

Year: 2022

**DISTRICT
ENVIRONMENT
PLAN
RAYAGADA, ODISHA**



Collector & District Magistrate
Collectorate, Rayagada

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1.0 DISTRICT PROFILE

(a) District Administrative Set-Up

Rayagada District came into existence on 02.10.1992 vide Notification No. 49137/R dated 01.10.1992 published in Odisha Gazette. Its population consists mainly of tribes, primarily the Khonds and the Soras. In addition to Odia, Kui and Sora are spoken by the district's indigenous population. Rayagada district is known as the most famous region of the state because of its longest human history. It has long and glorious historical records evident by copper plates, rock inscriptions as well as different coins, which clearly indicate the region was the centre of attraction in all ages. In the third century B.C., during the reign of Ashoka the Great, it was covered under Kalinga empire.

The Director, Environment-cum-Special Secretary to Government, Government of Odisha, Forest Environment & Climate Change Department vide his Letter No. 11350/FE&CC Dt. 30.06.2021 in continuation to Letter No. FE-ENC3-ENV-0005-2018/ 11171/F&E dt. 28.06.2021 of the Additional Chief Secretary to Government, Forest, Environment & Climate Change, Odisha ordered the Head Quarter DFOs being the Member Convener of the District Committee, to convene a meeting in consultation with Collector & District Magistrate for review of the District Environment Plan and update the District Environment Plan (DEP). As per direction of the Hon'ble NGT in its order dt. 19.03.2020 & 29.01.2020 in the O.A. No. 360/2018, a District level meeting was held in Rayagada District on dt. 27.07.2021 participating all the stakeholders.

Rayagada District comprises two Sub-Divisions i.e. Rayagada and Gunupur and 11 Blocks, namely Kashipur, Kalyansingpur, Kolnara, Rayagada of Rayagada Sub-Division and Ramanaguda, Gunupur, Padmapur, Gudari, Chandrapur, Muniguda and Bissamcuttack of Gunupur Sub-Division. This District consists of 11 Tahasils co-terminus with Block boundaries. Rayagada Municipality, Gunupur Municipality and Gudari NAC are three urban local bodies.

(b) Local Institutions:

Primary School (2017-18)	No. of Schools	1345
	Enrolment (No)	110686
	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	31
	Degree	11
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:**

The Vamsadhara and Nagavally rivers river is the most prominent river and water sources in the district and sustains perennial flow. Vamsadhara is originated from Kalahandi and Gajapatai district and runs through Rayagada district and it joins in the Bay of Bengal at Kalingapatnam of Andhra Pradesh of length 254 km. Nagavali river originates from a hill near

Lakhabahal village of Kalahandi district, Kalyanisingpur of Rayagada district and merged with Bay of Bengal near Kallepalli of Andhra Pradesh. It is one of main reiver of Southern and Northen Andhra Pradesh. The river Bansadhara and Navalli flows in between Rusikulya and Godavari basins.

Forest Coverage:

Category of Forest	Area in sq. km.	Area in sq. km.
Reserve Forest	771.62	771.62
Proposed Reserve Forest (PRF)	1142.32	1142.32
Unclassified Forest	0.96	0.96
Village Forest	4.86	4.86
DLC Forest but not recorded as Forest	384.56	384.56
Un-demarcated Protected Forest	0	0
Other forest under Revenue Dept	892.56	892.56
Total	3196.91	3196.91

(d) Geography & Demography:

Geography:

The average forest cover of Rayagada District about 45% or say 3200 Sq.Km. in its geographical area. Rayagada District covers an area of 7073 square kilometres (2,928.5 sq mi), and is divided into eleven blocks. Agriculture is the chief source of income and paddy, wheat, ragi, green and black gram, groundnut, sweet potato and maize being the district's major crops. The district is surrounded by Kandhmal district in the North, Gajapati district in the East, Koraput district and state of A.P. in the South and Kalahandi in the West.

Demography:

Table 1: Population of Rayagada District in 2011 & 2001

Description	2011	2001
Population	9.68 lakhs	8.31 lakhs
Male	471960	409793
Female	495951	421311
Population growth	16.46%	16.40%

Description

Table 2: Demographic details of Rayagada District for 2011 & 2001

Area in Sq. Km.	2011	2001
Density/ km ²	137	118
Proportion to Odisha Population	2.31%	2.26%
Sex ratio (Per 1000)	1051	1028
Child Sex Ratio (0-6 Age)	965	981
Average Literacy	49.76	36.15
Male Literacy	61.04	48.18
Female Literacy	39.19	24.56
Total Child Population (0-6 Age)	148522	145493
Male Population (0-6 Age)	75598	73451
Female Population (0-6 Age)	72924	42042
Literates	407735	247825
Male Literate	241959	162068
Female Literate	165776	85768
Child Proportion (0-6 Age)	15.34%	17.51%

Boys Proportion (0-6 Age)	16.02%	17.92%
Girls Proportion (0-6 Age)	14.70%	17.10%

(e) Land Use Pattern:

Sl. No.	Items	Value	
1	Geographical area (ha.)	758746	
2	Area under Forest (ha.)	Rayagada	281000
3	Cultivable area (ha.)	193504	
4	Cultivable area (Cropped area) (ha.)	i. High	118062
		ii. Medium	43561
		iii. Low	20981
		Total	182604
5	Irrigated area (ha.)	1. Medium Irrigation Project	9874
		2. Minor Irrigation Project	21900
		3. Comm. Lift Irrigation Project (Govt.)	15786
		4. Deep Borewell, Moco River Lift & shallow Tube Well	10550
		5. LIP(pvt.)	951
		6. LIP (Govt.)	1273
		7. Mega Lift Irrigation Project	2231
		8. Dug Well	257
		9. Water Harvesting Structure	1800
		10. Other Sources	5936
		Total	70558

(f) Climate:

The climate of the district is typically tropical to sub-tropical with three distinct seasons e.g. summer, Winter and Monsoon. December is the coldest month with mean daily average temperature of 20 degree Celsius which reaches 42 degree Celsius in May. The rain fall in the area is mostly from the South west monsoon lats from middle of June to October. The average annual rainfall varies from 1031.21 mm to 1569.50 mm.

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)	Nil	-	-	-
2	Municipalities (Nagar Palikas)				
	1. Rayagada Municipality	24	16362	71208	27 TPD
	2. Gunupur Municipality	17	--	28570	13 TPD
3	Nagar Panchayats (Town area Councils)				
	1. Gudari NAC	11	2406	9624	1.4 TPD

Sl. No.	Local Bodies	No of Village Panchayats / Blocks	No of Households	Population	Solid Waste Generated per day
1	Block / Taluk / Mandal Tehsils	11	34576	146966	Not available
2	Village / Gram Panchayats	2667/182	191568	820945	Not available

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
1	Segregation				
i	Segregation of waste at source	<ul style="list-style-type: none"> About 50 to 60 % of Dry & Wet wastes segregation at source being practiced during Door to Door collection. Domestic Hazardous wastes segregation not carried out. Identification of Bulk generators like apartments, Market complexes. 	<ul style="list-style-type: none"> Regular awareness programme in Schools, Colleges and Societies etc. Supply of one set Blue & Green colored bins to each Households, Apartments, Market complexes(May be on payment basis) Awards, Incentives for best management. Identification & Declaration in Social Medias for Habitual violators including imposition of Penalties. 	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats	3 months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
2.	Sweeping				
(i)	Manual Sweeping	<ul style="list-style-type: none"> About 60% (Rayagada90%, Gunupur:70%,Gudari:90%) & 90% Paved roads in urban & Rural areas respectively are not covered for regular sweeping. Manpower deployment in Urban(Rayagada 80%, Gunupur:70%,Gudari:50%) & Rural sector is about 60% & 40% respectively than that of total requirements. No mechanized tools available. PPEs provision not adequate 	<ul style="list-style-type: none"> Handy manual drive sweeping tools (vacuum type) & small motorized equipment for transportation to main collection Points to reduce direct contact with wastes. 	i. RayagadaMunicipality ii. Gunupur Municipality iii. Gudari NAC iv. All Grampanchayats	03 Months
(ii)	Mechanical Road Sweeping & Collection	No provision of Mechanical road & sweeping systems	<ul style="list-style-type: none"> 2 nos. Truck mounted vacuum type road sweeping machines required for 4 lane/ 2 Lane roads per 50 km in urban areas. At least 1no tractor/small vehicle mounted vacuum type road sweeping machines required for single lane/ RD roads for Urban & GP areas. Supply of adequate PPEs for sweepers & workers. 	i. RayagadaMunicipality ii. Gunupur Municipality iii. Gudari NAC iv. All Grampanchayats	06 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
3.Waste Collection					
(i)	100% collection of solid waste	About 70 to 80% waste collection being carried out on daily basis by ULBs & less than 50% in Rural areas. Inadequate collection Bins/ community Bins	Deployment of mechanical transportation systems. Clear Demarcation of waste collection stations. Fixing of responsibilities on Bulk generators for collection of segregated wastes.	i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats	03 Months
(ii)	Arrangement for door to door collection	80% & 50% door to door collection systems provided at Rayagada & Gunupur ULBs respectively. No door to door collection systems in GPs.	Deployment of outsourced agencies, NGOs in rest of Urban/Semi-Urban areas & completely in Rural areas.	i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats	03 Months
(iii)	Waste Collection trolleys with separate compartments	70% has been provided in narrow lanes & Slums in ULBs. Manual collection in most part of Rural areas	Additional 200 nos. & 500 nos. waste collection Trolleys with separate compartments required for Urban & Rural areas.	i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats	03 Months
(iv)	Mini Collection Trucks with separate compartments	80% has been provided in narrow lanes & Slums in ULBs. Manual collection in most part of Rural areas	Phase-out of existing Diesel mini collection Trucks & switch over to 100% mini E- vehicles with separate compartments. All additional 6 nos. & 15 nos. mini collection Trucks required for Urban & Semi Urban (Block Headquarters) areas respectively shall be replaced by Small E	i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats	03 Months

			vehicles with separate compartments.		
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Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(v)	Waste Deposition centers (for domestic hazardous wastes)	No provision has been made in Urban or in GPs.	At least 2nos in each ULBs & one in each GP Headquarters to be declared as Waste deposition centers for domestic Hazardous wastes & to be linked with authorized recyclers for disposal.	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats	03 Months
4	Waste Transport				
(i)	Review existing infrastructure for waste Transport.	<ul style="list-style-type: none"> Waste Transport facilities not adequate No mechanical Transport facilities in GPs. 	<ul style="list-style-type: none"> Additional 5nos, 3 nos.&2 no Mini E Vehicles with separate compartments required for Rayagada&Gunupur ULBs respectively. Tri cycle with separate compartments in each village & Mini E Vehicles with separate compartments in each GP Headquarters & for semi urban areas. 	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats	03 Months
(ii)	Bulk Waste Trucks.	No Bulk waste Trucks available.	At least 01 no Bulk waste Truck (preferably E Truck) required for each ULB. Mini E Trucks with separate compartments in each GP Headquarters & for semi urban areas	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats	03 Months
(iii)	Waste Transfer points.	No waste Transfer Points exist.	At least 01 no Waste Transfer Point is required in each ULB for recyclable materials transportation to recyclers.	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats	03 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
5	Waste Treatment and Disposal				
(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.	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> ULBs authority Town Planning & Development Authority Block level authority. 	03 Months
(ii)	Wet-waste Management: Facility(ies) for central Biomethanation / Composting of wets waste.	No facilities for central Biomethanation / Composting of wets waste.	Central Biomethanation / Composting of wets waste facility needs to be installed if Population exceeds 1 Lakh.	<ul style="list-style-type: none"> i.RayagadaMunicipalit ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats 	03 Months
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction.	<ul style="list-style-type: none"> One MRF exists in each ULBs. No MRF in GP Headquarters. No waste to Energy Plant. No tie up with authorized recyclers. 	<ul style="list-style-type: none"> One MRF in each GP Head quarters Feasibility study of one Waste to Energy plant considering 2 ULBs, Agro wastes from local villages etc. Tie up with authorized recyclers for MRFs. 	<ul style="list-style-type: none"> i.RayagadaMunicipalit ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats 	03 Months
(iv)	Disposal of inert and non recyclable wastes: Sanitary Landfill	<ul style="list-style-type: none"> No proper sanitary land fill sites exist. Parts of SW still being disposed of by open dumping. 	<ul style="list-style-type: none"> At least one property Designed Sanitary Land Filly site required in each ULB & GP Head quarter for disposal of compost rejects, inert materials. Ensure maximum Recovery, Reuse & Recycle policy to minimize land filling. 	<ul style="list-style-type: none"> i.RayagadaMunicipalit ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats 	12 Months
(v)	Remediation of historic / legacy dumpsite	<ul style="list-style-type: none"> 10 to 15 Nos. of legacy dump sites exist in ULBs. No remediation of legacy dump sites has been initiated. 	Proper identification & Remediation plan for eachy legacy dump sites in ULBs needs to be prepared & implemented.	<ul style="list-style-type: none"> i.RayagadaMunicipalit ii.Gunupur Municipality iii.Gudari NAC 	3 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(vi)	Involvement of NGOs.	Involvement of NGOs yet to be envisaged.	Listing of NGOs & fund allocation required for management of solid waste campaign.	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayat s	3 Months
(vii)	EPR of Producers: Linkage with Producers / Brand Owners	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayat s	3 Months
(viii)	Authorization of Waste Pickers	Yes	Detail List preparation in each ULBs, GPs & Semi Urban areas.	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC	3 Months
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes	No action required	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC	3 Months

(ii) Plastic waste Management

a. Current status related to Plastic waste management

Urban Local bodies		Estimated quantity of Plastic Waste Generated per day
1	Municipal corporations (Nagar Nigam or MahanagarPalika)	Not applicable
2	Municipalities (Nagar Palik)	i) RayagadaMunicipality: 0.8 TPD ii) GunupurMunicipality: 0.3 TPD
3	Nagar panchayats (Town area Councils)	i) Gudari NAC: 0.1 TPD
Local Bodies		Plastic Waste Generated per day
1	Block /Taluk / Mandal Tehsils	1.5 TPD
2	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	Timeline for completion of action plan
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1	Door to Door collection of dry waste including PW	<ul style="list-style-type: none"> Partial collection being carried out in ULBs & not initiated in Village Panchayat & Blocks. Lack of proper provision for collection of Packaging Plastic wastes from Market Complexes / Public institutions. 	<ul style="list-style-type: none"> Deployment of outsourced agencies, NGOs in rest of Urban/Semi-Urban areas & completely in Rural areas. Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs & GP head quarters. 	<ul style="list-style-type: none"> i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats / Project Director, Rayagada 	3 Months
2	Facilitate organized collection of PW at Waste transfer point or Material	No waste Transfer Points exist.	<ul style="list-style-type: none"> At least 01 no Waste Transfer Point is required in each ULB for recyclable materials transportation to authorized recyclers/ Reuse as fuel in identified Industries / reuse in black top road construction. 	<ul style="list-style-type: none"> i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats / P.D, Rayagada 	3 Months
3	Recovery facility	<ul style="list-style-type: none"> MRF (Rayagada: 2 nos; Gunupur:1 no.) exists in each ULBs. No MRF in GP Headquarters. No waste to Energy Plant. No tie up with authorized recyclers. 	<ul style="list-style-type: none"> One MRF in each GP Head quarters Feasibility study of one Waste to Energy plant considering 2 ULBs, Agro wastes from local villages etc. Tie up with authorized recyclers for MRFs. 	<ul style="list-style-type: none"> i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats / P.D, Rayagada 	3 Months
4	PW collection Centers	<ul style="list-style-type: none"> No PW collection center exists. No brand owner or their PROs set up any PW collection centers. 	<ul style="list-style-type: none"> At least 3nos PW collection center at each ULBs & one collection center each at GP Head Quarter & Block Head Quarter. 	<ul style="list-style-type: none"> i.Rayagada Municipality ii.Gunupur Municipality iii.Gudari NAC iv.All Grampanchayats / P.D, Rayagada 	3 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
5	Awareness and education programs implementation	<ul style="list-style-type: none"> Lack of proper awareness among public for minimization and recycling of PW Lack of knowledge over biodegradable plastic Non-availability of adequate biodegradable plastic to replace single use plastic. 	Regular awareness programme in school, colleges regarding use of biodegradable plastic material/items.	i.RayagadaMunicipality ii.Gunupur Municipality iii.Gudari NAC iv.AllGrampanchayats / P.D, Rayagada	3 Months
6	Access to Plastic Waste Disposal Facilities	<ul style="list-style-type: none"> District has no facility for recycling of PW. Nonuse of PW in road construction by PWD/ RD. 	<ul style="list-style-type: none"> Sending of PW to cement plant/ other incineration facilities Installation of facilities for use of PW in black top road construction by PWD/RD, NHAI 	i. NHAI/PWD/RD ii. Rayagada Municipality, iii. Gunupur Municipality, iv. Gudari NAC v. All Grampanchayats	3 Months
(iii)	C & D Management				
a)	Current status related 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)		5 TPD		
	Does the District has access to C&D waste recycling facility?		No		

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
1	Arrangement for separate collection of C&D waste to C&D waste deposition point.	No separate C&D waste deposition center exists.	At least 2nos C&D waste deposition center at each ULBs & one in each at GP HeadQuarter & Block Head Quarter.	i. PWD/RD ii. RayagadaMunicipality, iii. Gunupur Municipality, iv. Gudari NAC v. All Grampanchayats	3 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
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.	User fee & permission for bulk generators yet to be covered under Bye laws of Municipality/NAC.	User fee & permission for bulk generators to be included in Bye laws of Municipality/NAC.	i. Rayagada Municipality ii. Gunupur Municipality iii. Gudari NAC iv. All Grampanchayats	3 Months
3	C&D recycling Facility.	No recycling facility for C&D waste exists.	At least One C&D recycling facility to be installed in the district in collaboration with PWD/RD and bulk generators for reuse of the C & D waste.	i. PWD/RD ii. Rayagada Municipality, iii. Gunupur Municipality, iv. Gudari NAC v. All Grampanchayats	3 Months
4	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads.	There is no policy on usage / promotion of recycled C&D waste	<ul style="list-style-type: none"> Provision of incentives on use of recycled C&D waste in the project. Development of specifications for use of recycled C&D waste in public works. 	i. PWD/RD/NHAI ii. Rayagada Municipality, iii. Gunupur Municipality, iv. Gudari NAC v. All Grampanchayats	3 Months
5	ICE on C & D waste management.	No system exist for creating awareness among local communities.	Regular awareness programme among stake holders on C & D waste management.	i. District Administration, Rayagada ii. SPCB, Rayagada iii. PWD/RD iv. Rayagada Municipality, v. Gunupur Municipality, vi. Gudari NAC vii. All Grampanchayats	03 Months

iii. Biomedical Waste Management

a. Current Status related to biomedical Waste

Inventory of water resources in District	Quantity
Total no. of Bedded Healthcare Facilities	27 nos.
Total no. of non-bedded HCF	58 nos.
No. of HCFs authorization of by SPCBs / PCCs	78 nos.
No of Common Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)	Nil
Capacity of CBWTFs	Not applicable
No. of Deep Burials for BMW if any	126 nos.
Quantity of bio medical waste generated per day	260.8 Kg/day
Quantity of bio medical waste treated per day	182.56 Kg/day

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
1	Inventory and identification of Healthcare Facilities.	Unauthorized HCF operating in the district yet to be identified.	<ul style="list-style-type: none"> Updating of inventorisat ion on regular interval by SPCB and CDMO & PH Verification by District level committee on Bio medical waste management on regular basis. Inventory and identification of Healthcare facilities. 	i. CDMO & PH, Rayagada ii. District Level Monitoring Committee on Bio-Medical Waste Management iii. SPCB, Rayagada iv. Deputy Director, Veterinary Hospital, Rayagada v. Block Veterinary Officer, Veterinary dispensary, Gunupur.	03 Months
2	Adequacy of facilities to treat biomedical waste.	<ul style="list-style-type: none"> No CBMWTF exist in the district. 60-70% of BMW generated get treated and disposed off in respective captive treatment facility. 	<ul style="list-style-type: none"> Installation of CBWTF in the district Strict enforcement of proper treatment and disposal of BMW as per guidelines. Imposition of penalty for violation on the basis of polluter pays principle. 	i. SPCB, Rayagada ii. District level monitoring committee on Bio medical waste management iii. All HCFs generating BMW	03 Months
3	Tracking of BMW	<ul style="list-style-type: none"> No bar code system has been implemented by the HCF in the district. Lack of legal provisions for fixing responsibility 	Bar code system is to be implemented for tracking BMW after installation of CBWTF	i. District level monitoring committee on Bio medical waste management ii. All HCFs generating BMW	01 Year
Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
4	Awareness and education of healthcare staff	Not followed by some of the HCFs	Ensure the training on regular basis to all stake holders by HCFs.	i. All HCFs	03 Months
5	Adequacy of funds	No adequate funds allocated to Govt. HCFs on BMW management head.	Provision of adequate funds to Govt. HCFs under BMW management head.	i. Dist Administration, Rayagada ii. CDMO & PH, Rayagada	03 Months
6	Compliance to Rules by HCFs and CBWTFs	District level monitoring committee on	Regular monitoring of BMW management of all HCFs by SPCB.	i. District Level Monitoring Committee. ii. SPCB, Rayagada	03 Months

		verification of compliance yet to be formed.			
7	District Level Monitoring Committee	District level monitoring committee yet to be formed.	Constitution of DLMC for HCFs and formation of internal monitoring team by Health Department for regular verification.	i. District Administration, Rayagada ii. CDMO & PH, Rayagada iii. SPCB, Rayagada	03 Months
8	Wastewater Treatment	5 nos. of HCFs having 30 beds & above are yet to provide adequate ETP	4 nos. of HCFs having 30 beds & above are required to install adequate capacity of ETP within 3 months.	i. HCFs (30 beds & above) ii. SPCB, Rayagada	03 Months

(iv) Hazardous Waste Monument

a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	4 nos.
Quantity of HW in the district	2689 MT/Annum
(i) Quantity of Incinerable HW	293 MT/Annum
(ii) Quantity of Land-fillable HW	32 MT/Annum
(iii) Quantity of Recyclable / utilizable HW	2364 MT/Annum
No of captive/common TSDF	[Nos of integrated TSDF :Nil], [Nos of SLF : 1 no]. [No of Standalone incinerators ;Nil]
Contaminated Sites or probable contaminated sites	[Nos :Nil]

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
1	Regulation of industries and facilities generating Hazardous Waste	Hazardous waste generating units i.e. large scale industry and other small scale units like automobile service centers in the district are required to comply the provisions laid under Hazardous waste management guidelines.	Industries generating hazardous waste should follow the provisions laid under Hazardous waste management guidelines.	i. Industries & Automobile Service Centers generating hazardous waste ii. SPCB, Rayagada	03 Months
2	Establishment of collection centres	No collection center exists.	Collection center yet to be established by CHWTSDF for collection of hazardous waste from industries. • Collection center for domestic hazardous waste yet to be established by CHWTSDF in collaboration with Municipality.	i. CHWTSDF ii. Municipality/ NAC iii. SPCB, Rayagada	03 Months
3	Training of workers involved in handling / recycling / disposal of HW	Hazardous waste generating Industries are required to provide training to their workers involved in handling / recycling / disposal of HW.	Hazardous waste generating Industries should ensure training of workers involved in handling / recycling / disposal of HW.	i. Industries generating hazardous waste ii. SPCB, Rayagada	03 Months
4	Availability / Linkage	Setting of common TSDF or	One common TSDF or disposal	i. District	03 Months

	with common TSDF or disposal facility	disposal facility in the district.	facility in the district is required to be installed.	Administration, Rayagada ii. CHWTSDF iii. Municipality/NA C iv. SPCB, Rayagada	
5	Contaminated Sites	No probable hazardous waste contaminated site exists in the district.	If identified, then proper remediation plan should be made as per hazardous waste management guideline.	i. Industry Authority ii. District Administration, Rayagada iii. Factories & Boiler Dept iv. SPCB, Rayagada	03 Months

(v) 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 assessed
Collection centers established by ULBs in the District	Nil
Collection centers established by Producers or their PROs	Nil
No authorized E-Waste recyclers / Dismantler	Nil

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
1	Inventory / Generation of E-Waste / Bulk-waste generators	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. RayagadaMunicipality, ii. Gunupur Municipality, iii. GudariNAC iv. All Grampanchayats 	03 Months
2	E-Waste collection points	<ul style="list-style-type: none"> • Identification yet to be done. •Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. RayagadaMunicipality, ii. Gunupur Municipality, iii. GudariNAC iv. All Grampanchayats 	03 Months

Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
3	Linkage among Stakeholders to channelize E-Waste	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. Rayagada Municipality, ii. Gunupur Municipality, iii. Gudari NAC iv. All Grampanchayats 	03 Months
4	Regulation of Illegal E-Waste recycling / dismantling	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. Rayagada Municipality, ii. Gunupur Municipality, iii. Gudari NAC iv. All Grampanchayats 	03 Months
5	Integration of informal sector	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. Rayagada Municipality, ii. Gunupur Municipality, iii. Gudari NAC iv. All Grampanchayats 	03 Months
Sl. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
6	Awareness and Education	<ul style="list-style-type: none"> • Identification yet to be done. • Lack of legal provisions for fixing responsibility 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> i. Rayagada Municipality, ii. Gunupur Municipality, iii. Gudari NAC iv. All Grampanchayats 	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.	NIL
- Operated by SPCB / State Govt. / Central govt./ PSU agency :	
- Operated by Industry:	07 nos.
Number of manual monitoring Stations operated by SPCBs	02

Name of towns / cities which are failing to comply with national ambient air quality stations	[Nil]
No of air pollution industries	[200Nos]
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	[Large Industry: 03no] [Small Industry: 197 nos] [Burning of waste stubbles] [Vehicular emissions] [Open burning of Garbage & Plastic wastes] [Podu Cultivation & Forest Fire during dry season]

b. Identification of gaps and action plan:

Sl. No	Action points	Indicating Action Plan	Responsible agencies	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 AAQ w.r.t. PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , 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, Rayagada DFO Rayagada State Pollution Control Board, Odisha, Rayagada	01 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, Rayagada	Continuing
		Installation of Digital Display Board at Traffic square for Local AAQ.	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs Authority, Rayagada	06 months
		Display of Real time AAQ data of Industries at their main gate for Public views	State Pollution Control Board, Odisha, Rayagada 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, Rayagada State Pollution Control Board, Odisha, Rayagada	06 months
		Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs Authority, Rayagada	06 months
4	District Level Action Plan for Air Pollution	Regular inspection & monitoring of air polluting Industries & Mines.	State Pollution Control Board, Odisha, Rayagada	Continuing
		Regular & continuous monitoring of AAQ w.r.t. PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , Ammonia, Ozone etc in Industrial establishments & Mines.	State Pollution Control Board, Odisha, Rayagada	Continuing
		Use of at least 25% energy from renewable sources (Green Energy) in all Government offices, Commercial establishments, Industrial sectors.	District Administration, Rayagada Energy Department, Rayagada	06 months
		Shifting from Petrol/Diesel driven vehicles to Electric operated vehicles (At least 50%) in Government, Private sectors & individual levels.	District Administration, Rayagada Road Transport Office, Rayagada	06 months

	Promotion of E vehicles, CNG Taxies, improvements of comfortable Public Transport system.	District Administration, Rayagada Road Transport Office, Rayagada	
	Identification, Development & Protection of at least 35% thick Forest area /Plantation Zone in each ULBs/ Block /GP of the District.	District Administration, Rayagada DFO Rayagada District Forest Office, Rayagada	12 months
	Ensure Dust control in project construction sites	EE, PWD Department, Rayagada EE, Rural Works Department, Rayagada 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, Rayagada District Forest Department, Rayagada ULBs & GP authorities State Pollution Control Board, Odisha, Rayagada Agriculture Department, Rayagada	01 month
	All ULBs & GP Roads to be maintained dust free.	ULBs & GP authorities	03 months

Sl. No.	Action points	Indicating Action Plan	Responsible agencies	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, Rayagada District Forest Office, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs Authority, Rayagada	Continuing
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles & imposition of heavy penalty (Environmental compensation).	District Administration, Rayagada District Forest Office, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs Authority, Rayagada	01 month
6	Awareness on Air Quality	Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs Authority, Rayagada	06 months
		Receive of Public complaint through E mail.	State Pollution Control Board, Odisha, Rayagada	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.Nagavali river (153 km. in Rayagada District) 2.Vamsadhara river (133 km. in Rayagada District)
Length of Coastline (if any)	[Nil]
Nalas/ Drains/Creeks meeting Rivers	[18 nos. Nala in Nagavali river & 11 nos. of nalas in Vamsadhara river]
Lakes / Ponds (Water bodies)	[Water bodies: 39 Nos] and [Area 303.18 Hectares]
Total Quantity of sewage from towns and cities in District	[25 MLD]
Quantity of industrial wastewater	[40 MLD]
Percentage of untreated sewage	[99%]
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	Nagavali River: 10 Km. Vamsadhara River: 06 Km. (02 stretches)

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, Rayagada State Pollution Control Board, Odisha, Rayagada	Continuing
		Formation of District level Environment Monitoring Cell	District Administration, Rayagada DFO, Rayagada State Pollution Control Board, Odisha, Rayagada	Continuing
		Regular monitoring of water quality of water bodies	State Pollution Control Board, Odisha, Rayagada	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, Rayagada	03 months

Sl. No.	Action points	Indicating Action Plan	Responsible agencies	Timeline for completion of action plan
3	Hotspots of water contamination	Identification of pollution prone water bodies & Ground water	Water Resource Department, Rayagada State Pollution Control Board, Odisha, Rayagada	06 months
		Monitoring of water quality on Regular interval.	State Pollution Control Board, Odisha, Rayagada	06 months
		Restriction of use of Chemical Fertilizer, Pesticides, Herbicides etc in Agriculture & Horticulture & switch over to Bio Fertilizer, Bio Pesticides etc.	District Administration, Rayagada District Forest Office, Rayagada Agricultural Department, Rayagada Horticulture Department, Rayagada Soil Conservation Office, Rayagada	06 months
		Preparation of remedial measures	Water Resource Department, Rayagada State Pollution Control Board, Odisha, Rayagada	
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, Rayagada ULBs & GPs authorities.	03 months
		Free from encroachment of water bodies	District Administration, Rayagada Water Resource Department, Rayagada 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, Rayagada State Pollution Control Board, Odisha, Rayagada 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, Rayagada Water Resource Department, Rayagada ULBs & GPs authority	06 months

Sl. No.	Action points	Indicating Action Plan	Responsible agencies	Timeline for completion of action plan
5	Inventory of sources of water pollution	Identification of Drains, Sewer Lines outfalls in water bodies	Water Resource Department, Rayagada State Pollution Control Board, Odisha, Rayagada ULBs & GPs authority	06 months
		Identification of Solid wastes disposal area in & around Water bodies	State Pollution Control Board, Odisha, Rayagada ULBs & GPs authority	06 months
		Identification & quantitative assessment of areas & type of Chemical Fertilizers, Pesticides & Herbicides being used in the District.	Agricultural Department, Rayagada Horticulture Department, Rayagada	02 months
		Preparation of remedial measures	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada 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 The river banks of Vamsadhara & Nagavali are in a high altitude than the High flood level of the river. In low lying area, the flood embankments are constructed to protect the villages from flood. 2. Stone dumping (Lunching Apron) provision has been made to protect the flood bank from erosion. 3. There is no flood plain encroachment in the river basin of Nagavali and Vamsadhara.	District Administration, Rayagada Water Resource Department, Rayagada ULBs & GPs authority	03 months
		Identification of encroachment areas & initiation to prevent encroachment.	District administration, Rayagada Water Resource Department, Rayagada ULBs & GPs authority	03 months

Sl. No.	Action points	Indicating Action Plan	Responsible agencies	Timeline for completion of action plan
8	Rejuvenation of groundwater	Identification & mapping of Ground Water status of Rayagada District (Critical Zone, Safe Zone etc)	District Administration, Rayagada Water Resources Department, Rayagada/ Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Rayagada ULBs & GPs authority	06 months
		Identification of vulnerable areas of over exploitation of Ground water	Water Resources Department, Rayagada/ Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Rayagada	03 months
		Periodical Monitoring of Ground	State Pollution Control Board,	Continuing

		Water quality.	Odisha, Rayagada 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 ³ /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, Rayagada State Pollution Control Board, Odisha, Rayagada	Continuing
		Development of App.	District Administration, Rayagada	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	[01 No]
No of Class-I towns and above	[Nil]
No of Towns STPs installed	[Nil] [Septage Treatment Plant: Rayagada: 01 no. Gunupur: 01 no.]
No of Towns needing STPs	[Rayagada: 04 nos.] [Gunupur: 02 nos.] [Gudari: 01 no.]
No of ULBs having partial underground sewerage network	[Nil]
No of towns not having sewerage network	[15 Nos.]
Total Quantity of Sewage generated in District from Class II cities and above	[10 MLD]
Quantity of treated sewage flowing into Rivers (directly or indirectly)	[NIL]
Quantity of untreated or partially treated sewage (directly or indirectly)	[08 MLD]
Quantity of sewage flowing into lakes	[NIL]
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. 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, Rayagada Authority of ULBs/GPs/Development Agencies	06 months
		Individual STPs for Apartments, Hospitals (more than 30 beds), Institutions, Industrial Townships etc.	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada 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 industries: 04 Nos.], [118Nos of Orange industries], [124Nos of Green industries], [Not available for White industries]
No of Industries discharging wastewater	[40Nos]
Total Quantity of industrial wastewater generated	[71.830MLD]Approx
Quantity of treated industrial wastewater discharged into Nalas / Rivers	[40 MLD]
Common Effluent Treatment Facilities	[Nil]
No of Industries meeting Standards	[40Nos]
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, Rayagada	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, Rayagada	As & when Industry shall be fully operational.
2	Complaint redressal system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada	Continuing
		Development of App.	District Administration, Rayagada	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	Baphilimali Bauxite mining – 1388.740 Ha. Bandhamandi Graphite Mining – 73.427 Ha. Birida Graphite mining – 45.750 Ha. Bahinibasa Graphite Mining – 57.704 Ha. Anajore Manganese mining- 18.494 Ha. Nishikhhal Manganese mining – 501.670 Ha. Kumbhibhata Graphite mining – 107.646 Ha. Gangini& Tamil Red-Oxide mining- 381.619 Ha. Paikadakulguda Semi-specious Stone- 41.485 Ha. Balapadu Quartz – 55.394 Ha.
No. of licenced Mining operations in the District	Sand quarry= 34 nos. (Active=15 nos.) Stone quarry=157 nos.
% Area covered under mining in the District	%
Area of Sand Mining	[21.13 Sq Km]
Area of sand Mining [River bed]	[Nagavali, Vamsadhara,]

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, Rayagada State Pollution Control Board, Odisha, Rayagada Mining Department, Rayagada Police Department, Rayagada	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, Rayagada	As & when Industry shall be fully operational.
2	Inventory of illegal mining if any mining	Surveillance & Patrolling.	District Level Task Force, Rayagada	01 month
		Use of GPS for Transportation of minerals.	District Administration, Rayagada Mining Department, Rayagada	06 months
3	Environment compliance by	Inspection & Monitoring of Mines on Periodic basis	District Administration, Rayagada State Pollution Control Board, Odisha,	Continuing

District Magistrate & Collector, Rayagada

Mining industry		Rayagada	
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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, Rayagada; 02 nos.] [Police Deptt., Rayagada: 06 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	Availability of Sound/Noise Level Meters	Procurements of 25 nos. Noise Level Meters with Data Loggers (Recommended specifications) for Police Department, Rayagada, District Administration, Rayagada, Traffic Department, Rayagada & SPCB, Odisha, Rayagada.	District Administration, Rayagada State Pollution Control Board, Odisha, Rayagada Police Department, Rayagada	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, Rayagada	03 months
		Installation of online Noise Level Monitoring Systems with Real Time Data Display facilities at Noise prone area/ Silence Zones.	District Administration, Rayagada Police Department, Rayagada	06 months
3	Signboards in Noise zones	Identification of No Horn Zone in ULBs, Semi Urban Towns (Block Head quarters)	District Administration, Rayagada Police Department, Rayagada	01 month
		Provision of Sign Boards in Silence Zones/ Sensitive Zones.	District Administration, Rayagada Police Department, Rayagada	02 months
4	Complaint redressing system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc	District Administration, Rayagada Police Department, Rayagada	Continuing
		Development of App.	District Administration, Rayagada Police Department, Rayagada	06 months
		Imposition of Penalty for Violators	District Administration, Rayagada Police Department, Rayagada	Continuing

8.0 WETLAND MANAGEMENT PLAN

8.0 WETLAND MANAGEMENT PLAN

The Rayagada Forest Division is coterminate with Rayagada District Revenue boundary, the total geographical area of Rayagada District is 7073 Sq. Km. The river Bansadhara and Nagabali and its tributaries is the permanent water resources in the district. There is no natural wetland available in the District Rayagada/ Rayagada Forest Division. There are 14 nos. Water Bodies / Water Reservoir identified by ORSAC, Bhubaneswar whose management and administrations are controlled by Executive Engineer (MI), Rayagada and Executive Engineer (Irrigation) Department, Rayagada and Water Resources Department and Specific Management Plan for its conservation and restoration yet to be done. It is necessary to prepare and implement appropriate management plan in order to regain and protect the physical and biological dignity of the wetland ecosystem, in this contest a detail study of wetland management and its implication on the socio economic aspect is required from biological and hydrological prospective.

a. Current Status related to Wetland Management Plan

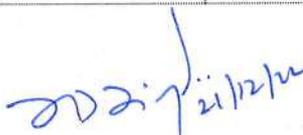
Details of Data requirement	Measurable outcome
No. of Wetland and its extent	14 nos. = Area: 908.69 Ha.

Sl. No.	Name of Range	Name of Wetland	Area in Ha.
1	Gudari	Kandha Chakunda	133.15
2	Kashipur	Dwimundi	16.46
3	Gunupur	Brahminipinda	39.66
4	Gunupur	Harlaguda	17.06
5	Gunupur	Jaripanga	65.74
6	Gunupur	Kandhapendaraguda	23.69
7	Gunupur	Kenduguda	62.73
8	Gunupur	Khambariguda	20.74
9	Gunupur	Milkapanga	104.57
10	Gunupur	Sourachakunda	189.53
11	Gunupur	Surulukupa	137.20
12	Gunupur	Taralendi	30.37
13	Rayagada	Kandili	20.07
14	Rayagada	Siltiguda	47.22
		Total	908.69

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 and other waste. Identification of additional land-fill sites and promotion 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
	Prevention siltation	Almost all wetland silted 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 Resource Department	Occasional
	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 area for removal of encroachment.	District Administration (Revenue Authorities)	1 year


Member Convener-Cum-DFO,
Rayagada Forest Division


Chairman-Cum- Collector & DM,
Rayagada