control in project construction sites	EE, PWD Department, Koraput EE, Rural Works Department, Koraput Contractors of the Project	0 month
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles& imposition of heavy penalty (Environmental compensation).	District Administration, Koraput District Forest Department, Koraput ULBs & GP authorities State Pollution Control Board, Odisha, Koraput Agriculture Department, Koraput	01 month
		All ULBs & GP Roads to be maintained dust free.	ULBs & GP authorities	03 months

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
5.	Hotspots of air pollution in District	Close watch on stubble burning, illegal waste burning, unauthorized operations, cluster activities, forest fires etc	District Administration, Koraput District Forest Office, Koraput State Pollution Control Board, Odisha, Koraput ULBs Authority, Koraput	Continuing
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles & imposition of heavy penalty (Environmental compensation).	District Administration, Koraput District Forest Office, Koraput State Pollution Control Board, Odisha, Koraput ULBs Authority, Koraput	01 month
	Awareness on Air Quality	Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Koraput State Pollution Control Board, Odisha, Koraput ULBs Authority, Koraput	06 months
		Receive of Public complaint through E mail.	State Pollution Control Board, Odisha, Koraput	Continuing

## 4.0 WATER QUALITY MANAGEMENT

### 4.1 Water Quality Monitoring

#### a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	1. Kolab river (known as Sabari river in its later course) (88 km. in Koraput District) 2. Indravati river (123 km. in Koraput District) 3. Machchkund river (Known as Sileru river) (253 km. in Koraput District)
Length of Coastline (if any)	[Nil]
Nalas/ Drains/Creeks meeting Rivers	18 nos Nala in Kolab river & 11 nos of nalas in Indravati river 23 nos of nalas in Machchkund river
Lakes / Ponds	[Water bodies: 55 Nos] and [Area in Hectares : 841]
Total Quantity of sewage from towns and cities in District	Town - [25 MLD]
Quantity of industrial wastewater	[50 MLD]
Percentage of untreated sewage	[98 %]
Details of bore wells and number of permissions given for extraction of groundwater	[Not available]
Groundwater polluted areas if any	[Not observed]
Polluted river stretches if any	Not reported

#### b. Identification of gaps and action plan for water quality monitoring:

S. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory of water bodies	Detail inventory of each category of water bodies yet to be done	Water Resources Department, Koraput State Pollution Control Board, Odisha, Koraput	Continuing
		Formation of District level Environment Monitoring Cell	District Administration, Koraput DFO, Koraput State Pollution Control Board, Odisha, Koraput	Continuing
		Regular monitoring of water quality of water bodies	State Pollution Control Board, Odisha, Koraput	01months
2.	Quality of water bodies in the district	Periodic check of water quality of major water bodies & Ground water based on their specific use.	State Pollution Control Board, Odisha, Koraput	03 months
3.	Hotspots of water contamination	Identification of pollution prone water bodies & Ground water	Water Resource Department, Koraput  State Pollution Control Board, Odisha, Koraput	06 months

S. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
		Monitoring of water quality on Regular interval.	State Pollution Control Board, Odisha, Koraput	06 months
		Restriction of use of Chemical Fertilizer, Pesticides, Herbicides etc in Agriculture & Horticulture & switch over to Bio Fertilizer, Bio Pesticides etc.	District Administration, Koraput District Forest Office, Koraput Agricultural Department, Koraput Horticulture Department, Koraput Soil Conservation Office, Koraput	06 months
		Preparation of remedial measures	Water Resource Department, Koraput State Pollution Control Board, Odisha, Koraput	
4	Protection of river / lake water front	Identification of areas of open defecation	ULBs authorities Authorities of GPs	06 months
		Campaign against open defecation & Provision of community Toilets wherever required	NGOs ULBs & GPs authorities	06 months
		Construction & maintenance of Idol Immersion Ponds at strategic locations near Water bodies.	District Administration, Koraput ULBs & GPs authorities.	03 months
		Free from encroachment of water bodies	District Administration, Koraput Water Resource Department, Koraput ULBs & GPs authorities.	06 months
		Strict enforcement of Solid Waste Management Rules, Shifting & reclamation of Legacy dumping sites from River banks, Lakes, Imposition of Heavy penalty for any dumping of SW in water bodies (Environmental compensation)	District Administration, Koraput State Pollution Control Board, Odisha, Koraput ULBs & GPs authorities.	06 months
		Preparation of self-sustainable River / Lake front Development Plan (Bathing Ghats, Joggers Park, Restaurants provision, Water sports, Lighting along River Banks, Aqua cultures to support Livelihoods of locals etc)	District Administration, Koraput Water Resource Department, Koraput ULBs & GPs authority	06 months
5.	Inventory of sources of water pollution	Identification of Drains, Sewer Lines outfalls in water bodies	Water Resource Department, Koraput State Pollution Control Board, Odisha, Koraput ULBs & GPs authority	06 months
		Identification of Solid wastes disposal area in & around Water bodies	State Pollution Control Board, Odisha, Koraput ULBs & GPs authority	06 months
		Identification & quantitative assessment of areas & type of Chemical Fertilizers, Pesticides & Herbicides being used in the District.	Agricultural Department, Koraput Horticulture Department, Koraput	02 months
		Preparation of remedial measures	District Administration,	06 months

S. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
			Koraput State Pollution Control Board, Odisha, Koraput Reputed Institutions/Agencies	
6	Oil spill disaster management (for coastal districts)	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
7	Protection of flood plains.	Regulation for protection of Flood Plain	District Administration, Koraput Water Resource Department, Koraput ULBs & GPs authority	06 months
		Identification of encroachment areas & initiation to prevent encroachment.	District administration, Koraput Water Resource Department, Koraput ULBs & GPs authority	06 months
8	Rejuvenation of groundwater	Identification & mapping of Ground Water status of Koraput District (Critical Zone, Safe Zone etc)	District Administration, Koraput Water Resources Department, / Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Koraput ULBs & GPs authority	06 months
		Identification of vulnerable areas of over exploitation of Ground water	Water Resources Department, Koraput/ Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Koraput	03 months
		Periodical Monitoring of Ground Water quality.	State Pollution Control Board, Odisha, Koraput Central Ground Water Authority, Bhubaneswar	Continuing
		Preparation of master plan for Rain water Harvesting Inclusion of Rain water harvesting (Roof top collection/Ground water Recharge) provisions in Bylaws of ULBs/GPs/Development authorities while approving Building Plan for Government offices, Commercial Establishments, Institutions & Individual Households. Assessments of Ground water withdrawal for Industrial / Agricultural/Domestic purposes & obtain of NOC from CGWA/WR Department in case water drawl exceed 10 m <sup>3</sup> /Day (Except exemption list).	ULBs/GPs/Area Development Authorities.  Central Ground Water Board/WR Department	
9	Complaints redressal system.	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Koraput State Pollution Control Board, Odisha, Koraput	Continuing
		Development of App.	District Administration, Koraput	06 months

## 4.2 Domestic Sewage

### a. Identification of gaps and action plan for treatment of domestic sewage

Details of Data Requirement	Present Status
No of Class-II towns and above	4 Nos
No of Class-I towns and above	Nil
No of Towns STPs installed	Nil
No of Towns needing STPs	4 Nos
No of ULBs having partial underground sewerage network	Nil
No of towns not having sewerage network	4 Nos
Total Quantity of Sewage generated in District from Class II cities and above	MLD
Quantity of treated sewage flowing into Rivers (directly or indirectly)	MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	MLD
Quantity of sewage flowing into lakes	MLD
Total available Treatment Capacity	Nil

### b. Identification of gaps and action plan for treatment of domestic sewage:

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1	Sewage Treatment Plants (STPs)	No STP available in the District except in the Industrial Township of NALCO, Damanjodi & HAL Sunabeda. Identification of areas (covering nos of wards) in each ULBs, Semi urban Towns (Block Headquarters) etc & preparation of feasibility report for setting up of STPs based on Decentralized concept.	District Administration, Koraput Authority of ULBs/GPs/Development Agencies	06 months
		Individual STPs for Apartments, Hospitals (more than 30 beds), Institutions, Industrial Townships etc.	District Administration, Koraput State Pollution Control Board, Odisha, Koraput Authority of ULBs/GPs/Development Agencies	06 months
2	Underground sewerage network	Laying of sewerage system for each STP	Housing & Urban Department, Odisha Authority of ULBs	12 months
		Installation & commissioning of STP	Housing & Urban Department, Odisha Authority of ULBs Odisha Water Supply & Sewerage Board.	12 months

## 5.0 INDUSTRIAL WASTEWATER MANAGEMENT

### a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the district	Red: 08 nos, Orange: 112 nos, Green: 85 nos, White: Not available
No of Industries discharging wastewater	30 Nos
Total Quantity of industrial wastewater generated	125.225 MLD, Approx
Quantity of treated industrial wastewater discharged into Nalas / Rivers	NALCO : 88.5 MLD + BILT: 24.0 MLD= [ 112.5 MLD] Presently BILT is not in operation.
Common Effluent Treatment Facilities	Nil
No of Industries meeting Standards	30 Nos
No of Industries not meeting discharge Standards	Nil

### b. Identification of gaps and action plan for industrial wastewater:

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1	Compliance to discharge norms by Industries	Inspection & Monitoring of discharge effluent quality on Regular basis	State Pollution Control Board, Odisha, Koraput	Continuing
		Installation of online Effluent Quality Monitoring Systems (OEQMS) with Real Time Data Transmission facilities to SPCB/CPCB server for Large Industries	State Pollution Control Board, Odisha, Koraput	OEQMS already installed by NALCO (refinery) & Umeri Distillery Unit.
2	Complaint redressal system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Koraput  State Pollution Control Board, Odisha, Koraput	Continuing
		Development of App.	District Administration, Koraput	06 months

## 6.0 MINING ACTIVITY MANAGEMENT PLAN

### a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Nalco Bauxite Mining – 1483.835 Ha Kodingamali Bauxite Mining – 434.935 Ha Ampabali limestone mining – 10.85 Ha
0No of licenced Mining operations in the District	Sand mines – 13 (81.149 Ha) Stone quarry – 88 (246.345 Ha) Morrum quarry – 7 (10.33 Ha)
% Area covered under mining in the district	0.256 %
Area of Sand Mining	0.811 Sq Km
Area of sand Mining	0.489 Sq km River bed

### b. Identification of gaps and action plan:

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Monitoring of Mining activity	Constitution of District Level Task Force	District Administration, Koraput/ State Pollution Control Board, Odisha, Koraput/ Mining Department, Koraput/ Police Department, Koraput	01 month
		Installation of online Effluent Quality Monitoring Systems (OEQMS) with Real Time Data Transmission facilities to SPCB/CPCB server for Large Industries	State Pollution Control Board, Odisha, Koraput	As & when Industry shall be fully operational.
2	Inventory of illegal mining if any mining	Surveillance & Patrolling.	District Level Task Force, Koraput	01 month
		Use of GPS for Transportation of minerals.	District Administration, Koraput Mining Department, Koraput	06 months
3	Environment compliance by Mining industry	Inspection & Monitoring of Mines on Periodic basis	District Administration, Koraput  State Pollution Control Board, Odisha, Koraput	Continuing

## 7.0 NOISE POLLUTION MANAGEMENT PLAN

### a. Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	[SPCB, Odisha, Koraput, Police Dept. Koraput] [2 +]

### b. Identification of gaps and action plan:

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1	Availability of Sound/Noise Level Meters.	Procurements of Noise Level Meters with Data Loggers (Recommended specifications) for Police Department, Koraput, District Administration, Koraput, Traffic Department, Koraput & SPCB, Odisha, Koraput.	District Administration, Koraput State Pollution Control Board, Odisha, Koraput Police Department, Koraput	02 months
2	Ambient Noise Level monitoring	Training to Field officers & Staff for operation, Data evaluation & reporting using Noise Level meter w.r.t. legal compliances.	State Pollution Control Board, Odisha, Koraput	03 months
		Installation of online Noise Level Monitoring Systems with Real Time Data Display facilities at Noise prone area/ Silence Zones.	District Administration, Koraput Police Department, Koraput	06 months
3	Signboards in Noise zones	Identification of No Horn Zone in ULBs, Semi Urban Towns(Block Head quarters)	District Administration, Koraput Police Department, Koraput	01 month
		Provision of Sign Boards in Silence Zones/Sensitive Zones.	District Administration, Koraput Police Department, Koraput	02 months
	Complaint redressing system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Koraput Police Department, Koraput	Continuing
		Development of App.	District Administration, Koraput Police Department, Koraput	06 months
		Imposition of Penalty for Violators	District Administration, Koraput Police Department, Koraput	Continuing

## 8.0 WETLAND MANAGEMENT PLAN

The total geographical area of Koraput district is 8807 sq. km. The wetland area in the district is estimated to be 26307 ha. This include 1404 wetlands < 2.25 ha discerned as point features and 229 wetlands > 2.25 ha. The major wetland types are Reservoir/Barrage (18833 ha) accounting for about 72 percent of wetland extent and River/ Stream (4908 ha). Open water registered about 21 percent seasonal decline from post-monsoon (24124 ha) to pre-monsoon (19007 ha). On the other hand the aquatic vegetation has registered nearly ten-fold increase from post-monsoon (597 ha) to 5715 ha in pre-monsoon. Moderate turbidity accounted for majority extend of open water in both the seasons followed low and high levels of turbidity.

### a. Current Status related to Wetland Management Plan

Details of Data Requirement	Measurable Outcome
No. of Wetland and its extent	No- 1633; Area = 26307 in Ha.

Sr. No.	Wetland Category	No. of wetlands	Total wetland area (in Ha)
<b>Inland Wetlands - Natural</b>			
1	Ox-bow lakes/ Cut-off meanders	11	83
2	Riverine Wetlands	6	39
3	Waterlogged	28	181
4	River/Stream	101	4908
<b>Inland Wetlands - Man-made</b>			
5	Reservoirs/Barrages	26	18833
6	Tanks/Ponds	55	841
7	Waterlogged	2	18
<b>Total - Inlands</b>		<b>229</b>	<b>24903</b>
Wetlands (<2.25 ha)		1404	1404
<b>Total</b>		<b>1633</b>	<b>26307</b>

### b. Identification of gaps and action plan:

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1	Sewerage discharge	Inadequate knowledge on water and aquatic land pollution. Load based assessment of Sewerage and additional STP for treatment of sewerage	ULB	6 months
	Disposal of Solid & Other Waste	Unscientific disposal of solid waste into wetland. Load based assessment of Solid waste & other waste. Identification of additional land-fill sites and promotion of SLF	ULB	12 months
	Water quality testing	Any such initiative of monitoring of water quality of wetland is not yet been taken up by OSPCB. Sampling in every quarter for testing and provision for mobile lab for on-site testing, Empanelment of private testing labs	SPCB	Half-yearly
	Preventing siltation	Almost all wetland silted up over the years and water bearing capacity got	Water resource department	Occasional

Sl no	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
		reduced. De-siltation of the water bodies. Impose penalty clause on disposal of waste into wetland		
	Demarcation of flood protection zone	Any such demarcation is yet not been done. Special initiative/ study require for such demarcation.	Water resource department	One time
	Removal of Encroachment	Massive encroachment found specially in urban area. Revenue authorities along with DoWR and ULB officials will make inspection of drainage areas for removal of encroachment	District Administration(Revenue Authorities)	1 year

Member Convenor-Cum-DFO,  
Koraput Forest Division

Chairman-Cum- Collector & DM,  
Koraput