



REGD. POST

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Letter No. 6475 /4F, Misc- 2022,  
Dated, Nabarangpur the 17 th December, 2022.

To

The Director, Environment-Cum- Spl. Secretary to Govt.  
Forest, Environment & Climate Change Department,  
Odisha, Bhubaneswar.

Sub: - Submission of District Environment Plan in compliance to the Order  
dtd.21.09.2020 of O.A No.829/2019, Order Dt.05.07.2021 of O.A  
No.360/2018 and order dt.25.11.2021 of O.A No.351/2019 passed by  
Hon'ble NGT.

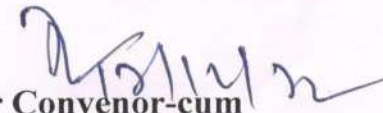
Ref: - Letter No.FE-Env3-ENV-0005-2018/20950/FE&CC Dtd.25.11.2022.

Sir,

In inviting a kind reference to the letter on the subject cited above, I am  
submitting herewith the modified District Environment Plan of Nabarangpur District  
for favour of your kind information and necessary action.


Encl: -As above.

Yours faithfully,

  
Member Convenor-cum  
Divisional Forest Officer,  
Nabarangpur Forest Division.

Memo No. 6476 /4F (Misc.) Date. 17/12/2022.

Copy forwarded to the Member Secretary State Pollution Control Board,  
Odisha for favour of kind information and necessary action.

  
Member Convenor-cum  
Divisional Forest Officer,  
Nabarangpur Forest Division.

# DISTRICT ENVIRONMENT PLAN NABARANGPUR



## Collector & District Magistrate, Nabarangpur

District Collectorate, Nabarangpur- 764059

E-Mail:dm-nawarangpur@nic.in

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## 1.0 DISTRICT PROFILE

### (a) District Administrative Set-Up

The District of Nabarangpur came into existence on 2nd October 1992 after being carved out of the erstwhile Koraput district. The District is located in south western corner of Odisha and bounded by Kalahandi and Koraput district in east and south, and the Raipur and Baster district is located at 81° 52' to 82° 53' longitude and 19° 9' to 20° 5'N latitude and stretches over an area of approximately 5291 sq.km. Nabarangpur district constitute one sub-division, 10 No Tahasils, 10 No of CD blocks, 3 No of Census Towns, 2 No of Municipality, 13 No of Police stations, 189 No of GPs, 891 no of villages out of which 868 villages Inhabited and 23 No of Villages Uninhabited, 4 No of Assembly constituencies and one no of Parliamentary constituencies.

The Agro climatic region of the District consists of Eastern Ghat High Land and Western undulating lands. While 9 out of the 10 Blocks are included in the former category, only one Block i.e. Dabugam Block came under the later category. The whole region of the District belongs to East Coast Plains and hills under Agro climatic zone.

The Tribal dominating District of Nabarangpur has a relatively low literate population. The District holds total literates 490156 (Male 298688 and Female 191468). Many educational Institutes are serving in the District of Nabarangpur. The District has one Technical Institute i.e Women's I.T.I of Umerkote. Govt. Secondary Training School, Nabarangpur and Govt. Secondary Training School, Umerkote are the professional Training Colleges running in the District. Jabahar Navadaya Vidyalaya, Khatiguda is the Central Government run special School also serving the Educational requirement of the District.

Mondei is the widely celebrated festival of Nabarangpur District. This festival is usually celebrated after the harvesting of crops. Most areas of Nabarangpur District experience the first arrival of monsoon much before the rest of the state. While the rest of Orissa gets rain due to monsoon from the Bay of Bengal, the whole of Nabarangpur gets it straight from the Arabian Sea, through the Southwest direction. The whole of this District enjoys 16912.57 mm total rainfall and 1631.40 mm normal rainfall annually. Notably the Plateaus which are located in between 2,000 and 3,000 feet remains cool round the year.

The Sahid Smruti Stambha is situated at the bank of the river Tuni near Papadahandi. During the Quit India Movement on August 24, 1942, 19 freedom fighters died while fighting with British soldiers during the march towards Dabugam under the leadership of Madhab Pradhani. To keep it in memory of them Sahid Stamba was constructed and every year on 24 August Sahid Divas is observed. The spot still commemorates the freedom-loving people of the bygone era. Sahid Smrutistamba is 12 km away from Nabarangpur. One can hire taxi from Nabarangpur to reach Sahid Smruti Stamba. The Deer Park of Nabarangpur District also attracts a large crowd. Watching Natures bounties from the watchtower in this park is a unique experience. One can reach hiring Taxis and auto-rickshaws to Deer Park that is 10 km from Nabarangpur towards Papadahandi. Panchavati Bana and Shree Bana Forest Park attracts tourists and the residents of Nabarangpur for eco-tourism.



**(b) Local Institutions**

Education institutions		
Schools	No. of Schools	1952
General College	Junior College	18
	Degree College	8
Literacy Rate, 2011	Male	57.31
	Female	35.80

**(c) Natural resources:*****Waterbodies and Availability of water resources:***

The district has vast scope for exploitation of ground water as all the 10 blocks are categorized as "Safe". There is enormous scope for exploitation of ground water through dug wells, bore wells and surface water through flow and lift irrigation projects.

***Forest coverage: Nabarangpur Forest Division*****FOREST AREA AND DISTRIBUTION**

In to this plan covers 148 Forest Blocks which from 28.57% of the total geographical area (5294 km<sup>2</sup>) of Nabarangpur District.

Range wise and Class wise Forest Block distribution in Nabarangpur Forest Division.										
NAME OF THE RANGE	RESERVED FORESTS		PROPOSED RESERVED FORESTS		RESERVED LANDS		PROTECTED FORESTS		TOTAL NO. OF FOREST BLOCKS AND AREA AS PER NOTIFICATION	
	NO.	AREA (IN HA.)	NO.	AREA (IN HA.)	NO.	AREA (IN HA.)	NO.	AREA (IN HA.)	NO.	AREA (IN HA.)
NABARANGPUR	24	6425.0778	17	4066.9436	1	500.21	-	-	42	10992.2314
UMERKOTE	14	18850.2583	12	3879.0575	1	29135.57	1	18.06	28	51882.9458
JHARIGAM	9	5067.6495	17	44002.7235	-	-	-	-	26	49070.373
KODINGA	5	2464.4611	8	4960.6102	-	-	-	-	13	7425.0713
DABUGAON	13	8870.6841	13	9267.3468	-	-	-	-	26	18138.0309
RAIGHAR	7	11855.4234	6	2401.3684	-	-	-	-	13	14256.7698
	72	53533.5542	73	68578.0500	2	29635.78	1	18.06	148	151765.4442

**(d) Geography & Demography:*****Geography:***

The District has a total geographical area of 5294 sq km, out of which the forest area of the district constitutes 2462 sq kms which amounts to 46.5% of the total geographical area.

**Demography:***Population of Nabarangpur District in 2011 & 2001*

Description	2011	2001
Population	12,20,946	10,25,766
Male	6,04,812	5,15,162
Female	6,16,134	5,10,604
Population Growth	19.03%	21.15%

*Demography details of Nabarangpur District in 2011 & 2001*

Description	2011	2001
Area Sq. Km	5,291	5,291
Density/km <sup>2</sup>	231	194
Proportion to Orissa Population	2.91%	2.79%
Sex Ratio (Per 1000)	1019	991
Child Sex Ratio (0-6 Age)	998	999
Average Literacy	46.43	33.93
Male Literacy	57.31	47.04
Female Literacy	35.80	20.67
Total Child Population (0-6 Age)	207,911	187,048
Male Population (0-6 Age)	104,077	93,588
Female Population (0-6 Age)	103,834	93,460
Literates	470,379	284,538
Male Literates	286,984	198,294
Female Literates	183,395	86,244
Child Proportion (0-6 Age)	17.03%	18.23%
Boys Proportion (0-6 Age)	17.21%	18.17%
Girls Proportion (0-6 Age)	16.85%	18.30%

**(e) Land Use Pattern:**

Sl. No.	Items	Value	
1	Geographical Area (Ha.)	4,82,566.11	
2	Area under Forest (Ha.)	1,58,340.00	
3	Cultivable Area (Ha.)	i) High	1,33,944.00
		ii) Medium	38,342.00
		iii) Low	29,135.00
		<b>Total</b>	<b>2,01,421.00</b>
4	Cultivated Area (Cropped Area) (Ha.)	i) High	38,873.00
		ii) Medium	38,342.00
		iii) Low	29,135.00
		<b>Total</b>	<b>1,06,350.00</b>
5	Irrigated Area (Ha.)	i) Medium Irrigation Project	4,250.00
		ii) Minor Irrigation Project	5,591.00
		iii) Check Dam	2,491.00



	iv)	River Lift LIP (Govt)	14,264.00
	v)	Borewell LIP (Govt)	20,250.00
	vi)	OIAC LIP (Govt)	4,410.00
	vii)	OIAC Jalanadhi-II MRLP	2,490.00
	viii)	LIP (Pvt)	321.00
	ix)	Farm Pond	770.00
	x)	Water Harvesting Structure (WHS)	312.00
	xi)	Dug Well	2,745.00
	xii)	Other Sources	7,648.00

### (f) Climate:

The climate is sub-tropical to temperate. The Division is characterized by tropical monsoon type of climate. Four distinct seasons i.e., summer, rain, autumn and winter are experienced during the year. The summer season is from March to mid-June, the rainy season from mid-June to September, the autumn season in from October to November and the winter is from December to February.

## 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
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	NA	NA	NA	NA
2	Municipalities (Nagar Palikas)				
	1. Nabarangpur Municipality	17	7195	34470	7.92 Ton
	2. Umerkote Municipality	14	6550	28993	3 Ton
3	Nagar panchayats (Town area Councils)	NA	NA	NA	NA

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*	10	2,73,423	12,20,946	10.92
2	Village/Gram Panchayats	891/189			

\*Total Urban and village population (Sl. No. 1 + 2)

## b. Identification of Gaps and Action plan:

Sl. No.	Action points for villages/ blocks/ town municipalities/ City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
<b>1</b>	<b>Segregation</b>				
(i)	Segregation of waste at source	<ul style="list-style-type: none"> <li>About 50 or 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 &amp; other pvt. societies, etc.</li> <li>Supply of one set Blue &amp; Green Coloured bins to each household, apartments, market complex (may be on payment basis)</li> <li>Awards, incentives for best management.</li> <li>Identification &amp; declaration in social medias for habitual violators including imposition of penalties.</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 months
<b>2</b>	<b>Sweeping</b>				
(i)	Manual Sweeping	<ul style="list-style-type: none"> <li>About 60% &amp; 90% tabbed roads in urban and rural areas respectively are not covered for regular sweeping.</li> <li>Manpower deployment in urban and rural sector is about % &amp; % respectively then that of total requirements.</li> <li>No mechanised tools available</li> <li>PPEs is provision not adequate.</li> </ul>	Handy manual drive sweeping tools (vacuum type) & small motorized equipment for transportation to main collection Points to reduce direct contact with wastes.	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 months
(ii)	Mechanical Road Sweeping & collection	No provision of Mechanical road sweeping	<ul style="list-style-type: none"> <li>2nos Truck mounted vacuum type road</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote</li> </ul>	3 months



		systems	<p>sweeping machines required for 4 lane/ 2 Lane roads per 50 km in urban areas.</p> <ul style="list-style-type: none"> <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>	<p>Municipality</p> <ul style="list-style-type: none"> <li>• All Gram Panchayats</li> </ul>	
<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>• Development of mechanical transportation system.</li> <li>• Clear demarcation of waste collection stations.</li> <li>• Fixing of responsibilities on bulk generators for collection of segregated wastes.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
(ii)	Arrangement for door-to-door collection	<ul style="list-style-type: none"> <li>• 100 % door-to-door collection system provided at Nabarangpur and Umerkote ULBs respectively.</li> <li>• No door-to-door collection systems in GPs.</li> </ul>	Deployment of outsourced agencies, NGOs in rest of Urban/Semi-Urban areas and completely in Rural areas	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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>	Additional nos waste collection Trolleys with separate compartments required for Urban & Rural areas.	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
(iv)	Mini collection Trucks with separate	<ul style="list-style-type: none"> <li>• 80 % has been provided in narrow lanes &amp;</li> </ul>	<ul style="list-style-type: none"> <li>• Phase-out of existing Diesel mini collection</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote</li> </ul>	3 months

	compartments	slums in ULBs. • Manual collection in most part of Rural Areas.	Trucks & switch over to 100% mini-E-Vehicles with separate compartments. • 25 nos. of mini collection Trucks required for Urban & Semi Urban (Block Headquarters, ) areas respectively shall be replaced by Small E vehicles with separate compartments.	Municipality • All Gram Panchayats	
(v)	Waste Deposition centers (for domestic hazardous wastes)	No provision has been made in Urban or in GPs.	Atleast 2 nos. in each ULBs & 1 in each GP Headquarters to be declared as waste deposition centers for domestic hazardous wastes & to be linked with authorized recyclers for disposal.	• Nabarangpur Municipality • Umerkote Municipality • All Gram Panchayats	3 months
<b>4</b>	<b>Waste Transport</b>				
(i)	Review existing infrastructure for waste Transport.	• Waste Transport facilities not adequate. • No mechanical Transport facilities in Gram Panchayats.	• Additional 4nos & 1 no Mini E Vehicles with separate compartments required for Nabarangpur & Umerkote ULBs respectively. • Tri cycle with separate compartments in each village & Mini E Vehicles with separate compartments in each GP Headquarters & for semi urban areas.	• Nabarangpur Municipality • Umerkote Municipality • All Gram Panchayats	3 months
(ii)	Bulk Waste Trucks	No Bulk waste truck available.	• Atleast 1 no. Bulk waste Truck required for each ULB. • Mini E Trucks with separate	• Nabarangpur Municipality • Umerkote Municipality • All Gram Panchayats	3 months



			compartments in each GP Headquarters & semi Urban Areas.		
(iii)	Waste Transfer Points	No waste Transfer Points.	<ul style="list-style-type: none"> <li>At least 01 no Bulk waste Truck (preferably E Truck) required for each ULB. Mini E Trucks with separate compartments in each GP Headquarters &amp; for semi urban areas.</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 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)	<ul style="list-style-type: none"> <li>Identification of Bulk waste generators in ULBs &amp; GPs yet to be done.</li> <li>Provision for direct supply of segregated vegetable wastes from Vegetable Markets, Mundies to Dairy farms &amp; Gaushalas as cattle feeds.</li> </ul>	<ul style="list-style-type: none"> <li>Listing of Bulk Waste generators in ULBs &amp; GPs.</li> <li>Provision of legal binding for installation &amp; proper functioning of onsite composting facilities for Bulk waste Generators during approval of Building &amp; other plans.</li> </ul>	<ul style="list-style-type: none"> <li>ULBs authority</li> <li>Town Planning &amp; Development Authority</li> <li>Block level authority.</li> </ul>	3 months
(ii)	Wet-waste Management: Facility(ies) for central Bio methanation/ Composting of wets waste	<ul style="list-style-type: none"> <li>No facilities for central Biomethanation / Composting of wets waste.</li> </ul>	<ul style="list-style-type: none"> <li>Central Biomethanation / Composting of wets wastes facility needs to be installed if Population exceeds 1 Lakh.</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 months
(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>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 months
(iv)	Disposal of inert and nonrecyclable 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</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</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram</li> </ul>	12 months

		by open dumping.	quarter for disposal of compost rejects, inert materials. • Ensure maximum Recovery, Reuse & Recycle policy to minimize land filling.	Panchayats	
(v)	Remediation of historic / legacy dumpsite	<ul style="list-style-type: none"> <li>Nos of 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>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> </ul>	3 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>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 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 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>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> <li>All Gram Panchayats</li> </ul>	3 months
(viii)	Authorisation of Waste Pickers	Yes (√)/No	<ul style="list-style-type: none"> <li>Detail List preparation in each ULBs, GPs &amp; Semi Urban areas.</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> </ul>	3 months
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes (√)/No	<ul style="list-style-type: none"> <li>No action required</li> </ul>	<ul style="list-style-type: none"> <li>Nabarangpur Municipality</li> <li>Umerkote Municipality</li> </ul>	3 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
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	NA
2	Municipalities (Nagar Palikas) Nabarangpur & Umerkote Municipality	0.85 TPD
3	Nagar panchayats (Town area Councils)	Not Available
4	Local Bodies	Plastic Waste Generated per day
5	Block /Taluk / Mandal Tehsils	Not Available
6	Village/Gram Panchayats	

## b. Identification of gaps and Action Plan

Sl. No.	Action points for villages/ blocks/ town municipalities/ City corporations	Identification of gap	Action Plan	Responsible agencies	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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

3	PW collection centers	<ul style="list-style-type: none"> <li>• Identification yet to be done.</li> <li>• Lack of legal provisions for fixing responsibility.</li> </ul>	<p>associations.</p> <ul style="list-style-type: none"> <li>• Listing of procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
4.	Awareness and Education programs implantation	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

## (iii) C &amp; D Waste Management:

## a. Current Status related to C &amp; D waste

Details of Data Requirement	Present Status
Total C & D waste generation in MT per day	0.533 MT



(As per data from Municipal Corporations/ Municipalities) Nabarangpur & Umerkote Municipality	
Does the District have access to C & D waste recycling facility?	No

b. *Identification of gaps and Action Plan*

Sl. No.	Action points for blocks/ town municipalities/ City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for computation of action plan
1	Arrangement for separate collection of 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 1 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

			responsibilities on whole sellers/ Vendors. Market associations.		
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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

## (iv) Bio Medical Waste Management:

a. *Current Status related to Biomedical waste*

<b>Inventory of water resources in District</b>	<b>Quantity</b>
Total no. of Bedded Healthcare facilities	52
Total no. of Non-Bedded HCF	15
No. of HCFs authorization of by SPCBs/PCCs	Nil
No. of common biomedical waste treatment and disposal facilities (CBMWTFs)	1
Capacity of CBWTFs	Nil
No. of Deep Burials for BMW if any	1
Quantity of bio medical waste generated per day	60 kg/day
Quantity of bio medical waste treated per day	Nil

b. *Identification of gaps and Action Plan*

<b>Sl. No.</b>	<b>Action points</b>	<b>Gaps</b>	<b>Action Plan</b>	<b>Responsible agencies</b>	<b>Timeline for completion of</b>
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					<b>action plan</b>
1	Inventory and identification 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
2	Adequacy of facilities to treat bio medical 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
3	Tracking of BMW	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
4	Awareness & Education of Healthcare Staff	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

			<p>Brand owners in each ULBs &amp; GP headquarters.</p> <ul style="list-style-type: none"> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>		
5	Adequacy of funds	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
6	Compliance to rules by HCFs and CBWTFs	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
7	District level monitoring committee	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months



			whole sellers/ Vendors. Market associations.		
8	Waste water 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

## (v) Hazardous Waste Management:

## a. Current Status related to Hazardous waste Management

Details of Data Requirement	Present Status
No. of Industries generating HW	1
Quantity of HW in the District	--
(i) Quantity of incinerable HW	--
(ii) Quantity of land-fillable HW	Nil
(iii) Quantity of Recyclable/ utilizable HW	--
No. of captive/ common TSDF	--
Quantity of bio medical waste generated per day	--
Contaminated Sites or probable contaminated sites	--

## b. Identification of gaps and Action Plan

Sl. No.	Action points	Identification of Gaps	Action Plan	Responsible agencies	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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> </ul>	3 months

2	Establishment of collection centers	<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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> </ul>	3 months
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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> </ul>	3 months



			ULBs & GP headquarters. • Inclusion of EPR in by laws of ULBs & GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.		
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## (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	2 MT/Year
Collection centers established by ULBs in the District	1
Collection centers established by Producers or their PROs	1
No authorized E-Waste recyclers / Dismantler	1

*b. Identification of gaps and Action Plan*

Sl. No.	Action points	Gaps Implementation	Action Plan	Responsible agencies	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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months

			associations.		
3	Linkage among stakeholders channelized 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/ Brand owners in each ULBs &amp; GP headquarters.</li> <li>• Inclusion of EPR in by laws of ULBs &amp; GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months
6	Awareness & 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 procedures/ Brand owners of packaging wastes.</li> <li>• Setting of collection centers for packaging wastes by procedure/</li> </ul>	<ul style="list-style-type: none"> <li>• Nabarangpur Municipality</li> <li>• Umerkote Municipality</li> <li>• All Gram Panchayats</li> </ul>	3 months



			Brand owners in each ULBs & GP headquarters. • Inclusion of EPR in by laws of ULBs & GPs and also fixing responsibilities on whole sellers/ Vendors. Market associations.		
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### 3.0 Air Quality Management

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

Details of Data Requirement	Present Status
No. of automatic Air Quality monitoring stations in the District - Operated by SPCB/ State Govt./ Central Govt./ PSU Agency: - Operated by Industry:	Nil Nil
No. of manual monitoring States operated by SPCBs	Nil
Name of towns/ Cities which are failing to comply with National Ambient Air Quality Stations	Nil
No. of Air Pollution Industries	75
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	[Large Industry : 1 no.] [Small Industry : 74 nos.] [Mines : 11 nos ]

#### b. Identification of gaps and Action Plan

Sl. 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, Rayagada	Continuing
		Regular & continuous monitoring of AAQw.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, Rayagada	Continuing
		Setting up of information network for identification of Pollution prone Zone	District Administration, Nabarangpur  Divisional Forest Officer, Nabarangpur  State Pollution Control Board, Odisha, Rayagada	1 month
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, Nabarangpur State Pollution Control Board, Odisha, Koraput ULBs Authority, Nabarangpur	6 months
		Display of Real time AAQ data of Industries at their main gate for Public views	State Pollution Control Board, Odisha, Koraput Industry Authority (MTPL, Nabarangpur)	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, Nabarangpur State Pollution Control Board, Odisha, Koraput	06 months
		Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Nabarangpur State Pollution Control Board, Odisha, Koraput ULBs Authority, Nabarangpur	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, Nabarangpur Energy Department, Nabarangpur	06 months
		Shifting from Petrol/Diesel driven vehicles to Electric operated vehicles (At least 50%) in Government, Private sectors & individual levels.	District Administration, Nabarangpur Road Transport Office, Nabarangpur	06 months
		Promotion of E vehicles, CNG Taxies, improvements of comfortable Public Transport system.	District Administration, Nabarangpur Road Transport Office, Nabarangpur	
		Identification, Development & Protection of at least 35% thick Forest area /Plantation Zone in each Block /GP of the District.	District Administration, Nabarangpur District Forest Office, Nabarangpur	12 months
		Ensure Dust control in project	PWD Department,	0 month



		construction sites	Nabarangpur Rural Works Division, Nabarangpur Contractors of the Project	
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles & imposition of heavy penalty (Environmental compensation).	District Administration, Nabarangpur Division Forest Office, Nabarangpur ULBs & GP authorities State Pollution Control Board, Odisha, Koraput Agriculture Department, Nabarangpur	01 month
		All ULBs & GP Roads to be maintained dust free.	ULBs & GP authorities	03 months
5	Hotspots of Air Pollution in District	Close watch on stubble burning, illegal waste burning, unauthorized operations, cluster activities, forest fires etc.	District Administration, Nabarangpur Division Forest Office, Nabarangpur State Pollution Control Board, Odisha, Koraput ULBs Authority, Nabarangpur	Continuing
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles & imposition of heavy penalty (Environmental compensation).	District Administration, Nabarangpur Division Forest Office, Nabarangpur State Pollution Control Board, Odisha, Koraput ULBs Authority, Nabarangpur	01 month
6	Awareness on Air Quality	Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Nabarangpur State Pollution Control Board, Odisha, Koraput ULBs Authority, Nabarangpur	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	6 nos.
Length of Coastline (if any)	0 KM
Nals/ Drains/ Creeks meeting rivers	17 nos.
Lakes/ Ponds	3 nos. & 0.09197 ha.
Total Quantity of Sewage from Towns & Cities in District	NA
Quantity of Industrial Waste Water	--
Percentage of untreated sewage	--
Details of Borewells and no. of permissions given for extraction of ground water	--
Ground water polluted areas if any	--
Polluted River stretches if any	--

#### b. Identification of Gaps and action plan for Water Quality Monitoring

Sl. 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, Nabarangpur  State Pollution Control Board, Odisha, Koraput	Continuing
		Formation of District level Environment Monitoring Cell	District Administration, Nabarangpur  DFO, Nabarangpur  State Pollution Control Board, Odisha, Koraput	Continuing
		Regular monitoring of water quality of water bodies	State Pollution Control Board, Odisha, Koraput	01 month
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, Nabarangpur  State Pollution Control Board, Odisha, Koraput	06 months



		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, Nabarangpur  Agricultural Department, Nabarangpur.  Horticulture Department, Nabarangpur	06 months
		Preparation of remedial measures	Water Resource Department, Nabarangpur  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, Nabarangpur  ULBs & GPs authorities.	03 months
		Free from encroachment of water bodies	District Administration, Nabarangpur  Water Resource Department, Nabarangpur  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, Nabarangpur  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, Nabarangpur  Water Resource Department, Nabarangpur  ULBs & GPs authority	06 months
5	Inventory of sources of water pollution	Identification of Drains, Sewer Lines outfalls in water bodies	Water Resource Department, Nabarangpur	06 months

			State Pollution Control Board, Odisha, Koraput ULBs & GPs authority	
		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, Nabarangpur Horticulture Department, Nabarangpur	02 months
		Preparation of remedial measures	District Administration, Nabarangpur State Pollution Control Board, Odisha, Koraput Reputed Institutions/Agencies	06 months
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, Nabarangpur Water Resource Department, Nabarangpur ULBs & GPs authority	06 months
		Identification of encroachment areas & initiation to prevent encroachment.	State Pollution Control Board, Odisha, Koraput ULBs & GPs authority	06 months
8	Rejuvenation of groundwater	Identification & mapping of Ground Water status of Nabarangpur District (Critical Zone, Safe Zone etc)	District Administration, Nabarangpur Water Resources Department, Nabarangpur/ Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Nabarangpur ULBs & GPs authority	06 months
		Identification of vulnerable areas of over exploitation of Ground water	Water Resources Department, Nabarangpur/ Central Ground Water Authority, Bhubaneswar/ Lift	03 months



			Irrigation Department, Nabarangpur	
		Periodical Monitoring of Ground Water quality.	State Pollution Control Board, Odisha, Koraput	06 months
			Central Ground Water Authority, Bhubaneswar	
		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, Nabarangpur	Continuing
		Development of App.	State Pollution Control Board, Odisha, Koraput	
			District Administration, Nabarangpur	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	NA
No of Class-I towns and above	NA
No of Towns STPs installed	1 no.
No of Towns needing STPs	1 no.
No of ULBs having partial underground sewerage network	0
No of towns not having sewerage network	0
Total Quantity of Sewage generated in District from Class II cities and above	[MLD]
Quantity of treated sewage flowing into Rivers (directly or indirectly)	NA
Quantity of untreated or partially treated sewage (directly or indirectly)	NA
Quantity of sewage flowing into lakes	[MLD]
Total available Treatment Capacity	20 MLD

##### 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
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				<b>action plan</b>
1	Sewage Treatment Plants (STPs)	No STP available in the District. Identification of areas (covering nos of wards) in each ULBs, Semi urban Towns (Block Head quarters) etc & preparation of feasibility report for setting up of STPs based on Decentralized concept.	District Administration, Nabarangpur  Authority of ULBs/GPs/Development Agencies	06 months
		Individual STPs for Apartments, Hospitals (more than 30 beds), Institutions, Industrial Townships etc.	District Administration, Nabarangpur 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 Waste Water Management

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

No. of Red, Orange, Green & White Industries in the District	[30 Nos of Red industries], [54 Nos of Orange industries], [33 Nos of Green industries], [Not available for White industries]
No of Industries discharging wastewater	[15 Nos]
Total Quantity of industrial wastewater generated	[0.15 MLD] Approx
Quantity of treated industrial wastewater discharged into Nalas / Rivers	[ Not estimated]
Common Effluent Treatment Facilities	[Nil]
No of Industries meeting Standards	[15 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	State Pollution Control	As & when



		Quality Monitoring Systems (OEQMS) with Real Time Data Transmission facilities to SPCB/CPCB server for Large Industries	Board, Odisha, Koraput	Industry shall be fully operational.
2	Complaint redressal system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Nabarangpur  State Pollution Control Board, Odisha, Koraput	Continuing
		Development of App.	District Administration, Nabarangpur	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	[15 Nos]
No of licenced Mining operations in the District	[0.15 MLD] Approx
% Area covered under mining in the District	[ Not estimated]
Area of Sand Mining	[Nil]
Area of sand Mining	[15 Nos]

### 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, Nabarangpur  State Pollution Control Board, Odisha, Koraput  Mining Department, Koraput  Police Department, Nabarangpur	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, Nabarangpur	01 month
		Use of GPS for Transportation of minerals.	District Administration, Nabarangpur  Mining Department,	06 months

			Koraput	
3	Environment compliance by Mining industry	Inspection & Monitoring of Mines on Periodic basis	District Administration, Nabarangpur 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	Existing Mining Operations
No. of noise measuring devices available with various agencies in district	[SPCB, Odisha, Koraput, Police Department, Nabarangpur] [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, Nabarangpur, District Administration, Nabarangpur, Traffic Department, Nabarangpur & SPCB, Odisha, Koraput.	District Administration, Nabarangpur State Pollution Control Board, Odisha, Koraput Police Department, Nabarangpur	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, Nabarangpur Police Department, Nabarangpur	06 months
3	Signboards in Noise zones	Identification of No Horn Zone in ULBs, Semi Urban Towns (Block Headquarters)	District Administration, Nabarangpur Police Department, Nabarangpur	01 month
		Provision of Sign Boards in Silence Zones/Sensitive Zones.	District Administration, Nabarangpur Police Department, Nabarangpur	02 months
4	Complaint redressing system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Nabarangpur Police Department,	Continuing



		Development of App.	Nabarangpur District Administration, Nabarangpur  Police Department, Nabarangpur	06 months
		Imposition of Penalty for Violators	District Administration, Nabarangpur  Police Department, Nabarangpur	Continuing

## 8.0 Wetland Management Plan

The total geographical area of Nabarangpur District is 5294 Sq. Km. The wetland area in the district is estimated to be 1463.40 ha. Includes 112 wetlands > 2.25 ha. The major wetland types are Reservoir/barrage (530.40 ha) accounting for about 36 percent of wetland extent and Tanks/Ponds (933 ha) accounting for about 64 percent of wetland extent.

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


Details of Data Requirement	Measurable Outcome
No. of Wetland Category	No. 112; Area = 1463.40 in ha.

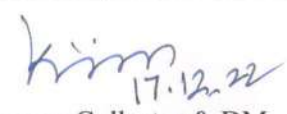
Sl. No.	Wetland Category	No. of wetlands	Total wetland area (in Ha)
<b>Inland Wetlands - Natural</b>			
1	Ox-bow lakes/ Cut-off meanders	--	--
2	Riverine Wetlands	--	--
3	Waterlogged	--	--
4	River/ Stream	5	--
<b>Inland Wetlands – Man-made</b>			
5	Reservoirs/ Barrages	46	530.40
6	Tanks/ Ponds	61	933
7	Waterlogged	--	--
<b>Total – Inlands</b>		<b>112</b>	<b>1463.40</b>
Wetlands (<2.25 ha)		--	--
<b>Total</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	06 months
2	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	ULB	12 months

		promotion of SLF.		
3	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
4	Preventing siltation	Almost all wetland sited up over the years and water bearing capacity got reduced. De-siltation of the water bodies. Impose penalty clause on disposal of waste into wetland	Water Resources Department	Occasional
5	Demarcation flood protection zone	Any such demarcation is yet not been done. Special initiative/ study require for such demarcation.	Water Resources Department	One time
6	Removal 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,  
Nabarangpur Forest Division.

  
Chairman-cum-Collector & DM,  
Nabarangpur