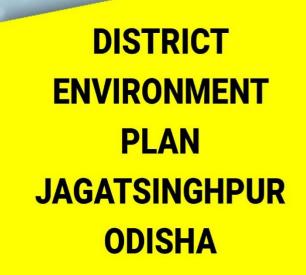
Year: 2022







Collector & District Magistrate
Collectorate, Jagatsinghpur

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1.0 DISTRICT PROFILE

(a) District Administrative Set-Up

Enriched with glorious cultural heritage, Jagatsinghpur district formed on 01.04.1993 vide Govt. Notification No. 14218 / R dated. 27.03.1993 and EOG No. 459 dated. 01.04.1993. Before that, it was a part of the erstwhile Cuttack district, subsequently which divided into four different districts for administrative convenience. The district lies at 19° 58′ to 20° 23′ North latitude and 86° 3′ to 86° 45′ East longitude. Jagatsinghpur district is surrounded by the Bay of Bengal in the east, Cuttack district in the west, Kendrapara district in the north and Puri district in the south. History of Jagatsinghpur comprises the conglomeration of Hindu, Muslim, Maratha and British realms. The East India Company established its trading Arsenals at Hariharpur in 1600 and captain Bruton administered the place till 1633. The Maratha Administration kept the place under their jurisdiction and appointed Jagat Singh in 1748 to collect revenue. He collected the Peshkush and Najarana. He remained an unchallenged and uninterrupted administrator for a long period. The place was converted from 'Hariharpur' to 'Jagatsinghpur' after the name of Jagat Singh since 1786.

Having a geographical area of 1668 Sq. Km. the Jagatsinghpur district is the smallest district in Odisha in terms of territorial location. The district has got a total population of 11,36,971 including 5,77,865 male and 5,59,106 female as per 2011 census. The total SC population of the district is 2,48,152 and ST population is 7,862 as per 2011 census. The average literacy rate of the district is 86.6% comprising of 92.38% male literacy rate and 80.63% female literacy rate.

Jagatsinghpur has only one subdivision namely Jagatsinghpur. There are 8 Blocks, 8 Tahasils, 1292 Villages, 198 Gram Panchayats and 12 Police Stations functioning in the district.

Jagatsinghpur district enjoys tropical climate. Winters are cold, while summer are hot and humid. The district is prone to cyclonic rainfalls during the monsoon. The maximum temperature of the district is 38° C and minimum temperature is 12°C. The actual and normal rainfall of the district as per 2020 data is 1638.5 mm and 1514.6 mm respectively.

The district is packed with many attractive places such as Paradeep Port, Paradeep, Paradeep Garh, Sarala Temple, Garh Kujang, Siali sea beach etc. are some of the visiting places of the district. Gorekhanath Temple is one of the most attractive temples of the district. Jagannath temple of Garei is also famous tourist spot visited by a large number of people from the world.

The district is predominantly agrarian. It has been experiencing natural calamities like floods and cyclones which are major hindrance in the economic development. Apart from agriculture, trade and commerce, transport, storage and communication, manufacturing, processing and repairing services engage a major chunk of population in the district. A section of people is engaged in fishing as allied activity.

The major food crops grown in Jagatsinghpur district is paddy, sugarcane, turmeric and groundnut which are considered as major commercial crops. The district enjoys rich fertile soil of the Mahanadi River.

Jagatsinghpur district celebrates many festivals with great joy and enthusiasm. Common festivals of the district are Kalinga Baliyatra Mahotsav, Chandan Yatra of Goddess Sarala, Dussehra, Laxmi Puja, Raja, Sivaratri, Ratha Yatra, Khudurukuni Puja etc.

(b) Local Institutions

Education					
Primary School (2017-18)	No. of Schools	981			
	Enrolment (No.)	34023			
	Pupil Teacher Ratio	12			
Upper Primary School (2017-18)	No. of Schools	557			
	Enrolment (No.)	66193			
	Pupil Teacher Ratio	14			
Secondary School (2017-18)	No. of Schools	316			
	Enrolment (No.)	64561			
	Pupil Teacher Ratio	19			
General College (2017-18)	No. of Junior	34			
	Colleges				
	No. of Degree	24			
	Colleges				
Medical College (2017-18)	No. of Medical Colleges	00			
Govt. Law College (2017-18)	No. of Govt. Law Colleges	00			
PoPolytechnic School (2017-18)	No. of Polytechnic	00			
	Schools				
Literacy Rate (2011)	Male	92.38%			
	Female	80.63%			

(c) Natural Resources

Water Bodies and availability of water resources

There are lots of water bodies in the district ranging from the sea to rivers and canals. The length of the seacoast of the district of Jagatsinghpur is 67 Km. Sandy ridges are found along the seacoast which stretches into the districts of Kendrapara and Puri. The ridges vary in width and have prevented the rivers to find their way into the ocean. There are four major river systems i.e., the Mahanadi, Kathajodi, Devi and Biluakhai system that irrigate the mainland of Jagatsinghpur district. Cultivable alluvial plains are formed mainly from above river systems and contribute to the agricultural prosperity of the district. In addition to these four major river systems, there are series of natural streams and river distributaries like Alaka, Hansua, Paika etc. flow through this district. Apart from major rivers, there are many ponds and canals which exist in the district. Two main canals are Taladanda and Machhagaon are chief source of irrigation. Taladanda canal is the largest and longest canal in Odisha which was dug up during British period in the year 1869. Availability and exploitation of ground water plays a vital role to ensure the supply of drinking water and irrigation water. According to Central Ground Water Board (CGWB) all the blocks in Jagatsinghpur district are in the safe limits of ground water utilization as per availability. Ground water quality is saline in few blocks like Ersama, Balikuda, Kujang and Naugaon.

Forest Coverage

Table 1: Category wise forest cover in Jagatsinghpur District

Туре	Area (in Sq. Kms.)
RF	1.23
Demarcated PF	4.77
Un Demarcated PF	83.06
Un-classed Forests	0.02
Other Forests	43.84
Total Forest Area	132.92
Total Geographical Area	1668
% of Forest Area to Geographical Area	7.97

(d) Geography & Demography

Geography

Home to many rivers, beaches and being endowed with immensely fertile soil, the district of Jagatsinghpur is indeed pretty rich in geographical features. But the region is equally prone to natural calamities like cyclones, floods and even droughts. In fact, during last few decades Jagatsinghpur has time and again faced nature's wrath, which has had a catastrophic effect not only on lives of ordinary people but also on its economic pursuits.

Jagatsinghpur is located in east coast of Odisha State. In terms of latitude and longitude, the district falls in latitude of 20° 27′ North and longitude of 86° 17′ East. In terms as per distribution or break down of land area is concerned, the forest area makes for only 132.92 Sq. Km., while rest of the land area is primarily divided among agricultural and non-agricultural activities.

Demography

Table 2: Population of Jagatsinghpur District in 2011 and 2001

Description	2011	2001
Population	11,36,971	10,57,629
Male	5,77,865	5,38,881
Female	5,59,106	5,18,748
Population Growth	7.5%	13.26%

Table 3: Demographic details of Jagatsinghpur district for 2011 and 2001

Description	2011	2001
Area Sq. Km	1668	1668
Population Density/km2	682	634
Proportion to Odisha population	2.71%	2.87%
Sex ratio (Females per 1000 males)	968	963
Child sex ratio (0-6 age) Females per 1000 males	929	926
Average literacy	86.59%	79.08%
Male literacy	92.38%	88.55%
Female literacy	80.63%	69.28%

Description	2011	2001
Total child population (0-6 age)	1,10,249	1,24,550
Male child population (0-6 age)	57,155	64,682
Female child population (0-6 age)	53,094	59,868
Literates	8,89,027	7,37,848
Male literates	4,81,049	4,19,922
Female literates	4,07,978	3,17,926
Child proportion (0-6 age)	9.70%	11.78%
Boys proportion (0-6 age)	9.89%	12.00%
Girls proportion (0-6 age)	9.50%	11.54%

(e) Land Use Pattern

Geographical area (Sq. Km.)	1668
Area under forest (Sq. Km.)	132.92
Land put to non-agricultural use (Ha)	49301
Barren and Non-cultivable land (Ha)	655
Permanent pastures & other grazing land (Ha)	11286
Land under misc. tree, crop & groves not included net area sown (Ha)	5050
Cultivable waste (Ha)	7552
Old fallows (Ha)	4583
Current fallows (Ha)	7248
Net area sown (Ha)	78766
Irrigated area (Ha)	61800

(f) Climate

Jagatsinghpur district enjoys quite moderate tropical climate. In other words, summers are bearably hot, so is the cold during winter and even rainfall recorded here is just above moderate. During summer season temperature can rise up to 38°C, while during winter season temperature can slip to 12°C. The actual and normal rainfall of the district as per 2020 data is 1638.5 mm and 1514.6 mm respectively. One important feature of Jagatsinghpur's climate is its erratic climatic behaviour, which results in natural calamities like cyclones, floods etc. The erratic climatic behaviour is largely owing to unique location of this district.

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

SI. No.	Urban Local Bodies		No. of Households	Population	Solid Waste Generated perday (MT)
	Municipal corporations (Nagar Nigam or Mahanagar Palika)	NA	NA	NA	NA
2	Municipalities (Nagar Palikas)				
	1. Jagatsinghpur Municipality	21	7010	33631	Not available
	2. Paradeep Municipality	19	17485	68585	51
3	Nagar panchayats (Town area Councils)	NA	NA	NA	NA

Note: NA- Not Applicable

SI. No.	Local bodies	No. of Village panchayats / Blocks	No. of Households	Population	Solid Waste Generated per day (MT)
1	Block / Taluk / Mandal Tehsils ##	08	236812	1034755	Not available
2	Village/ Gram Panchayats	1292/198			

^{##} Total urban and village population (SI 1 +2)

SI. No.	for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
	gregation		T	1	
(i)	Segregation of waste at source	Door-to-Door collection. • Domestic Hazardous wastes segregation not carried out. • Identification of Bulk Generators like	programme in Schools, Colleges and Societies etc. • Supply of one set Blue & Green coloured bins to each Households, Apartments, Market	i. Jagatsinghpur Municipality ii.Paradeep Municipality iii. All Grampanchayats	3 Months

SI. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			basis of lanes & households where mixed waste is practiced engaging with the lane committees for ensuring segregation by all households in the lane		
2 Sw	reeping Manual	AL 1 20 22 -	• Handy manual drive	i. Jagatsinghpur	03 Months
	Sweeping	90% Paved roads in urban & rural areas respectively are not	sweeping tools (vacuum type) & small	Municipality ii. Paradeep Municipality iii. All	OS MONTHS
(ii)	Mechanical Road Sweeping and collection	No provision of Mechanical Road Sweeping systems	 2 nos Truck mounted vacuum type road sweeping machines required for 4 lane/2 lane roads per 50 km in urban areas. At least 1 no. 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. 	iii. All Grampanchayats	06 Months
3 Wa	aste Collection	<u> </u>	<u> </u>	<u>I</u>	1
(i)	100% collection of solid waste	collection being carried out on daily basis by ULBs & less than 50% in Rural areas.	mechanical transportation systems. • Clear Demarcation of	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
(ii)	Arrangement for	• 100% & 70% door to		i. Jagatsinghpur	03 Months

SI. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap		Responsible agencies	Timeline for completion of action plan
	door to door collection	door collection systemsprovided at Jagatsinghpur, Paradeep ULBs respectively. No door to door collection systems in GPs.	sourced agencies, NGOs in rest of Urban/Semi- Urban areas &completely in Ruralareas.	ii. Paradeep	
SI. No.	Action points for villages / blocks/ town municipalities / City corporations		Action Plan	Responsible agencies	Timeline for completion of action plan
(iii)	Waste collection trolleys with separate compartments	provided in narrow lanes & slums inULBs.	separate compartments	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
, ,	Mini Collection Trucks with separate compartments	80% has been provided in narrow lanes & slums in ULBs. Manual collection in most part of Rural areas	Diesel mini collection Trucks & switch over to 100% mini E vehicles	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
	Waste Deposition Centres (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 	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
4 Was	Review existing	► Waste transport	Additional 2 nos Mini E	i. Jagatsinghpur	03 Months
(i)	infrastructure for waste transport	facilities not adequate No mechanical transport facilities in GPs	Vehicles with separate compartments required for Kendrapara and Pattamundai ULBs	Municipality ii. Paradeep Municipality iii. All Grampanchayats	OS MONUIS

SI. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			Headquarters & for		
(ii)	Bulk waste trucks	No Bulk waste Trucks available.	semi urban areas. At least O1 no. of Bulk waste Truck (preferably E Truck) required for each ULB. Mini E Trucks with separate compartments in each GP Headquarters & for semi urban areas.	Municipality ii. Paradeep Municipality iii. All	03 Months
(iii)	Waste transfer points	► No waste Transfer Points exist.		ii. Paradeep	03 Months
SI. No.	Action points for villages / blocks/ town municipalities / City corporations		Action Plan	Responsible agencies	Timeline for completion of action plan
5 Was	•	and Disposal			
(1)	bulkwaste generators (Authority may decide on	waste generators in ULBs & GPs yet to be done.	binding for installation & proper functioning of onsite composting facilities for Bulk wasteGenerators during approval of Building &	Town PlanningDevelopmentAuthorityBlock levelAuthority	03 Months
(ii)	Wet-waste Management: Facility (ies) for central methanation/ composting of wet wastes	Biomethanation / Composting of wet wastes.	 Central Biomethanation/ Composting of wet wastes facility needs to be installed if population exceeds 1 lakh. 	Municipality ii. Paradeep	03 Months
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	 One MRF exists in each ULBs. No MRF in GP Headquarters. No waste to Energy Plant. No tie up with authorized recyclers. 	 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. 	Municipality iii. All Grampanchayats	03 Months
(iv)	Disposal of inert and non- recyclable	 No proper sanitary land fill sites exist. Parts of SW still being 	disposal of compost	Municipality ii. Paradeep Municipality	12 Months

SI. No.	Action points for villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
			 Ensure maximum recovery, reuse & recycle policy to minimize land filling. 		
(v)	Remediation of historic / legacy dump site	 No legacy dump sites exist in ULBs. No remediation of legacy dump sites has been initiated. 	I'	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
(vi)	Involvement of NGOs	 Involvement of NGOs yet to be envisaged. 		Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
(vii)	EPR of Producers: Linkage with Producers / Brand Owners	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	00110011011 00111010 101		03 Months
(viii)	Authorisation of waste pickers	Yes	 Detail list preparation in each ULBs, GPs & Semi Urban areas. 		03 Months
(ix)	Preparation of own by-laws to comply with SWM Rules 2016				03 Months

(ii) Plastic Waste Management

(a) Current status related to Plastic Waste management

SI. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day (TPA)
1	Municipal Corporations (Nagar Nigam or Mahanagar Palika)	Not applicable
2	Municipalities (Nagar Palikas)	
	Jagatsinghpur Municipality	712
	Paradeep Municipality	3124.4
3	Nagar Panchayats (Town area Councils)	Not applicable

SI. No.	Local Bodies	Plastic Waste Generated per day (MT)
1	Block /Taluk / Mandal Tehsils	Not available
2	Village/Gram Panchayats	Not available

SI. No.	Action points for village panchayats/blocks/municipalities /corporations	Identification ofgap	Action plan	Agencies Responsible	Target time for Compliance
1	Door to Door collection of dry waste including PW	►Identification yet to be done. ►Lack of legal provisions for fixing responsibility	packaging wastes.	Municipality ii. Paradeep Municipality	03 Months
2	Facilitate organizedcollection of PW at waste transfer point or Material Recovery Facility	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	owners of packaging wastes. • Setting up of	i. Jagatsinghpur Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
3	PW collection Centres	►Identification yet to be done. ►Lack of legal provisions for fixing responsibility	 Listing of producers / brand owners of packaging wastes. 	Municipality ii. Paradeep Municipality iii. All	03 Months
4	Awareness and	No gaps		i. Jagatsinghpur	03 Months

No.	Action points for village panchayats/blocks/municipalities /corporations	Identification ofgap	Action plan	Agencies Responsible	Target time for Compliance
	education programs implementation		progress in each ULB Lane committee formation, field study to the MCC & MRF by the students, farmers & citizens to some extent done in ULBs. Wall painting on different IEC for segregation of plastic waste & wet waste in strategic points done.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	
5	Access to Plastic Waste Disposal Facilities	to be done. • Lack of legal	brand owners of packaging wastes.		03 Months

(iii) C & D Waste Management

a. Current status related to C & D Waste

Details of Data Requirement	Present Status
Total C & D waste generation in MT per day	1.15
(As per data from Municipal Corporations / Municipalities)	
Does the District have access to C&D waste recycling facility?	No

SI. No.	blocks / town municipalities /City Corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
	Arrangement for separate collection of C&D waste to C&D waste deposition point.	yet to be done. • Lack of legal provisions forfixing responsibility	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.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
2	authority have fixed	yet to be done. • Lack of legal provisions forfixing responsibility	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.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
3	C&D recycling Facility	yet to be done.	packaging wastes. • Setting up of collection centers for packaging	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
4	waste in non- structural concrete, paving blocks, lower layers of road	yet to be done. • Lack of legal provisions	packaging wastes. • Setting up of collection centers for packaging	Municipality ii. Paradeep Municipality	03 Months

SI. No.	•	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
5	IEC on C&D waste management	yet to be done. • Lack of legal provisions forfixing		Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months

(iv) Biomedical Waste Management

a. Current Status related to biomedical Waste

Inventory of water resources in District	Quantity
Total no. of Bedded Healthcare Facilities	23 nos.
Total no. of non-bedded HCF	34 nos.
No. of HCFs authorized by SPCB	67 nos.
No of Common Biomedical Waste Treatment and Disposal Facilities	Nil
(CBWTFs)	
Capacity of CBWTFs	59
No. of Deep Burials for BMW if any	Nil
Quantity of Biomedical waste generated per day	Not available
Quantity of Biomedical waste treated per day	Nil

SI. No.	Action points	Gaps	Action Plan		Timeline for completion of action plan
1	Inventory an d Identification ofHealthcare Facilities		 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/ brand owners in each ULBs & GP headquarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months

No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
	f facilities to treat biomedical waste	yet to be done. • Lack of legal provisions forfixing responsibility	headquarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/ Market associations.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
3	Tracking of BMW	 Identification yet to be done. Lack of legal provisions forfixing responsibility 	 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs & GP head quarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
	Awareness an d education o fhealthcare staff	 Identification yet to be done. Lack of legal provisions forfixing responsibility 	 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/Brand owners in each ULBs & GP head quarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
5	Adequacy of funds	yet to be done. • Lack of legal provisions	 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/ brand owners in each ULBs & GP headquarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months

SI. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
6	Compliance t o Rules by HCFs and CBWTFs	yet to be done.	 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/ Brand owners in each ULBs & GP headquarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
7	District Leve IMonitoring Committee	 Identification yet to be done. Lack of legal provisions forfixing responsibility 	 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/ brand owners in each ULBs & GP headquarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
8	Waste water Tiælment	 Identification yet to be done. Lack of legal provisions forfixing responsibility 	• Listing of producers/ brand owners of packaging wastes. • Setting up of collection centers for packaging wastes by producers/ brand owners in each ULBs & GP head quarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/Vendors/ Market associations.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months

(v) Hazardous Waste Management

a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	15
Quantity of HW in the district	15,986 MT/Annum
(i) Quantity of Incinerable HW	720 MT/Annum
(ii) Quantity of Land-fillable HW	332 MT/Annum
(iii) Quantity of Recyclable / utilizable HW	14,934 MT/Annum
No of captive/common TSDF	03 (Captive SLF of IOCL Refinery, PPL &
	IFFCO of Paradeep). However there are
	no common TSDF in the district
Contaminated sites or probable contaminated sites	02 probable contaminated sites viz. Gypsum
	pond of PPL & IFFCO in Paradeep
No. of industries authorized by SPCB/CPCB	15
	15
No. of industries displayed sign board of HW	15
generation in front of gate	15

SI. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action
				,	plan
1	Regulation of industries and facilities generating Hazardous Waste	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	brand owners of packaging wastes. • Setting up of collection centers for		O3 Months
2	Establishment of collection centres	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	 Listing of producers/brand owners of packaging wastes. Setting up of 		03 Months
3	handling /	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	 Listing of producers/brand owners of packaging wastes. Setting up of 		03 Months

SI. No.		Identification of Gaps	Action Plan	Responsible agency	Timeline for completion ofaction plan
4	Availability / Linkage with common TSDF O rdisposal facility	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	producers/brand owners of packaging wastes. • Setting up of		03 Months
5	Contaminated Sites	 Identification yet to be done. Lack of legal provisions for fixing responsibility 	producers/brand owners of packaging wastes. • Setting up of		03 Months

(vi) E-Waste Management

a. Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	Not available
Collection centers established by ULBs in the District	Nil
Collection centers established by Producers or their PROs	01
No. of authorized E-Waste recyclers / Dismantler	01 (M/s N.C.
	Metalics, At-Sova,
	P.O-Balikuda

SI. No	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
	Generation of E- Waste / Bulk- waste generators	provisions for fixing responsibility	headquarters. • Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
	E-Waste collection points		 Setting up of collection centers for packaging wastes by producers/ brand owners 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
	Stakeholders to channelize E- Waste	to be done. • Lack of legal provisions for fixing responsibility	 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/ Marketassociations. 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
	Illegal E- Waste	to be done. • Lack of legal	 Setting up of collection centers for packaging wastes by producers/ brand owners 	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months

No	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
5	Integration o finformal sector	 Lack of legal 	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.	Municipality ii. Paradeep Municipality iii. All Grampanchayats	03 Months
6	Awareness an dEducation		 Listing of producers/ brand owners of packaging wastes. Setting up of collection centers for packaging wastes by producers/ brand owners in each ULBs & GP headquarters. Inclusion of EPR in by laws of ULBs & GPs & also fixing responsibilities on whole sellers/ Vendors/ Market associations. 	Municipality ii. Paradeep Municipality iii. 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.	
- Operated by SPCB / State Govt. / Central govt./ PSU agency:	Nil
- Operated by Industry:	Nil
Number of manual monitoring States operated by SPCBs	03
Name of towns / cities which are failing to comply with national ambient air	Nil
quality stations	
No of air pollution industries	Not available
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of WasteStubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Large Industry / Small Industry/ Industrial estate

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	f prominent ai	Regular inspection & monitoring of air polluting Industries & Mines.	Regional Office of State Pollution ControlBoard, Odisha, Paradeep	Continuing
	rpolluting sources.	Regular & continuous monitoring of AAQ w.r.t. PM10, PM2.5, SO2, NOx, Ammonia, Ozone etcin Industrial establishments & Mines.	Regional Office of State Pollution Control Board, Odisha, Paradeep	Continuing
		Setting up of information network for identification of Pollution prone Zone	District Administration, Jagatsinghpur	01months
			DFO MFD (WL) Rajnagar DFO Cuttack (T) Division	
			Regional Office of State Pollution ControlBoard, Odisha, Paradeep	
2.	Ambient Air quality data	Creation of Public awareness to get access to SPCB & CPCB server for onlineReal time Data	Regional Office of State Pollution ControlBoard, Odisha, Paradeep	Continuing
		Installation of Digital Display Board at Traffic square for Local AAQ.	District Administration, Jagatsinghpur. Regional Office of State Pollution ControlBoard, Odisha, Paradeep	06 months
			ULBs Authority, Jagatsinghpur	
		Display of Real time AAQ data of Industries at their main gate for Publicviews	Regional Office of State Pollution ControlBoard, Odisha, Paradeep	Continuing

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of
NO.				action plan
			Industry Authority	·
3.	Setting up of Continuous Ambient Air QualityMonitoring Station	Identification of at least one site for installation of OCAAQMS at District Headquarter Installation of Digital Display Board at Traffic square for display of Local AAQ	Jagatsinghpur	06 months
			Jagatsinghpur	
4.	District Leve I Action Plan for Air Pollution	Regular inspection & monitoring of air polluting Industries & Mines.	Pollution ControlBoard, Odisha, Paradeep	Continuing
		Regular & continuous monitoring of	Regional Office of State Pollution Control	Continuing
		AAQ w.r.t. PM10, PM2.5, SO2, NOx, Ammonia, Ozone etc. in Industrial establishments & Mines.	Board, Odisha, Paradeep	
		Use of at least 25% energy from renewable sources (Green Energy) in all Government offices, Commercial establishments, Industrial sectors.	Jagatsinghpur	06 months
		Shifting from Petrol/Diesel driven vehicles to Electric operated vehicles (At least 50%) in Government, Private sectors & individual levels.		To prevent Air Pollution the Transport Department of Govt. of Odisha isencouraging Govt. and Private institutions as well as general public to use more and more
				electric operated vehicles instead of petrol/Diesel driven vehicles in this state.
		Promotion of E vehicles, CNG Taxies, improvements of comfortable Public Transport system.	District Administration, Jagatsinghpur Road Transport Office, Jagatsinghpur	Continuing process
		Identification, Development & Protection of at least 35% thick Forest area /Plantation Zone in each ULBs/ Block /GP of the District.		12 months

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
		Ensure Dust control inproject construction sites	EE, PWD Department, Jagatsinghpur	0 month
			EE, Rural Works Department, Jagatsinghpur	
			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).	Jagatsinghpur	01 month
			ULBs & GP authorities	
			Regional Office of State Pollution ControlBoard, Odisha, Paradeep	
			Agriculture Department, Jagatsinghpur	
		All ULBs & GP Roads to be maintaineddust free.	ULBs & GP authorities	03 months
5.	Hotspots of air pollution in District	j.	Jagatsinghpur	Continuing
			Regional Office of State Pollution Control Board, Odisha, Paradeep	
			ULBs Authority, Jagatsinghpur	
		Strict enforcement of restriction on open burning of Garbage, Plastic wastes, Forest Fire. Waste stubbles& imposition of heavy penalty (Environmental compensation).	District Administration, Jagatsinghpur	
			Regional Office of State Pollution ControlBoard, Odisha, Paradeep	
			ULBs Authority, Jagatsinghpur	
	Awareness on Air Quality	Installation of Digital Display Board at Traffic square for display of Local AAQ.	District Administration,	06 months
			Regional Office of State Pollution ControlBoard, Odisha, Paradeep	

S. No.	•	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
			ULBs Authority, Jagatsinghpur	
		Email.	Regional Office of State Pollution ControlBoard, Odisha, Paradeep	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	Mahanadi, Kathajodi, Devi and Biluakhai	
Length of Coastline (if any)	67 Km	
Nalas/ Drains/Creeks meeting Rivers	Alaka, Hansua, Paika	
Total Quantity of sewage from towns and cities in	NA	
District		
Quantity of industrial wastewater	37 MLD	
Percentage of untreated sewage	NA	
Details of bore wells and number of permissionsgiven	NA	
for extraction of groundwater		
Groundwater polluted areas if any	NA	
Polluted river stretches if any	NA	

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

SI. 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 ofwater bodies yet to be done	Water Resources Department, Jagatsinghpur Regional Office of State Pollution Control Board, Odisha, Paradeep	Continuing
		Formation of District level Environment Monitoring Cell	District Administration, Jagatsinghpur DFO MFD (WL) Rajnagar DFO Cuttack (T) Division Regional Office of State Pollution Control Board, Odisha, Paradeep	Continuing
		Regular monitoring of water quality of water bodies	Regional Office of State Pollution Control Board, Odisha, Paradeep	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.	Regional Office of State Pollution Control Board, Odisha, Paradeep	03 months
3.	•	Identification of pollution prone water bodies & Ground water	Water Resource Department, Jagatsinghpur Regional Office of State Pollution Control Board, Odisha, Paradeep	06 months
		Monitoring of water quality on Regular interval.	Regional Office of State Pollution Control Board, Odisha, Paradeep	06 months

SI. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of
		Restriction of use of Chemical Fertilizer, Pesticides, Herbicides etc in Agriculture & Horticulture & switch over to Bio Fertilizer, Bio Pesticides etc.	Jagatsinghpur DFO MFD (WL) Rajnagar	o6 months
		Preparation of remedial measures	Water Resource Department, Jagatsinghpur Regional Office of State Pollution Control Board, Odisha, Paradeep	
4	Protection of river / lake water front	Identification of arear of open defecation	ULBs & authorities authorities of GPs	06 months
		defecation& Provision of community Toilets wherever required	NGOs ULBs & GPs authorities	06 months
		Construction & maintenance of Idol Immersion Ponds at strategiclocations near Water bodies.	DistrictAdministration, Jagatsinghpur ULBs & GPs authorities.	03 months
		Free water bodies from encroachment.	District Administration, Jagatsinghpur Water Resource Department, Jagatsinghpur 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)	Jagatsinghpur Regional Office of State Pollution Control Board, Odisha, Paradeep	06 months
		River / Lake front Development Plan (Bathing Ghats, Joggers Park,	Water Resource Department, Jagatsinghpur	06 months
5.	Inventory of sources of water pollution	Identification of Drains,Sewer Lines outfalls in water bodies	Water Resource Department, Jagatsinghpur Regional Office of State Pollution Control Board, Odisha, Paradeep ULBs & GPs authority	06 months
		Identification of Solidwastes disposal area in & around Water bodies	Regional Office of State Pollution Control Board, Odisha, Paradeep ULBs & GPs authority	06 months

SI. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
		Identification & quantitative assessment of areas & type of Chemical Fertilizers, Pesticides & Herbicides being used in the District.		02 months
		Preparation of remedial measures	District Administration, Jagatsinghpur	06 months
			Regional Office of State Pollution Control Board, Odisha, Paradeep	
			Reputed Institutions/ Agencies	
6	Oil spill disaster management(for coastal districts)	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
7	Protection of flood plains.	Regulation for protection of Flood Plain	District Administration, Jagatsinghpur	06 months
			Water Resource Department, Jagatsinghpur	
		Identification of encroachment area and initiation to prevent encroachment	ULBs & GPs authority District administration, Jagatsinghpur Water Resource Department, Jagatsinghpur ULBs & GPs authority	06 months
8	Rejuvenation of groundwater	Identification & mapping of Ground Water status of Jagatsinghpur District (Critical Zone, Safe Zone etc)		06 months
			Water Resources Department, / Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Jagatsinghpur	
		Identification of vulnerable areas ofover exploitation of Ground water	ULBs & GPs authority Water Resources Department, Jagatsinghpur / Central Ground Water Authority, Bhubaneswar/ Lift Irrigation Department, Jagatsinghpur	03 months
		Periodical Monitoring of Ground Water quality.	Regional Office of State Pollution Control Board, Odisha, Paradeep Central GroundWater Authority, Bhubaneswar	Continuing

SI. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
		Preparation of master plan for Rainwater Harvesting Inclusion of Rain water harvesting(Roof top collection/Ground waterRecharge) 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 m³/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		Continuing
		Development of App.	District Administration, Jagatsinghpur	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	Nil
No. of Class-I towns and above	Nil
No. of Towns STPs installed	Nil
No. of Towns needing STPs	2
No. of ULBs having partial underground sewerage network	Nil
No. of towns not having sewerage network	Nil
Total Quantity of Sewage generated in District from Class II cities and above	Not available
Quantity of treated sewage flowing into Rivers (directly or indirectly)	Not available
Quantity of untreated or partially treated sewage (directly or indirectly)	Not available
Quantity of sewage flowing into lakes	Not available
Total available Treatment Capacity	Not available

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

SI. 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 Headquarters) etc & preparation of feasibility report for setting up of STPs based on Decentralized concept.	District Administration, Jagatsinghpur Authority of ULBs/GPs/Development Agencies	06 months
		Individual STPs for Apartments, Hospitals (more than 30 beds), Institutions, Industrial Townships etc.	Jagatsinghpur	06 months
			Authority of ULBs/GPs/Development Agencies	
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	12 months
			Authority of ULBs	
			Odisha Water Supply & Sewerage Board.	

5.0 INDUSTRIAL WASTEWATER MANAGEMENT

a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in	Not available
the district	
No. of Industries discharging waste water	14
Total Quantity of industrial waste water generated	37 MLD
Quantity of treated industrial waste water	37 MLD
discharged into Nalas / Rivers	
Common Effluent Treatment Facilities	Nil
No. of Industries meeting Standards	14
No. of Industries not meeting discharge Standards	Nil

b. Identification of gaps and action plan for industrial wastewater

SI. No.	Action Points	Gaps and Action Plan	Responsible agency	Timeline for completio n <i>d</i> action plan
1	Compliance to discharge norms by Industries	Inspection & Monitoring of discharge effluent quality on Regular basis	Regional Office of State Pollution Control Board, Odisha, Paradeep	Continuing
		Installation of online Effluent Quality Monitoring Systems (OEQMS) with Real Time Data Transmission facilities to SPCB/CPCB server for Large Industries.	Regional Office of	OEQMS need to be installed by user industries
2	Complaint redressal system	Availability of Public complaints Redressal systems i.e. Email, Public complaint Box etc		Continuing
			Regional Office of State Pollution Control Board, Odisha, Paradeep	
		Development of App.	District Administration, Jagatsinghpur	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	Sand mining	
No. of licensed Mining operations in the District	Not available	
% Area covered under mining in the district	Not available	
Area of Sand Mining	River bed	

SI. 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, Jagatsinghpur / Regional Office of State Pollution ControlBoard, Odisha, Paradeep/ Mining Department, Jagatsinghpur / Police Department, Jagatsinghpur	01 month
		Installation of online Effluent Quality Monitoring Systems (OEQMS) with Real Time Data Transmission facilities to SPCB/CPCB server for Large Industries		As & when Industry shall be fully operational.
2.	Inventory of illegal mining if any mining	Surveillance & Patrolling.	District Level Task Force, Jagatsinghpur	01 month
		Use of GPS for Transportation of minerals.	District Administration, Jagatsinghpur Mining Department, Jagatsinghpur	06 months
3.	Environment compliance by Mining industry	Inspection & Monitoring of Mines on Periodic basis	District Administration, Jagatsinghpur Regional Office of State Pollution ControlBoard, Odisha, Paradeep	Continuing

SI. No.	Action Points	Gaps and Action Plan	Timeline for Completion of action plan

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	02 nos. with SPCB, Odisha, Paradeep
various agencies in district	

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

8.0 WETLAND MANAGEMENT PLAN

The total geographical area of Jagatsinghpur district is 1688 Sq. km. The wetland area in the district is estimated to be 20435 ha. In spite of the presence of coastal wetlands like Intertidal Mudflats, Mangrove and Aquaculture Ponds the in inland wetlands dominated in terms of extent accounting for about 65 per cent. Major wetland types are River/Stream (12153 ha), Intertidal Mudflats (2348 ha) and Aquaculture Ponds (2250 ha), which account for about 60 %,12 % and 11 % respectively.

a. Current Status related to Wetland Management Plan

Details of Data Requirement	Measurable Outcome	
No. of Wetland and its extent	No- 1055; Area = 20435 in Ha.	

SI. No.	Wetland Category	No. of wetlands	Total wetland area (in Ha)		
	Inland Wetlands - Natural				
1	Ox-bow lakes/ Cut-off meanders	8	83		
2	Riverine Wetlands	3	37		
3	Waterlogged	38	638		
4 River/Stream 67		12153			
Inland Wetlands - Man-made					
5	Tanks/Ponds	37	427		
	Total - Inlands	153	13338		
	Coastal wetlands- Natural				
6	Sand/Beach	11	971		
7	Intertidal mudflats	73	2348		
8	Mangroves	33	833		
	Coastal wetlands- Man-made				
9	Aquaculture ponds	90	2250		
	Total -Coastal	207	6353		
	Wetlands (<2.25 ha)	695	695		
	Total	1055	20435		

SI. 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		6 months
	Disposal of Solid & other Waste	Unscientific disposal of solid waste into wetland. Load based assessment of Solid waste & other waste. Identification of additional land-fill sites and promotion of SLF	ULB	12 months
	Water quality testing	Any such initiative of monitoring of water quality of wetland is not yet been taken up by OSPCB. Sampling in every quarter for testing and provision for mobile lab for on-site testing, Empanelment of private testing labs		Half- yearly

Preventing siltation	Almost all wetland silted up over the years and water bearing capacity got	Water Resources Department	Occasional
	reduced. De-siltation of the water bodies. Impose penalty clause on disposal of waste into wetland		
Demarcation offlood protecti on zone	Any such demarcation is yet not beendone. Special initiative/ study require for such demarcation.	Water Resources Department	One time
Removal of Encroachment	Massive encroachment found specially in urban area. Revenue authorities along with DoWR and ULB officials will make inspection of drainage areas for removal of encroachment	District Administration(Revenu eAuthorities)	1 year

Member Convener-Cum-DFO, Mangrove Forest Division (WL) Rajnagar Chairman-Cum- Collector & District Magistrate, Jagatsinghpur