

Year: 2022

**DISTRICT  
ENVIRONMENT  
PLAN  
BALESWAR, ODISHA**



**Collector & District Magistrate  
Collectorate, Baleswar**



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## 1.0 District Profile

### Origin of the name of the district :

This Balasore is the derivation of “Baneswar” – Lord Baneswar, the presiding deity of a Siva temple in Puruna Balasore. This district at present is called as Balasore, contained in Odisha Gazette. Balasore is also the principal town & administrative headquarter of the district. This Balasore district is the extreme north – eastern border district of the state of Orissa.

### Historical Background of the district:

Balasore district was part of the ancient Kalinga which later became a territory of Toshala or Utkal, till the death of Mukunda Dev. It was annexed by Moghuls in 1568 and remained as a part of their suzerainty up to the middle of eighteenth century, to be précised up to 1750-51. Then the Marahattas occupied this part of Odisha and it became a part of the dominion of the Marahatta Rajas of Nagpur. The East India Company ceded this part through a treaty called treaty of Deogaon in 1803 and it became a part of Bengal Presidency up to 1912. But the first English Settlement came into existence in Balasore region in 1634 while Sahajahan was the emperor at Delhi. The first of English factories was established in this region in 1640. During this period Dutch and Danish settlements were also founded in this region. Balasore as a separate district was created in October, 1828 while it was in the Bengal Presidency. With the creation of Bihar province, Odisha was diverted along with Balasore district from Bengal to Bihar but with the creation of Odisha as a separate State on 1st April, 1936 Balasore became an integral part of Odisha State. The national movement of independence surged ahead with the visit of Mahatma Gandhi in 1921. Similarly, Praja Andolan was initiated against the ruler of Nilagiri State. The state of Nilagiri merged with state of Odisha in January, 1948 and became a part of Balasore district. In 3rd April, 1993 Bhadrak Sub-division became a separate district and from this day Balasore remains a district of Odisha with two Sub-divisions namely Balasore and Nilagiri.

The state of Nilagiri merged with the state of Odisha in January 1948 and then it became a part of Balasore District. On 3 April 1993, Bhadrak sub-division became a separate District and from this day onwards, Balasore remains a district of Odisha with two sub-divisions namely Balasore and Nilagiri.

Balasore also gets its name from the Persian word Bala-e-Shore, meaning ‘Town in the sea’. Historical legend ascribes the naming of this District as per Lord Baneshwar (Lord Shiva) of the town, which subsequently changed to Balasore during the Mughul rule. There are many historical monuments in the Balasore District. Some of the major monuments in Balasore District includes the rich sculptural remains found in Ayodhya. The ruin of the old Buddhist monastery and temple is there in Kupali in Balasore District. Some of the ruined forts at the Jayachandi forests in Raibania are also there in the District. The major religious monument found in the District is the Lord Chandaneswar Shrine.

### Hills :

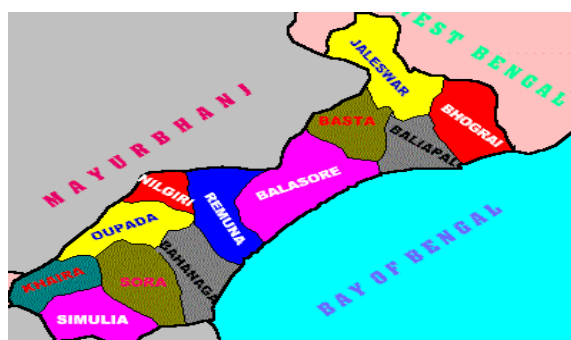
Sl. No	Name of the Hill	Top height in Mt.	Located in
1	Machhua Pahad	299.62	Nilgiri
2	Dhobasila Pahad	438.30	Nilgiri
3	Swamachuda Parbat	544.37	Nilgiri
4	Sunchut Parbat	453.54	Nilgiri
5	Katillia Parbat	494.69	Nilgiri
6	Devgiri Pahad	682.45	Nilgiri
7	Jhanuadi Pahad	626.97	Nilgiri
8	Bamanihuli Pahad	682.45	Nilgiri
9	Jugjuri Pahad	408.13	Nilgiri

### a. District Administrative Set-up

#### Administrative Setup:

The district is divided into 12 CD blocks namely, Bahanaga, Balasore, Baliapal, Basta, Bhograi, Jaleswar, Khaira, Nilgiri, Oupada, Remuna, Simulia and Soro. For land records and revenue administration the district is divided into 12 Tahasils. Regarding, villages and Gram Panchayats, the district has in total 2932 villages, out of which 2635 are inhabited and 297 are uninhabited. These villages are under the jurisdiction of 289 Gram Panchayats.

#### Administrative Block



### Administrative units

Blocks	Gram Panchayats	No. of Villages	Inhabited Villages	Uninhabited Villages
Bahanaga	21	163	159	15
Balasore Sadar	27	289	247	41
Baliapal	27	240	189	51
Basta	22	346	295	51
Bhograi	32	353	318	36
Jaleswar	27	257	208	49
Khaira	30	367	338	29
Nilgiri	25	149	137	14
Oupada	11	162	156	6
Remuna	28	318	228	58
Simulia	17	160	155	5
Soro	22	167	157	10
<b>Total</b>	<b>289</b>	<b>2932</b>	<b>2635</b>	<b>297</b>

Source: Census of India, 2011

Source: DPMU, Balasore

### b. Local Institutions

Feature	Unit	Balasore	Odisha
Geographical area	Sq. Km.	3806	155707
Total population (2011 census report)	Number	23, 20,529	4, 19, 74,218
Sub-divisions	Number	2	58
Blocks	Number	12	314
Panchayat Samities	Number	12	314
Tahasils	Number	12	171
Revenue Villages	Number	2952	51349
No. of Inhabited Revenue Villages	Number	2587	47529
No. of Uninhabited Revenue Villages	Number	365	3820
Gram Panchayats	Number	289	6234
Nagar Panchayats (Municipalities)	Number	3	35
Nagar Panchayats (Notified Area Councils)	Number	1	68
Urban Habitations (Wards)	Number	80	1631
No. of Police Stations	Number	23	465
No. of Parliament Constituency	Number	1	21
No. of assembly Constituency	Number	8	147
Length of Rail Network	Km.	114.98	2338.93
Railway Stations	Nos.	14	225
Passenger Halts	Nos.	4	56
Length of Different Type of Roads			
National Highway	Km.	119	3592
State Highway	Km.	31	4959
Major District Roads	Km.	189	3181

Other District Roads	Km.	327	6092
Rural Roads	Km.	1221	27402
Forest Roads	Km.	82	7467
PS Roads	Km.	1360	20326
GP Roads	Km.	4282	139944
Total	Km.	7611	212963
Length of Road/Sq-Km of Geographical Area		1.152	1.3677
Irrigated Agriculture (Kharif)	% to Cultivated Area	55.58	46.39
Irrigated Agriculture (Rabi)	% to Cultivated Area	42.02	22.77
Barren & Watershed	“000” Ha.	10	840
Forests	“000” Ha.	33	5813
Major & Medium Dams	Number	0	80
Large & Medium Industries	Number	19	334

Source : DPMU, Balasore

### c. Natural Resources

Broadly the district is divided into three geographical regions, namely, the Coastal belt, the inner alluvial plain and the North-Western hills. The coastal belt is about 81 km wide and is shaped like a strip. In this region, sand dunes are noticed along the coast with some ridges. This region is mostly flooded with brackish water of estuarine rivers which is unsuitable for cultivation. Presently this area is utilized for coconut and betel cultivation. Shrimp culture and salt manufacturing units are also developing in this area recently. The second contiguous geographical region is deltaic alluvial plain. It is a wide stretch of highly fertile and irrigated land. This area is highly populous and devoid of any jungle. The third region, north-western hilly region covers most of Nilagiri Sub-division. It is mostly hilly terrain and vegetated with tropical semi-ever green forests. The Hills of Nilagiri has the highest peak of 543 metre above the sea level. The scheduled tribes of the district are mostly seen in this region.

Balasore, the coastal district of Odisha is crisscrossed with perennial and estuarine rivers because of its proximity to the sea. Two important rivers of Odisha, namely:-Budhabalanga and Subarnarekha pass through this district from west to east before falling into the Bay of Bengal. The irrigation system in Balasore district is very much widespread.

The soil of Balasore district is mostly alluvial laterite. The soil of Central region is mostly clay, clay loam and sandy loam which is very fertile for paddy and other farm produces. Nilgiri Sub-division is mostly gravelly and lateritic soil, which is less fertile. A small strip of saline soil is also seen along the extreme coastal part of the district. The rocket launching site at Balasore is situated in a place called Chandipur located on the Bay of Bengal. The Interim Test Range in Chandipur is responsible for carrying out tests for various missiles such as Agni, Prithvi, Trishul etc.

(Source :DPMU, Balasore)

### Water bodies

Balasore district covers with 4(Four) major rivers like Subarnarekha, Budhabalanga, Sono & Jalaka.

1. River Subarnarekha enters Odisha near Village Rajnagarpatana of Raibania GP under JaleswarBlock and falls in the Sea at Kirtania village under Bhograi Block covering 66 KMs and 40 villages on its way under Jaleswar, Basta, Baliapal & Bhograi Blocks. It has no tributary in Balasore district.
2. River Budhabalanga starts from Similipal Reserve Forest and enters Balasore District near Patuka Sasan in Nilgiri Block. The River passes through 27 nos. of villages on its way to meet the sea at Balaramgadi under Chandipur GP.
3. River Sono is the tributary of river Budhabalanga. It starts from Salachua Dam of Mayurbhanj District and enters Balasore district near village Balisahi of Trisulia GP under Nilagiri Block covering 65 KMs and meet River Budhabalanga near village Kathasagada under Remuna Block. It covers 58 nos. of villages in Balasore district.
4. River Jalaka start from Jambhira of Mayurbhanj district and enters Balasore district at Bajbaji of Basta block and falls in the Sea at Kasaphala village under Sadar block covering 27 KMs and 8 GPs under Sadar and Basta block, on its way in Balasore district.

(Source : DPMU, Balasore. Statistical Wing)

### Availability of Water Resources

There are 51 nos. of MIPs, which provide 10450 Ha. in Khariff and Irrigation Potential has been created in 8 nos. of MIPs to cater irrigation to 3198 Ha. during Rabi crops. (Source : Minor Irrigation Division, Balasore)

The Water Resources department has planned to excavate 5 lakh Farm ponds throughout State in farmers land. So far Balasore district is

concerned, we have given a target of 8000 nos. farm ponds excavation in Farmers land under MGNREGA scheme immediately to give a live saving irrigation to crop during drought period.

(Source : Water resources (PD Watershed)

There are two Odisha Lift Irrigation Corporation (OLIC) Divisions in Balasore District i.e. Balasore & Jaleswar in Balasore District & three schemes i.e. CLIPS, CSTW and DBW are implemented by OLIC. (Source : Odisha Lift Irrigation Corporation (OLIC) Division, Balasore.)

### Forest Coverage:

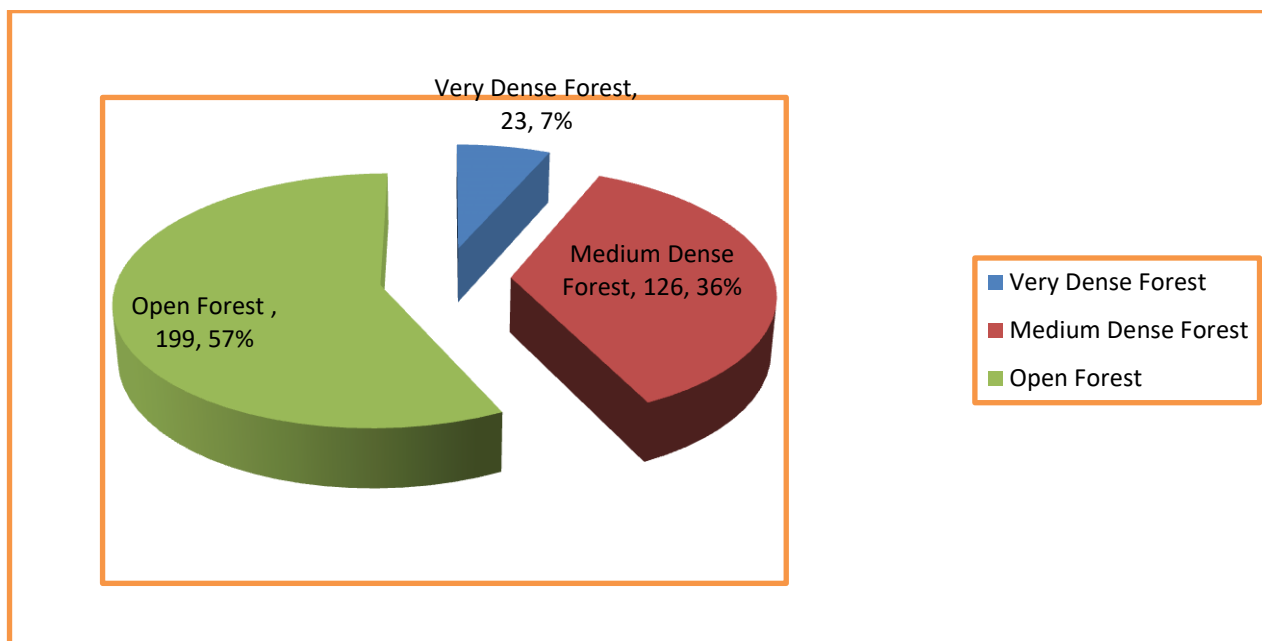
Out of 3806 Sq. Km of total geographical area of Balasore district, 230.45 Sq. Km. comes under designated forest category (RF, PRF & VF). There are 9 Reserved Forest Block, 13 Proposed Reserved Forest and 50 Village Forest Blocks in the Division.

Forest Blocks of Balasore WL Division.				
Sl. No.	Category of Forest	No. of blocks	Area in Sq. Km.	Percentage to total forest.
1	Reserved Forest (RF)	9	205.7	89.26
2	Proposed Reserved Forest (P.R.F. u/s 4 of OFA, 1972)	13	21.53	9.35
3	Village Forest (under Section - 30 of OFA, 1972)	50	3.21	1.39
<b>Total</b>		<b>72</b>	<b>230.45</b>	<b>100.00</b>

In case of Balasore district the forest composition is as given below.

### Distribution of Forest Area of Balasore WL Division

- Total Geographical area- **3806 sq.km.**
- Very Dense Forest- **23 sq.km**
- Moderate Dense Forest- **126 sq.km**
- Open forest- **199 sq km.**
- Total Forest area: **348 sq.km**
- Percentage of Forest area with respect to Geographical area – **9.19%.**



**Reserved Forest Blocks of Balasore Wildlife Division.**

There are 9 Forest Blocks in the Division covering an area of 205.7 sq.km. These blocks are as follows-

Sl. No	Name of forest Block	Area in ha.	Notification No & date.
1	Chandipur	46.96	SRO - 32/86 dt. 03.01.1986
2	Ajodhya	1586.00	By the Order of the Political Agent, Odisha State G. N. Coopers Inspection note of Sept. 1918
3	Arabandha	331.00	By the Order of the DURBAR in 1927
4	Mitrapur	880.00	By the Order of the Political Agent & Commissioner, Odisha State on Mr. S.B. Walter's inspection note on dtd.26.10.1922.
5	Swarnachuda	1801.60	SRO- 58/83 dt. 10.06.1983 & 38452 /R dt. 10.06.1983.
6	Tinikosia	1614.00	By the Order of the Political Agent , Odisha State of Mr. A. N. Grieve's inspection note on February' 1914
7	Kuldiha	11468.00	By the Order of the Raja Shyam Chandra Mardraj Harichandan on dt. 30.11.1900 vide Superintendent order No. 2012 dt. 19.08.1903
8	Tenda	1985.40	By the Order of the DURBAR on dt. 22.07.1947
9	Devgiri	857.20	By the Order of the Political Agent & Commissioner, Odisha State on Mr. G.B. Walter's inspection note of March' 1923
<b>9 Block</b>	<b>Total Area</b>	<b>20570.16</b>	<b>Or 205.70 sq.km</b>

**Protected Area notified under Wildlife Protection Act, 1972 :**

**Kuldiha Wildlife Sanctuary**, the one of its kind in the costal district of Balasore spreading over 272.75 km<sup>2</sup>, is a part of the mega wildlife habitat comprising of Similipal- Hadgarh & Nilgiri Hill Range. It is located in the South-western part of Balasore District under Nilgiri Civil Sub-Division in the State of Odisha and coming under mega landscape of Similipal - Hadgarh - Kuldiha with undulated topography, hill ranges, dense vegetation, bio-diversity, wildlife & ecological importance. It comes under Mahanadian biogeographical region. Kuldiha is bestowed with a series of hills, valleys and streams and also an abode of natural beauties of trees, climbers, orchids, ferns, mosses, fungi, animals, birds and micro-organisms. Although it occupies only 7 % of the total geographical area of the district, it has been influencing the local climate of the thickly populated district to a greater extent. The Sanctuary is a home to many indigenous species of flora & fauna on one side and its dependant tribal population on the other side, which formed the complex ecosystem.

**Eco-Sensitive Zone around Kuldiha Wildlife Sanctuary :**

The Eco-Sensitive Zone around Kuldiha Wildlife Sanctuary has been notified vide S.O. No. 2539 (E) dt.09.08.2017 of the Govt. of India, MoEF&CC, published in the Gazette of India : Extraordinary. This said notification of the Eco-Sensitive Zone around Kuldiha Wildlife Sanctuary comprises of 1443 nos. Geo-referred boundary pillars along with 12 nos. Prominent Points of Kuldiha Wildlife Sanctuary as well as boundary description of the Eco-Sensitive Zone around Kuldiha Wildlife Sanctuary, its map and 272 nos. boundary pillars of the said Eco-Sensitive Zone.

(Source : Balasore Wildlife Division, Balasore)



#### d. Geography & Demography

##### Demographic Profile:

Balasore is one of the most populous districts of the state. It occupies only 2.44% of the total land mass of the state but accommodates 5.50% of total population. The population density of the district (610) is very high; more than double that of Orissa State (270). The decadal growth rate (2001-2011) of population in the district is also high (14.6%) as against 14.0% for the State.

Description	2011	2001
Actual Population	2,320,529	2,024,508
Male	1,185,787	1,036,511
Female	1,134,742	987,997
Population Growth	14.62%	19.33%
Area Sq. Km	3,806	3,806
Density/km <sup>2</sup>	610	532
Proportion to Orissa Population	5.53%	5.50%
Sex Ratio (Per 1000)	957	953
Child Sex Ratio (0-6 Age)	943	944
Average Literacy	79.8%	70.56%
Male Literacy	87%	81.69%
Female Literacy	72.3%	58.90%
Total Child Population (0-6 Age)	288,672	296,087
Male Population (0-6 Age)	148,565	152,338
Female Population (0-6 Age)	140,107	143,749
Child Proportion (0-6 Age)	12.44%	14.63%

(Source : DPMU, Balasore. Statistical Wing)

Balasore is one of the Northern-Eastern costal district of Odisha, bounded by Bay of Bengal in the East, Mayurbhanj & Keonjhar districts in the West, Medinapore dist. of West Bengal in the North and Bhadrak dist. in South. The geographical area of Balasore district is 3806 sq.kms. As per 2011 Population Census the total population of the district is 2320529 out of which 1185787 are male & 1134742 are female. Total Rural population of the district is 2067236 consisting with 1056466 male & 1010770 female. Out of total Urban population of 253293 no of male is 129321 and no of female is 123972. The decennial growth rate of population of Balasore dist. as per 2011 Census is (+) 14.62% and the density of population is 610 per Sq. Km. The literacy rate of Balasore dist. is 79.80% out of which male literacy is 87.00% and female literacy is 72.30% as per 2011 Census. The sex ratio of the dist. is 957 when the state sex ratio is 979 as per 2011 population Census.

Area in Sq. Km.	-	3806
Population (As per 2011 Population Census)	Male	1185787
	Female	1134742
	<b>Total</b>	<b>2320529</b>
Rural Population (As per 2011 Population Census)	Male	1056466
	Female	1010770
	<b>Total</b>	<b>2067236</b>
Urban Population (As per 2011 Population Census)	Male	129321
	Female	123972
	<b>Total</b>	<b>253293</b>
Decennial Growth Rate (As per 2011 Population Census)	-	+14.62%
Density of Population/Sq. Km (As per 2011 Population Census)	-	610
Literacy Rate (As per 2011 Population Census)	-	79.80%
	Male	87.00%
	Female	72.30%
Sex Ratio (As per 2011 Population Census)	District	957
	State	979

(Source : DPMU, Balasore. Statistical Wing)

#### e. Land-use pattern

Sl. No.	Description	Area in Ha.
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1.	Geographical Area	377440
2.	Area under Forest	14833
3.	Net Area Sown	250550
4.	Cropped Area	219738
5.	Area Irrigated	115000
6.	Percentage of Net Area Irrigated to Total Area Sown	46%

(Source : Chief District Agriculture Officer, Balasore)

## f. Climate

Climate of the district is generally not with high humidity. May is usually the hottest month. Occurrence of large number of fire accidents is a regular feature of the district during the summer months i.e. April to May. December is the coolest month of the year. The highest maximum temperature recorded at Balasore was 44 ° C on 8.6.98.

## Rainfall:

Monsoon generally commences from 14<sup>th</sup> June every year. Average rainfall of the district is 1592 mm. The rainfall during June to December constitutes at least 75% of the annual rainfall of the district. There are averages 73 rainy days in a year in the district. Normal and actual rainfall of Balasore district from the year 2000 is as follows:

Year	Normal Rainfall (In MM.)	Actual Rainfall (In MM.)	Deviation from Normal
2000	1568.4	1492.3	(-)76.1
2001	1568.4	1828.85	(+)260.45
2002	1568.4	1329.6	(-)238.8
2003	1568.4	1775.25	(+)206.8
2004	1568.4	1592.5	(+)24.1
2005	1592.0	2069.8	(+)477.8
2006	1592.0	1773.7	(+)181.7
2007	1592.0	2185.9	(+)593.9
2008	1592.0	1691.80	(+)99.8
2009	1592.0	1568.0	(-)23.97
2010	1592.0	1264.81	(-)327.18
2011	1592.0	1487.50	(-)104.5
2012	1592.0	1028.79	(-)563.21
2013	1592.0	2094.04	(+)502.04
2014	1592.0	1931.2	(+)339.24
2015	1592.0	1286.98	(-)305.02
2016	1592.0	1028.79	(-)563.21
2017	1592.0	2094.04	(+)502.04
2018	1592.0	1931.2	(+)339.24
2019	1592.0	1661.83	(+)69.83
2020	1592.0	1538.18	(-)53.82
2021	1592.0	1445.04	Continuing.....

## Cyclone:

Cyclones are catastrophic winds that storm the vulnerable regions with intense speed and ferocity. There are two distinct cyclone seasons: pre-monsoon (May-June) and post-monsoon (October-November), which impacts the long 81 km. long coastline of Balasore. The unprecedented super cyclone in October 1999 compelled preparation of a sound and exhaustive contingent plan for cyclone. The Collector usually gets a special alert message from the Indian Metrological Department, wherever a depression forms in Bay of Bengal. This is followed by second stage warnings when there is actual threat of cyclone over the area. Weather bulletin will also be broadcast repeatedly by All India Radio / T.V. The district is prone to Cyclone and in the year 1999, 2013,2014,2019, 2020,2021 the Super Cyclone, Phailin, Hudhud, Fani, Bulbul, Amphan & YASS affected the district.

## Flood:

During rainy seasons, all the major rivers in the district carry gallons of water pose potential threat of flood. Things get worse as the flood devastates the crops in the affected area and is also a source of epidemics. Balasore district has faced severe flood in 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1998, 1999, 2001, 2003, 2004, 2005, 2006, 2007, 2008, 2011, 2013, 2018, 2019, 2020 & 2021. In 2011, 2013, 2019, 2020 & 2021 a great flood affected Balasore. Due to heavy rain in the catchment area of all the rivers and Nalas of Balasore District.

### **Landslides:**

Landslides are caused by disturbances in the natural stability of a slope. They can accompany heavy rains or follow droughts, earthquakes, or volcanic eruptions. Mudslides develop when water rapidly accumulates in the ground and results in a surge of water-saturated rock, earth, and debris. Mudslides usually start on steep slopes and can be activated by natural disasters. Areas where wildfires or human modification of the land has destroyed vegetation on slopes are particularly vulnerable to landslides during and after heavy rains.

### **Seasonal variation in temperature:**

The average Temperature of Balasore is around 26°C although it vary from around 19°C during Winter (January) to 39°C during the Monsoon (June). The hottest month of the year is June with temperature varies from 25.7°C to 37.7°C. The coolest month is of the year is January, with temperature varies from 13.1°C to 26.4°C.

*Source : DPMU, Balasore.*

## 2.0. Indicative Gap Analysis and Action Plans for complying with Waste Management Rules

### i. Solid Waste Management

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

Sl. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	NA	NA	NA	NA
2	Municipalities (Nagar Palikas)	67	36975	176420	68.858 MT
3	Nagar panchayats (Town area Councils)	13	4126	17264	6 MT

(Source : SPCB, Balasore)

Sl. No	Local Bodies	No of Village Panchayats / Blocks	No of Households	Population	Solid Waste Generated per day
2	Block / Taluk / Mandal Tehsils	NA	NA	NA	NA
3	Village/Gram Panchayats	NA	NA	NA	NA

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

S. No.	Action points for villages / blocks/town municipalities /City corporations	Identification of gap	ActionPlan	Responsible agencies	Timeline for completion of action plan
<b>1.</b>	<b>Segregation</b>				
(i)	Segregation of waste at source	Whether segregation at source practiced by house hold sand other waste generators	Action plan to achieve segregation at source. Awareness programs, incentives, etc. maybe considered		
Balasore	Yes	Yes		By Mission Shakti Group	Within the MoU Period
Jaleswar	Yes	Yes		Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	House Hold Level	Awareness Programme conducted all wards and incentive paid to Swacha Sathi, Supervisor and Swacha Karmi	ULB	Continue
Soro	<b>Yes</b>	Nil	-	-	-
<b>2</b>	<b>Sweeping</b>				
(i)	Manual Sweeping	Example:	Action plan for Reducing gap		
Balasore	Yes	-	-	By Mission Shakti Group	Within the MoU Period

District Environment Plan of Balasore District

Jaleswar	Yes	-	-	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	80% of road not covered for regular sweeping. Gaps in 18 Nos. manpower engaged for sweeping with help of tri cycle & jhadu. Out sourcing agency provided all PPE for sweeping.	Manual Sweeping	Out Sourcing Agency, The EUREKA	Within the Tender Period
Soro	Yes	Not Required	-	-	-
		% or length of road not covered for regular sweeping Gaps in manpower Gap in availability of sweeping tools/equipment Availability of suitable PPEs	including method cleaning, frequency of sweeping etc.		
(ii)	Mechanical Road Sweeping & Collection	Gaps if any in achieving targeted area or length of road identified for Mechanical Road Sweeping.	Projected growth / intended action plan with timelines		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	NA	NA	NA	NA	NA
<b>3</b>	<b>Waste Collection</b>				
(i)	100% collection of solid waste	Whether 100% collection achieved?	Action plan to improve existing collection		
Balasore	Yes	Yes	Yes	By ULB	Within MoU Period
Jaleswar	Yes	Yes	Yes	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	Yes	Yes	By ULB	Continue
Soro	Yes	Yes	Not Required	-	-
(ii)	Arrangement for door to door collection	Arrangement for door to door provided: % of blocks/wards covered	If there is gap, action plan for door to door collection across the district		
Balasore	-	-	-	By ULB	Within MoU Period
Jaleswar	Yes	100%	NA	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	100%	NA	ULB	Continue
Soro	Yes	100%	Not Required	-	-
(iii)	Waste Collection trolleys with separate compartments	Check availability and adequacy and if it needs up gradation	Action plan for procurement if required		
Balasore	-	-	-	By ULB	Within MoU Period
Jaleswar	Yes	Yes	Yes	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	BOV	7 Nos. BOV engaged	NA	ULB	Continue
Soro	Yes	No	Not Required	-	-
(iv)	Mini Collection Trucks with separate compartments	Check if adequate or needs up gradation or not required	[Action plan for procurement if required]		
Balasore	No	Not Required	NA	-	-
Jaleswar	No	Not Required	NA	-	-
Nilgiri	NA	NA	NA	NA	Continue
Soro	Yes	-	-	-	-
(v)	Waste Deposition centers (for domestic hazardous)	Number of deposition centers required and nos. available or Any alternate	Details of existing practice and scope for improvement or implement		

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	wastes)	Arrangement.	adequate system		
Balasore	Yes	No	Yes	By ULB	Within the MoU Period
Jaleswar	Yes	NA	No	Out Sourcing Agency NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	1	MRF	ULB	Continue
Soro	No	Not Required	-	-	-
<b>4.</b>	<b>Waste Transport</b>				
(i)	Review existing infrastructure for waste Transport.	[Check (i) whether existing fleet is adequate (ii) check whether segregated wastetransport possible, etc.]	Action plan forshort-comings identified.		
Balasore	Yes	Yes	NA	Out Sourcing Agency 1.Manjulata 2.Swarnadevi	Within the Tender Period
Jaleswar	Yes	Yes	NA	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	Yes	NA	ULB	Continue
Soro	-	-	-	-	-
(ii)	Bulk WasteTrucks	[check adequacy]	[action plan for procurement ifrequired]		
Balasore	Yes	Yes	NA	Out Sourcing Agency 1.Manjulata 2.Swarnadevi	Within the Tender Period
Jaleswar	No	NA	NA	NA	NA
Nilgiri	No	NA	NA	ULB	Continue
Soro	-	Not Required	-	-	-
(iii)	Waste Transferpoints	[check whetheravailable / adequacy]	[action plan forinstallation if required]		
Balasore	Wealth Centre	Yes	No	By Mission Shakti Group	Within MoU Period
Jaleswar	Wealth Centre	Yes	Yes	Outsourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	-	-	-	-	-
Soro	-	Yes	-	-	-
<b>5</b>	<b>Waste Treatment and Disposal</b>				
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)	Whether numberof bulk waste generators identified for installation	Action for getting on site composting plants commissioned		
Balasore	No	No	NA	NA	NA
Jaleswar	No	No	NA	NA	NA
Nilgiri	No	No	NA	NA	NA
Soro	-	Yes	Not Required	-	-
(ii)	Wet-waste Management: Facilities) for central Bio-meth nation / Composting ofwets waste.	Whether facility exists / functional / needs up gradation?	If not action planfor developing / upgradation of bio-meth nationor composting facility		
Balasore	No	NA	NA	NA	NA
Jaleswar	No	NA	NA	NA	NA
Nilgiri	MCC	Functional	NA	ULB	Continue
Soro	-	Yes	Not Required	-	-
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	Whether MRF facility exists? / isthere any arrangement to sending the dry- waste to any common MRF or sent to Waste toenergy plant or % dry-waste converted as RDFor Need to set-upown Waste to Energy	Action plan for use of dry segregated wastein MRF operation		

District Environment Plan of Balasore District

		plant?			
Balasore	Yes	Yes Send to MRF	NA	By Mission Shakti Group	Within the MoU Period
Jaleswar	Yes	Yes Send to MRF	NA	NA	NA
Nilgiri	MRF	No	NA	ULB	Continue
Soro	-	Not Required	-	-	-
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	Does the agency still disposing waste in dumpsites? Whether sanitary landfill available ? / Plan for constructing sanitary landfill or arrangement with ULBs	Action plan (i) to construct sanitary landfill if required (ii) Action plan to minimize land filling		
Balasore	No	Yes	Yes	ULB	NA
Jaleswar	No	NA	NA	NA	NA
Nilgiri	No	NA	NA	NA	NA
Soro	No	-	-	-	-
(v)	Remediation of historic / legacy dumpsite	Whether existing gold dumpsite if any required remediation as per rules?	Action plan for remediation of legacy / historic dumpsite.		
Balasore	Yes	Yes	Yes	-	-
Jaleswar	Yes	No	NA	NA	NA
Nilgiri	Yes	No	NA	NA	NA
Soro	-	-	Not Required	-	-
(vi)	Involvement of NGOs	Whether involvement of NGOs envisaged	NGOs can be involved for management of solid waste campaign		
Balasore	No	No	No	No	No
Jaleswar	No	No	No	No	No
Nilgiri	No	No	No	No	No
Soro	No	No	No	No	No
(vii)	EPR of Producers: Linkage with Producers / Brand Owners	As per rules, producers and brand-owners should facilitate in collection of packaging waste	Action plan for linkage of all producers/brand owners or their PROs for collection of plastic waste		
Balasore	No	No	No	No	No
Jaleswar	No	No	No	No	No
Nilgiri	No	No	No	No	No
Soro	No	No	No	No	No
(viii)	Authorisation of Waste Pickers	Yes/No	List of authorised waste pickers should be available		
Balasore	Yes	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	Yes	ULB	NA
Nilgiri	Yes	Yes	Yes	ULB	NA
Soro	-	Yes	-	-	-
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes/No	If not prepared action plan for preparation of by-laws which may be applicable in cantonment		

## District Environment Plan of Balasore District

			Board jurisdiction		
Balasore	Yes	Yes	NA	ULB	NA
Jaleswar	Yes	No	NA	ULB	NA
Nilgiri	Yes	Yes	NA	NA	NA
Soro	-	Yes	-	-	-

(Source : Office of the Municipality , Jaleswar, Balasore, Soro & Nilgiri)

### ii. Plastic waste Management

#### a. Current status related to Plastic waste management

	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day				
		SPCB	Balasore Municipality	Nilgiri Municipality	Jaleswar Municipality	Soro Municipality
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)					
2	Municipalities (Nagar Palikas)	400 KG	4 MT	-	3 KG	18 MT
3	Nagar panchayats (Town area Councils)			110 KG		

(Source : Office of the Municipality , Jaleswar, Balasore, Soro & Nilgiri)

	Local Bodies	Plastic Waste Generated per day
2	Block /Taluk / Mandal Tehsils	
3	Village/Gram Panchayats	

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

S.No.	Action points For village panchayats/ blocks/ municipalities / corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1.	Door to Door collection of drywaste including PW	[100%] / [partial	If not 100 %, action plan for door to door collection of SW		



## District Environment Plan of Balasore District

		%] / [not initiated]			
Balasore	Yes	100%	NA	Mission Shakti Group	Within the MoU Period
Jaleswar	Yes	100%	NA	Out Sourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Yes	100%	NA	ULB	Continue
Soro	Yes	100%	NA	-	-
2.	Facilitate organised collection of PW at Waste transfer point or Material Recovery Facility	This infrastructure is linked to SW management. May check gaps with respect to: <ul style="list-style-type: none"> <li>• Availability of transfer points and material recovery facility</li> <li>• Involvement of informal sector / NGO.</li> <li>• Registering waste pickers</li> <li>• Linkage with PW recyclers</li> </ul> Involvement of producers and brand-owners	Within the district outline specific plans for Each village panchayat/block/municipality / Nagar panchayat/ Corporations for plastic waste collection	Identify agencies at local and district level to implement and monitor progress respectively	
Balasore	MRF	Yes	NA	Mission Shakti Group	Within the MoU Period
Jaleswar	MRF	Yes	NA	Out Sourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	MRF	Yes	NA	Out Sourcing Agency, EUREKA & ULB, Anandapur	Within the Tender Period
Soro	-	-	-	-	-
3.	PW collection Centers	Local Bodies may set-up own centers and also involve producers and brand-owners or their PROs to facilitate setting up of collection centers.	Plastic waste collection centre should be established in adequate numbers. Coordination with State Urban Department may be necessary		
Balasore	Household & Commercial Establishment	-	-	Mission Shakti Group	Within the MoU Period
Jaleswar	Household	-	-	Out Sourcing Agency, NIPS, Anandapur	Within the Tender Period
Nilgiri	Household Level	NA	Yes	Out Sourcing Agency, EUREKA & ULB, Anandapur	Within the Tender Period
Soro	Household	Yes	-	-	-
4.	Awareness and education programs implementation	Review existing gaps in creating awareness among public for minimizing and recycling PW	Education through mass media, schools, Producer / brand owner campaigns and other channels		
Balasore	Yes	Yes	Yes	ULB	ULB
Jaleswar	Yes	Yes	Yes	ULB	ULB
Nilgiri	Yes	Yes	Yes	ULB	Continue
Soro	Yes	Yes	Yes	ULB	ULB
5.	Access to Plastic Waste Disposal Facilities	Check if District has access to PW recycling / utilization or disposal facilities..	Check if PW recycling facilities available at reasonable distance; Channel for sending PW collected to cement plants for processing; Availability of waste plastic oil producing facilities; Linkage with PWD for usage of PW in road making. Action plan at district should involve Urban and Rural Local bodies		
Balasore	Yes	Yes	Yes	NA	NA
Jaleswar	Yes	No	No	NA	NA

## District Environment Plan of Balasore District

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Nilgiri	Yes	No	No	NA	NA
Soro	-	-	-	Yes	-

### iii. C & D Waste Management

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

Details of Data Requirement	Present Status				
	SPCB	Balasore Municipality	Nilgiri Municipality	Jaleswar Municipality	Soro Municipality
Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities)	50 KG	0.2 MT	0.01 MT	0.03 MT	4.5 MT
Does the District has access to C&D waste recycling facility?	Yes	No	No	No	No

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

S. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	Check gaps w.r.t: Separate collection point of C&D Waste Identification of common C&D waste deposition points -	Action plan for every local body in district. District may identify common C&D waste deposition points.		
Balasore	Yes	Yes	No	ULB	NA
Jaleswar	Yes	Yes	No	ULB	NA
Nilgiri	Yes	Yes	No	ULB	Continue
Soro	Yes	-	-	-	-
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?	Check gaps with respect to: - Local by-laws to pay user fee - Implementation of a system to permit bulk generators (>20 tons in one day or 300 tons per project)	Common by-laws may be implemented in District. Local C&D waste management plans can be integrated to develop common collection and recycling facilities		
Balasore	Yes	Yes	NA	ULB	NA
Jaleswar	Yes	Yes	NA	ULB	NA
Nilgiri	Yes	Yes	NA	ULB	Continue
Soro	-	-	-	-	Yes
3.	C&D recycling Facility	Check whether district has any C&D waste recycling facility	Action plan for setting up C&D recycling facility in the District or tie-up with any other district or ULB for setting up common facilities. Plan should ensure viable operation of C&D plant including assured market for C&D products.		
Balasore	No	No	No	ULB	NA
Jaleswar	No	No	No	ULB	NA
Nilgiri	No	No	No	ULB	NA
Soro	-	-	-	-	-
4.	Usage of recycled C&D waste in non- structural concrete, paving blocks, lower layers of road	Is there any policy on usage or promotion on usage of C&D waste?	Local authority may make give appropriate incentives on usage of C & D waste. A % of usage in		

	pavements, colony and rural roads		public works may be specified / any other scheme.		
Balasore	Yes	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	Yes	ULB	NA
Nilgiri	Yes	Yes	Yes	ULB	Continue
Soro	-	-	-	-	-
5.	ICE on C & D waste management	Is there any sustained system of creating awareness created among local communities?	Action plan for awareness and education		
Balasore	Yes	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	No	ULB	NA
Nilgiri	Yes	Yes	No	ULB	NA
Soro	-	-	-	-	Yes

#### iv. Biomedical Waste Management

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

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	63 Nos.
Total no. of non-bedded HCF	74 Nos.
No. of HCFs authorised by SPCBs/PCCs	112 Nos.

No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	Not Available
Capacity of CBWTFs	Not Applicable
No. of Deep burials for BMW if any	112 Nos.
Quantity of biomedical waste generated per day	1500 Kg./ Day (Approx)
Quantity of biomedical waste treated per day	No CBWT available

(Source : SPCB)

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

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Healthcare Facilities	Check whether all HCFs including, clinics, hospitals, veterinary hospitals, Aayush hospitals, animal houses, etc generating biomedical waste area identified and authorized by SPCBs/PCCs	Action plan for completing /updating of Inventory and authorization of HCFs by SPCBs/ PCCs	Applied to SPCB for Authorization pending for issue	01 Year
2.	Adequacy of facilities to treat biomedical waste	Check if there is any gap between Quantity of Biomedical Waste generated per day and quantity of Biomedical Waste treated and disposed in the district? In case of no access to CBWTFs, adequacy of existing disposal of BMW	Action plan for setting-up CBWTF or providing access to CBWTF with 75km from places waste generation. Including identification of site for setting up such facility. Action plan for management of BMW through captive facilities in case of no access to CBWTF	Not Available CBWTF, waiting for approve agency at CBWTF if any.	01 Year
3.	Tracking of BMW	Check whether bar code system is implemented by all HCFs and CBWTFs?	Plan for implementation of bar code system by All HCFs and CBWTFs in the district.	Software and Hardware pending at Director Public Health, Odisha	01 Year
4.	Awareness and education of healthcare staff	Whether training has been organized for all stakeholders?	Action plan for awareness programs and training to healthcare staff and ULB officials	All training conducted	01 Year
5.	Adequacy of funds	Whether adequate funds is allocated to Government health care facilities for bio-medical waste management by State Govt.?	Action plan for ensuring adequate funds to Government health Care facilities for bio-medical waste management by State Govt.	Funds requirement submitted to Director, Public Health, Odisha	01 Year
6.	Compliance to Rules by HCFs and CBWTFs	Is there any district level mechanism to monitor compliance by Hospitals / HCFs?	Draw action plan to monitor compliance of HCFs and CBWTFs through SPCBs/PCCs.	Not Applicable	Not Applicable
7.	District Level Monitoring Committee	Check whether District Level Monitoring Committee has been constituted and meetings	Action plan w.e.f Periodicity of reviews and follow-up by DLMC. Identify teams in health department	District Level Monitoring Committee (DLMC) constituted under the	Not Applicable

		are being organised?	to monitor compliance.	chairmanship of Collector, Balasore and meetings are being organized	
8.	Wastewater Treatment	Check if HCFS are required to install ETPs for wastewater generated	Action plan for installation of ETPs by HCFS where applicable.	Plan requirement submitted to Director, Public Health, Odisha.	01 Year

(Source : SPCB)

## v. Hazardous Waste Management

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

Details of Data Requirement	Present Status				
	SPCB	Balasore Municipality	Nilgiri Municipality	Jaleswar Municipality	Soro Municipality
No of Industries generating HW	18		0	NA	
Quantity of HW in the district	4591.27 MT/Annum	NA	-	NA	NA
(i) Quantity of Incinerable HW	0.1 MT/Annum	NA	0.12 MT/Annum	0.36 MT/Annum	0.150 MT/Annum
(ii) Quantity of land-fellable HW	219 MT/Annum	NA	0.40 MT/Annum	0.60 MT/Annum	0.150 MT/Annum
(iii) Quantity of Recyclable / utilizable HW	4372.27 MT/Annum	NA	0.50 MT/Annum	0.72 MT/Annum	NA
No of captive/common TSDF	Nil	NA	1	1	NA
Contaminated Sites or probable contaminated sites	Nil	NA	NA	NA	NA

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

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

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S. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	Check whether all hazardous waste industries are identified and authorized by SPCBs/PCCs	SPCB/PCC should ensure that all hazardous waste industries are authorized and a system of safe disposal is in place.		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	-	-	-	-	-
2.	Establishment of collection centres	Check district has collection centres for hazardous wastes with linkage to common TSDFs / recyclers	Local authority should ensure that adequate number of collection centres should be established and are linked to Common TSDFs.		
Balasore	Yes	NA	Yes	NA	NA
Jaleswar	Yes	NA	Yes	NA	NA
Nilgiri	Yes	NA	Yes	ULB	Continue
Soro	-	-	-	-	-
3.	Training of workers involved in handling / recycling / disposal of HW	Identify facilities / industries engaged in recycling / pre-processing / disposal of hazardous waste in the district.	Action plan to train the workers on safety aspects through Department of Industries as per provisions under HOWM Rules, 2016		
Balasore	Yes	NA	NA	NA	NA
Jaleswar	Yes	NA	NA	NA	NA
Nilgiri	Yes	NA	NA	ULB	Continue
Soro	-	-	-	-	-
4.	Availability / Linkage with common TSDF or disposal facility	Check if the generators of HW have access to common TSDF in the State?	Action plan to ensure all generators are linked to TSDF / Action plan in case there is no TSDF in the district or State - in such case evaluate existing storage and captive disposal facilities through SPCBs/PCCs		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	-	-	-	-	-
5.	Contaminated Sites	Are there any sites where soils / sediments / groundwater contaminated due to dumping of industrial wastes	Action plan for identification of probable contaminated site, incidents of HW dumping, responsible parties for contaminated site etc. and to remediate contaminated sites...		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	-	-	-	-	-

## vi. E-Waste Management

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

Details of Data Requirement	Present Status				
	SPCB	Balasore Municipality	Jaleswar Municipality	Nilgiri Municipality	Soro Municipality
Inventory of E-Waste in MT/year	No	No	No	0.36 MT/Year	6 MT/Year
Collection centers established by ULBs in the District	None	4	1	1	1
Collection centers established by Producers or their PROs	None	-	-	0	1
No authorized E-Waste recyclers / Dismantler	None	-	-	0	1

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

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

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E-Waste / Bulk-waste generators	Check whether SPCB/PCC has completed inventory of E-Waste in the District. Inventory of bulk wastegenerators	Completion of inventory	SPCB/PCC	
Balasore	Yes	Yes	Yes	SPCB	NA
Jaleswar	Yes	Yes	Yes	SPCB	NA
Nilgiri	Yes	Yes	NA	SPCB	-
Soro	No	-	-	-	-
2	E-Waste collection points	Availability of E-Waste collection points / call centres / kiosks in villages - Blocks / /towns	Identification / registering E-Waste collection centres in association with Producers -		



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		/ cities	their PROs or Recyclers		
Balasore	Household & Commercial Establishment	NA	NA	NA	NA
Jaleswar	Household Collection	NA	NA	NA	NA
Nilgiri	Household Level	NA	ULB	Continue	
Soro	Yes	-	-	-	-
3	Linkage among Stakeholders to channelize E-Waste	Check whether District administration has information on collection centres established by Producers / PROs? Administration should also identify authorised E-Waste recyclers in the district or in State to channelize E-waste collected in District.	Action plan to establish linkages between ULBs / Collection Centres of Producers and PROs / SPCBs / Bulk waste generators / Recyclers / SPCBs / District Administration / Public		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	Yes	-	-	-	-
4	Regulation of Illegal E-Waste recycling / dismantling	Prevalence of informal trading, dismantling, and recycling of E-waste is in District	Action plan in coordination with SPCBs/PCCs and District Administration to check this activity.		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	Yes	-	-	-	-
5	Integration of informal sector	Whether mechanism exists for bringing informal sector into main stream in collection and recycling of E-Waste	Evolve mechanism by involving producers / PROs.		
Balasore	NA	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	Yes	-	-	-	-
6	Awareness and Education	Are there any programs at district level for awareness about E-waste management?	Plan special workshops and awareness campaigns through Producers / PROs		
Balasore	Yes	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	Yes	ULB	NA
Nilgiri	NA	NA	NA	NA	NA
Soro	Yes	-	-	-	-

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

### 3.0 Air Quality Management

#### (a) Current Status related to Air Quality Management

Details of Data Requirement	Present Status				
	SPCB	Balasore Municipality	Jaleswar Municipality	Nilgiri Municipality	Soro Municipality
Number of Automatic Air Quality monitoring stations in the district. - Operated by SPCB / State Govt / Central govt./ PSU agency :	None	NA	NA	NA	NA
- Operated by Industry:	03	NA	NA	NA	NA
Number of manual monitoring States operated by SPCBs	03	NA	NA	NA	NA
Name of towns / cities which are failing to comply with national ambient air quality stations	None	NA	NA	NA	NA
No of air pollution industries	191	NA	NA	NA	NA
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	NA	NA	NA	NA	NA

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

#### (b) Identification of gaps and action plan:

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	Identification of prominent air polluting sources?	Carry out inventory of air pollution sources in District including hotspots or areas of concern pertaining to air pollution in association with SPCBs/PCCs may		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
2.	Ambient Air quality data?	Plan to get access to available air quality monitoring stations in the District operated by both Public and private agencies.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	Like weather station, District may also have ambient air quality monitoring at major urban settlements or populated areas. Action plan may propose setting up at least one CAAQMS in District. Also access data generated By CAAQM stations Installed by other		

		pvt/public agencies. District authority in Association with local office of SPCB/PCC should also ensure that at least one manual Air Quality monitoring station is available in each city. [District admin may set-up its own network of CAAQMS or manual stations]		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
4.	District Level Action Plan for Air Pollution	Action plan should be prepared for both improvement of existing air quality as well as for non-attainment days to national ambient air quality standards. [Measures may include multi sectoral approach for air pollution controls such as promotion of public transport, use of green fuels, E-mobility, LPG based cooking, carpeting open areas/kerbs, etc. Action plans envisaged in NCAP project initiated by MoEF&CC may be referred]	1	
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
5.	Hotspots of air pollution in District	hotspot with respect to air pollution (such as stubble burning, illegal waste burning, unauthorized operations, cluster activities, forest fires etc.) should be identified and localised action plan for mitigation of the same should be prepared.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
6.	Awareness on Air Quality	Plan for dissemination of information on local air quality in towns and cities located in District. May consider developing Mobile App / Online portal for dissemination of air quality as well as to take complaints on local air pollution.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

## 4.0 Water Quality Management

### 4.1 Water Quality Monitoring

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

Details of Data Requirement	Present Status				
	SPCB	Balasore	Jaleswar	Nilgiri	Soro
Rivers	NA	NA	NA	NA	NA
Length of Coastline (if any)	84 Km.	NA	NA	NA	NA
Nalas/ Drains/Creeks meeting Rivers	83 Nos.	NA	NA	NA	3 Nos.
Lakes / Ponds	12703 Nos. & 5073.72 Ha.	17 Nos. & 7.77 Ha.	6 Nos. & 0.56 Ha.	NA	21 Nos.
Total Quantity of sewage from towns and cities in District	31.8 MLD	NA	NA	NA	NA
Quantity of industrial wastewater	19 MLD	NA	NA	NA	NA
Percentage of untreated sewage	4%	NA	NA	NA	NA
Details of bore wells and number of permissions given for extraction of groundwater	1960 Nos.	121	15	NA	NA
Groundwater polluted areas if any	Nil	NA	NA	NA	NA
Polluted river stretches if any	Nil	NA	NA	NA	NA

(Source : SPCB & PH Division, Balasore)

**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	An environmental monitoring cell shall maintain data of all waterbodies (rivers / canals / natural drains / creeks / estuaries / groundwater / ponds / lakes / etc.) in district including its water quality		
Balasore	17	Yes	ULB	NA
Jaleswar	06	Yes	ULB	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
2.	Quality of water bodies in the district	Check availability of data on water bodies. Create a district level monitoring cell for periodic monitoring of water bodies for specific parameters in association with SPCBs. It is also necessary to disseminate information pertaining to water quality in the form of hoardings on river banks, official websites, etc.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
3.	Hotspots of water contamination	Check trends of water quality and identify hotspot of surface water and ground water. Establish a system or separate cell to monitor water quality. Implement action points for restoration of water quality in association with SPCBs and department of environment.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
4.	Protection of river / lake	Action plan should be prepared for control		

## District Environment Plan of Balasore District

	water front	river side open defecation, dumping of Solid waste on river banks,for idol immersion etc.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
5.	Inventory of sources of water pollution	Check whether inventory of all sewage and wastewater discharge points into water Bodies in the district. Action plan to complete inventory.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
6.	Oil spill disaster management (for coastal districts)	Whether district oil spill crisis management group and District Oil Spill Disaster Contingency Plan has been created? If not, create District Oil Spill Crisis Management Group and District Oil Spill Disaster Contingency Plan for the district.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
7.	Protection of flood plains	Check whether there is regulation for protection of flood plain encroachment? Action plan should be prepared for protection flood plain and prevention of encroachment.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
8.	Rejuvenation of groundwater	Check availability of groundwater and if required prepare action plan to Rejuvenate ground water in selected areas. Action plan should be prepared for Rain water harvesting		
Balasore	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	ULB	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
9.	Complaints redressal system	Check whether there is any complaint redressing system based on Mobile App / Online, is available? If not, a complaint redressing system based on Mobile App / Online should be available at district level		
Balasore	Yes	Yes	ULB	NA
Jaleswar	Yes	Yes	ULB	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

## 4.2 Domestic Sewage

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

Details of Data Requirement	Present Status				
	SPCB	Balasore	Jaleswar	Nilgiri	Soro
No of Class-II towns and above	4 Nos.	NA	NA	NA	NA
No of Class-I towns and above	0	NA	NA	NA	NA
No of Towns STPs installed	1 No.	NA	NA	NA	NA
No of Towns needing STPs	4 Nos.	NA	NA	NA	NA
No of ULBs having partial underground sewerage network	Nil	NA	NA	NA	NA
No of towns not having sewerage network	0	NA	NA	NA	NA
Total Quantity of Sewage generated in District from Class II cities and above	31.8 MLD	NA	NA	NA	NA
Quantity of treated sewage flowing into Rivers(directly or indirectly)	0	NA	NA	NA	NA
Quantity of untreated or partially treatedsewage (directly or indirectly)	4	NA	NA	NA	NA
Quantity of sewage flowing into lakes	0	NA	NA	NA	NA
Total available Treatment Capacity	[MLD]	NA	NA	NA	NA

(Source : SPCB, Balasore, Jaleswar, Nilgiri & Soro Municipality)

**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
	Sewage Treatment Plants (STPs)	Check whether existing capacity of STPs is adequate for treatment of sewage? If no, action plan for additional treatment capacity required should be prepared in association with ULBs / department of UD,		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
	Underground sewerage network	Check available sewerage network and prepare Action plan for laying of sewerage network in town & cities. The project may be executed through ULBs and Department of UD		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

## 5.0 Industrial Wastewater Management

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

Number of Red, Orange, Green and White industries in the District	18 Nos. of Red industries, 104 Nos. of Orange industries, 75 Nos. of Green industries, White industries is not carrying under the consent administration of the board.
No of Industries discharging wastewater	42 Nos.
Total Quantity of industrial wastewater generated	19 MLD
Quantity of treated industrial wastewater discharged into Nalas / Rivers	14 MLD
Common Effluent Treatment Facilities	No CETP
No of Industries meeting Standards	33 Nos.
No of Industries not meeting discharge Standards	9 Nos.

(Source : SPCB, Balasore)

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

S. No.	Action points	Gaps and ActionPlan	Responsibleagency	Timeline for completion of actionplan
1.	Compliance to discharge normsby Industries	Identify gaps w.r.t industries not Meeting thestandards. Necessary action beinitiated throughSPCBs against theindustries not Meeting the standards.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
2.	Complaint redressal system	Check if there is any complaint redressing system based on Mobile App / Online, is available? If not, a complaint redressing system based on Mobile App / Online portal may be prepared at district level.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

## 6.0 Mining Activity Management Plan

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

Details of Data Requirement	Existing Mining operations				
	SPCB	Balasore	Jaleswar	Nilgiri	Soro
Type of Mining Activity	NA	NA	NA	NA	NA
No of licensed Mining operations in the District	Sand-09 Stone-103	NA	NA	NA	NA
% Area covered under mining in the District	292.857 Ha.	NA	NA	NA	NA
Area of Sand Mining	0.946 Sq. Km.	NA	NA	NA	NA
Area of sand Mining	River Bed	NA	NA	NA	NA

(Source : SPCB)

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

Sl. No.	Action points	Gaps and Action Plan	Responsibleagency	Timeline for completion of actionplan
1.	Monitoring of Miningactivity	A district level task teammay be identified to identify mining activity and to monitor status wither respect to environmental compliance		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA



Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
2.	Inventory of illegal mining if any mining	Action plan to identify illegal sand and other mining activity in the District through surveillance, patrolling and enforcement. District Level task Force may be constituted for control of illegal mining activity		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
3.	Environment compliance by Mining industry	Action plan for periodic verification of compliance to environmental conditions stipulated by SPCBs/PCC, MoEF&CC department of mines etc. SPCBs/PCC may be involved in this activity .		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

## 7.0 Noise Management Plan

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

Details of Data Requirement	Measurable Outcome				
	SPCB	Balasore	Jaleswar	Nilgiri	Soro
No. of noise measuring devices available with various agencies in district	State Pollution Control Board-01 No	NA	NA	NA	NA

(Source : SPCB)

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

SI No.	Action Points	GPS And Action Plan	Responsible Agency	Timeline for completion for action plan
1.	Availability of Sound/Noise Level Meters.	Need to check whether concerned agencies that is ULBs, SHOs, Traffic police and SPCB/PCC have noise level meters. District administration may ensure through an action plan that concerned agencies and environmental cell under district administration have adequate number of portable noise level meters.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
2.	Ambient Noise Level monitoring.	ULBs shall ensure that ambient sound levels comply with notified standards for residential, sensitive zones. An action. Apart from portable analyzers, fixed ambient noise level monitoring stations may be installed in major cities and towns, such stations may be installed any ULBs and SPCB/PCC,		
Balasore	Yes	Yes	ULB	NA

Jaleswar	Yes	Yes	ULB	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
3.	Sign boards in Noise zones	District administration may ensure that adequate number of sign boards installed at sensitive zones in towns / cities in towns and cities . An action plan may be prepared by district authority.		
Balasore	NA	NA	NA	NA
Jaleswar	NA	NA	NA	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA
4.	Complaint redressing system	Action plan may envisage implementing a public complaint redressal system for noise pollution. Such application may be used by SHOs, Traffic police ULBs and SPCBs in the district.		
Balasore	Yes	NA	ULB	NA
Jaleswar	Yes	NA	ULB	NA
Nilgiri	NA	NA	NA	NA
Soro	NA	NA	NA	NA

## 8.0 Wetland Management Plan

Balasore district has a geographical area of 3806 sq km with about 3 per cent under wetlands. The wetland area is estimated to be 15923 ha (Table 14). District comprises of 3536 wetlands including 3138 wetlands smaller than 2.25 ha. Major wetland categories are River/Stream (6375 ha) and Intertidal Mudflats (4126 ha) accounting for about 33 and 22 per cent of wetlands of the district. Aquaculture ponds constitute a significant extent (3396 ha) along with small wetlands of <2.25ha (about 16 %). Area under aquatic vegetation is insignificant, which constitute 113 ha and 141 ha in post- and pre-monsoon seasons. Open water constituted about 65 per cent of wetland area in post-monsoon (10387 ha) and has shown a marginal seasonal reduction in pre-monsoon (10104 ha). Moderated turbidity is prevalent in open water in both the seasons followed by low turbidity. High turbidity has not been exhibited by the open water in both the seasons.

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

Details of Data Requirement	Measurable Outcome
No. of Wetland and its extent	No- 3536 ; Area = 19061 in Ha.

Sl. No.	Wetland Category	Number of wetlands	Total wetland Area	% of wetland area	Open Water	
					Post- monsoon area	Pre- monsoon area
<b>Inland Wetlands - Natural</b>						
1	Lakes/Ponds	-	-	-	-	-
2	Ox-bow lakes/ Cut-off meanders	6	110	0.58	110	110
3	High altitude wetlands	-	-	-	-	-
4	Riverine wetlands	13	147	0.77	147	137
5	Waterlogged	19	134	0.70	130	130
6	River/Stream	76	6375	33.45	6361	6116
<b>Inland Wetlands -Man-made</b>						
7	Reservoirs/Barrages	9	124	0.65	80	57
8	Tanks/Ponds	34	148	0.78	132	127
9	Waterlogged	1	31	0.16	31	31
10	Salt pans	-	-	-	-	-
<b>Total - Inland</b>		<b>158</b>	<b>7069</b>	<b>37.09</b>	<b>6991</b>	<b>6708</b>
<b>Coastal Wetlands - Natural</b>						
11	Lagoons	-	-	-	-	-
12	Creeks	-	-	-	-	-
13	Sand/Beach	12	943	4.95	-	-
14	Intertidal mud flats	39	4126	21.65	-	-
15	Salt Marsh	-	-	-	-	-

## District Environment Plan of Balasore District

16	Mangroves	8	389	2.04	-	-
17	Coral Reefs	-	-	-	-	-
<b>Coastal Wetlands - Man-made</b>						
18	Salt pans	-	-	-	-	-
19	Aquaculture ponds	181	3396	17.82	3396	3396
<b>Total - Coastal</b>		<b>240</b>	<b>8854</b>	<b>46.45</b>	<b>3396</b>	<b>3396</b>
<b>Sub-Total</b>		<b>398</b>	<b>15923</b>	<b>83.54</b>	<b>10387</b>	<b>10104</b>
20	Wetlands (<2.25 ha)	3138	3138	16.46	-	-
<b>Total</b>		<b>3536</b>	<b>19061</b>	<b>100.00</b>	<b>10387</b>	<b>10104</b>

Specification	Open Water	
	Post- monsoon Area	Pre- monsoon Area
Area under Aquatic Vegetation	113	141
Area under turbidity levels		
Low	82	2194
Moderate	10305	7910
High	-	-

Source : Drainage Division, Balasore / Irrigation Division, Balasore / Minor Irrigation Division, Balasore / National Wetland Atlas, Orissa ; sponsored by MoEF&CC, Govt. of India

### 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
2	Disposal of Solid & Other Waste	Unscientific disposal of solid waste into wetland. Load based assessment of Solid waste & other waste. Scientific management of existing land-fill sites & promotion of sanitary land-fill sites (SLF)	ULB	12 months
3	Water quality testing	Any such initiative of monitoring of water quality of wetland is not yet been taken up by OSPCB. Sampling in every quarter for testing and provision for mobile lab for on-site testing, Empanelment of private testing labs	SPCB	Half-yearly
4	Preventing siltation	Almost all wetland 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
5	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
6	Removal of Encroachment	Massive encroachment found specially in urban area. Revenue authorities along with DoWR and ULB officials will make inspection of drainage areas for removal of encroachment	District Administration (Revenue Authorities)	1 year

Member Secretary, District Committee  
- cum - Divisional Forest Officer  
Balasore Wildlife Division, Balasore

Chairman, District Committee  
- cum - Collector & District Magistrate, Balasore

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