Government of West Bengal **Department of Environment**

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No. EN/1562 /RTI/15/2020

Dated, Kolkata 25th November, 2020

From :: Pausali Mukherjee, WBLS

Sr. Law Officer &SPIO

To

:: Debasis Shyamal

C/o-Purba Medinipur Matsyajibi Forum

At. Jalalkhanbhar (Ward No-21) P.O-Contai Bazar, P.S-Contai Dist-Purba Medinipur, Pin-721403

Sub: Information of RTI Act, 2005

Sir

With reference to your letter dated 24.11.2020 regarding payment of fees in connection with RTI application dated 07.10.2020 and 13.10.2020, the Coastal Zone Management Plan of West Bengal and CRZ Maps of all coastal districts of West Bengal is enclosed herewith for your information.

Yours faithfully,

Enc:as stated

Sr. Law Officer & SPIO

Coastal Zone Management Plan of West Bengal

Department of Environment, Govt. of West Bengal

July, 2018

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- 1. CRZ and LULC Maps of Purba Medinipur
- 2. CRZ and LULC Maps of South 24 Parhanas
- 3. CRZ and LULC Maps of North 24 Parganas

Abbreviations

BRGFP : Backward Regions Grant Fund Programme

CVCA : Critically Vulnerable Coastal Areas

CD : Community Development CRZ : Coastal Regulation Zone

CZMP : Coastal Zone Management Plan

DSDA: Digha Sankarpur Development Authority

DSPA : Digha Sankarpur Planning Area

E : East

ESA : Ecologically Sensitive Areas

GBDA : Gangasagar Bakkhali Development Authority

GDDP : Gross District Domestic Product
HDA : Haldia Development Authority

HTL : High Tide Line LTL : Low Tide Line

MoEF&CC : Ministry of Environment, Forest & Climate Change

N : North

NDZ : No Development Zone

S : South

SEZ : Special Economic Zone

UT : Union Territories

W : West

WBSCZMA : West Bengal State Coastal Zone Management Authority

CRZ : Coastal Regulation Zone
LULC : Land Use Land Cover
HSC : Horse Shoe Crab Habitat
NGB : Nesting Ground of Birds

MFT : Mud Flat
MANG : Mangroves
RF : Reserve Forest
SD : Sand Dune
SM : Salt Marsh

Foreword

The West Bengal Coastal Zone Management Plan (CZMP) was prepared and notified in 1996. In 2011 Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, brought in changes in classifications and management of coastal areas and requested all coastal State Government & Union Territories to revise their existing CZMPs.

It was also felt that more accurate and geo referenced maps are required for the CZMP to be effective.

The Government of West Bengal decided to take up revision of the Coastal Zone Management Plan for West Bengal. In order to perform the work, Department of Environment, Government of West Bengal constituted -

- a) Steering Committee involving all the stake holder departments for framing policy decisions, identifying areas to be classified into different CRZ categories, and to identify proposed developmental activities to be taken up in each zone, and
- b) Working Group involving experts in field, personnel of the Department and the Institute of Environmental Studies and Wetland Management (IESWM) for preparation of the CRZ maps, demarcating of HTL, LTL, ESA, as well as 500m, 200m and 100m lines & below and also the Land use maps for the Coastal regulation areas.

The Department of Environment, Government of West Bengal entrusted the Institute of Environmental Studies and Wetland Management, (an authorised Institute) for p*eparing the CRZ maps based on the HTL and ESA provided by NCSCM.

As was decided by MoEF&CC, National Centre for Sustainable Coastal Management (NCSCM) Chennai, was assigned the task of demarcation of HTL and LTL and Eco Sensitive Areas (ESA) of all the coastal states, so as to maintain procedural uniformity.

NCSCM provided the HTL and ESA maps to West Bengal. LTL was not provided by NCSCM and IESWM prepared the LTL for the coast line.

The Working Group guided the preparation of the CRZ maps and the land use (LULC) maps for the coastal areas. Meetings with stakeholder departments were held and suggestions were invited on the draft maps.

A high level consultative meeting was held with the stake holder departments under the Chairmanship of the Chief Secretary of the State to examine the draft plan and make suggestions.

Finally public hearings were held in the three coastal districts.

The CZMP was prepared after considering all views and suggestions.

The CZMP of West Bengal has been prepared in two parts:-

The first part is the written document, describing the Areas falling within different CRZ, activities permissible and proposed in such areas;

The second part is the CRZ & LULC maps in 1:25000 scale printed in A1 size stationery. Maps in A2 size stationery had also been printed for ease of use. The maps have been arranged in

separate booklets for the three coastal districts namely Purba Medinipur, South 24 Parganas and North 24 Parganas.

The CZMP will guide activities in the coastal districts of the state in the coming years.

1 Introduction

1.1 About India's Coastline

The Indian peninsular has a coastline that stretches for 7516.6 km with 9 States and 2 Union Territories (UTs) bordering it from west to east and 2 island territories. These are:

- Maritime States: Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Odisha, West Bengal
- * Maritime UTs: Daman & Diu, Puducherry
- sland Territories: Andaman & Nicobar Is., Lakshadweep Is.

Coastal India spans from along the Arabian Sea from the coastline of the Gulf of Kutch in its westernmost corner and stretches across the Gulf of Khambat, through Konkan and southwards across the Raigad region further down Mangalore along the Malabar coast through Cape Comorin in the southernmost region of South India with coastline along the Indian Ocean and through the Coromandel Coast. The coastline on the South Eastern part of the Indian Subcontinent along the Bay of Bengal through the Utkal Kalinga region extends until the easternmost corner of shoreline near the Sundarbans in Coastal Eastern India.

1.2 Coastline of West Bengal

West Bengal is the eastern most state of the Indian coastline along the Bay of Bengal and commands significant a location geographical harbouring the River Ganga (Hooghly-Matla estuary estuarine complex), shared with country neighbouring Bangladesh. It has a coastline stretching for about220 across its three coastal districts namely North 24 Parganas, South 24 Parganas and Purba Medinipur. These three districts constitute the Coastal Zone Management Plan, henceforth known as CZMP area with specific focus on their coastal stretches.

The Coastal Zone Management Plan area stretches from the northern limit bounded by the confluence of River Hooghly and River Roopnarayan, the mouth of the river Subarnarekha on the west (bordering the state of Odisha) to the mouth of River Harinbhanga on the east (bordering Bangladesh) and Southern limit of Diamond harbour Municipality on the eastern bank of Hooghly and then extending eastward along the Dampier Hodges line upto part of Hasnabad in North



24 Figure 1 Map of West Bengal and CZMP Area Districts

Parganas district. The coastal zone covers important beaches like Digha, Sankarpur, Mandarmani, Tajpur, Sagar, Bakkhali, Frezargaunge, and places of important pilgrimage like Ganga Sagar Island, besides Mangrove forests of the Sundarbans, Nijkasba andthe wildlife sanctuaries (Sajnekhali, Halliday and Lothian), one national park (Sundarbans National Park), the Sundarbans Tiger Reserve besides areas like Sankarpur Fishing Harbour etc.

1.2.1 Geomorphological Characteristics of the Bengal Coastline¹

The Bengal basin in its southern extremity is characterized by the presence of an extensive marine-coastal tract, bordered by the Bay of Bengal. This coastal stretch covers the southern part of West Bengal, India in the west and Bangladesh to the east. Physiograhically, the coastal belt of West Bengal comprises of the Hooghly estuary in the east and the Medinipur Coastal plain (part of the Balasore Contai Coastal Plain) in the west with the Hooghly River in between.

The macrotidal Hooghly estuary (tidal range>4m) forms the western part of the Ganga-Brahmaputra delta. The bell or funnel shaped Hoogly river mouth is characterized by a group of islands set in a labyrinth of tidal creeks marking their outlines. Thismicrotidal domain with bi-directional tidal currents is marked by the presence of 'sickle-shape' near offshore configuration with partially or totally emerged linear tidal shoals (aligned perpendicular to the shoreline) separated by intervening swales e.g. Jambudwip and Chuksardwip.

The mesotidal (tidal range 2 to 4m) Medinipur coastal plain is characterised by the presence of successive rows of dunes with interveining clayey interdural flats with tidal influence. It extendes from Digha (Udaypur/Talsari) in the west to Junput in the eastwith a linear stretch of 46 km andis segmented into four sectors viz. Digha, Shankarpur / Chandpur, Dadan Patrabar and Junput sectors by major tidal creeks viz. Ramnagar Khal, Jaldha creek and Pichaboni Khal respectively.

The entire West Bengal coastal line may be subdivided into three (3) zones in the context of the CZMP:

1. Harinbhanga River mouth to Hooghly river mouth with suburban core forest area and the reclaimed area with human settlement covering some blocks of North & South 24 Parganas.

2. Along Hooghly river upto the southerm limit of Diamond Harbour Municipality beyond the Kulpi point in the east and uptoconfluence of River Rupnarayan with Hooghly beyond Haldia port in the west.

3. Digha Junput coastal plain in Purba Medinipur district.

Each of the zones are exhibiting very specific 'geo-bio-cultural' characteristics of delineation of CRZ with present day and futuristic consideration as the West Bengal coastal zone scenario is very different from the other parts of the country due to the human settlement after the partition in 1947, when huge influx of refugees from the earstwhile East Pakistan assembled in West Bengal.

Geomorphology of the Medinipur Coastal Plain, Purba Mednipur District:

The different terrain units present in this district are beach face, beach front dune complex, remobilised sand, present day intertidal flat.

The 'Ancient Dune Complex' though not present in the eastern part of the Hooghly estuary, is represented by a 'morpho-structural lineament' which marks the ancient strand line around 6000 vrs.B.P. in the region.

The beach face of Digha-Junput coastal Plain, in general, is characterized by about 6m thick cover of sand underlain by intertidal clay deposits in the Digha sector which dwindles down to about 1.50m in the Junput sector. This indicates that the thickness of sand cover in the beach face is thinning out towards Hooghly estuary i.e. from west to east.

¹ Chakrabarti, Parthasarathi, Nag, Sanjoy (2015) Rivers of West Bengal, Changing Scenario, *Geoinformatics and Remote Sensing Cell, West Bengal State Council of Science & Technology*

In comparison to the Hooghly estuary (i.e. Bakkhali and Gangasagar beaches) the 'clay windows' of the beach face of the Digha-Junput coastal plain are almost devoid of mangrove roots and stumps. However, in the Subanarekha river mouth, Odisha, 'clay windows' with mangrove roots are common.

It may be mentioned here that the mangrove colonization in general, depends on

) duration of tidal submergence

amount of fresh water discharge and

ii) amount of fresh water di iii) The substrate condition.

The vegetation difference between the Hooghly estuary and Digha-Junput Coastal Plain is probably due to:

a. Hooghly estuary is a macrotidal delta and Medinipur Coastal belt is mesotidal in nature. Period of tidal submergence is more in the Hooghly estuary than in the

Digha-Junput Coastal Plain

b. A close network of tidal creek system prevails in the Hooghly estuary with more freshwater discharge; whereas widely spaced tidal creeks are present in the Digha-Junput Coastal Plain and is devoid of any major river with fresh water discharge

In the Hooghly estuary, clayey terrain units with clay substrate is in abundance whereas the Digha-Junput Coastal Plain has extensive sandy terrain units with

sandy substrate

Geomorphology of the Hooghly Estuary:

The Hooghly estuary is characterized by the presence of:

 i) islands separated from the main landmass either by distributory channels or tidal creeks (viz. Namkhana- Fraserganj, Mahisani, sagar islands etc. upto the sundarban core forest islands, and,

tidal shoals present in the offshore (viz. Jambudwip, Chuksardwip) and Hooghly river channel mouth bars (viz. Nayachar islands, Ghoramara, etc.) the different terrain units present in the first group of islands are – beachface, beach front dune complex, remobilised sand, present day intertidal flat.

In tidal shoals etc. the different terrain units are intertidal sand/ mud flats, mangrove swamp

zone, supratidal core zone, etc.

From a system analysis point of view, the estuarine part is the most dynamic dispersal region of river-dominated sedimentation which contributes to delta formations/progradations. River mouth processes, therefore, determine the patterns by which effluents from river mouths spread, decelerate and deposit their sediment load. The depositional morphologies (and sedimentary sequences) of river mouth systems consequently depend upon them. In a macrotidal (tidal range > 4m) environment this depositional pattern is strongly influenced by tidal processes which often dominate over the riverine process. Despite the complexities, the depositional morphology of such macrotidal river mouth exhibit many common attributes.

In the lower deltaic plain/estuarine area, the surficial deposits and morphological arrangement of land features or the geomorphological 'lay of land', 'sensu stricto' fail to provide a chronological / chronostratigraphical account of the development of thick pile of sediments. But morphogenetic study based on terrain mapping unit (TMU) concept with 'zooming-in ' approach i.e. starting from use of satellite imagery/aerial photographs supported by ground truth and laboratory studies (e.g. sedimentological, mineralogical, palaeontological analysis and C₁₄ dating) reasonably establish the form-process-material relationship of the deltaic progradation in immediate past. Furthermore, subsurface data from boreholesprovide additional information (regarding materials) for building up a geo-history model at least of the Late Quaternary.

In detail, the near surface succession consists of a base of tidal sands overlain by thick black organic clay deposits (Interdistributary Mangrove Marsh deposit of the area). This clay bed grades into distributary levee of sand and silt intercalations or to beach front dunes and beach face deposits only locally. The beach front dune complex along the sea front is, at present, in dynamic geomorphic equilibrium. The complete sequence of dune (due to aeolian action) and beach face (due to swash-backwash action) form only a surface skin over the eroded off-lapped clay deposits with mangrove vegetation.

In a macrotidal delta/estuary the tidal currents have a major effect on mixing of river water and sea water as well as sediment redistribution. Such tide dominance at the river mouth has created bell or funnel shaped channel with regimes ofintense meandering near the upper limit of tidal influence. The rate of seaward widening is generally exponential. At the mouth of the distributaries the terrigenous sediment (mainly the river borne sediments) are rapidly reworked by the tidal currents into a series oflinear subaqueous ridges within the distributary mouth and further seaward. These ridges generally form by the lateral convergence of ebb and flood dominated sediment transport and is separated by deep channels which give a sickle shaped appearance in the outer estuary. As the delta builds gradually seawards, former sand ridges are exposed above sea level and become colonized by vegetation to form linear islands (cf. 'tidal shoals').

Vegetation (in response to a warm-humid climate) plays a significant role as a dominant geomorphic agent in the evolution of the tidal shoals (cf. Davies, 1980) and their eventual accretion to the main landmass resulting in delta progradation. Once the tidal shoals emerge out of the high tide level, mangrove colonies step in and act as sediment trappers. The biological wastes from these vegetation colonies are rather high and it also contributes to the sediment accumulation by way of organic debris. The result is the building up of the tidal shoals as permanent islands. Gradually, the tidal shoals become coated with a sequence of intertidal and supratidal fine grained sediments and draped with mangroves. (e.g. Jambudwip and Chukswardwip in Hooghly estuary). The areas between the tidal current ridges (i.e. tidal shoals) eventually become tidal channels and ultimately fluvial channels (e.g. Muri Ganga, Pitt's creek between the present day islands) as progradation continue. A close look at the published map of 1917 of the southern part of Bengal reveals that a number of small islands are present in the areas which are Fraserganj Island, Fredrick's island and Henry's islands separated from each other by tidal creeks. But the present day survey reveals that all the islands are welded into a single mass and the tidal creeks are either represented as Intertidal Mud Flat or Neointerdistributary Mangrove Marsh zone. Similarly, the present day configuration of Sagar Island reveals that a number of small isolated islands earlier separated by tidal creeks are now welded, almost, into a single landmass due to gradual reduction of the width of the tidal creeks.

It may be mentioned here that the actual (original) geomorphological 'lay ofland' of these islands is partially obliterated within a span of human life due to the man-made clearing of the mangrove forests for human settlement providing embankments and reclamation ofland for cultivation, fisheries etc. (i.e. impact of man as a geomorphological process - cf. Verstappen, 1985).

The entire process-response system in the area under reference has been active during the Holocene time of Quaternary period (cf. Hails, 1977), which could be supported by the following evidences:

- In the western part of the Hooghly estuary i.e. in the adjoining Medinipur (Digha-Junput) Coastal Plain, the Ancient Dune Complex is present as a continuous ridge extending from west of Subarnarekha river (in the west) to the Hooghly river in the east, at a distance of about 10 to 15km north of the present day shore line. The C14 dating of the sediments (clay) from Ancient Fluvio-tidal Flat (Brajaballavpur village at 2.5m b.g.l.) bordering the Ancient Dune Complex in the south, gives an age of 5760 ± 140Yrs. B.P. (Chakrabarti, 1991a; 1995). This confirms that the higher strand line in the post-glacial (Holocene) period (around 6000 Yrs. B.P.) is, at present, represented by this Ancient Dune Complex. This dune ridge is very clearly observed in the satellite imagery both in B&W and FCC (TM). The continuity of this dune ridge is absent in the eastern part of Hooghly river but presence of a morpho-structural lineament in the same alignment of the said dune ridge can be mapped which passes just north of Sagar island, through Kakdwip, in a northeasterly direction and separates the lower deltaic plain of Ganga-Brahmaputra in two sectors (Chakrabarti, 1995):
 - a. The areas to the south of this line are characterized by the presence of islands (draped with mangroves) separated by an 'embroidery' of active tidal creeks.
 - b. The areas to the north of this line are almost free from such 'embroidery' of tidal creeks and islands.

II. The Interdistributary Mangrove Marsh deposit (clay) of the Hooghly estuary is present to the south of this lineament. This clay sequence is characterized by the presence of brackish water mangrove bio-assemblage (e.g. *Ceriops, Rhizophora,* Chenopdiceae, *Heriteria*, Graminae, Palmae, Circulisporites etc. -cf. Banerjee & Sen, 1988).

The C_{14} dating of this clay sample from Gangasagarat 0.90m b.g.l. gives an age of 2900 \pm 20 Yrs. B.P. (Chakrabarti, 1991a) and 3170 \pm 70 Yrs.B.P. from Namkhana (Gupta, 1981). This clay sequence could easily be correlated with the clay deposits of Ancient Intertidal Flat terrain unit (just south of the Ancient Dune Complex -the 'ancient strand line') of Medinipur Coastal Plain, as this clay from Madhavpur village, at depth of 2.40 - 2.70m b.g.l. gives an age of 2920 \pm 160 Yrs. B.P. (Chakrabarti, 1995).

From the above discussion, it can be inferred that the lineament in the eastern part of the Hooghly estuary is the imprint of 'ancient strand line' of the area under reference. The absence of dune ridge could be explained by its obliteration by the tidal network ('rejoining' type of drainage pattern) of the Ganga-Brahmaputra delta system (cf. Hails, 1977).

The progressive southward shifting of the coast line towards the present shoreline could also be explained by the difference in age of the surficial interdistributary mangrove marsh clay at Namkhana (3170 \pm 70 Yrs. B.P.) in the north and that at Gangasagar (2900 \pm 20 Yrs. B.P.) in the south.

It may be mentioned here that the HWL shifting in the Hooghly estuary through years is parallel to the earlier shorelines. In addition, the numerical average of HWL shifting through years in the 20th century as discussed above cannot be attributed primarily to the relative sea level rise phenomenon as postulated by some researchers (cf. Hazra, 2002); especially when the area under referenceis affected by 'structural lowering' or Geosynclinal down warping' (Sengupta, 1966; Roy Barman, 1983) along with 'auto-compaction' of Holocene sediments (cf. Nandy & Bandopadhyay 2011) as well as geographical position in lower latitudinal belt where transmission of the effect of melting of Polar Ice sheets is delayed in comparison to the cooler higher latitude, for example, in N. Atlantic (cf. Banerjee, 1994).

1.2.2 Climatic Profile of the Bengal Coastline

The Bengal coastline falls within the meteorological subdivision of the Gangetic West Bengal with the three districts of the coastline falling in three sub zones: Purba Medinipur constitutes the Coastal Plains, North 24 Parganas falls in the Gangetic Plains along with the northern portion of the South 24 Parganas, and the Sundarbans Area constitutes the remaining side of the South 24 Parganas.

The map alongside of the average annual rainfall of the state shows the coastal areas receiving an average of 161 – 200 cm of rainfall.

In North 24 Parganas, the climate is tropical, like the rest of the Gangetic West Bengal. It is also characterized by the Monsoon, which lasts from early June to mid-September. The weather remains dry during the winter (mid-November to mid-

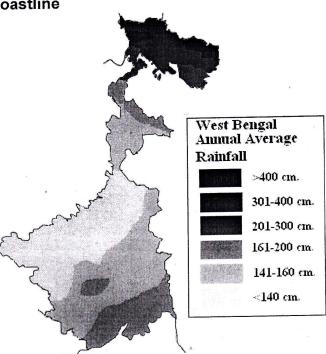


Figure 2 Annual Average Rainfall Map of West Bengal

February) and humid during summer. Annual Rainfall is 1,579 mm (average), Temperature is 41°C in May (Max) and 10°C in January (Min) and Relative Humidity is between 50% in March & 90% in July.

South 24 Parganas is characterized by hot and humid climate. It receives adequate rainfall from North-East and South-West monsoons which set in the latter half of June and withdraw by the middle of October. Pre-monsoon rains are received during March-April. May is the hottest month with temperature as high as 40°C and January is the coldest month with temperature as low as 10°C.

Purba Medinipur has tropical climate. Average temperature varies from 25.5°C to 38.6°C. Rainfall occurs regularly and unevenly during the monsoon season. The normal rainfall is 1752.6 mm. The five coastal blocks of the district are affected by cyclones and tornadoes occasionally. Tidal floods are quite regular in these five Blocks. Normally floods hamper the normal lifestyle in 21 Blocks.

Demographic Profile of the Study Area 1.3

1.3.1 North 24 Parganas

With its headquarters at Barasat, the North 24 Parganas district extends in the tropical zone from latitude 22°11'6" N to 23°15'2" N and from longitude 88°20' E to 89°5' E. It is bordered to Nadia district by north, to Bangladesh (Khulna Division) by north and east, to South 24 Parganas, Kolkata, Howrah and Hooghly districts by west, and South 24 Parganas in the south.

According to the 2011 census, the district had a population of 10.009.781², giving it the distinction of being the 2nd most populous district of India (after Maharashtra). Thane in However, the 2014 split of the Thane district re-designated North 24 Parganas as the most populous district of India. The district has a population density of 2,445 inhabitants per km2 decadal population with a growth rate of 12.0% (2001-11). The district has a sex ratio of 955 males per 1000 females. The mean age of the district

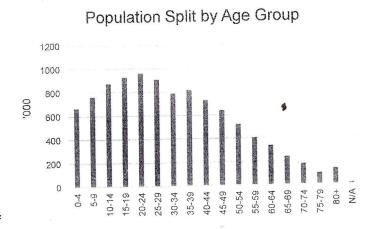


Figure 3 Population 2011 of North 24 Parganas

population is 31.38 years³ with an age split provided alongside. The block wise population of the district is as follows (coastal blocks are highlighted in blue):

Table 1Blockwise Population 2011 of CZMP Areas of North 24 Parganas with CZMP Blocks

Table 1Blockwise Population 2011 of CZMP Areas of Notth 2- Block Name	Population (2011)
South Dum (M)	4,03,316
Rajarhat Gopalpur (M)	4,02,844
Bhatpara (M + OG)	3,86,019
Bongaon	3,80,903
Panihati (M)	3,77,347
Gaighata	3,30,287
Kamarhati (M)	3,30,211
Deganga	3,19,213
Barasat - I	2,94,628

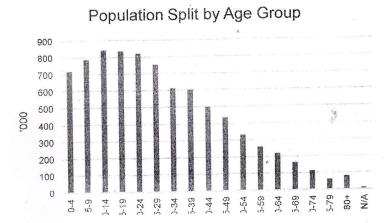
² Census of India District Profile 2011 http://www.censusindia.gov.in/2011census/dchb/DCHB_A/19/1911_PART_A_DCHB_NORTH%20TWENT Y%20FOUR%20PARGANAS.pdf

Census 2011 Age Group Data http://www.censusindia.gov.in/2011census/C-series/c-14/DDW-1900C-

14.xls

Block Name	Population (2011)
Baduria	2,85,319
Barasat (M)	2,78,435
Swarupnagar	2,56,075
North Dum (M)	2,49,142
Baranagar (M)	2,45,213
Bagda	2,42,974
Basirhat - II	2,26,130
Habra - I	2,25,200
Naihati (M)	2,17,900
Barrackpur - II	2,17,171
Bidhannagar (M)	2,15,514
Haroa	2,14,401
Hasnabad	2,03,262
Barasat - II	2,00,918
Minakhan	1,99,084
Madhyamgram (M)	1,96,127
Amdanga	1,91,673
Rajarhat	1,89,893
Barrackpur - I	1,82,845
Habra - II	1,76,490
Habia - II Hingalganj	1,74,545
Basirhat - I	1,71,613
Sandeshkhali - I	1,64,465
Sandeshkhali - II	1,60,976
Barrackpore (M)	1,52,783
Habra (M)	1,47,221
North Barrackpore (M)	1,32,806
Kanchrapara (M + OG)	1,29,576
Basirhat (M)	1,25,254
Halisahar (M)	1,24,939
Ashokenagar Kalyangarh (M)	1,21,592
Asnokenagai Kalyangain (M)	1,16,541
Titagarh (M) Dum Dum (M)	1,14,786
	1,08,864
Bongaon (M)	1,08,496
Khardah (M)	85,336
Garulia (M)	76,846
New Barrackpore (M)	52,493
Baduria (M)	45,377
Gobardanga (M)	38,263
Taki (M)	17,380
Barrackpur Cantonment (CB)	1,095
Nabadiganta Industrial Township (ITS)	1,000

1.3.2 South 24 Parganas With its headquarters at Alipore, the South 24



Parganas district is bordered by North 24 Parganas, Kolkata & Howrah districts to the north, North 24 Parganas and Bangladesh to the east, Howrah District and Hooghly River adjoining Purba Medinipur district to the west, and Bay of Bengal towards the south.

According to the 2011 census, the district had a population of 8,161,961⁴, giving it the distinction of being the 6th most populous district of India. The district has a population density of 819 inhabitants per km² with a decadal population growth rate of 18.2% (2001-11). The district has a Figure 4 Population 2011 of South 24 Parganas sex ratio of 956 males per

1000 females. The mean age

of the district population is 28.17 years⁵ with an age split provided alongside. The block wise population of the district is as follows (coastal blocks are highlighted in blue):

ble 2Blockwise Population 2011 of CZMP Areas of South 24 Parganas with CZMP Blocks

Table 2Blockwise Population 2011 of CZMP Areas of Sol Block Name	Population (2011)
Maheshtala (M)	4,48,317
Baruipur	4,33,119
Rajpur Sonarpur (M)	4,24,368
Basanti	3,36,717
Patharpratima	3,31,823
Magrahat - II	3,04,744
Canning - I	3,04,724
- Kulpi	2,83,197
Kakdwip	2,81,963
Magrahat - I	2,69,494
Jaynagar - I	2,63,151
Canning - II	2,52,523
Jaynagar - II	2,52,164
Falta	2,49,561
Bhangar - I	2,49,170
Bhangar - II	2,46,708
Gosaba	2,46,598
Bishnupur - I	2,32,365
Kultali	2,29,053
Mathurapur - II	2,20,839
Sonarpur	2,19,863
Bishnupur - II	2,14,531
Mandirbazar	2,14,050
Sagar	2,12,037
Mathurapur - I	1,95,104
Budge Budge - II	1,92,134
Diamond Harbour - II	1,90,801
Namkhana	1,82,830
Thakurpukur Mahestola	1,76,203
Diamond Harbour - I	1,56,166
Budge Budge - I	1,12,908
Budge Budge (M)	76,837
Baruipur (M)	53,128
Diamond Harbour (M)	41,802
Pujali (M)	37,047
Jaynagar Mazilpur (M)	25,922

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⁵ Census 2011 Age Group Data http://www.censusindia.gov.in/2011census/C-series/c-14/DDW-1900C-

14.xls

⁴ Census of India District Profile 2011 http://www.censusindia.gov.in/2011census/dchb/DCHB_A/19/1917_PART_A Y%20FOUR%20PARGANAS.pdf

Purba Medinipur 1.3.3

With its headquarters at Tamluk, the Purba Medinipur district is bordered by Paschim Medinipur towards the north & west, and Howrah district adjoining Roopnarayan River and south 24 parganas district adjoining river Hooghly to the north and east. It shares its borders with Odisha to its west and the Bay of Bengal to its east and south.

According to the 2011 census, the district had a population of 5,095,875⁶, giving it the distinction of being the 20th most

populous district of India. The district has a population density of 1,076 inhabitants per km² with a decadal population growth rate of 15.4% (2001-11).district has a sex ratio of 1000 males per 938 females. The mean age of the district population is 29.20 years with an age split provided alongside. The block wise population of the district is as follows

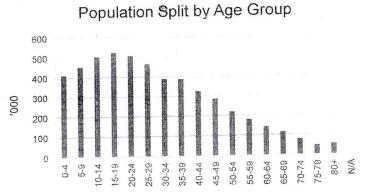


Figure 5 Population 2011 of Purba Medinipur

(coastal blocks are highlighted in blue):

Table 3Blockwise Population 2011 of CZMP Areas of Purba Medinipur with CZMP Blocks

Table 3Blockwise Population 2011 of CZMP Areas of R Block Name	Population (2011)
Kolaghat	2,90,124
Panskura	2,83,303
Nanda Kumar	2,62,998
Bhagawanpur - I	2,34,432
Moyna	2,26,927
Tamluk	2,17,776
Nandigram - I	2,07,835
Mahisadal	2,06,277
Haldia (M)	2,00,827
Sahid Matangini	1,99,210
Bhagawanpur - II	1,92,162
Chandipur	1,88,119
Egra - II	1,78,763
Deshopran	1,76,393
Potashpur - II	1,75,056
Potashpur - I	1,73,377
Contai - I	1,70,894
Ramnagar - I	1,67,330
Egra - I	1,67,163
Contai - III	157,793
Ramnagar - II	1,56,054
Khejuri - II	1,39,463
Khejuri - I	1,32,992
Sutahata	1,23,784
Nandigram - II	1,23,219
Haldia	97,992
Contai (M)	92,226
Tamluk (M)	65306

⁶ Census of India District Profile 2011 http://www.censusindia.gov.in/2011census/dchb/DCHB_A/19/1919_PART_A_DCHB_PURBA%20MEDINI

Census 2011 Age Group Data http://www.censusindia.gov.in/2011census/C-series/c-14/DDW-1900C-14.xls

Block Name	Population (2011)
Panskura (M)	57,932
Egra (M)	30,148

1.4 Development Profile of the Study Area⁸

There are three development authority areas and one Municipality in the CZMP area of West Bengal – Digha Sankarpur Development Authority (DSDA), Gangasagar Bakkhali Development Authority (GBDA), Haldia Development Authority (HDA) and Haldia Municipality.

All the Development Authority areasand one Municipal Area have been designated as CRZ II since they are already developed and have urban development plans for future. Remaining blocks outside the development authority areas which arealready builtup are included in CRZ II. However, these existing builtup areas comprising of public utilities, dwelling houses and other structures requiring waterfront will remain as it is.

1.4.1 North 24 Parganas

The district is divided into five subdivisions. These are Bongaon, Barasat, Barrackpore, Bidhannagar, and Basirhat. These are further broken into 27 Municipalities, 22 Blocksand 200 Gram Panchayats in the district.

The percentage of urban population has increased from 42.9% in 1951 Census to 57.3% in 2011 Census in this district. Literacy rate of the district has also increased from 27.8% to 84.1% within the same time.

1.4.2 South 24 Parganas.

The district is divided into five subdivisions. These are Alipore Sadar, Baruigur, Canning, Diamond Harbour, and Kakdwip. There are 7 Municipalities, 29 Block, 315 Gram Panchayats in the district.

The percentage of urban population has increased from 4.6% in 1951 Census to 25.6% in 2011 Census in this district. Literacy rate of the district has also increased from 27.8% to 77.5% in the same time.

1.4.2.1 Development Authorities in the district:

Gangasagar Bakkhali Development Authority (GBDA) was constituted vide Notification No. 1079-T&cP/C-2/2C-7/2-12 dated 19th June 2013 for the Planning Area described in the Scheduleas per the West Bengal Town and Country Planning & Development Act, 1979. It comprised of 9 (nine) Mouzas of Sagar and Namkhana Development Blocks at first and added Purushottampur of Sagar Development Block as 10thMouza in November, 2015.

1.4.3 Purba Medinipur

The district is divided into four subdivisions. These are Tamluk, Haldia, Egra and Contai. There are 5 Municipalities, 25 Blocks, 25, 223 Gram Panchayats inthe district.

The percentage of urban population has increased at a relatively slower pace from 7.5% in 1951 Census to 11.6% in 2011 Census. On the other hand, literacy rate of the district has increased significantly from 21.3% to 87.0% within the same time.

⁸ District Handbook Census 2011 http://www.censusindia.gov.in/2011census/dchb/DCHB.html

1.4.3.1 Development Authorities in the district:

There are two major Development Authority areas and one Municipality in the District.

Digha Shankarpur Development Authority (DSDA) Area is situated in the Purba Medinipur district of West Bengal and is bounded by Bay of Bengal on the southern side and land locked on other three sides. The total Planning Area is 8752.62 acres. The Planning area includes Digha Shankarpur planning area (42 mouzas) comprising of Digha area (13 mouzas) and Shankarpur area (29 mouzas) with Total Population of 47,999 persons in 2011. DSDA has already prepared an LUDCP for the area.

Digha's economy is primarily dependent on the tourism sector. Digha is West Bengal's one of the most popular sea resort and tourist destination located south west of Kolkata. The area has a low gradient with a shallow sand beach.

The other development authority in the district is the Haldia Development Authority (HDA),in 1980, Haldia Development Authority was notified with Planning Area jurisdiction of about 329.92 sq km, comprising of 260 mouzas under the P.S. (old) Sutahata and Mahisadal in the District of undivided Medinipur. Haldia Planning Area (HPA) was extended in 2004 and 2013. Present HPA is about 1982.07 Sqkm, covering whole of Haldia & Tamluk Subdivision in Purba Medinipur District, comprising 12 blocks, 3 municipalities and 15 Census Towns.

Haldia Municipality is a major municipal area of the district as it houses the Haldia Dock Complex and the urban area surrounding that. It is an industrial area and forms the hinterland of one of the important ports of the state. Spead over an area of 104.62sq km, the municipal area and the dock complex supports, encourages and facilitates growth of port-based and port-oriented industries. The municipality is one of the major industrial town areas of the state with townships and urban infrastructure facilities developed throughout.

1.5 Economic Profile of the CZM Plan Area

1.5.1 North 24 Parganas

The Gross District Domestic Product (GDDP) of North 24 Parganas was INR 8,511,682 Lakh (current prices) in 2013-14⁹. Agriculture is the primary livelihood option with the foremost crops being rice, jute, coconuts, potatoes, wheat and rapeseed. Additionally, the IT Hub of West Bengal is also located in this district.

1.5.2 South 24 Parganas

The Gross District Domestic Product (GDDP) of South 24 Parganas was INR 5,502,467 Lakh (current prices) in 2013-14¹⁰. Agriculture, Industry and Pisciculture are the backbone of the economy of the district. The prime agricultural crops of the district are rice, sugarcane, timber and betel nuts. The confluence of river Ganga with the sea here forms a congenial physical condition for Pisciculture.

1.5.3 Purba Medinipur.

The Gross District Domestic Product (GDDP) of Purba Medinipur was INR 5,119,879 Lakh (current prices) in 2013-14¹¹. Main contributors to the agrarian economy are rice, wheat, barley, maize, pulses, oilseed, rapeseed, mustard, jute, potato and ginger. Engineering, chemicals and handloom weaving are the foremost industries of the district.

⁹ District Handbook https://www.datanetindia-ebooks.com/pdf Samples/district factbook/West Bengal/North-Twenty-Four-Parganas.pdf

District Handbook https://www.datanetindia-ebooks.com/pdf Samples/district factbook/West Bengal/South-Twenty-Four-Parganas.pdf
 District Handbook https://www.datanetindia-ebooks.com/pdf
 District Handbook https://www.datanetindia-ebooks.com/pdf
 District Handbook https://www.datanetindia-ebooks.com/pdf

ebooks.com/pdf Samples/district factbook/West Bengal/Purba-Medinipur.pdf

2 Coastal Zone Management Plan

2.1 About the Coastal Regulation Zone Notification 2011

The Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India has taken several policy initiatives and enacted environmental and pollution control legislations towards sustainable management of natural resources. One such initiative is the Coastal Regulation Zone (CRZ) Notification.

Under the Environment (Protection) Act of 1986 of India, a notification was issued in February 1991 for the first time for regulation of activities in the coastal area by the then Ministry of Environment and Forests (MoEF), Government of India with a view to ensure livelihood security to the fisher communities living in the coastal areas and to conserve and protect coastal stretches, its unique environment and its marine area and to promote development through sustainable manner The CRZ Notification of 1991 has undergone many modifications and amendments since then, and has been finally superceded by the Ministry of Environment, Forests and Climate Change notification no.S.O. 19 (E) of 6th. January, 2011.

The major objectives of this notification are to ensure livelihood security to the fisher communities and other local communities, living in the coastal areas, to conserve and protect coastal stretches, its unique environment and its marine area and to promote development through sustainable manner based on scientific principles taking into account the dangers of natural hazards in the coastal areas, sea level rise due to global warming, and declares the coastal stretches of the country and the water area up to its territorial water limit, excluding the islands of Andaman and Nicobar and Lakshadweep and the marine areas surrounding these islands up to its territorial limit, as Coastal Regulation Zone (hereinafter referred to as the CRZ) and restricts certain activities within the CRZ such as setting up and expansion of any industry, operations or processes and manufacture or handling or storage or disposal of hazardous substances as specified in the Hazardous Substances (Handling, Management and Transboundary Movement) Rules, 2009 in the aforesaid CRZ"etc.

As per the notification, the coastal land up to 500m from the High Tide Line (HTL) on the landward side along the sea front and a stretch of 100m or width of the creek, which ever is less along banks of creeks, rivers and other tidal influenced water bodies, form the Coastal Regulation Zone (CRZ).

For the purpose of conserving and protecting the coastal areas and marine waters, CRZ has been classified into four categories as follows:

- 1. CRZ-1:
 - (CRZ-IA) These are ecologically sensitive areas and geomorphological features of which play a role in maintaining the integrity of the coast. Such areas include mangroves, sand dunes, mudflats which are biologically active, sanctuaries reserve forests and other protected areas which fall under the provision of Forest Conservation Act, 1980 turtle nesting grounds etc, and
 - (CRZ-IB) area between low tide line and high tide line (intertidal areas).
- 2. CRZ-II: These are built up areasand areas within the limits of Development Authorities, Port and Municipalities etc.
- 3. CRZ-III: Rural and Semi-urban localities which fall outside the CRZ I and II.
- 4. CRZ- IV: This lies in the aquatic area up to territorial limits of 12 nautical miles in the Sea andarea between the LTL on either bank of the river or creek.
- 5. Areas requiring special consideration

2.2 Permissible& Prohibited Activities in CRZ

2.2.1 Prohibited Activities in Coastal Regulation Zones

The following are declared as prohibited activities within the CRZ:

- Setting up of new industries and expansion of existing industries except,
 - a. Those directly related to waterfront or directly needing foreshore facilities 12;

b. Projects of Department of Atomic Energy;

c. Facilities for generating power by non-conventional energy sources and setting up of desalination plants in the areas not classified as CRZ-I(i) based on an impact assessment study including social impacts;

d. Development of green field Airport already permitted only at Navi

Mumbai:

 Reconstruction, repair works of dwelling units of local communities especially fisherfolk in accordance with local town and country planning regulations.

- ii. Manufacture or handling oil storage or disposal of hazardous substance as specified in the notification of Ministry of Environment and Forests, No. S.O.594 (E), dated the 28th July 1989, S.O.No.966(E), dated the 27th November, 1989 and GSR 1037 (E), dated the 5th December ,1989 except,
 - a. transfer of hazardous substances from ships to ports, terminals and refineries and vice versa;
 - b. facilities for receipt and storage of petroleum products and liquefied natural gas as specified in Annexure A.1 appended to this notification and facilities for regasification of Liquefied Natural Gas (hereinafter referred to as the LNG) in the areas not classified as CRZ-I(A) subject to implementation of safety regulations including guidelines issued by the Oil Industry Safety Directorate in the Ministry of Petroleum and Natural Gas and guidelines issued by MoEF&CC and subject to further terms and conditions for implementation of ameliorative and restorative measures in relation to environment as may be stipulated by MoEF&CC.

Provided that facilities for receipt and storage of fertilizers and raw materials required for manufacture of fertilizers like ammonia, phosphoric acid, sulphur, sulphuric acid, nitric acid and the like, shall be permitted within the said zone in the areas not classified as CRZ-I (A).

- iii. Setting up and expansion of fish processing units including warehousing except hatchery and natural fish drying in permitted areas
- iv. Land reclamation, bunding or disturbing the natural course of seawater except those,
 - a. required for setting up, construction or modernization or expansion of foreshore facilities like ports, harbours, jetties, wharves, quays, slipways, bridges, sea link, road on stilts, and such as meant for defence and security purpose and for other facilities that are essential for activities permissible under the notification;
 - b. measures for control of erosion, based on scientific including Environmental Impact Assessment (hereinafter referred to as the EIA)
 - maintenance or clearing of waterways, channels and ports, based on EIA studies;

those activities permissible under this notification and they require waterfront for their operations such as ports and harbours, jetties, quays, wharves, erosion control measures, breakwaters, pipelines, lighthouses, navigational safety facilities, coastal police stations and the like

- d. Measures to prevent sand bars, installation of tidal regulators, laying of storm water drains or for structures for prevention of salinity ingress and freshwater recharge based on carried out by any agency to be specified by MoEF&CC.
- Setting up and expansion of units or mechanism for disposal of wastes and ٧. effluents except facilities required for,
 - a. discharging treated effluents into the water course with approval under the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);

storm water drains and ancillary structures for pumping;

- treatment of waste and effluents arising from hotels, beach resorts and human settlements located in CRZ areas other than CRZ-I and disposal of treated wastes and effluents:
- Discharge of untreated waste and effluents from industries, cities or towns and νi. other human settlements. The concerned authorities shall implement schemes for phasing out existing discharge of this nature, if any, within a time period not exceeding two years from the date of issue of this notification.
- Dumping of city or town wastes including construction debris, industrial solid vii. wastes, fly ash for the purpose of land filling and the like and the concerned authority shall implement schemes for phasing out any existing practice, within a period of one year from date of commencement of this notification. 13
- Port and harbour projects in high eroding stretches of the coast, except those viii. projects classified as strategic and defence related in terms of EIA notification, 2006 identified by MoEF&CC based on scientific studies and in consultation with the State Government or the Union territory Administration.
- Reclamation for commercial purposes such as shopping and housing complexes, ix. hotels and entertainment activities except for construction of memorials/ monuments and allied facilities, only in CRZ-IV (A) areas in exceptional cases, by the concerned StateGovernment, on case to case basis
- Mining of sand, rocks and other sub-strata materials except, X.
 - Those minerals not available outside the CRZ area and collection of dead shells by the traditional communities of poultry and animal feed supplements,
 - b. Exploration and exploitation of Oil and Natural Gas.
- Extraction of groundwater and construction related thereto, within 200mts of HTL; xi. except the following:
 - a. In the areas which are inhabited by the local communities and only for their use.
 - In the area between 200mts-500mts zone theextraction of groundwater shall be permitted only when done manually through ordinary wells for drinking, horticulture, agriculture and fisheries and where no other source of water is available.¹⁴
- Construction activities in CRZ-I except those specified in Section 3.4.4 of the χij. CZMP.
- Dressing or altering the sand dunes, hills, natural features including xiii. landscapechanges for beautification, recreation and other such purpose except utilizing the rocks / hills/ natural features, only in CRZ-IV (A) areas, for

¹⁴Restrictions for such drawl may be imposed by the Authority designated by the State Government and Union territory Administration in the areas affected by sea water intrusion.

¹³The MoEF&CC will issue a separate instruction to the State Governments and Union territory Administration in respect of preparation of Action Plans and their implementation as also monitoring including the time schedule thereof, in respect of paras (v), (vi) and (vii).

development of memorials /monuments and allied facilities, by the concerned State Government

Except facilities required for patrolling and vigilance activities of marine/coastal xiv. police stations.

Permissible Activities in Coastal Regulation Zones 2.2.2

The following activities shall be regulated except those prohibited in Section 3.4.1 above:

Permissible activities include the following:

a. Clearance shall be given for any activity within the CRZ only if it requireswaterfront and foreshore facilities;

b. For those projects which are listed under this notification and also attract EIA notification, 2006 (S.O.1533 E), dated the 14th September, 2006, for such projects clearance underEIA notification only shall be required subject to being recommended by the concernedState or Union territory Coastal Zone Management Authority (hereinafter referred to as theCZMA).

c. Housing schemes in CRZ as specified in paragraph 8 of this notification;

d. Construction involving more than 20,000 m² built-up area in CRZ-II shall be considered for approval inaccordance with EIA notification, 2006 however, for projects less than 20,000 m² built-uparea shall be approved by the concerned State or Union territory Planning authorities inaccordance with this notification after obtaining recommendations from the concerned CZMAand prior recommendations of the concern CZMA shall be essential for considering the grantof environmental clearance under EIA notification, 2006 or grant of approval by the relevantplanning authority.

e. MoEF&CC may under a specific or general order specify projects which

require prior publichearing of project affected people.

Construction and operation for ports and harbours, jetties, wharves, guays, slipways, shipconstruction yards, breakwaters, groynes, erosion control measures and salt works.

The following activities shall require clearance from MoEF&CC, after being ii. recommended by the concerned CZMA namely

a. Those activities listed under category 'A' in the EIA notification, 2006 and

permissible under the notification

Construction activities relating to projects of Department of Atomic Energy or Defencerequirements for which foreshore facilities are essential such as, slipways, jetties, wharves, quays; except for classified operational component of defence projects. Residential buildings, office buildings, hospital complexes, workshops of strategic and defence projects in terms of EIA notification, 2006.

Construction, operation of lighthouses;

Laying of pipelines, conveying systems, transmission line;

Exploration and extraction of oil and natural gas and all associated activities and facilitiesthereto;

Foreshore requiring facilities for transport of raw materials, facilities for intake of coolingwater and outfall for discharge of treated wastewater or cooling water from thermal powerplants. MoEF&CC may specify for category of projects such as at (f), (g) and (h) of para 4;

Mining of rare minerals as listed by the Department of Atomic Energy;

Facilities for generating power by non-conventional energy

desalination plants andweather radars;

Demolition and reconstruction of (a) buildings of archaeological and historical importance, (b)heritage buildings; and buildings under public use which means buildings such as for thepurposes of worship, education, medical care and cultural activities;

j. construction of memorials/ monuments and allied facilities by the concerned State Government in CRZ-IV (A) areas in exceptional cases, with adequate environmentalsafeguards, subject to the following, namely:-

A. The concerned State Government shall submit justification for locating the project in CRZ area along with details of alternate sites considered and weightage matrix on various parameters including environmental parameters to State CZMA who will examine the project and make recommendation to the Central Government (MoEF) for grant of Terms of Reference (ToRs) for preparation of an environmental impact assessment report by the State Government;

- B. On grant of ToRs by the Central Government, the concerned State Government shall submit the draft Environmental Impact Assessment report (EIA) with Environmental Management Plan (EMP), draft Risk Assessment Report with Disaster Management Plan (DMP) including on-site and off-site emergency plan and evacuation plan during emergency, to the State Pollution Board for conduct of public hearing for the proposed project in accordance with the procedure laid down under the Environment Impact Assessment notification;
- C. The concerned State Government shall submit final EIA, EMP, Risk Assessment and DMP after addressing the relevant issues raised by the public during the publichearing, to State CZMA for their examination and recommendation to MoEF.

Note: Construction of memorials / monuments would generally discouraged in CRZ-IVareas and the same would be allowed only in exceptional cases with adequateenvironmental safeguards.

2.2.3 Norms for regulation of activities permissible under the CRZ 2011 Notification

 The development or construction activities in different categories of CRZ shall be regulated by the concerned CZMA in accordance with the following norms, namely ¹⁵

2.2.3.1 CRZ I

- no new construction shall be permitted in CRZ-I except:
 - a. Projects relating to Department of Atomic Energy
 - b. Pipelines, conveying systems including transmission lines
 - c. Facilities that are essential for activities permissible under CRZ-I
 - d. Installation of weather radar for monitoring of cyclones movement and prediction by Indian Meteorological Department
 - e. Construction of Trans harbour sea link and without affecting the tidal flow of water, between LTL and HTL
 - f. Development of green field airport already approved at only Navi Mumbai
- ii. Areas between LTL and HTL which are not ecologically sensitive, necessary safety measures will be incorporated while permitting the following, namely
 - a. Exploration and extraction of natural gas;

The word existing use hereinafter in relation to existence of various features or existence of regularization or norms shall mean existence of these features or regularization or norms as on 19.2.1991 wherein CRZ notification, was notified.

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b. Construction of dispensaries, schools, public rain shelter, community toilets, bridges, roads, jetties, water supply, drainage, sewerage which are required for traditional inhabitants living within the biosphere reserves after obtaining approval from concerned CZMA.

Necessary safety measure shall be incorporated while permitting such

developmental activities in the area falling in the hazard zone;

Salt harvesting by solar evaporation of seawater;

e. Desalination plants;

Storage of non-hazardous cargo such as edible oil, fertilizers and food grain within notified ports;

Construction of Tran Harbour Sea links, roads on stilts or pillars without affecting the tidal flow of water.

2.2.3.2 CRZ II

- Buildings shall be permitted only on the landward side of the existing road, or on i. the landward side of existing or proposed authorized structures.
- Buildings permitted on the landward side of the existing and proposed roads or existing authorized structures shall be subject to the existing local town and country planning regulations as modified from time to time, except the floor space index or floor area ratio, which shall be as per 1991 level:

Provided that no permission for construction of buildings shall be given on landward side of any new roads which are constructed on the seaward side of an existing road:

- Reconstruction of authorized building to be permitted subject with the existing floor space index or floor area ratio norms and without change in present use;
- Facilities for receipt and storage of petroleum products and liquefied natural gas as specified in Annexure A.1 List of petroleum and chemical products permitted iv. for storage in [CRZ except CRZ-I(A)] of the CZMP and facilities for regasification of liquefied natural gas subject to the conditions as mentioned in subparagraph (ii) of Paragraph 3;
- Desalination plants and associated facilities; ٧.
- Storage of non-hazardous cargo, such as edible oil, fertilizers and food grain in ۷İ. notified ports;
- Facilities for generating power by non-conventional power sources and vii. associated facilities;

2.2.3.3 CRZ III

A. Area up to 200mts from HTL on the landward side in case of seafront and 100mts along tidal influenced water bodies or width of the creek whichever is less is to be earmarked as "No Development Zone (NDZ)"

The NDZ shall not be applicable in such area falling within any

notified port limits;

No construction shall be permitted within NDZ except for repairs or reconstruction of existing authorized structure not exceeding existing Floor Space Index, existing plinth area and existing density and for permissible activities under the notification especially facilities essential for activities; Construction/reconstruction of dwelling units of traditional coastal communities including fisher folk may be permitted

between 100 and 200 metres from the HTL along the seafront in accordance with a comprehensive plan prepared by the State Government or the Union territory in consultation with the traditional coastal communities especially fisherfolk and incorporating the necessary disaster management provision, sanitation and recommended by the concerned State or the Union territory CZMA to NCZMA for approval by MoEF&CC However, the following activities may be permitted in NDZ:

- a. agriculture, horticulture, gardens, pasture, parks, play field, and forestry;
- b. projects relating to Department of Atomic Energy;
- c. mining of rare minerals;
- d. salt manufacture from seawater;
- e. facilities for receipt and storage of petroleum products and liquefied natural gas as specified in Annexure II;
- f. facilities for regasification of liquefied natural gas subject to conditions as mentioned in subparagraph (ii) of Paragraph 3;
- g. facilities for generating power by non-conventional energy sources;
- h. Foreshore facilities for desalination plants and associated facilities;
- weather radars;
- j. construction of dispensaries, schools, public rain shelter, community toilets, bridges, roads, provision of facilities for water supply, drainage, sewerage, crematoria, cemeteries and electric sub-station which are required for the local inhabitants may be permitted on a case to case basis by CZMA;
- construction of units or auxiliary thereto for domestic sewage, treatment and disposal with the prior approval of the concerned Pollution Control Board or Committee;
- I. facilities required for local fishing communities such as fish drying yards, auction halls, net mending yards, traditional boat building yards, ice plant, ice crushing units, fish curing facilities and the like.

B. Area between 200mts to 500mts:

iii.

The following activities shall be permissible in the above areas;

- Development of vacant plot in designated areas for construction of hotels or beach resorts for tourists or visitors subject to the conditions as specified in the guidelines at Annexure III:
- ii. Facilities for receipt and storage of petroleum products and liquefied natural gas as specified in Annexure II;
- iii. Facilities for regasification of liquefied natural gas subject to conditions as mentioned in sub-paragraph (ii) of paragraph III
- iv. Storage of non-hazardous cargo such as, edible oil, fertilizers, food grain in notified ports:
- v. Foreshore facilities for desalination plants and associated facilities;
- vi. Facilities for generating power by non-conventional energy sources;
- vii. Construction or reconstruction of dwelling units so long it is within the ambit of traditional rights and customary uses such as existing fishing villages and goathans. Building permission for such construction or reconstruction will be subject to local town and country planning rules with overall height of construction not exceeding 9mts with two floors (ground + one floor);
- viii. Construction of public rain shelters, community toilets, water supply drainage, sewerage, roads and bridges by CZMA who may also permit construction of schools and dispensaries for local inhabitants of the area for those panchayats, the major part of which falls within CRZ if no other area is available for construction of such facilities;

Reconstruction or alteration of existing authorized building subject to sub-paragraph ix. (vii), (viii);

2.2.3.4 CRZ IV

The activities impigning on the sea and tidal influenced water bodies will be regulated except for traditional fishing and related activities undertaken by local communities as follows:

a. No untreated sewage, effluents, ballast water, ship washes, fly ash or solid waste from all activities including from aquaculture operations shall be let off or dumped. A comprehensive plan for treatment of sewage generating from the coastal towns and cities shall be formulated within a period of one year in consultation with stakeholders including traditional coastal communities, traditional fisher folk and implemented;

b. Pollution from oil and gas exploration and drilling, mining, boat house and shipping;

There shall be no restriction on the traditional fishing and allied activities undertaken by local communities.

Process of demarcation of CRZ Lines 2.2.4

As per Annexure I of CRZ Notification 2011, the following guidelines were given:

- A. Demarcation of High Tide Line
- 1. Demarcation of High Tide Line (HTL) and Low Tide Line (LTL) shall be carried out by one of the agencies authorised by MoEF based on the recommendations of the National Centre for Sustainable Coastal Management (NCSCM).

2. Demarcation of the High Tide Line or LTL shall be made on the Coastal Zone Management (CZM) Maps of scale 1:25,000 prepared by the agencies identified by the MoEF.

3. Local level CZM Maps shall be prepared for use of officials of local bodies for determination of the CRZ.

4. The local level CZM Maps shall be prepared on a Cadastral scale in accordance with the CZM Maps approved by the Central Government.

- B. Preparation of CZM Maps
- 1. Base Maps of 1:25,000 scale shall be acquired from the Survey of India (SOI) and wherever 1:25,000 maps are not available, 1:50,000 maps shall be enlarged to 1:25,000 for the purpose of base map preparation and these maps will be of the standard specification given below:

7.5 minutes X 7.5 minutes

Unit Survey of India Sheet Numbering System Numbering

Everest or WGS 84 Horizontal Datum Mean Sea Level (MSL) Vertical Datum

: Topography in the SOI maps will be updated using latest Topography

satellite imageries or aerial photographs

The High Water Level (HWL) and Low Water Level (LWL) marked on the Base maps will be transferred to the CZM maps.

3. Coastal geomorphological signatures in the field or satellite imageries or aerial photographs will be used for appropriate adjustment, in the HWL or LWL for demarcating HTL or LTL in accordance with the CRZ notification.

The following geomorphological features shall be considered while demarcating HTL or LTL: Landward (monsoonal) berm crest in the case of sandy beaches; Rocks, Headlands, Cliffs; Seawalls or revetments or embankments.

5. 500 meter and 200 metre lines will be demarcated with respect of HTL.

- 6. HTL (as defined in the CRZ notification) and LTL shall also be demarcated in the CZM maps along the banks of tidal influenced inland water bodies with the help of the geomorphological signatures or features.
- Classification of different coastal zones shall be done as per the CRZ notification
- 8. Standard national or international colour codes shall be used to highlight subclassification of data.

For the implementation of CRZ Notification 2011, the HTL & LTL demarcation was a requirement in the CZMP. These lines were also required for the following purposes:

- Mapping of Ecologically Sensitive Areas (ESAs) including preparation of Integrated Management Plans (IMPs)
- Delineation of CRZ-I, CRZ-II, CRZ-III and CRZ-IV for the CZMP

Final demarcations of CRZ Lines by the state include the following essential points:

- The HTL & LTL Lines are mapped on the Coastal Zone Management (CZM) maps on 1:25,000. HTL was provided by NCSCM and validated with the State Government.
- Ecologically Sensitive Areas have been designated as CRZ IA as they are part of CRZ I as per the CRZ Notification, 2011.
- Width of the creek definition has been applied for the CZMP as per the CRZ 2011 Notification.
- In absence of receipt of Hazard Line and CVCA, the present CZM plan was not in a position to consider and incorporate the same.
- Due to unavailability of SOI toposheet No. 79 B14 and 79 G2, along the international border with Bangladesh, DPMS map of NATMO and Police Station map of Land Records have been used. The technical scrutiny committee directed NCSCM to raise the issue to verify and vet the border areas with Survey of India and mark a vetter copy to the Government of West Bengal for incorporation prior to making the map public.

3 CZMP of West Bengal

The first Coastal Zone Management Plan of West Bengal was prepared and notified in 1996. In 2011 the Ministry of Environment, Forest and Climate Change (MoEF&CC) Government of India came up with the CRZ notification of 2011 in supersession of the CRZ Notification of 1991 wherein the coastal states and union territories were directed to revise their existing CZMPs as per the changes provided in classification and management of coastal areas.

The Government of West Bengal in view of the notification, took up the revision of the CZMP for West Bengal with more accurate and georeferenced maps. The HTL and ESA provided by NCSCM was used for the demarcation of the CRZ on the Coastal Zone Management Plan prepared by the Institute of Environmental Studies and Wetland Management (IESWM). All the stakeholder departments of the State Government were also involved in the process of CZMP Preparation. With this in view and to streamline the preparation of CZMP the Department of Environment, Government of West Bengal constituted a steering committee involving all the stakeholder departments for framing policy decision, identifying areas to be classified into different CRZ categories and to identify proposed development activities to be taken up in each zone.

For performing the work, a working group was also constituted involving experts in the field, personnel of the department and the authorized institute namely Institute of Environmental Studies and Wetland Management (IESWM) for preparation of the CRZmaps and Land Use and Land Cover (LULC) maps ofthe coastal areas based on six types of data sources:

Worldview image, 2010

ii. Survey of India Toposheet

iii. Police Station Maps and Bengal Survey Maps

iv. ESA Database of NCSCM

v. HTL Database of NCSCM

vi. DPMS maps from NATMO

Due to unavailability of LTL from NCSCM, the state delineated LTL from 2010-11 satellite image as per guideline, which was later ammended and ratified during Technical Scrutiny in order to match ESA features extracted from varied data sources.

After preparation of the draft CRZ Maps as well as LULC Maps for the coastal areas guided by the working group, stakeholders meetings with different departments were taken up and suggestions were consulted. Thereafter a high level consultative meeting was held under the chairmansip of the Chief Secretary of the State to examine the Draft Plan.

Finally public hearings were carried in the three coastal districts and the CZMP was prepared after considering all views and suggestions and finally placed before the WBSCZMA for their suggestions and approval.

3.1 Coastal Regulation Zones (CRZ) of West Bengal

Based on the prescribed methodology, following blocks of the three coastal districts are included as CRZ in this Coastal Zone Management Plan (CZMP):

- Purba Medinipur : Contai I, Contai II (Deshapran), Haldia, Khajuri I, Khajuri II, Nandigram I, Nandigram II, Ramnagar II, Sutahata
- North 24 Parganas: Haroa, Hasnabad, Hingalganj, Sandeshkhali I, Sandeshkhali II, Minakhan
- South 24 Parganas: Basanti, Canning I, Canning II, Gosaba, Jaynagar I, Jaynagar II, Kakdwip, Kulpi, Kultali, Mathurapur I, Mathurapur II, Namkhana, Patharpratima, Sagar

In the present CZMP, based upon CRZ Notification 2011, Sunderban Biosphere Reserve (SBR) as a whole is kept beyond the ambit of CRZ-IA. Instead, CRZ have been delineated as per the definaition in the notification ie. areas between HTL and LTL and 500m from HTL along sea front and 100m or width of the creek whichever is less from HTL along tidal influenced waterbodies. Ecologically sensitive areas (ESAs) and Land Use Land Cover (LULC) maps have also been prepared for the areas covered under CRZ. The Technical Scrutiny Committee is also of the same opinion because the region under SBR is unique to West Bengal due to its geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta system. In addition, the transitional geomorphology and being part of the largest riverine delta sys

It is proposed in the current CZMP, to place Canning town, the sudivisional head quarter and seat for the subdivisional court and hospital under CRZ-II as the area is totally developed with substantial builtup areas, sewarage, road and rail network, water supply, health services and similar ammenities.

The approval letter for CZMP 1996 issued by MoEF&CC vide letter no. J-17011/24/92-IA-II dt. 27.09.1996 stipulates in case of river Hugli, CRZ regulations will be applicable upto the southern municipal limit of Diamond harbour Municipality and not upstream of this limit. This area lies in the left bank of river Hugli. However, on the right bank, the indicative limit lies up north at the confluence of Roop Narayan river. Salinity test conducted by Kolkata Port Trust (KoPT) on river confluence of Roop Narayan river. Salinity test conducted by beyond southern limit of Diamond Hugli during dry season shows reading far below 5ppt beyond southern limit of Diamond Harbour Municipality. (Annexure-) It is proposed to restrict the CRZ boundary across river Hugli along the same line in the right bank to that of the left bank ie. southern limit of Diamond Harbour Municipality.

Difference between CZMP 1996 and CZMP based on CRZ Notification 2011:

In 1996 HTL are demarcated along tidal creeks, whereas in 2011, HTL demarcation have been restricted uptil sluice gate along such creeks.

In 1996 in the tidal flat region of Purba Medinipur, HTL is following the embankment/guardwall (marked in toposheet) whereas in 2011, HTL is following standard guideline.

In 1996, total Gangasagar island was treated as CRZ-I, whereas in 2011 standard CRZ guideline have been followed.

3.1.1 CRZ in West Bengal

CRZ I includes areas which are ecologically sensitive areas (ESA) and the geomorphological features which play a role in the maintaining the integrity of the coast and the area between Low Tide Line and High Tide Line. ESA includes (a) sand dunes, (b) mudf flats, (c) nesting ground of burds, (d) mangroves, (e) salt marsh, (f) horse shoe crab habitat and (g) reserve forest etc.

Table 4 List of Mouzas in CRZ I Zone of West Bengal

	YASIG (VIII)	HSC	Mang	Mang- bf	MFI	NGB	¥	SD	SM	(C)
			0.01	0.07	0.11		0.18			5
			0.76	Z:	3.20		0.10	E.G		
	TEST TOTAL				0,17					0.10
	Haldia		0.05	0.04	11.37		0.02			
	I laidia municipalii y				0.04					
	Khalud-1		60 F	0.48	4.18		1.93	0.14		1.86
PURBAMEDIMIPUR	Khajuri-II)) 		1 78			0.24		1.91
	Nandigram, 1				ì					0.71
	Nandigram - II			,	0		0.30	±8.0	0.04	4.01
	Ramnagar 1	0.69	0,59	T.38	0.10 0.10			C 1 C		6.13
	Pampagar II		0.48	D.90	70.D					0.33
	Sutahata				0.38					
					0		1,7 88		0.02	8.73
	Rasanti	6,05	68,05		C.33) }			5.47
	Condine	0.14	2.32	1,36	0.38		Secretary and the second			24.03
	. Sundo									3 27
			11.54	20.76	2.62	0.11			₹0-0) ·
	COsaida fi		1,10	1,51	0.16					† ; ;
	n inspillator		10.88		4,52		7,39		0.20	1 5
	Kakdwip		70 0		0,69					2.13
SOUTH 24 PARGANAS	lainX		V 0 0 C		2.81		26.54		0.71 J	8,78
	Kultall									0.26
	Mathurapur-I				0.25					3415
	Mathurapur II		15.14) (42.34	0.00	0.50	6.92
	Namkhana	7.19	62.40		4		CF C	60.0		8.83
	Patharoratina	0.17	34:10	ന	04.4		1 (1)) (6.02
	Sagar	9.78	17.71	3.00	18,15	2.23	00.7	C.33	1	
	0									0.61
	Haroa				r				0.01	1.41
	Hasnabad		0.11							5.16
			1,42	4.93	0,13	70°5				1.96
North 24 PARGANAS										3.48
	Sandeshkhali-l		0.13	3 0.37	demonstration of Managers					30.8
ない ないない はない はいかん			000	20.5	0.04					i

3.1.2 Statistics of CRZ as per SOI Open Series Map and Index :

	OSM 25K Grid	Class	Area(Sq Km)
Index No		Non CRZ Area	162.86
NB 1	F 45 P 6/SE	CRZ-IA	0.63
WD 1		CRZ-IB	0.03
		CRZ-II	0.55
		CRZ-IVA	15.17
		CRZ-IA	53.88
WB 10	F 45 R 2/SW	CRZ-IVA	133.21
national diseases in account of the contract o		ODZ A	153.25
CONTRACTOR OF THE STATE OF THE		Non CRZ Area	1.84
		CRZ-IA	1.11
		CRZ-IA (Mangrove Buffer)	
WB 11	F 45 P 10/NW	CRZ-IB	3.27
		CRZ-II	5.34
		CRZ-IVA	11.64
		CRZ-IVB	0.64
		NDZ	1.99
		Non CRZ Area	106.36
		CRZ-IA	1.11
	F 45 P 10/NE	CRZ-IA (Mangrove	1.11
WB 12		Buffer)	9.40
		CRZ-IB	10.04
		CRZ-II	47.77
		CRZ-IVA	0.75
		CRZ-IVB	2.37
		NDZ	
		Non CRZ Area	35.58
000000000000000000000000000000000000000		CRZ-IA	13.40
decision and decision in a control of the control o	Proposition (Control of Control o	CRZ-IA (Mangrove Buffer)	0.04
		CRZ-IB	5.52
WB 13	F 45 P 14/NW	CRZ-II	0.05
AAD 13		CRZ-III (200-500)	2.47
empedage.	요즘 보다 이 물건 없다.	CRZ-IVA	120.45
soupparationers.		CRZ-IVB	0.27
		NDZ	1.56
			84.43
		Non CRZ Area	15.68
	F 45 Q 2/NW	CRZ-IA	1.44
WB 14	F 40 Q 2/1VV	CRZ-IA (Mangrove Buffer)	
		CRZ-IB	2.18

and the second s	OSM 25K Grid	Class	Area(Sq Km)
Index No		CRZ-II	3.89
		CRZ-IVA	27.77
		CRZ-IVB	44.56
		NDZ	3.05
		F2	
	The second secon	Non CRZ Area	85.05
		CRZ-IA	19.31
		CRZ-IA (Mangrove Buffer)	4.98
		CRZ-IB	3.76
VB 15	F 45 Q 2/NE	CRZ-II	1.95
		CRZ-IVA	2.72
		CRZ-IVB	56.51
		NDZ	6.95
goden den sentre des seins sien des Egitheren sentre de la view Egither "Bertiffelde (sie			66.70
The second secon	Control of the Contro	Non CRZ Area	77.88
		CRZ-IA	8.14
	- 45 O O D D A	CRZ-IA (Mangrove Buffer)	2.57
WB 16	F 45 Q 6/NW	CRZ-IB	The state of the s
		CRZ-IVA	3.30
		CRZ-IVB	33.89
		NDZ	6.33
	en en compartir de la compa	and approximate the second of	A CONTRACTOR OF THE CONTRACTOR
	er gegenne der er en	Non CRZ Area	45.12
	- Approximate of the control of the	CRZ-IA	98.09
5 45 O 6/NE	CRZ-IA (Mangrove Buffer)	5.45	
	F 45 Q 6/NE	CRZ-IB	1.02
WB 17		CRZ-III (200-500)	0.92
		CRZ-IVA	1.65
		CRZ-IVB	59.64
		NDZ	4.69
A STATE OF THE STA	A STATE OF THE STA	WO TO THE WORK OF THE MAN THE WORK OF THE	occupation for the control of the co
	The second section is a second	CRZ-IA	116.35
		CRZ-IA (Mangrove Buffer)	6.13
WB 18	F 45 Q 10/NW	CRZ-IB	0.43
		A CONTRACTOR OF THE PROPERTY O	68.48
		CRZ-IVB .	
	COLUMN TO THE STATE OF THE STAT	and district in the control of the c	176.42
2	the control of the co	CRZ-IA	CONTRACTOR
	F 45 Q 10/NE	CRZ-IA (Mangrove Buffer)	0.27
WB 19	F 43 Q 10/NL	CRZ-IB	0.17
1		CRZ-IVB	55.84
-		and the properties of the second contract of the contract of the second	
	action action on the figure to the latest action of	Non CRZ Area	0.32
WB 2	F 45 P 10/SW	NUIT UNL AIGA	A CONTRACTOR OF THE PROPERTY O

	OSM 25K Grid	Class	Area(Sq Km)
Index No	USINI ZUK UNA	CRZ-IA	0.07
		CRZ-IB	0.17
		CRZ-II	1.22
		CRZ-IVA	177.28
A STANDARD TO THE STANDARD ST	F 45 Q 14/NW	CRZ-IA	278.50
WB 20	F 43 Q 14/11VV		
and the second s	F 45 Q 14/NE	CRZ-IA	307.68
WB 21	F 40 Q I TINE		
Mark the second		Non CRZ Area	12.90
	F 45 R 2/NW	CRZ-IA	242.71
NB 22	F 45 R Z/INVV	CRZ-IVB	11.95
	and the state of t		
	and the second s	Non CRZ Area	166.93
		CRZ-IA	2.24
		CRZ-IA (Mangrove	0.03
		Buffer)	
	E 45 D 40/0\A/	CRZ-IB	1.01
WB 23	F 45 P 13/SW	CRZ-III (200-500)	1.29
		CRZ-IVA	0.99
		CRZ-IVB	1.96
	NDZ	4.32	
	A STATE OF THE STA	The second secon	reconstruction of the control of the
	and the second	Non CRZ Area	60.21
WB 24 F 45 P 13/SE	CRZ-IA	12.00 🔞	
	CRZ-IA (Mangrove	0.10	
	Buffer)		
	CRZ-IB	1.64	
	F 45 P 13/SE	CRZ-III (200-500)	0.62
		CRZ-IVA	13.75
		CRZ-IVB	86.78
	AND THE PROPERTY OF THE PARTY O	3.75	
		NDZ	
		n di 2008 territoria de compositoria de marco de mandes antigos estados estados en como como como como como como como com	38.22
		Non CRZ Area	13.67
		CRZ-IA	0.37
		CRZ-IA (Mangrove	0.31
WB 25	F 45 Q 1/SW	Buffer)	0.63
general designation of the second		CRZ-IB	126.12
Supervisorio (CRZ-IVB	1.71
		NDZ	
	A COMMISSION OF THE WHOLE A COMMISSION OF THE PROPERTY AND A COMMISSION OF THE PROPERTY AND ASSOCIATION OF THE PROPERTY ASSOCIATIO		
2	and the second s	Non CRZ Area	105.65
		CRZ-IA	13.80
	1	CRZ-IA (Mangrove	1 2.27
MD 26	NAID 26 E 45 O 1/SE	Buffer)	
WB 26 F 45 Q 1/SE	CRZ-IB	1.94	
	CRZ-IVB	51.42	
	Visignation	NDZ	5.98

Coastal Zone Management Plan, West Bengal

Index No	OSM 25K Grid	Class	Area(Sq Km)
MUEX NO			4.00.01
	F 45 Q 5/SW	Non CRZ Area	106.31
		CRZ-IA	66.61
		CRZ-IA (Mangrove	12.40
NB 27		Buffer)	2.64
		CRZ-IB CRZ-IVB	6.58
		A SECURE OF THE PROPERTY OF TH	11.62
		NDZ	
	F 45 Q 5/SE	Non CRZ Area	100.28
WB 28	F 45 Q 5/3L	CRZ-IA	34.88
		CRZ-IA (Mangrove Buffer)	12.09
		CRZ-IB	1.25
		CRZ-IVB	27.96
		NDZ	8.11
	ent a comment entre contracte and accompany, when accompany were contracted to the contracted and accompany of the contracted and accompany of the contracted accompany of	and the second s	
WB 29	F 45 Q 9/SW	Non CRZ Area	4.58
		CRZ-IA	215.04
		CRZ-IA (Mangrove Buffer)	2.54
		CRZ-IB	0.01
		CRZ-IVB	27.27
		NDZ	0.47
enterprise de la companya de la comp	F 45 Q 2/SE	Non CRZ Area	4.97
WB 3		CRZ-IA	21.30
		CRZ-IA (Mangrove	0.51
		Buffer)	1.33
		CRZ-IB	0.61
		CRZ-II	0.02
		ÇRZ-III (200-500)	134.99
		CRZ-IVA	19.25
		CRZ-IVB	1.32
		NDZ	1.32
The second second and the second seco		CRZ-IA	210.71
WB 30	F 45 Q 9/SE	CRZ-IVB	47.34
WB 30	F 45 Q 9/SE		net kalender der kolle Gregoria der
The state of the s	E 45 O 10/0/N	CRZ-IA	310.69
WB 31	VB 31 F 45 Q 13/SW	COLOR DA CONTRACTOR DE LA CONTRACTOR DE CONT	
WB 32	F 45 Q 13/SE	CRZ-IA	321.06
Compression According to the Compression and C		Non CRZ Area	65.32
WB 33	F 45 R 1/SW	CRZ-IA	86.16
		CRZ-IVB	54.39

Index No	OSM 25K Grid	Class Class	Area(Sq Km)
Muex No	THE RESERVE OF THE PROPERTY OF		178.40
WB 34	F 45 P 9/NE	Company of the compan	0.05
		CRZ-IB	0.03
		CRZ-IVB	A COLOR DE LA COLO
		NDZ	0.14
			167.38
WD 2E	F 45 P 13/NW	Non CRZ Area	The state of the s
WB 35 WB 35	F 45 P 13/NW	CRZ-IA	0.13
WB 35	F 45 P 13/NW	CRZ-IB	1.98
WB 35	F 45 P 13/NW	CRZ-IVB	2.26
WB 35	F 45 P 13/NW	NDZ	6.87
	The second secon		470.30
WID 26	F 45 P 13/NE	Non CRZ Area	170.39
WB 36	F 45 P 13/NE	CRZ-IA	2.61
WB 36 WB 36	F 45 P 13/NE	CRZ-IA (Mangrove Buffer)	0.10
control to the second of the s	F AF D 12/NE	CRZ-IB	1.22
WB 36	F 45 P 13/NE	CRZ-IVB	2.18
WB 36	F 45 P 13/NE	NDZ	3.08
WB 36	F 45 P 13/NE	and the state of t	
	The second section is a second of the second second section of the second section is a second		21.86
WB 37	F 45 Q 1/NW	CRZ-IA	40.37
WB 37	F 45 Q 1/NW	CRZ-IA (Mangrove	0.15
WB 37	F 45 Q 1/NW	Buffer)	4.27
WB 37	F 45 Q 1/NW	CRZ-IB	109.63
WB 37	F 45 Q 1/NW	CRZ-IVB	2.40
WB 37	F 45 Q 1/NW	NDZ .	Z.40
AND	The second state of the second		109.52
WB 38	F 45 Q 1/NE		5.00
WB 38	F 45 Q 1/NE	CRZ-IA	0.75
WB 38	F 45 Q 1/NE	CRZ-IA (Mangrove Buffer)	
Security construction of the construction of t	F 45 Q 1/NE	CRZ-IB	3.82
WB 38	F 45 Q 1/NE	CRZ-IVB	55.42
WB 38	F 45 Q 1/NE	NDZ	4.15
WB 38	TO SERVICE THE SERVICE AND ADMINISTRATION OF THE SERVICE AND ADMINISTRATIO		The second section of the second seco
	F 45 Q 5/NW		159.02
WB 39	F 45 Q 5/NW	CRZ-IA	4.06
WB 39	F 45 Q 5/NW	CRZ-IA (Mangrove	4.86
WB 39		Buffer)	2.80
WB 39	F 45 Q 5/NW	CRZ-IB	0.41
WB 39	F 45 Q 5/NW	CRZ-IVB	7.53
WB 39	F 45 Q 5/NW	NDZ	nago mineral de la companya del companya de la companya del companya de la companya del la companya de la compa
and the second s		end consistent analysis of selection of a size of the selection of the sel	19.10
WB 4	F 45 Q 6/SW	CRZ-IA	27.89
WB 4	F 45 Q 6/SW	CRZ-IA (Mangrove	0.78
WB 4	F 45 Q 6/SW	Buffer)	
	F 45 Q 6/SW	CRZ-IB	0.76

Index No	OSM 25K Grid	Class	Area(Sq Km)
	F 45 Q 6/SW	CRZ-II	0.96
WB 4	F 45 Q 6/SW	CRZ-III (200-500)	0.01
WB 4	F 45 Q 6/SW	CRZ-IVA	130.28
WB 4	F 45 Q 6/SW	CRZ-IVB	5.24
WB 4	F 45 Q 6/SW	NDZ 69	1.27
WB 4	F 43 Q UIOVV		
austra, par mai describitar administrativa (no constituto de constituto	F 45 Q 5/NE		122.69
WB 40	F 45 Q 5/NE	CRZ-IA	17.95
WB 40	The second of th	CRZ-IA (Mangrove	12.77
WB 40	F 45 Q 5/NE	Buffer)	
	F 45 Q 5/NE	CRZ-IB	5.00
WB 40	F 45 Q 5/NE	CRZ-IVB	10.15
WB 40	F 45 Q 5/NE	NDZ	10.13
WB 40	F 45 Q SINL		
Account to the second s	T AE O O/NIM		57.70
WB 41	F 45 Q 9/NW	CRZ-IA	163.11
WB 41	F 45 Q 9/NW	CRZ-IA (Mangrove	6.45
WB 41	F 45 Q 9/NW	Buffer)	
	F 45 Q 9/NW	CRZ-IB	0.65
WB 41	The second of the second secon	CRZ-IVB	2.91
WB 41	F 45 Q 9/NW	NDZ	4.23
WB 41	F 45 Q 9/NW	e anno esta den estado estado estado estado estado estado en estad	
the state of the second particle across to the second seco	E AF O OINE	CRZ-IA	221.59
WB 42	F 45 Q 9/NE	CRZ-IVB	39.41
WB 42	F 45 Q 9/NE		and the state of t
STANDARD AND AND AND AND AND AND AND AND AND AN	45 0 13/00/	CRZ-IA	325.94
WB 43	F 45 Q 13/NW		and the street of the street o
on the fight who was also also a find a find of the fi	A CONTRACTOR AND	CRZ-IA	299.28
WB 44	F 45 Q 13/NE		CONTRACTOR OF THE PROPERTY OF
The second of the second and second of the s	The second section is a second second of a second s		60.65
WB 45	F 45 R 1/NW	CRZ-IA	132.56
WB 45	F 45 R 1/NW	CRZ-IVB	37.59
WB 45	F 45 R 1/NW	COCKETTO CONTROL CONTR	
	and the second s	The state of the s	170.32
WB 46	F 45 J 16/SE	CRZ-IA	0.17
WB 46	F 45 J 16/SE	CRZ-IA CRZ-IB	1.71
WB 46	F 45 J 16/SE	The state of the s	1.01
WB 46	F 45 J 16/SE	CRZ-II	4.55
WB 46	F 45 J 16/SE	CRZ-IVB	0.73
WB 46	F 45 J 16/SE	NDZ	and the second
	THE CONTRACTOR OF THE CONTRACT	A the section of the	135.63
WB 47	F 45 K 4/SW	CD7 IA	9.34
WB 47	F 45 K 4/SW	CRZ-IA	0.38
WB 47	F 45 K 4/SW	CRZ-IA (Mangrove Buffer)	
WB 47	F 45 K 4/SW	CRZ-IB	4.39
WB 47	F 45 K 4/SW	CRZ-II	2.61
WB 47	F 45 K 4/SW	CRZ-IVB	24.54
WB 47	F 45 K 4/SW	NDZ	1.60

Ladov No	OSM 25K Grid	Class	Area(Sq Km)
Index No	F 45 K 4/SE		84.10
NB 48	F 45 K 4/SE	CRZ-IA	9.31
WB 48 WB 48	F 45 K 4/SE	CRZ-IA (Mangrove	0.55
		Buffer)	3.31
WB 48	F 45 K 4/SE	CRZ-IB	1.40
WB 48	F 45 K 4/SE	URZ-II	77.67
WB 48	F 45 K 4/SE	CRZ-IVB	2.16
WB 48	F 45 K 4/SE	NDZ	
September (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994) (1994)	and the control of th		177.33
WB 49	F 45 K 8/SW	OD7 ID	0.28
WB 49	F 45 K 8/SW	CRZ-IB	0.08
WB 49	F 45 K 8/SW	CRZ-IVB	0.83
WB 49	F 45 K 8/SW	NDZ	
Contraction from the Contraction of the Contraction	TAFORISE		0.20
WB 5	F 45 Q 6/SE	CRZ-IA	19.81
WB 5	F 45 Q 6/SE	CRZ-IA (Mangrove	0.33
WB 5	F 45 Q 6/SE	Buffer)	
Application And Company Market Company (Company) and the Company of Company of Company (Company) and the Company of Compan	F 45 Q 6/SE	CRZ-IB	1.87
WB 5	F 45 Q 6/SE	CRZ-III (200-500)	1.23
WB 5	F 45 Q 6/SE	CRZ-IVA	137.11
WB 5	F 45 Q 6/SE	CRZ-IVB	24.33
WB 5	F 45 Q 6/SE	NDZ	1.38
WB 5	F 43 Q 0/3L		
XXXD EA	F 45 K 8/SE		171.73
WB 50	F 45 K 8/SE	CRZ-IA	0.75
WB 50 WB 50	F 45 K 8/SE	CRZ-IA (Mangrove Buffer)	1.48
and the second of the second o	en since consideration de consideration des sons antiques de sons en entre since and antique estimate and an a	CRZ-IB	1.15
WB 50	F 45 K 8/SE	CRZ-IVB	0.20
WB 50	F 45 K 8/SE	NDZ	3.22
WB 50	F 45 K 8/SE		The second section of the second section of the second section of the second section section section section section sections.
and the second s	and the second s	gentlement of the form of the control of the contro	145.77
WB 51	F 45 K 12/SW	CRZ-IA	7.63
WB 51	F 45 K 12/SW	CRZ-IA (Mangrove	5.77
WB 51	F 45 K 12/SW	Buffer)	
WB 51	F 45 K 12/SW	CRZ-IB	8.00 4.71
WB 51	F 45 K 12/SW	CRZ-IVB	6.67
WB 51	F 45 K 12/SW	NDZ	O.O. Commence of the second se
Commission of the commission o		Controlled in the Property of the Controlled	75.58
WB 52	F 45 K 12/SE	CD7 IA	43.17
WB 52	F 45 K 12/SE	CRZ-IA	8.73
WB 52	F 45 K 12/SE	CRZ-IA (Mangrove Buffer)	
WB 52	F 45 K 12/SE	CRZ-IB	0.84
WB 52	F 45 K 12/SE	CRZ-IVB	56.07
WB 52	F 45 K 12/SE	NDZ	5.36
and the second s		and the second of the second o	17.22
WB 53	F 45 K 16/SW		11.22

Index No	OSM 25K Grid	Class	Area(Sq Km)
CANADA PROPERTY OF STREET, STATE OF THE STAT	F 45 K 16/SW	CRZ-IA	276.54
WB 53 WB 53	F 45 K 16/SW	CRZ-IA (Mangrove, Buffer)	2.08
	F 45 K 16/SW	CRZ-IB	0.04
WB 53	F 45 K 16/SW	CRZ-IVB	4.67
WB 53	F 45 K 16/SW	NDZ	1.34
WB 53	F 45 K 10/3VV		
WB 54	F 45 K 16/SE		14.30
WB 54	F 45 K 16/SE	CRZ-IA	267.32
WB 54	F 45 K 16/SE	CRZ-IA (Mangrove Buffer)	1.96
and the second s	F 45 K 16/SE	CRZ-IB	0.02
WB 54	F 45 K 16/SE	CRZ-IVB	3.85
WB 54		NDZ	1.17
WB 54	F 45 K 16/SE	The second secon	And the second process of the second process
ry ments admit a Miller on the State of the First and the State of the	A LOVA	CONTRACTOR	77.68
WB 55	F 45 L 4/SW	CRZ-IA	132.65
WB 55	F 45 L 4/SW	CRZ-IVB	21.94
WB 55	F 45 L 4/SW	CRZ-IVD	er varianten er allaten menten avatat en
		the country of the last territory of the second	160.34
WB 56	F 45 K 4/NW	2027 I M	0.03
WB 56	F 45 K 4/NW	CRZ-IA	0.24
WB 56	F 45 K 4/NW	CRZ-IB	1.13
WB 56	F 45 K 4/NW	CRZ-II	16.60
WB 56	F 45 K 4/NW	CRZ-IVB	TO . OU
Control of the Contro			122 17
WB 57	F 45 K 4/NE		133.17
WB 57	F 45 K 4/NE	CRZ-IA	0.74
WB 57	F 45 K 4/NE	CRZ-IB	0.95
WB 57	F 45 K 4/NE	CRZ-II	1.21
WB 57	F 45 K 4/NE	CRZ-IVB	41.59
A CONTRACTOR OF THE PARTY OF TH	F 45 K 4/NE	NDZ	0.69
WB 57	TO THE STATE OF TH		and the first section of process that have been considered to the section of the
CONTRACTOR OF THE STATE OF THE	F 45 K 12/NW		173.76
WB 58	F 45 K 12/NW	CRZ-IA	0.61
WB 58 WB 58	F 45 K 12/NW F 45 K 12/NW	CRZ-IA (Mangrove Buffer)	0.45
	E AF IZ AO/NIM	CRZ-IB	1.53
WB 58	F 45 K 12/NW	CRZ-IVB	0.08
WB 58	F 45 K 12/NW	NDZ	1.97
WB 58	F 45 K 12/NW	er er en de en	general para da de altra de processa de la composition de la composition de la composition de la composition d
and the second s			130.40
WB 59	F 45 K 12/NE	CRZ-IA	16.82
WB 59	F 45 K 12/NE		5.65
WB 59	F 45 K 12/NE	CRZ-IA (Mangrove Buffer)	
WB 59	F 45 K 12/NE	CRZ-IB	3.58
WB 59	F 45 K 12/NE	CRZ-IVB	18.44
WB 59	F 45 K 12/NE	NDZ	7.36
VVD J3	The second secon		
WB 6	F 45 Q 10/SW	CRZ-IA	63.51

Index No	OSM 25K Grid	Class	Area(Sq Km)
WB 6	F 45 Q 10/SW	CRZ-IA (Mangrove Buffer)	1.90
Marriage Philips and Aller	F 45 Q 10/SW	CRZ-IB	1.09
NB 6	F 45 Q 10/SW	CRZ-IVA	82.49
WB 6	F 45 Q 10/SW	CRZ-IVB	44.10
NB 6	F 43 Q TU/SVV	173	
AND CONTRACT MANAGEMENT OF STREET	F 45 K 16/NW		126.95
WB 60	F 45 K 16/NW	CRZ-IA	9.87
WB 60 WB 60	F 45 K 16/NW	CRZ-IA (Mangrove Buffer)	11.64
WB 60	F 45 K 16/NW	CRZ-IB	1.67
WB 60	F 45 K 16/NW	CRZ-IVB	17.02
CONTRACTOR OF SPECIAL CONTRACTOR	F 45 K 16/NW	NDZ	11.32
WB 60	THE RESERVE AND ADDRESS OF THE PARTY OF THE	and the state of t	The second secon
WD 64	F 45 K 16/NE	CAMPAGE TO THE SECOND STATE OF THE SECOND SE	74.86
WB 61	F 45 K 16/NE	CRZ-IA	125.66
WB 61 WB 61	F 45 K 16/NE	CRZ-IA (Mangrove Buffer)	5.41
M/D C4	F 45 K 16/NE	CRZ-IB	1.00
WB 61	F 45 K 16/NE	CRZ-IVB	16.73
WB 61	F 45 K 16/NE	NDZ	6.79
WB 61	F 45 K TO/INE	The second secon	
CONTRACTOR	F 45 L 4/NW	transportation of the section of the	98.90
WB 62	F 45 L 4/NW	CRZ-IA	111.96
WB 62 WB 62	F 45 L 4/NW	CRZ-IA (Mangrove Buffer)	0.98
LAND CO	F 45 L 4/NW	CRZ-IB	0.07
WB 62	F 45 L 4/NW	CRZ-IVB	8.43
WB 62	F 45 L 4/NW	NDZ	1.77
WB 62	F 45 L 4/INVV		responses to the control of the cont
	F 45 K 11/SW	A CONTRACT OF THE PROPERTY OF	177.97
WB 63	F 45 K 11/SW	CRZ-IB	- 0.11
WB 63	F 45 K 11/SW	NDZ ,	0.16
WB 63	T 40 K I I/OVV	and the second s	
	F 45 K 11/SE	от во водина в при на принципа	136.25
WB 64	F 45 K 11/SE	CRZ-IA	4.78
WB 64 WB 64	F 45 K 11/SE F 45 K 11/SE	CRZ-IA (Mangrove Buffer)	0.68
NATE &	F 45 K 11/SE	CRZ-IB	26.85
WB 64	F 45 K 11/SE	CRZ-II	0.46
WB 64	F 45 K 11/SE	CRZ-IVB	4.09
WB 64	F 45 K 11/SE	NDZ	5.67
WB 64	F 40 K II/OL		
AND OF	F 45 K 15/SW	and a second section of the section of	156.33
WB 65	F 45 K 15/SW	CRZ-IA	0.71
WB 65 WB 65	F 45 K 15/SW	CRZ-IA (Mangrove Buffer)	1.63
VAVES OF	F 45 K 15/SW	CRZ-IB	3.25
WB 65 WB 65	F 45 K 15/SW	CRZ-IVB	5.83

Index No	OSM 25K Grid	Class	Area(Sq Km)
NB 65	F 45 K 15/SW	NDZ	10.55
AD 02	The second state of the second		and a second of the second
NB 66	F 45 K 15/SE		133.11
NB 66	F 45 K 15/SE	CRZ-IA	1.75
NB 66	F 45 K 15/SE	CRZ-IA (Mangrove Buffer)	2.99
AID CC	F 45 K 15/SE	CRZ-IB	2.14
WB 66	F 45 K 15/SE	CRZ-IVB	29.89
WB 66	F 45 K 15/SE	NDZ	8.41
WB 66	F 40 K TJJOL		
o vita visita di socia di sistema di si si possi di si	F 45 L 3/SW		170.56
WB 67		CRZ-IA	0.27
WB 67	F 45 L 3/SW	CRZ-IA (Mangrove	0.77
WB 67	F 45 L 3/SW	Buffer)	The second secon
AND THE RESERVE AND ADDRESS OF THE PARTY OF	TAFL 2/6/M	CRZ-IB	0.14
WB 67	F 45 L 3/SW	CRZ-IVB	5.55
WB 67	F 45 L 3/SW	NDZ	1.04
WB 67	F 45 L 3/SW		
Security of District on the Control of the Control	FACIZA/NE	And the second s	171.74
WB 68	F 45 K 11/NE	CRZ-IB	5.40
WB 68	F 45 K 11/NE	NDZ	0.96
WB 68	F 45 K 11/NE		er en elle grant en elle grant de la g
The company and the contract of the contract o	and the state of t		153.98
WB 69	F 45 K 15/NW	CRZ-IA	0.19
WB 69	F 45 K 15/NW		0.50
WB 69	F 45 K 15/NW	CRZ-IA (Mangrove	5.00
	The second secon	Buffer)	3.47
WB 69	F 45 K 15/NW	CRZ-IB	11.09
WB 69	F 45 K 15/NW	CRZ-IVB	8.90
WB 69	F 45 K 15/NW	NDZ	approximative and adjustment was a war was a way and a way a way and a surface of a surface and a su
TO TAKE A STATE OF THE PARTY OF			113.23
WB 7	F 45 Q 10/SE	CRZ-IA	63.80
WB 7	F 45 Q 10/SE	CRZ-IVA	The state of the s
WB 7	F 45 Q 10/SE	CRZ-IVB	20.08
govide analog angle Marial Paris, vol. Angle Paris, por a paris and a paris an	The second secon		AAA CO
WB 70	F 45 K 15/NE		143.63
WB 70	F 45 K 15/NE	CRZ-IA	0.28
WB 70	F 45 K 15/NE	CRZ-IA (Mangrove Buffer)	1.38
WB 70	F 45 K 15/NE	CRZ-IB	5.38
WB 70	F 45 K 15/NE	CRZ-IVB	16.80
WB 70	F 45 K 15/NE	NDZ ·	10.67
VVD /U			
NA/D 74	F 45 K 10/SE		164.49
WB 71	F 45 K 10/SE	CRZ-IB	1.97
WB 71	F 45 K 10/SE	CRZ-IVB	3.48
WB 71	F 45 K 10/SE	NDZ	8.01
WB 71	F 43 K 1U/3E		The second of the first and the second of th
and the second s	E AF IZ A AIO\AI	the second secon	170.64
WB 72	F 45 K 14/SW	CR7-IA	0.01
WB 72	F 45 K 14/SW	CRZ-IA	U.U.

According to the first of the first of the second of the s	OSM 25K Grid	Class	Area(Sq Km)
Index No	F 45 K 14/SW	CRZ-IA (Mangrove	0.07
WB 72	F 43 K 14/3VV	Buffer)	
WB 72	F 45 K 14/SW	CRZ-IB	1.09
WB 72	F 45 K 14/SW	CRZ-IVB	2.70
WB 72	F 45 K 14/SW	NDZ	3.46
Manuscript Control of the Control of	en e		
WB 73	F 45 K 14/SE		172.04
WB 73	F 45 K 14/SE	CRZ-IA	0.20
WB 73	F 45 K 14/SE	CRZ-IA (Mangrove Buffer)	0.34
CONTRACTOR OF THE PROPERTY OF	TATIVANICE	CRZ-IB	0.68
WB 73	F 45 K 14/SE	CRZ-IVB	2.03
WB 73	F 45 K 14/SE	NDZ	2.70
WB 73	F 45 K 14/SE	NUL	our en la Maria de la compansión de la comp
A CONTRACTOR OF	TALE O A A I CON	CRZ-IA	180.76
WB 8	F 45 Q 14/SW	CRZ-IVA	35.17
WB 8	F 45 Q 14/SW	Construction of the Constr	
and the second s	F 45 Q 14/SE	CRZ-IA	138.45
WB 9	F 45 Q 14/SE	CRZ-IVA	51.12

- 1. CRZ-IA (ESA): In case of various ESA's such as, nesting ground of birds, mangroves, sand dune reserve forest etc, it is often observed that they overlap and occupy same areas in terms of geographic extent, as it is expected in reality. For example it is expected that horse shoe crab will thrive in a mudflat or mangroves in interdital regions, which are both categorised as CRZ-IA. Therefore, sumtotal of each CRZ-IA category will exceed the total area under CRZ-IA class.
- 2. CRZ-IA (Mangrove Buffer): As per CRZ Notification 2011, a buffer of 50m is applied to any mangrove patch of more than 1000 sqm and accordingly also classified as CRZ-IA. Existing LULC practices in these areas may vary from settlement to agriculture or aquaculture.

3.1.3 Statistics of LULC for the area under CRZ as per SOI Open Series Map and Index :

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		Non CRZ Area	162.86
		Agricultural Land	0.20
		Beach / Sand Patch	0.04
		Built - Up Others	0.03
		Habitation / Settlement With Vegetation	0.02
		HSC	0.14
	FAFDC/SE	Open / Vacant Land	0.04
WB 1	F 45 P 6/SE	RF	0.30
		Rivers / Streams / Drains	0.03
		Sand Vegetation	0.23
		SD	0.1
		Sea	15.1
		Tanks/ Ponds/ Lakes	0.0
		Non CRZ Area	0.3
		Agricultural Land	0.0
		Beach / Sand Patch	0.1
		Built - Up Others	0.5
		Habitation / Settlement With Vegetation	0.0
		Open / Vacant Land	0.1
WB 2	F 45 P 10/SW	Sand Vegetation	0.4
		SD	0.0
		Sea	177.2
		Seawall / Embankment	0.0
		Tanks/ Ponds/ Lakes	0.0
		Vegetated Area	0.0
		Non CRZ Area	4.9
		Agricultural Land	0.
		Aquaculture Pond	0.
		Beach / Sand Patch	0.
		Built - Up Others	0.
		Former Creek	0.
WB 3	F 45 Q 2/SE	Former Creek reclaimed to Aquaculture	0.
		Habitation / Settlement With Vegetation	0.
			0
		HSC	5
		Mang MFT	5

ndex		LULC Class	Area in Km.
No.	OSM 25K Grid	***	1.52
		Mudflat Inter - tidal	0.03
		Open / Vacant Land	0.19
		Reclaimed Area Reclaimed Mudflat Aquaculture	0.05
			9.29
		RF	19.36
		Rivers / Streams / Drains	0.06
		Sand Vegetation	134.99
		Sea	0.48
		SM	0.02
		Vegetated Area	19.10
		Non CRZ Area	0.84
		Agricultural Land	0.33
		Aquaculture Pond	0.01
		Beach / Sand Patch	0.18
		Built - Up Others	0.01
		Creek	0.03
		Former Creek Former Creek reclaimed to Aquaculture	0.06
		Habitation / Settlement With Vegetation	0.66
			0.66
		HSC	10.21
		Mang	2.31
		MFT	0.49
		Mudflat Inter - tidal	0.16
WB 4	F 45 Q 6/SW	Open / Vacant Land	0.02
		Reclaimed Area	0.01
		Reclaimed Mudflat Reclaimed Mudflat Aquaculture	0.00
			14.68
		RF	5.38
		Rivers / Streams / Drains	0.36
		Sand Vegetation	0.00
		SD	130.2
		Sea	0.0
		Seawall / Embankment	0.0
		SM	0.3
		Spit	0.0
		Tanks/ Ponds/ Lakes	0.0
		Vegetated Area	.0.2
		Non CRZ Area	1.7
a partie and the	F 45 Q 6/SE	Agricultural Land	0.2
WB 5	F 45 Q 0/3L	Aquaculture Pond Beach / Sand Patch	0.0

ndex	OSM 25K Grid	LULC Class	Area in Km.
Vo.		Former Creek	0.09
		Former Creek reclaimed to Aquaculture	0.07
		Habitation / Settlement With Vegetation	0.33
		Mang **	7.30
		MFT	4.85
		Mudflat Inter - tidal	2.10
		NGB	7.34
		Open / Vacant Land	0.02
		RF	0.26
		Rivers / Streams / Drains	24.35
		Sand Vegetation	0.11
		SD	0.08
		Sea	137.12
		Seawall / Embankment	0.00
		Mang	45.47
		MFT	3.06
		Mudflat Inter - tidal	1.77
		NGB	14.55
		Rivers / Streams / Drains	45.26
WB 6	F 45 Q 10/SW	Sand Vegetation	0.05
		SD SD	• 0.05
			82.50
		Sea SM	0.38
			17.77
		Mang MFT	0.12
		NGB	95.30
WB 7	F 45 Q 10/SE	Rivers / Streams / Drains	20.08
			63.80
		Sea	0.04
		SM	34.48
		Mang	2.25
WB 8	F 45 Q 14/SW	MFT	144.03
VVDO	1 43 4 2 7	NGB	35.17
		Sea	8.94
		Mang	1.40
WB 0	F 45 Q 14/SE	MFT	128.13
WB 9	1 45 0(11)	NGB	51.12
	1	Sea	7.83
		Mang	46.0
WB 10	F 45 R 2/SW	NGB	133.2
		Sea	153.2
WB 11	F 45 P 10/NW	Non CRZ Area	7

Index OSM 25K Gri	id LULC Class	Area in Km.
No.	Agricultural Land	1.41
	Aquaculture Pond	2.78
	Beach / Sand Patch	1.39
	Built - Up Others	0.53
	Creek	0.02
	Fish drying/ Net mending	0.06
	Habitation / Settlement With Vegetation	0.93
	HSC	0.50
	Mang	0.5
	MFT	0.1
	Mudflat Inter - tidal	2.2
	Open / Vacant Land	0.0
	Outfalls / Effluents / Canals / Ditch	0.2
	Reclaimed Area	0.1
	Rivers / Streams / Drains	0.8
	Salt pan / Aquaculture	0.3
	Sand Vegetation	0.9
	SD	0.5
	Sea	11.6
	Seawall / Embankment	• 0.2
	SM	0.0
	Tanks/ Ponds/ Lakes	0.0
	Vegetated Area	0.0
	Non CRZ Area	106.
	Agricultural Land	2.
	Aguaculture Pond	3.
		3.
	Beach / Sand Patch	0.
	Built - Up Others	0.
	Creek	0.
	Fish drying/ Net mending Habitation / Settlement With Vegetation	0.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.
WB 12 F 45 P 10/	Mang /NE	0
WD 12	IVII I	3
	Mudflat Inter - tidal	1
	Open / Vacant Land	0
	Outfalls / Effluents / Canals / Ditch	0
	Reclaimed Area	0
	Reclaimed Mudflat	2
	Reclaimed Mudflat Aquaculture	C
	Rivers / Streams / Drains Salt pan / Aquaculture	3

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.	OSM 25K Gilu	c dVectation	0.17
		Sand Vegetation	0.36
		SD	47.77
		Seawall / Embankment	0.12
		Tanks/ Ponds/ Lakes	0.05
		Vegetated Area	0.34
		Non CRZ Area	35.58
		Agricultural Land	1.25
		Aquaculture Pond	1.07
		Beach / Sand Patch	4.31
		Brick Kiln	0.03
			0.01
		Creek Fish drying/ Net mending	0.04
		Former Creek	0.00
		Former Creek reclaimed to Aquaculture	0.01
		Habitation / Settlement With Vegetation	0.76
			0.19
		Mang	9.41
		MFT	1.06
WB 13	F 45 P 14/NW	Mudflat Inter - tidal	0.09
		Open / Vacant Land Outfalls / Effluents / Canals / Ditch	0.06
		Reclaimed Area	0.07
			0.19
		Reclaimed Mudflat	3.31
		RF	0.27
		Rivers / Streams / Drains	0.08
		Sand Vegetation	0.50
		SD .	120.45
		Sea	0.12
		Seawall / Embankment	0.02
		Tanks/ Ponds/ Lakes	0.44
		Vegetated Area	84.43
		Non CRZ Area	3.14
		Agricultural Land	0.0
		Airport / Helipad	0.70
		Aquaculture Pond	0.9
	F 45 O 2 /NIVA/	Beach / Sand Patch	0.0
WB 14	F 45 Q 2/NW	Built - Up Others	0.0
	14	Creek	0.0
		Former Creek reclaimed to Aquaculture	2.1
		Habitation / Settlement With Vegetation	7.1
		HSC	3

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.	OSINI Sak dila		3.31
		Mang	3.00
		MFT	1.17
		Mudflat Inter - tidal	1.60
		NGB	0.81
		Open / Vacant Land Outfalls / Effluents / Canals / Ditch	0.08
			0.33
		Reclaimed Area	0.14
		Reclaimed Mudflat	0.13
		Reclaimed Mudflat Aquaculture	44.74
(BL)		Rivers / Streams / Drains	0.43
		Sand Vegetation	0.30
		SD	27.74
		Sea	0.01
		Seawall / Embankment	0.37
		SM	0.04
		Tanks/ Ponds/ Lakes	0.18
		Vegetated Area	85.05
		Non CRZ Area	5.62
		Agricultural Land	1.70
		Aquaculture Pond	0.38
		Beach / Sand Patch	0.01
		Creek	0.01
		Former Creek	0.32
		Former Creek reclaimed to Aquaculture	3.41
		Habitation / Settlement With Vegetation	1.17
		HSC	10.20
		Mang	3.64
		MFT	2.70
		Mudflat Inter - tidal	0.2
WB 15	F 45 Q 2/NE	Open / ,Vacant Land	0.0
		Outfalls / Effluents / Canals / Ditch	0.0
		Reclaimed Area	0.0
		Reclaimed Mudflat	
		Reclaimed Mudflat Aquaculture	1.5
		RF	4.2
		Rivers / Streams / Drains	58.0
		Sand Vegetation	0.0
		SD	. 0.0
		Sea	2.
		Seawall / Embankment	0.
1		Tanks/ Ponds/ Lakes	0.

F 45 Q 6/NW	Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT Mudflat Inter - tidal	0.01 66.70 4.60 1.59 0.00 0.01 0.49 2.91 9.94 54.04 1.79 3.71
F 45 Q 6/NW	Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	4.60 1.59 0.00 0.01 0.49 2.91 9.94 54.04 1.79
F 45 Q 6/NW	Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	1.59 0.00 0.01 0.49 2.91 9.94 54.04 1.79
F 45 Q 6/NW	Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	0.00 0.01 0.49 2.91 9.94 54.04 1.79
F 45 Q 6/NW	Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	0.01 0.49 2.91 9.94 54.04 1.79
F 45 Q 6/NW	Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	0.49 2.91 9.94 54.04 1.79
F 45 Q 6/NW	Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation HSC Mang MFT	2.91 9.94 54.04 1.79
F 45 Q 6/NW	Habitation / Settlement With Vegetation HSC Mang MFT	9.94 54.04 1.79
F 45 Q 6/NW	HSC Mang MFT	54.04 1.79
F 45 Q 6/NW	Mang MFT	1.79
F 45 Q 6/NW	MFT	
F 45 Q 6/NW		2 71
F 45 Q 6/NW	Mudflat Inter - tidal	5./1
F 45 Q 6/NW		0.01
	Open / Vacant Land	0.02
	Outfalls / Effluents / Canals / Ditch	0.00
	Reclaimed Area	0.64
	Reclaimed Mudflat Aquaculture	12.23
	RF	36.67
	Rivers / Streams / Drains	0.09
	Sand Vegetation	3.30
	Sea	0.05
	Seawall / Embankment	0.03
		0.01
		45.12
		43.12
		1.83
	Former Creek	0.02 0.13
	Former Creek reclaimed to Aquaculture	
	Habitation / Settlement With Vegetation	1.66
		42.30
		9.11
	The state of the s	1.1
F 45 Q 6/NE		0.0
	Outfalls / Effluents / Canals / Ditch	0.0
	Reclaimed Mudflat Aquaculture	0.6
		46.8
		61.5
1		0.0
7.0		0.0
		1.6
		0.0
	F 45 Q 6/NE	Rivers / Streams / Drains Sand Vegetation Sea Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal

Index	and the second	LULC Class	Area in Km.
No.	OSM 25K Grid	16 / 10 18 Carlo St.	96.44
to the		Mang	2.58
		MFT	1.89
WB 18	F 45 Q 10/NW	Mudflat Inter - tidal	17.33
and the second		RF /P	73.15
		Rivers / Streams / Drains	54.05
		Mang	0.22
		MFT	0.35
	0.40/NF	Mudflat Inter - tidal	121.21
WB 19	F 45 Q 10/NE	NGB	0.94
		RF	55.93
		Rivers / Streams / Drains	93.51
		Mang	5.94
WD 20	F 45 Q 14/NW	MFT	179.05
WB 20	1 43 4 7	NGB	124.18
		Mang	4.42
	F 45 Q 14/NE	MFT	179.08
WB 21	1 43 4 - 7	NGB	12.90
		Non CRZ Area	88.46
		Mang	154.25
WB 22	F 45 R 2/NW	NGB	11.95
		Rivers / Streams / Drains	166.93
4/40%		Non CRZ Area	2.50
		Agricultural Land	1.60
		Aquaculture Pond	
		Beach / Sand Patch	0.04
		Creek	0.02
		Former Creek reclaimed to Aquaculture	0.00
		Habitation / Settlement With Vegetation	1.0
		Mang	0.1
		MFT	2.0
		Mudflat Inter - tidal	0.8
14/D 22	F 45 P 13/SW	Open / Vacant Land	0.0
WB 23		Outfalls / Effluents / Canals / Ditch	0.0
		Reclaimed Area	0.0
		Reclaimed Mudflat	0.0
		Reclaimed Mudflat Aquaculture	0.0
7			1.
		Rivers / Streams / Drains	.0.
		Sand Vegetation	0.
		Sea	0
		Seawall / Embankment	0
		Tanks/ Ponds/ Lakes	3

ndex	OSM 25K Grid	LULC Class	Area in Km.
No:	03/4/25/4 0	Vegetated Area	0.12
		Non CRZ Area	60.21
		Agricultural Land	2.38
		Aquaculture Pond	1.11
		Beach / Sand Patch	0.43
		Brick Kiln	0.00
		Built - Up Others	0.11
		그리고 그리고 그는 그리고 그들도 있다면 되어 가는 그 그런 얼마 어려운데가 없었다면서 없었다.	0.00
		Creek Habitation / Settlement With Vegetation	0.30
			0.59
		Mang	10.73
		MFT	0.95
		Mudflat Inter - tidal	0.10
WB 24	F 45 P 13/SE	Open / Vacant Land	0.01
		Outfalls / Effluents / Canals / Ditch	0.02
		Reclaimed Area	0.31
		Reclaimed Mudflat Aquaculture	0.53
		RF	86.78
		Rivers / Streams / Drains	0.27
		Sand Vegetation	0.16
		SD	13.75
		Sea	0.03
		Seawall / Embankment	0.00
		Tanks/ Ponds/ Lakes	0.05
		Vegetated Area	38.22
		Non CRZ Area	1.00
		Agricultural Land	0.4
		Aquaculture Pond	0.0
		Creek	0.0
		Former Creek	
		Habitation / Settlement With Vegetation	0.4
		HSC	1.4
		Mang	1.6
WB 25	F 45 Q 1/SW	MFT	10.1
		Mudflat Inter - tidal	0.4
		NGB	0.6
to the second		Open / Vacant Land	0.0
		Reclaimed Mudflat Aquaculture	0.0
	1	Rivers / Streams / Drains	126.:
The Paris		Tanks/ Ponds/ Lakes	0.0
	Recognition of the Control of the Co	Vegetated Area	0.
			105.
WB 26	F 45 Q 1/SE	Non CRZ Area	3

ndex OSM 25K Grid	LULC Class	Area in Km.
No.	Agricultural Land	2.74
	Aquaculture Pond	0.52
	Brick Kiln	0.15
	Built - Up Others	0.16
	Creek	0.02
	Former Creek	0.02
	Former Creek reclaimed to Aquaculture	0.04
	Habitation / Settlement With Vegetation	2.92
		7.33
	Mang	2.02
	MFT Mudflat Inter - tidal	1.51
	Open / Vacant Land	0.06
	Reclaimed Area	0.06
	Reclaimed Mudflat	0.22
		0.72
	Reclaimed Mudflat Aquaculture	4.60
	RF	52.25
	Rivers / Streams / Drains	0.01
	Seawall / Embankment	0.04
	Tanks/ Ponds/ Lakes	0.02
	Vegetated Area	106.31
	Non CRZ Area	9.05
	Agricultural Land	2.65
	Aquaculture Pond	0.08
	Creek	0.10
	Former Creek	0.00
	Former Creek reclaimed to Agriculture	0.31
	Former Creek reclaimed to Aquaculture	5.66
	Habitation / Settlement With Vegetation	4.61
	HSC	33.00
	Mang	0.78
VB 27 F 45 Q 5/SW	MET	2.03
	Mudflat Inter - tidal	0.02
	Open / Vacant Land	
	Outfalls / Effluents / Canals / Ditch	0.00
	Reclaimed Area	0.00
	Reclaimed Mudflat	0.02
	Reclaimed Mudflat Brick Kiln	0.0
	Reclaimed Mudflat Aquaculture	2.6
	RF	28.4
	Rivers / Streams / Drains	10.4
	Seawall / Embankment	0.0

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.		Tanks/ Ponds/ Lakes	0.02
		Vegetated Area	0.05
		Non CRZ Area	100.28
		Agricultural Land	7.82
		Aquaculture Pond	2.32
		Creek	0.01
		Former Creek	0.10
		Former Creek reclaimed to Aquaculture	0.29
		Habitation / Settlement With Vegetation	3.24
		Mang	19.37
		MFT	0.69
WB 28	F 45 Q 5/SE	Mudflat Inter - tidal	1.68
		Outfalls / Effluents / Canals / Ditch	0.01
		Reclaimed Area	0.01
		Reclaimed Mudflat Aquaculture	1.58
		RF	15.21
		Rivers / Streams / Drains	31.92
		Seawall / Embankment	0.01
		Tanks/ Ponds/ Lakes	0.00
		Vegetated Area	0.00
		Non CRZ Area	4.58
		Agricultural Land	0.62
		Aquaculture Pond	0.04
		Creek	0.03
		Former Creek reclaimed to Aquaculture	0.04
		Habitation / Settlement With Vegetation	0.16
		Mang	102.89
WB 29	F 45 Q 9/SW	MFT	6.04
WD.Z5		Mudflat Inter - tidal	0.47
		Outfalls / Effluents / Canals / Ditch	0.02
			106.13
		RF Rivers / Streams / Drains	28.9
		Tanks/ Ponds/ Lakes	0.0
			0.0
		Vegetated Area	79.1
		Mang	0.0
7		MFT	105.5
WB 30	F 45 Q 9/SE	NGB	26.0
	1.9	RF Rivers / Streams / Drains	47.3
			130.9
10/2-04	F 45 Q 13/SW	Mang	0.
WB 31	1 43 (15/5)	MFT	3

edov 1		LULC Class	Area in Km.
ndex No.	OSM 25K Grid		178.90
		NGB	141.62
		Mang	0.52
NB 32	F 45 Q 13/SE	MFT	178.92
1000		NGB	65.32
		Non CRZ Area	26.92
	2.30250	Mang	59.25
WB 33	F 45 R 1/SW	NGB	54.39
		Rivers / Streams / Drains	178.40
		Non CRZ Area	0.05
		Agricultural Land	0.05
		Aquaculture Pond	0.05
VAID OV	F 45 P 9/NE	Habitation / Settlement With Vegetation	0.05
WB 34		Mudflat Inter - tidal	0.00
		Reclaimed Mudflat Aquaculture	0.03
		Rivers / Streams / Drains	167.38
		Non CRZ Area	3.46
		Agricultural Land	1.88
		Aquaculture Pond	0.07
		Brick Kiln	0.05
		Built - Up Others	0.03
		Creek	0.00
		Former Creek reclaimed to Aquaculture	1.24
		Habitation / Settlement With Vegetation	
0.4		Mang	0.02
13.14		MFT	0.13
WB 35	F 45 P 13/NW	Mudflat Inter - tidal	1.84
		Open / Vacant Land	0.07
		Outfalls / Effluents / Canals / Ditch	0.01
		Reclaimed Area	0.03
		Reclaimed Mudflat	0.0
		Reclaimed Mudflat Aquaculture	0.1
		Rivers / Streams / Drains	2.2
		Seawall / Embankment	0.0
		Tanks/ Ponds/ Lakes	0.0
		Vegetated Area	0.0
			170.3
7		Non CRZ Area	1.
		Agricultural Land	.0.
	F 45 P 13/NE	Aquaculture Pond	0.
WB 36	F 43 F 13/NL	Brick Kiln	0.
		Creek Habitation / Settlement With Vegetation	0.

	Area in Km.
	0.53
	0.81
	0.93
	0.10
	0.01
	0.01
	0.01
	0.02
	1.27
	2.47
	0.00
	0.00
	0.02
	0.00
	0.13
	21.86
	0.64
	0.61
	0.02
on	0.50
4	3.03
	11.9
	1.9
	0.0
	0.8
	0.8
	0.0
	109.6
	0.0
	0.1
	0.4
	26.3
	0.0
	109.
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Alan	2
tion	7

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		Mang	1.58
		MFT	4.59
		Mudflat Inter - tidal	2.51
		Open / Vacant Land	0.01
		Outfalls / Effluents / Canals / Ditch	0.00
		Reclaimed Area	0.07
		Reclaimed Mudflat	0.01
		Reclaimed Mudflat Aquaculture	0.29
		Rivers / Streams / Drains	55.62
		Seawall / Embankment	0.00
		SM	0.02
		Tanks/ Ponds/ Lakes	0.02
19.6		Vegetated Area	0.01
		Non CRZ Area	159.02
		Agricultural Land	4.50
		Aquaculture Pond	2.6
			0.0
		Built - Up Others	0.0
		Creek	0.0
		Former Creek	0.0
		Former Creek reclaimed to Agriculture Former Creek reclaimed to Aquaculture	0.7
		Habitation / Settlement With Vegetation	1.8
			4.0
WB 39	F 45 Q 5/NW	Mang	2.7
		Mudflat Inter - tidal	0.0
		Open / Vacant Land	0.0
		Outfalls / Effluents / Canals / Ditch	0.0
		Reclaimed Mudflat	0.8
		Reclaimed Mudflat Aquaculture	1.
		Rivers / Streams / Drains	0.0
		Seawall / Embankment	0.
		Tanks/ Ponds/ Lakes	0.
		Vegetated Area	122.
		Non CRZ Area	- 8.
		Agricultural Land	3.
		Aquaculture Pond	0.
7-11		Creek	0.
WB 40	F 45 Q 5/NE	Former Creek	0
		Former Creek reclaimed to Aquaculture	2
		Habitation / Settlement With Vegetation	17
		Mang	
		MFT	0

Mudflat Inter - tidal Open / Vacant Land Outfalls / Effluents / Canals / Ditch Reclaimed Area Reclaimed Mudflat Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes	Index	OSM 25K Grid	LULC Class	Area in Km.
Open / Vacant Land Outfalls / Effluents / Canals / Ditch Reclaimed Area Reclaimed Mudflat Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MAFT NGB Mang MAFT NGB Mang MAFT NGB Mang MART MART NGB Mang MART NGB Mang MART MFT NGB Mang MART MFT NGB Mang MART		OSMI S2K GITU		2.72
Outfalls / Effluents / Canals / Ditch Reclaimed Area Reclaimed Mudflat Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MAFT NGB Mang MFT NGB Mang MFT NGB Mang MAFT NGB Mang MMT MFT NGB Mang MAFT			그는 그들은	0.07
Reclaimed Area Reclaimed Mudflat Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG			Open / Vacant Land	0.03
Reclaimed Mudflat Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks / Ponds / Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks / Ponds / Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG				0.03
Reclaimed Mudflat Aquaculture Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB MANG MFT NGB Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG			All the second s	0.01
Rivers / Streams / Drains Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG			Reclaimed ividualiat	5.95
Seawall / Embankment Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MAT MARS MAT MARS MARS MARS MARS MANG MARS MANG MANG MANG MANG MANG MANG MANG MANG			Reclaimed Mudilat Aquaculture	14.73
Tanks/ Ponds/ Lakes Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MFT NGB Mang MANG MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG				0.16
Vegetated Area Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek Former Creek Former Creek Former Creek Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MART				0.01
Non CRZ Area Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MMFT				0.00
Agricultural Land Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MMFT NGB Mang				57.70
Aquaculture Pond Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang				3.58
Creek Former Creek Former Creek Former Creek Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang				1.44
Former Creek Forme			Aquaculture Pond	0.02
Former Creek reclaimed to Aquaculture Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MFT NGB Mang MFT NGB Mang MAT NGB Mang MFT NGB Mang MAT MAT NGB MANG MAT NGB MAT NGB MAT NGB MAT MAT NGB MAT MAT NGB MAT				0.03
Habitation / Settlement With Vegetation Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB MFT NGB MAng			Former Creek	0.11
WB 41 F 45 Q 9/NW Mang MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang			Former Creek reclaimed to Aquaculture	1.86
WB 41 F 45 Q 9/NW MFT Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang			Habitation / Settlement With Vegetation	68.29
WB 41 F 45 Q 9/NW Mudflat Inter - tidal Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB MFT NGB MFT NGB MANG MFT NGB MANG MFT NGB MANG MFT NGB MANG MANG MANG MANG MANG MANG MANG MANG			Mang	0.92
Outfalls / Effluents / Canals / Ditch Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG				0.46
Reclaimed Mudflat Aquaculture RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang	WB 41	F 45 Q 9/NW	Mudflat Inter - tidal	0.02
RF Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG			Outfalls / Effluents / Canals / Ditch	1.11
Rivers / Streams / Drains Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MANG MANG MANG MANG MANG MANG MANG MANG			Reclaimed Mudflat Aquaculture	93.75
Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MAN				5.58
Seawall / Embankment SM Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG			Rivers / Streams / Drains	0.03
Tanks/ Ponds/ Lakes Vegetated Area Mang MFT NGB RF Rivers / Streams / Drains HSC Mang MFT NGB MANG MFT NGB MANG MFT NGB MANG MANG MFT NGB MANG MANG MANG MANG MANG MANG MANG MANG			Seawall / Embankment	0.03
WB 42 F 45 Q 9/NE F 45 Q 9/NE F 45 Q 13/NW WB 43 F 45 Q 13/NE Vegetated Area Mang MFT NGB Mang MFT NGB Mang MFT NGB Mang				0.13
Vegetated Area Mang MFT			Tanks/ Ponds/ Lakes	0.01
Mang MFT NGB RF Rivers / Streams / Drains HSC Mang Mang MFT NGB Mang MFT NGB Mang MARG MARG MARG MARG MARG MARG MARG MARG			The state of the s	
WB 42 F 45 Q 9/NE NGB RF Rivers / Streams / Drains HSC Mang MFT NGB MANG M	100			82.19
WB 42 F 45 Q 9/NE RF Rivers / Streams / Drains HSC Mang MFT NGB Mang				0.09
RF Rivers / Streams / Drains HSC Mang MFT NGB Mang		5 45 O O/NE		58.9
Rivers / Streams / Drains HSC Mang MFT NGB Mang	WB 42	F 45 Q 9/ NC		80.3
HSC Mang MFT NGB Mang				39.4
Mang MFT NGB Mang Mang MFT NGB Mang MANG MANG MANG MANG MANG MANG MANG MANG				8.5
WB 43 F 45 Q 13/NW MFT NGB Mang F 45 Q 13/NE MFT				138.3
NGB Mang WB 44 F 45 Q 13/NE MFT	WR 43	F 45 Q 13/NW		0.2
Mang F 45 Q 13/NE MFT				178.7
WB 44 F 45 Q 13/NE MFT	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	W.	The first commence in a second representative delication (A. C. C. A. C.	120.2
WB 44 F 43 Q 13/112	Alagara.	* 1		0.2
NOD	WB 44	F 45 Q 13/NE		178.
WB 45 F 45 R 1/NW			MOD	60.

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.	Osivi zak dilu	Mang	52.00
		Mang NGB	80.55
		Rivers / Streams / Drains	37.59
		Non CRZ Area	170.32
		Agricultural Land	0.19
		Aquaculture Pond	0.60
		Brick Kiln	0.60
		Habitation / Settlement With Vegetation	0.26
			0.21
		Mang	0.17
		MFT	1.50
WB 46	F 45 J 16/SE	Mudflat Inter - tidal	0.00
		Open / Vacant Land	0.01
		Outfalls / Effluents / Canals / Ditch	0.00
		Reclaimed Area	4.55
out of the state o		Rivers / Streams / Drains	0.01
		Seawall / Embankment	0.03
		Tanks/ Ponds/ Lakes	0.06
		Vegetated Area	135.63
		Non CRZ Area	0.6
		Agricultural Land	0.7
		Aquaculture Pond	0.3
		Brick Kiln	0.4
		Built - Up Others	0.0
		Creek	0.0
		Former Creek reclaimed to Agriculture	0.5
		Habitation / Settlement With Vegetation	2.2
		Mang ,	4.7
		MFT	
		Mudflat Inter - tidal	1.8
WB 47	F 45 K 4/SW	Open / Vacant Land	0.0
WDH		Outfalls / Effluents / Canals / Ditch	0.0
		Port / Harbour / Jetty	1.0
		Reclaimed Area	0.3
		Reclaimed Mudflat	0.0
		Reclaimed Mudflat Brick Kiln	0.0
		Reclaimed Mudflat Aquaculture	2.
		RF	0.
		Rivers / Streams / Drains	23.
		Seawall / Embankment	0.
		SM	1.
		Tanks/ Ponds/ Lakes	1.

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		Vegetated Area	0.06
		Non CRZ Area	84.10
		Agricultural Land	1.47
		Brick Kiln	1.14
		Built - Up Others	0.3
		Creek	0.0
1		Habitation / Settlement With Vegetation	0.4
		Mang	2.0
		MFT	4.8
140.40	F 45 K 4/SE	Mudflat Inter - tidal	3.3
WB 48	F 43 K 4/3L	Open / Vacant Land	0.0
		Reclaimed Mudflat	0.1
		Reclaimed Mudflat Aquaculture	0.2
		Rivers / Streams / Drains	77.7
		Seawall / Embankment	0.0
		SM	2.4
		Tanks/ Ponds/ Lakes	0.0
		Vegetated Area	0.
		Non CRZ Area	177.
		Agricultural Land	0,
		Aquaculture Pond	0.
		Creek	0.9
		Former Creek	0.
		Habitation / Settlement With Vegetation	0.
	FAF VOICINI	Mudflat Inter - tidal	0.
WB 49	F 45 K 8/SW	Open / Vacant Land	0.
34.1		Reclaimed Mudflat Aquaculture	0.
		Rivers / Streams / Drains	0.
		Seawall / Embankment	0.
		Tanks/ Ponds/ Lakes	0.
		Vegetated Area	0
		Non CRZ Area	171
		Agricultural Land	1
		Aguaculture Pond	. 1
		Creek	0. 0. 0. 0. 2. 4. 3. 0. 0. 0. 77 0. 2. 0. 0. 177 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
		Former Creek	0
WB 50	F 45 K 8/SE	Former Creek reclaimed to Agriculture	0
	1	Habitation / Settlement With Vegetation	Ó
			0
		Mang	0
	ž.	MFT	1

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.	OSINI 25K GITU	a / Mosant Land	0.01
		Open / Vacant Land	0.02
		Reclaimed Area Reclaimed Mudflat Aquaculture	0.55
			0.56
		Rivers / Streams / Drains	0.01
		Seawall / Embankment	0.02
		Tanks/ Ponds/ Lakes	145.77
		Non CRZ Area	3.61
		Agricultural Land	1.50
		Aquaculture Pond	0.04
		Brick Kiln	0.03
		Creek	0.01
		Former Creek	0.09
570		Former Creek reclaimed to Aquaculture	3.15
		Habitation / Settlement With Vegetation	5.33
		Mang	1.66
		MFT	1.49
WB 51	F 45 K 12/SW	Mudflat Inter - tidal	0.00
		Open / Vacant Land	0.03
		Outfalls / Effluents / Canals / Ditch	0.03
		Reclaimed Area	8.89
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Reclaimed Mudflat Aquaculture	
		RF	0.29
		Rivers / Streams / Drains	6.14
		Seawall / Embankment	0.07
		SM	0.35
		Tanks/ Ponds/ Lakes	0.06
		Non CRZ Area	75.58
1		Agricultural Land	4.12
		Aquaculture Pond	2.20
			0.03
		Brick Kiln	0.0
A Light way		Creek	0.1
		Former Creek	0.0
		Former Creek reclaimed to Agriculture	0.2
WB 52	F 45 K 12/SE	Former Creek reclaimed to Aquaculture	1.8
		Habitation / Settlement With Vegetation	1.0
		HSC	25.2
		Mang	. 0.3
		MFT	1.3
		Mudflat Inter - tidal	3.
		NGB	0.
4 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NGB Open / Vacant Land	,

ndex	OSM 25K Grid	LULC Class	Area in Km.
No.	OSM 25K GIIU	Outfalls / Effluents / Canals / Ditch	0.01
			0.01
		Reclaimed Mudflat	0.01
		Reclaimed Mudflat Brick Kiln	1.03
		Reclaimed Mudflat Aquaculture	13.21
		RF	59.16
		Rivers / Streams / Drains	0.05
		Seawall / Embankment	0.21
		SM	0.04
		Tanks/ Ponds/ Lakes	0.07
		Vegetated Area	17.22
		Non CRZ Area	0.79
6.5		Agricultural Land	0.22
		Aquaculture Pond	0.01
A.P.A.		Creek	0.02
		Former Creek	0.04
		Former Creek reclaimed to Agriculture	1.27
		Habitation / Settlement With Vegetation	124.08
		Mang	0.36
	- 45 × 16/5W	MFT	0.19
WB 53	F 45 K 16/SW	Mudflat Inter - tidal	
		NGB	152.10
		Open / Vacant Land	0.00
		Reclaimed Mudflat	0.02
		Reclaimed Mudflat Aquaculture	0.06
		Rivers / Streams / Drains	5.53
		Seawall / Embankment	0.00
		Tanks/ Ponds/ Lakes	0.01
		Non CRZ Area	14.30
		Agricultural Land	0.56
		: 10 :	0.12
		Aquaculture Pond	0.02
		Creek	0.03
		Former Creek	0.02
		Former Creek reclaimed to Agriculture	1.40
	V 1C/CE	Habitation / Settlement With Vegetation	111.4
WB 54	F 45 K 16/SE	Mang	0.23
		MFT	0.2
		Mudflat Inter - tidal	155.6
	1	NGB	0.0
		Reclaimed Mudflat Aquaculture	4.5
		Rivers / Streams / Drains	0.0

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		Non CRZ Area	77.68
		Mang	53.64
WB 55	F 45 L 4/SW	NGB	79.01
		Rivers / Streams / Drains	21.94
		Non CRZ Area	160.34
		Agricultural Land	0.20
		Aquaculture Pond	0.04
		Brick Kiln	0.31
		Built - Up Others	0.06
		Habitation / Settlement With Vegetation	0.46
WB 56	F 45 K 4/NW	MFT	0.03
WD DO	1 33 N 1/1	Mudflat Inter - tidal	0.24
		Open / Vacant Land	0.03
		Reclaimed Area	0.01
11.11		Rivers / Streams / Drains	16.60
		Seawall / Embankment	0.00
		Vegetated Area	0.02
		Non CRZ Area	133.17
		Agricultural Land	1.20
		Aquaculture Pond	0.10
		Brick Kiln	0.16
		Built - Up Others	0.02
		Creek	0.00
		Habitation / Settlement With Vegetation	0.32
WB 57	F 45 K 4/NE	MFT.	0.74
		Mudflat Inter - tidal	0.88
		Open / Vacant Land	0.03
		Reclaimed Mudflat	0.0
		Rivers / Streams / Drains	41.60
		Tanks/ Ponds/ Lakes	0.0
		Vegetated Area	0.0
		Non CRZ Area	173.7
		Agricultural Land	0.8
		Aquaculture Pond	0.0
		Brick Kiln	0.1
		Creek	0.0
WB 58	F 45 K 12/NW	Former Creek	.0.0
		Former Creek reclaimed to Aquaculture	0.0
		Habitation / Settlement With Vegetation	0.7
		Mang	0.4
		MFT	9 0.1

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		Mudflat Inter - tidal	0.26
		Open / Vacant Land	0.01
		Outfalls / Effluents / Canals / Ditch	0.00
		Reclaimed Mudflat Brick Kiln	0.03
		Reclaimed Mudflat Aquaculture	1.42
1.0		Rivers / Streams / Drains	0.20
		Seawall / Embankment	0.04
		Tanks/ Ponds/ Lakes	0.04
		Vegetated Area	0.04
		Non CRZ Area	130.40
		Agricultural Land	3.35
		Aquaculture Pond	2.13
WALLEY ST		Brick Kiln	0.13
		Creek	0.0
		Former Creek	0.0
特拉力		Former Creek reclaimed to Agriculture	0.0
		Former Creek reclaimed to Aquaculture	0.1
		Habitation / Settlement With Vegetation	3.3
		HSC	4.0
WB 59	F 45 K 12/NE	Mang	11.8
		MFT	0.9
		Mudflat Inter - tidal	2.9
		Open / Vacant Land	0.0
June 12 W		Outfalls / Effluents / Canals / Ditch	0.0
		Reclaimed Mudflat	0.0
		Reclaimed Mudflat Aquaculture	2.8
			20.0
		Rivers / Streams / Drains	0.0
		Seawall / Embankment	0.0
		Tanks/ Ponds/ Lakes	126.9
		Non CRZ Area	6.3
		Agricultural Land	1.
		Aquaculture Pond	0.0
		Brick Kiln	0.
		Creek	0.
	F 45 K 16/NW	Former Creek	0.
WB 60	F 43 N 10/1444	Former Creek reclaimed to Agriculture	0.
100		Former Creek reclaimed to Aquaculture	7.
		Habitation / Settlement With Vegetation	7. 8.
		Mang	1.
		MFT	1.

Index	OSM 25K Grid	LULC Class	Area in Km.
No.		NGB	0.45
		Open / Vacant Land	0.11
		Outfalls / Effluents / Canals / Ditch	0.01
		Reclaimed Mudflat Aquaculture	1.66
		Rivers / Streams / Drains	21.72
		Seawall / Embankment	0.03
		Tanks/ Ponds/ Lakes	0.05
		Vegetated Area	0.00
		Non CRZ Area	74.86
		Agricultural Land	2.77
		Aquaculture Pond	0.71
		Creek	0.07
		Former Creek	0.02
		Former Creek reclaimed to Agriculture	0.04
		Habitation / Settlement With Vegetation	5.36
		Mang	54.34
		MFT	0.88
WB 61	F 45 K 16/NE	Mudflat Inter - tidal	1.25
		NGB	70.44
		Open / Vacant Land	0.03
		Outfalls / Effluents / Canals / Ditch	0.01
		Reclaimed Area	0.02
		Reclaimed Mudflat Aquaculture	0.78
		Rivers / Streams / Drains	18.82
		Seawall / Embankment	0.02
		Tanks/ Ponds/ Lakes	0.03
		Non CRZ Area	98.90
		Agricultural Land	0.68
		Aquaculture Pond	0.23
		Creek	0.00
		Former Creek	0.03
WB 62	F 45 L 4/NW	Habitation / Settlement With Vegetation	1.24
		Mang	43.86
		Mudflat Inter - tidal	0.19
		NGB	68.1:
		Rivers / Streams / Drains	8.80
		Non CRZ Area	177.9
			0.03
WB 63	F 45 K 11/SW	Agricultural Land Habitation / Settlement With Vegetation	0.0
			0.11
		Reclaimed Mudflat Aquaculture	136.2
WB 64	F 45 K 11/SE	Non CRZ Area	150.2.

Index OSM 25K Grid	LULC Class	Area in Km.
Secretary Control of the Control of	Agricultural Land	2.66
	Aquaculture Pond	0.84
	Creek	0.03
	Former Creek	0.09
	Former Creek reclaimed to Aquaculture	0.03
	Habitation / Settlement With Vegetation	2.54
	HSC	1.19
	Mang	3.63
	MFT	0.11
	Mudflat Inter - tidal	3.52
	Open / Vacant Land	0.11
	Outfalls / Effluents / Canals / Ditch	0.02
	Reclaimed Area	0.00
	Reclaimed Mudflat	0.96
	Reclaimed Mudflat Aquaculture	22.29
	Rivers / Streams / Drains	4.28
	Seawall / Embankment	0.01
	Tanks/ Ponds/ Lakes	0.04
	Tidal Creek	0.16
	Vegetated Area	0.02
U. Comment of the com	Non CRZ Area	156.33
	Agricultural Land	2.82
	Aquaculture Pond	3.40
	Brick Kiln	0.18
	Creek	0.03
1 (-1)	Former Creek	0.02
	Former Creek reclaimed to Agriculture	0.04
	Former Creek reclaimed to Aquaculture	0.06
	Habitation / Settlement With Vegetation	4.52
	Mang	0.53
WB 65 F 45 K 15/SW	MFT	0.30
F	Mudflat Inter - tidal	2.95
	Open / Vacant Land	0.09
	Outfalls / Effluents / Canals / Ditch	0.01
	Reclaimed Mudflat	0.00
	Reclaimed Mudflat Brick Kiln	0.03
	Reclaimed Mudflat Aquaculture	0.61
	Rivers / Streams / Drains	6.25
	Seawall / Embankment	0.00
	SM	0.04
	Tanks/ Ponds/ Lakes	0.05

Index	OSM 25K Grid	LULC Class	Area in Km.
Nó.		Vegetated Area	0.01
		Non CRZ Area	133.11
		Agricultural Land	2.84
		Aquaculture Pond	2.41
		Creek	0.05
		Former Creek	0.05
		Former Creek reclaimed to Agriculture	0.01
		Former Creek reclaimed to Aquaculture	0.03
		Habitation / Settlement With Vegetation	4.02
		Mang	1.41
WB 66	F 45 K 15/SE	MFT	0.41
		Mudflat Inter - tidal	2.06
		Open / Vacant Land	0.07
		Outfalls / Effluents / Canals / Ditch	0.03
		Reclaimed Area	0.00
		Reclaimed Mudflat Aquaculture	0.74
		Rivers / Streams / Drains	31.0
		Seawall / Embankment	0.0
		1996 (A)	0.04
		Tanks/ Ponds/ Lakes	170.5
		Non CRZ Area	0.4
		Agricultural Land	0.1
		Aquaculture Pond	0.0
		Creek	0.0
		Former Creek	0.6
WB 67	F 45 L 3/SW	Habitation / Settlement With Vegetation	0.2
WEG	,	Mang	0.3
		Mudflat Inter - tidal	0.0
		Open / Vacant Land	0.0
		Reclaimed Mudflat Aquaculture	5.8
发展的		Rivers / Streams / Drains	0.0
		Tanks/ Ponds/ Lakes	171.7
		Non CRZ Area	0.4
		Agricultural Land	
		Aquaculture Pond	0.0
		Former Creek	0.0
	E 4E 1/ 14 /NE	Former Creek reclaimed to Agriculture	0.1
WB 68	F 45 K 11/NE	Former Creek reclaimed to Aquaculture	0.0
		Habitation / Settlement With Vegetation	0.2
		Reclaimed Area	0.0
		Reclaimed Mudflat	3.1
		Reclaimed Mudflat Aquaculture	2.2

Index No.	OSM 25K Grid	LULC Class	Area in Km.
		Rivers / Streams / Drains	0.03
		Non CRZ Area	153.98
		Agricultural Land	0.63
		Aquaculture Pond	5.91
		Brick Kiln	0.44
		Creek	0.03
		Former Creek reclaimed to Aquaculture	0.01
		Habitation / Settlement With Vegetation	1.85
		Mang	0.19
WB 69	F 45 K 15/NW	Mudflat Inter - tidal	2.61
		Open / Vacant Land	0.02
		Outfalls / Effluents / Canals / Ditch	0.06
		Reclaimed Area	0.06
ATT		Reclaimed Mudflat	0.00
		Reclaimed Mudflat Aquaculture	1.11
		Rivers / Streams / Drains	11.18
		Tanks/ Ponds/ Lakes	0.04
4		Non CRZ Area	143.63
		Agricultural Land	3.61
		Aquaculture Pond	3.44
Na Property		Brick Kiln	0.09
		Creek	0.11
		Former Creek	0.01
		Habitation / Settlement With Vegetation	3.86
WB 70	F 45 K 15/NE	Mang	0.84
	1143/112	Mudflat Inter - tidal	2.36
1112		Open / Vacant Land	0.05
		Outfalls / Effluents / Canals / Ditch	0.03
		Reclaimed Mudflat Aquaculture	2.72
		Rivers / Streams / Drains	17.36
		Seawall / Embankment	0.00
		Tanks/ Ponds/ Lakes	0.04
		Non CRZ Area	164.49
Edward I		Agricultural Land	0.41
		Aquaculture Pond	5.67
		Brick Kiln	0.64
WB 71	F 45 K 10/SE	Creek	0.08
	1 43 1 10/32	Former Creek	0.00
		Habitation / Settlement With Vegetation	1.15
		Mudflat Inter - tidal	1.80
		Reclaimed Mudflat Aquaculture	0.17

earn sales a series and a series and		LULC Class	Area in Km.
ndex No.	OSM 25K Grid		3.48
		Rivers / Streams / Drains	0.01
		Tanks/ Ponds/ Lakes	0.06
		Vegetated Area	170.64
		Non CRZ Area	0.07
		Agricultural Land	1.44
		Aquaculture Pond	1.19
		Brick Kiln	0.03
		Creek	0.74
		Habitation / Settlement With Vegetation	0.01
		Mang	0.91
WB 72	F 45 K 14/SW	Mudflat Inter - tidal	0.00
2		Open / Vacant Land	0.01
		Outfalls / Effluents / Canals / Ditch	0.20
		Reclaimed Mudflat Aquaculture	2.72
	F 45 K 14/SE	Rivers / Streams / Drains	0.00
		Tanks/ Ponds/ Lakes	0.01
		Vegetated Area	172.04
		Non CRZ Area	0.32
		Agricultural Land	1.67
		Aquaculture Pond	0.40
		Brick Kiln	9 0.04
		Creek	0.44
		Habitation / Settlement With Vegetation	0.16
		Mang	0.03
		MFT	0.59
		Mudflat Inter - tidal	0.00
WB 73	F 43 K 14/30	Open / Vacant Land	0.0
		Outfalls / Effluents / Canals / Ditch	0.0
		Reclaimed Mudflat	0.1
		Reclaimed Mudflat Aquaculture	2.1
		Rivers / Streams / Drains	0.0
Amadada L		SM	0.0
		Tanks/ Ponds/ Lakes	
		Vegetated Area	0.0

1. CRZ-IA (ESA): In case of various ESA's such as, nesting ground of birds, mangroves, sand dune reserve forest etc, it is often observed that they overlap and occupy same areas in terms of geographic extent, as it is expected in reality. For example it is expected that horse shoe crab will thrive in a mudflat or mangroves in interdital regions, which are both categorised as CRZ-IA. Therefore, sumtotal of each interdital regions will exceed the total area under LULC class.

2. **CRZ-IA** (Mangrove Buffer): In case of areas, where the mangrove buffer region (50 m) for mangroves of more than 1000 sqm have covered areas landward side of HTL, it may often be observed the existing LULC practices vary from settlement to agriculture or aquaculture or others.

3.1.4 List of Mouzas in full or in part coinciding with CRZ in West Bengal

Block	Mouza Name	JL. No.
audien von der eine verwerte der eine erlagt web nach der eine werden er verber er einem der er verber er verb	Atghara •	111
	Baltia	31
	Baroj	28
	Dakshin Ranigachhi	30
	Gobaria Abad	120
	Haldaha	107
	Haroa	112
	Indali	29
	Kamarganti	45
Haroa	Khasbalanda	110
Tidiou	Kulti	50
	Latarbagan	27
	Makhala	49
	Munsigheri	122
		26
	Ramchakirgheri	121
	Ranigachhi	105
		103
	Samla .	102
	Bedemari	78
	Bhabanipur	20
	Bhurkunda	76
	Chak Khanpukur	56
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		Alipur	80
		Arakbari	99
		Baman Chak	52
		Banbasrya	100
and the contraction of the contr		Baratala	29
interproper processing and the second proces		Barkasaria	46
anne and an anne and an anne a		Boga	78
ton portion continues and the second		Chauddachuli	33
AND THE PROPERTY OF THE PROPER		Dekhali	20
		Dhobaghata Baman Chak	50
000000000000000000000000000000000000000		Gobindapur	103
		Gorahar	72
		Gorahar Jalpai	71
		Haludbari	21
		Joshua	104
		Kadirabad Chak	120
		Kalagachhia	106
		Kartikkhali	35
		Kaseria	59
		Kastala	37
		Katka Debi Chak	74
	Repolarization Traves	Kayal Chak	75
	detended the second of the sec	Keshab Chak	or general, configure contra anno des insertir de la consensa del contra del
	The appropriate interest in the second of th	Khajuri	4:
	vonanemon deligi	Madakhali	3
		Mansinghabar	4
		Meidinagar	11
		Mundamari	3
		Nankar Gobindapur	10
		Nij Kashba	11
		Nonapata	11
		Oashil Chak	10
		Oshmanpur	
		Pacharya	10
A	To come with the contract of t	Padarbheri	11
1		Pakuria	. 4
		Panikhya	6
	Sign about the same of the sam	Pankhai	2

	Block	Mouza Name	JL. No.
District		Radhanagar	54
	MAHISHADAL NANDIGRAM-I	Safarchata	53
		Sahebnagar	48
		Sahebnagar	• 47
		Satsimali	55
		Serkhan Chak	27
		Shyampur Jalpai	70
		Shyampur Katka	77
	describense	Sundarpur	81
	personnation	Thanaberya	98
	The second control of	Badur	171
		Bhangagara	170
	МАЦІСНАПАІ	Kesabpur Jalpai	133
	MAHISHADAL	Suklalpur	165
			166
	NOTICE CONTINUE TO THE STATE OF		164
		Brindaban Chak	225
		Dinabandhupur	165
			250
			25
	200000000000000000000000000000000000000	Brindaban Chak Dinabandhupur Gangra Gangra Char Gokulnagar Jalpai part V Jalpai Part VII Jelyamara Kalicharanpur	9 24
		Jalpai part V	16
		The state of the s	24
		The second contracts of the se	16
			24
	NANDIGRAM-I	Kanango Chak	22
		Kendamari Jalpai	18
		Manuchak Jalpai	16
		Nakchira Char	25
		Nayachak	18
		Saudkhali Char	25
		Saudkhali Jalpai	24
		Simulkunda	22
		Sonachura	25
		Sonachura Jalpai	25
- 7	And the second processing and the control of the co	Amdabad	14
14		Birulia	13
14		Jalpai part II	11
	NANDIGRAM-II	Jaipai part III	
		The second secon	22
	and the second s	Kamalpur	

	Block	Mouza Name	JL. No.
District		Mangal Chak	114
		Naya Chak Bayal	115
		Rani chak	221
		Subdi	. 139
	A Super-minimum continues and continues a super-	Alampur	241
	eponentia de la compositiona della compositiona della compositiona della compositiona della compositiona del	Atili	92
		Balarampur	222
		Begundiha	212
		Berakhana	243
		Bhagi Baharampur	79
		Bil Amria	85
		Birampur	225
		Chandpur	237
		Chhota Balarampur	214
		Dalbaldya	220
	actions entertains		7
		Deulbatta	20
		Digha	21
		Dublabari	24
		Gadadharpur	7
		Gangadharpur	9
		Ghersai	No. of the first state of the control of the following state is the control of th
	RAMNAGAR - I	Gobindabasan	and a transfer of the second s
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		Jagaibasan	2012-100-1-100-100-100-100-100-100-100-1
	Ad parameteristics	Jaldha	24
		Jamra Syampur	2
		Jasipur	22
		Jhaugerya	20
		Jhawa	2
		Junbani	24
		Kaema	2
		Katandiha	2
		Khadal Gobra	
	STATE OF THE PROPERTY OF THE P	Kiagoria	2
		Kuliyata	2
11	stillnessessianing (November 1980)	Lachhimpur	2
17		Maitrapur	
		Mukundapur	2
3	www.	Nilpur	2000 00 00 00 00 00 00 00 00 00 00 00 00

	Block	Mouza Name	JL. No.
District		Panch Daria	221
		Ramnagar	205
		Raypur	215
Continue de la contin		Sankarpur	224
		Somaibasan	90
		Tajpur	244
		Talaria	206
		Baichibania	281
		Chatakasimpur	277
		Dadanpatra	284
		Deuli	248
		Kalikapur	250
		Kalindi	265
		Kandarpapur	252
		Mandarmani	245
		Mania	, 285
	RAMNAGAR - II	Narandia	198
	5 990	Patharmuha	251
		Phulbari	249
		Purushottampur	286
		A SECURE OF THE CONTRACT OF TH	276
		Purushottampur	
		Satilapur	196
		Silampur	246
		Sonamuhi	28.
		THE RESERVE OF THE PROPERTY OF	
		Anarnagar	
		Begunbere	
		Erekhali	
		Gajipur	
		Hariballavpur	
		Latpatia	and place and a substantial production of a substantial contract of the substantial co
	SUTAHATA	Maniruddin Char	and which is the property of the control of the con
		Maţiram Chak	
		Matirampur	And the control of th
		Parbbatipur	en and Communication and an Association and a stay which is very definition over the Communication and an activation and a stay of the communication and t
. 7		Raynagar	
1		Sadaram Chak	SOME PROSTORIO SE
		Urddhabmal	3
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	Block	Mouza Name	JL. No.
District	DIUCK	Uttarbaroj	341
	Experience of the second of th	Dakshinbarojor (Part - I)	332
		Simulbari	331
		Gholbagda	. 330
		Sukunia	153
		Panichiara	155
	Contai - III	Kanaidighi	416
		Bhaitgarh	415
	Mahishadal	Natshal	157
	Nandigram - III	Jalpai (Part - I)	111

All other mouzas are partly in different CRZ zones.

3.2 Record of Public Consultations

SUMMARY OF DELIBERATIONS IN PUBLIC HEARINGS IN THREE COASTAL DISTRICTS OF WEST BENGAL

01 0	VEST BENOME		0.07144
SI No	District	Observation of participants	Action taken by SCZMA
1	Purba Midnapur	1 The Executive Officer Digha Shankarpur Development Authority Submitted: i. To keep Tajpur and	All designated urban development areas have been kept under CRZ II
		Mandarmoni in CRZII area ii.That there is no turtle nesting ground in Digha coast	That the area is no longer a nesting centre of turtles has been confirmed by expert member of the SCZMA, and it is deleted from the list of ESA's in the map. This has been brought to the notice of NCSCM vide letter No.2174/EN/T-II-4/017/2016 dated 25.9.2017
		2. Sabhapati Ramnagar 1 Panchayat Samity asked if mangroves grown by local people could be harvested for other development works in future	It was conveyed that mangroves grown beyond the NDZ may be harvested within the ambit of the existing West Bengal Tree cutting Act.
		3. There was a request from the participants to allow the fishermen community to build permanent masonry structures for residential purpose in lieu of kuccha/semi pucca huts already in existence.	The mater will be dealt in accordance with the provisions contained in the CRZ notification of 2011.
		4. One representative of Dakshin Banga Matsajibi Forum submitted that the CZMP should lay emphasis on development and wellbeing of the local people.	notification, 2011.
2		5. There was a request from participants that the NDZ should be restricted to 50 metres	The representatives of the SCZMA conveyed that NDZ will have to be defined in accordance with the provisions of the CRZ notification of 2011or its future amendments, if any. Presently, the request has not been considered for preparation of the CZMP.

			and the second state
		O. Inchicochitate	The representatives of the SCZMA were of the view that the local development authority should formally place the matter with WBSCZMA. Presently, this request has not been included in the CZMP
2.	South 24	Brick Kiln owners of the district requested for	This was not accepted as this contradicts the provisions of the CRZ notification ,2011.
	Parganas	regularization of chimneys of brick kiln within 50m of HTL	It was conveyed that public
		2. One small part of the Kultali block, lying within NDZ has existing schools, colleges masjid etc, and the local participants requested for their	dispensaries rain shelter etc are permissible
		retention 3. brick Kiln owners enquired if brick drying is permissible in NDZ areas of river front	It was clarified that activities which donot involve any permanent construction, may be permitted
		4. The participants were of the opinion that security of life and property in Sunderbans area, keeping NDZ of 100metres is necessary and that development works can be taken up beyond 100 metres	NDZ has been maintained at 100 metres or width of the creek, whichever is less.
3.	North 24 Parganas	The Additional District Magistrate, North 24 Parganes, stated that there are a number of old settlement.	Only a part of Flarga has been put under CRZ II, being substantially built up. Minakhan is has been retained under CRZ III.
		areas such as haroa, Minakhan, which have been developed long back and should be kept under CRZ II	This has been accepted in the
		Additional District m Magistrate stated that all development activities shall be taken up beyond 100metre of HTL or width of the creek,	CZMP.
7		whichever is less 3. Representative of Sandeshkhali, Kalinagar,	This has not been incorporated in the CZMP as the areas do no fall under any Development
		Nyajat, Gajalia, Baunia, Abad Sandeshkhali II,Bermajur Dhamakhali etc should be kep in CRZ II because these area are supporting substantial population density.	Authority or municipality:

North 24 Parganas 3.2.1

Details of Public Consultation 3.2.1.1

With reference to the CRZ Notification 2011 (Annexure-I, Para-IV), wherein it has been stated that the Draft Coastal Zone Management Plan shall have to be given wide publicity and suggestions and objections received in accordance with Environment (Protection) Act 1986. It further states that a public hearing shall have to be held at the district level by the concerned Coastal Zone Management Authority and based on suggestions and objections received the CZMPs shall be revised and approval of MoEF should be obtained.

Accordingly, a Public hearing was held at the Office of the Sub Divisional Officer, Basirhat, North 24 Parganas on 7th December, 2017 by the West Bengal State Coastal Zone Management Authority in association with District Officials and the resident stakeholders of the area.

Key Points of the Public Hearing are as follows:

1. The meeting was jointly chaired by Addl District Magistrate (LR), North 24 Parganas and Chief Environment Officer & Member Secretary, WBSCZMA. The Sub-Divisional Officer, Panchayat Samity Members, Panchayat members and other officers of the District administration were also present during the process.

At the initiation, the Member Secretary of WBSCZMA and Chief Environment Officer welcomed the participants to the public consultation providing a brief of the hearing procedure and inviting objections and suggestions to the Draft Coastal Zone Management

The Senior Environment Officer addressed the participants and explained the salient points of Coastal Regulation Zone Notification with special emphasis on the district and mentioned that the zonation has been done based on the HTL Line prepared by National Centre for Sustainable Coastal Management (NCSCM) and the criteria provided in the notification for characterization of Zones. The names of the Mouzas appearing in the different zones do not imply that the entire Mouza comes under the said CRZ zone.

The matter was further clarified through a power point presentation showing the Coastal

Regulation Zones of the district and the coastal blocks which come under the CRZ.

Further, each category of CRZ I, II, III (NDZ & other areas), IVA, IVB, Ecologically Sensitive Areas, the process of identification as per the CRZ Notification 2011 was clarified and a detailed list of Mouzas in each category of the blocks was displayed.

The stakeholders present were then requested to put forward their queries, objections and

suggestions which are listed below:

a. ADM (LR), North 24 Parganas pointed out that there are a number of old settlement areas in Haroa, Minakhan etc which have been developed long back and as such those areas should be placed under CRZ II.

He requested all Panchayat Samities and people of the district to take up development activities 100 m away from the HTL of the rivers as a thumb rule. So that the development works do not come in conflict with CRZ areas and permissions for the developmental projects become smooth.

It was explained that any development activity within 100 mt or width of the creek, whichever is less from the HTL will have to be recommended by the State Coastal Zone

Management Authority (SCZMA). SDO, Basirhat pointed out that permission for STP within the NDZ (100 mts or width of the creek whichever is less) can be given but not dumping of Municipal Solid Waste

The panchayat representative of Sandeshkhali I stated that mouzas like Kalinagar, Kanmari, Nyajat, Gajalia, Baunia Abad, Dakshin Akhratala have substantial areas already developed within CRZ zones. They may be redesignated as CRZ II. The Authority was requested to go through the same prior to finalization of the CZMP.

Same was the case of Bermajur, Dhamakhali Mouzas under Sandeshkhali II having large number of guest houses as opined by the panchayat representatives of Sandeshkhali II and needs to be designated as CRZ II. The Authority was requested to go through the same prior to finalization of the CZMP.

Finally ADM (LR) stated that there was not much problem in the district as the requirement of the district is primarily confined to roads, bridges, jetties, rain shelters and the like. He further requested the authority to bring the rules of CRZ to the notice of the Sundarban Development Board as they also construct road, bridge, jetties, tubewell and other structures in the district.

It was stated that the points raised by the participants will be placed before the steering committee before finalization of CZMP.

South 24 Parganas 3.2.2

Current Activities 3.2.2.1

The following table lists the current land use pattern of the coastal blocks of the district 16:

f the coastal blocks of South 24 Parganas

le 5: Current land use pattern of the coastal blocks Land Use	Area (km²)	%Share
	1265.47	34.05%
Agricultural (Single Crop)	932.66	25.09%
River	511.31	13.76%
Rural Settlement	427.73	11.51%
Forest	346.93	9.33%
Agriculture (Double/Multi Crop)	117.92	3.17%
Aquaculture	39.40	1.06%
Social Forestry	27.60	0.74%
Inland Natural	20.55	0.55%
Horticulture Plantation	8.57	0.23%
Scrub/ Wasteland	7.89	0.21%
Lakes/Ponds / Tanks/Canal	5.47	0.15%
Urban Settlement / Housing	4.28	0.12%
Brick Kiln	0.51	0.01%
Public Utilities and Facility	0.38	0.01%
Transportation / Railway Complex	0.36	0.00%
Commercial Area		0.00%
Educational Institute	0.11	0.00%
Recreational Area	0.03	0.00%
Health	0.03	0.00%
Sports Complex	0.02	0.00%
Industry(Orange)	0.02	0.00%
Institutional (Government)	0.01	0.00%
Industry (Red)	0.01	
Seaport Complex	0.00	0.00%
Acquired Land	0.00	0.00%
Tourism	. 0.00	0.00%
Proposed Industrial Area	0.00	0.00%
Non-Polluting Industries	0.00	0.00%
Sandy Area	0.00	0.00%
Salt Pan	0.00 3717.01	0.00% 100.00

3.2.2.2 Details of Public Consultation

With reference to the CRZ Notification 2011 (Annexure-I, Para-IV), wherein it has been stated that the Draft Coastal Zone Management Plan shall have to be given wide publicity and suggestions and objections received in accordance with Environment (Protection) Act 1986. It further states that a public hearing shall have to be held at the district level by the concerned

¹⁶ District Profile, South 24 Parganas, Land & Land Reforms Department, Government of West Bengal

Coastal Zone Management Authority and based on suggestions and objections received, the CZMPs shall be revised and approval of MoEF shall be obtained.

Accordingly, a Public hearing was held at the seminar hall of the Zilla Parishad, South 24 Parganas on 15th December, 2017 by the West Bengal State Coastal Zone Management Authority in association with District Officials and the resident stakeholders of South 24 Parganas District.

Key Points of the Public Hearing are as follows:

The meeting was jointly chaired by the Senior Environment Officer and the Addl. District

Magistrate (LR), South 24 Parganas.

At the initiation, the Senior Environment Officer gave the welcome address to the persons present in the public consultation providing a brief of the hearing procedure and requesting objections and suggestions to the Draft Coastal Zone Management Plan (CZMP). The salient points of Coastal Regulation Zone Notification with special emphasis on the area was further elucidated along with the procedure of demarcation of zonation, based on the HTL Line prepared by National Centre for Sustainable Coastal Management (NCSCM) as per the CRZ Notification, 2011. It was also clarified that the names of the Mouzas appearing in the different zones do not imply that the entire Mouza comes under the said CRZ zone.

The matter was further clarified through a power point presentation showing the Coastal Zones of West Bengal contained within the CRZ of the district and the coastal blocks which come under the CRZ.

4 Further, each category of CRZ I, II, III (NDZ & other areas), IVA, IVB, Ecologically Sensitive Areas along with the process of identification as per the CRZ Notification 2011 was clarified and a detailed list of Mouzas in each category of the blocks was displayed.

The stakeholders present were then invited to put forward their queries, objections and

suggestions which are listed below:

- The brick kiln owners pointed out that a lot of chimneys of brick kilns are present within 50m of High Tide Lines in the district and asked if these can be regularised in such CRZ areas. They said that offices and other buildings of brick kilns can easily be kept out of
- b. Another major observation was that at the crossing of the Jamtala-Kukurkhali Road and Kaikhali Road Junction of Jalabaria Mouza of Kultali Block (Northern Part) of South 24 Parganas, a small portion comes under the No Development Zone of CRZ III. There is however important permanent structures like school, college, masjid, market, brick kiln, etc. The local persons here requested to make this small area as CRZ II as there are already existing permanent development structures here. It was clarified that public utilities such as School, dispensary, rain shelters, roads, bridges, jetties and the like are permissible in NDZ areas.

The brick kiln owners asked if brick drying can be performed in NDZ areas of river front. It was clarified that activities which do not require any sort civil construction can be done

The participants were of the opinion that for the security of life and property in Sundarban area, keeping NDZ of 100 mts is extremely necessary and development works can be taken up towards the landward side keeping leaving the NDZ of 100 mts.

Finally, it was stated that the points raised in the hearing would be placed before the Steering Committee for consideration before finalizing the CZMP.

Purba Medinipur 3.2.3

Current Activities 3.2.3.1

The following table lists the current land use pattern of the coastal blocks of the district 17:

Table 6: Current land use pattern of the coastal blocks of Purba Medinipur

Table 6: Current land use pattern of the coastal blocks of	Area (km²)	%Share
Land Use	526.27	35.43%
Agriculture (Double/Multi Crop)		

¹⁷ District Profile, Purba Medinipur, Land & Land Reforms Department, Government of West Bengal

Land Use	Area (km²)	%Share
Rural Settlement	330.37	22.24%
Agricultural (Single Crop)	296.14	19.94%
River	106.26	7.15%
Urban Settlement / Housing	37.88	2.55%
Scrub/ Wasteland	34.70	2.34%
Horticulture Plantation	32.84	2.21%
Aquaculture	27.74	1.87%
Industry (Red)	18.82	1.27%
Salt Pan	13.10	0.88%
Social Forestry	11.89	0.80%
Non-Polluting Industries	10.16	0.68%
Seaport Complex	7.88	0.53%
Lakes/Ponds / Tanks/Canal	6.36	0.43%
Forest	5.42	0.36%
Sandy Area	4.56	0.31%
Brick Kiln	3.82	0.26%
Tourism	3.75	0.25%
Inland Natural	2.77	0.19%
Proposed Industrial Area	1.56	0.11%
Acquired Land	1.23	0.08%
Public Utilities and Facility	0.67	0.05%
Educational Institute	0.42	0.03%
Recreational Area	0.37	0.02%
Commercial Area	0.10	0.01%
Transportation / Railway Complex	0.09	0.01%
Industry (Orange)	0.01	0.00%
Industry (Orange) Institutional (Government)	0.00	0.00%
Sports Complex	0.00	0.00%
Health	0.00	0.00%
Total	1485.18	100.00%

3.2.3.2 Details of Public Consultation

With reference to the CRZ Notification 2011 (Annexure-I, Para-IV), wherein it has been stated that the Draft Coastal Zone Management Plan shall have to be given wide publicity and suggestions and objections received in accordance with Environment (Protection) Act 1986. It further states that a public hearing shall have to be held at the district level by the concerned Coastal Zone Management Authority and based on suggestions and objections received the CZMPs shall be revised and approval of MoEF shall be obtained.

Accordingly, a Public hearing was held at Block Development Office of Ramnagar 1, Purba Medinipur on 5th December, 2017 by the West Bengal State Coastal Zone Management Authority in association with District Officials and the resident stakeholders of the area.

Key Points of the Public Hearing are as follows:

The meeting was jointly chaired by Chief Environment Officer, Department of Environment & Member Secretary, WBSCZMA and Addl District Magistrate (G), Purba Medinipur.

At the initiation, the Member Secretary of WBSCZMA and Chief Environment Officer gave the welcome address to the persons present in the public consultation providing a brief of the hearing procedure and requesting objections and suggestions to the Draft Coastal Zone Management Plan (CZMP).

The Senior Environment Officer also addressed the attendees elucidating the salient points of Coastal Regulation Zone Notification with special emphasis on the area and mentioned that the zonation has been done based on the HTL Line prepared by National Centre for Sustainable Coastal Management (NCSCM) added to the criteria provided in the notification for characterization of Zones. The names of the Mouzas appearing in the different zones do not imply that the entire Mouza comes under the said CRZ zone.

- The matter was further clarified through a power point presentation showing the Coastal Zones of West Bengal contained within the CRZ of the district and the coastal blocks which come under the CRZ.
- Further, each category of CRZ I, II, III (NDZ & other areas), IVA, IVB, Ecologically Sensitive Areas along with the process of identification as per the CRZ Notification 2011 was clarified and a detailed list of Mouzas in each category of the blocks was displayed.
- The stakeholders present were then requested to put forward their queries, views, objections and suggestions to draft plan which are listed as follows:
 - The Executive Officer of Digha Shankarpur Development Authority (DSDA) requested to keep Mandarmoni & Tajpur areas in CRZ II as there are already a lot of existing and proposed development projects within the CRZ zones. The Authority requested DSDA to look into the areas and put forth a proposal conforming to CRZ Notification 2011.
 - It was pointed out by the Executive Officer, DSDA that the demarcations of HTL and NDZ along the tidal influenced waterbodies are not in consonance with the Notification at places. It was brought to his notice that based on satellite imagery the CZMP has to be based on the High Tide Line provided by National Centre for Sustainable Coastal Management (NCSCM), the HTL was finalized and drawn by NSCSM. The NDZ was marked as per the Notification where the width of the tidal influenced waterbody was taken to be from HTL of one bank to the HTL of the opposite bank in case of river or
 - c. Sabhapati of Ramnagar 1 Panchayat samity stated that people in the coastal areas grow mangroves and enquired if the cultivated mangrove patches would be allowed to be felled for other projects in future. To this it was clarified that if the mangrove patches fall beyond CRZ areas, CRZ notification will not be applicable but other rules may apply.
 - d. Some persons expressed concern about whether existing dwelling houses will be demolished after the CZMP is in place and were informed that no such action will take place for existing dwelling units of local people in CRZ areas but they should not increase the built up area.
 - The Executive Officer of Digha Shankarpur Development Authority (DSDA) put forward that turtle nesting grounds along the coast of Digha in Ramnagar 1 Block has to be revised as there is no turtle nesting in this whole stretch. It was clarified that the map was produced by NCSCM from historical data but as presently the condition of the beach has changed and the beach is not suitable for nesting of turtles, so no turtle comes to the beach since long. The matter has already been communicated to NCSCM and the turtle nesting site will not be present in the CZMP of Digha.
 - Executive Officer, DSDA suggested to designate entire Digha Stretch as CRZ II because the area has already been developed.
 - Tajpur area was requested by DSDA to be revised and designated as CRZ II.
 - Many people belonging to fishermen community have built huts/kutchha/semi pucca in the CRZ areas. They requested that they should be allowed to build permanent masonry structures. It was clarified that the matter would be looked into within the ambit of CRZ Notification 2011.
 - In case of Mandarmoni, the one man stating himself to be spokesperson of the Dakshinbanga Matsyajibi Forum opposed the construction of Hotels & Lodges in Mandarmoni area and stated that they are causing damage to the beach as a result fish harvest is dwindling and fishermen are at peril. He requested the authority to consider the conditions of the local fisherman rather than the 80 lodges that are there. He urged the government to think of the overall socio economic development of the local people.
 - People also requested to put physical boundary demarcation of CRZs for ease of understanding in the field.
 - The hoteliers stated that there are hotels towards the north (landward side) of the sea side road in Kiagoria Mouza built before 1991. The authority informed that they should provide papers supporting these and submit to the department to designate these zones as CRZ II zones.
 - Executive Officer, DSDA stated that a tunnel aquarium proposal is there in Digha which may intrude into NDZ area. He was requested to place the details of the project as per CRZ Notification 2011.
 - The hoteliers stated that there are many hotels under construction at present south of the foreshore road in Ramnagar I block on the seaward side which needs to be considered.

The authority was of the view that any new construction of hotels within CRZ without CRZ clearance is not permissible.

n. One of the participants suggested that NDZ should be of 50m only like in Kerala.

o. One of the participants suggested that recent satellite images should be used for preparation of CZMP.

Fishermen have requested that those fishermen who have got funds under "Pradhanmantri Abas Yojana" should be allowed to construct houses under "Amar Bari" or "Pradhan Mantri Abasan Yojana" within CRZ.

The authority was of the view that the planning authority or DSDA should look into the matter and place the matter with all documents before the SCZMA.

q. The Gram Pradhan stated that Purushottampur name given in the map should be changed to Dakshin Purushottampur.

It was informed that the suggestions received at the public hearing would be placed before the Steering Committee for decision.

Map Interpretations 4

ThePlan consists of 1:25,000 scale maps of the entire area of the coastal stretches of the Coastal Zone Management Plan area of the state of West Bengal. The CZMP Plan consists of thre districts - North 24 Parganas, South 24 Parganas and Purba Medinipur of the state. The 31 coastal blocks thus included in the plan are as follows:

Purba Medinipur : Contai I, Contai II (Deshapran), Haldia, Khajuri I, Khajuri II,

Nandigram I, Nandigram II, Ramnagar I, Ramnagar II, Sutahata

North 24 Parganas: Haroa, Hasnabad, Hingalganj, Sandeshkhali I, Sandeshkhali II, Minakhan

South 24 Parganas: Basanti, Canning I, Canning II, Gosaba, Jaynagar I, Jaynagar II, Kakdwip, Kulpi, Kultali, Mathurapur I, Mathurapur II, Namkhana, Patharpratima, Sagar

The entire area has been divided into 73 grids for mapping purpose as directed by MOEF&CC with each grid measuring 7.5" x 7.5" on 1:25,000 scale. High Tide Line (HTL) has been provided by NCSCM as per CRZ 2011 Notification.Low Tide Line (LTL) has been drawn by IESWM of West Bengal.

Two types of maps have been prepared for this plan - Coastal Regulation Zone (CRZ) Maps and Land Use and Land Cover (LULC) Maps for all the 73 grids. A total of 146 maps have thus been prepared including all details as required. All maps of this CZMP have been provided separately in districtwise booklets and placed with the Plan.

As per the maps, 500m from the HTL has been demarcated as Coastal Regulations Zone. The CRZ Maps show the different CRZ Zones in each Grid with the Mouza boundaries overlaid and LULC Maps show the different Land Uses and land cover in each Grid with the Mouza boundaries overlaid.

In the Sundarban Reserved Forest area, regular inundation takes place hence coastal regulation zones for reserve forests could not be demarcated separately except the LTL.

It may also be noted that NCSCM is working on erosion prone areas. Hence, it is not being marked in the ICZM Plan maps at present prior to receipt of the same from NCSCM.

As significant development has taken place since the date of inception of the CRZ Notification and future urban development planned in the three Development Authority areas - Digha Sankarpur Development Authority (DSDA), Haldia Development Authority (HDA) and Gangasagar Bakhhali Development Authority (GBDA), the Coastal regulation zones falling in the coastal mouzas of these Development Authorities have been categorized as CRZ II zones.

Ecologically Sensitive Areas have been designated as CRZ IA as they are part of CRZ I as per the CRZ 2011 Notification.

Width of the creek definition has been applied for the CZMP Plan as per the CRZ 2011 Notification.

Buffer for mangroves has been provided all around of 50m as per notification though on the waterside this buffer is notional.

Maps have been provided in A2 size (districtwise) alongwith the CZM Plan. A1 size maps have also been provided been provided in hard as well as in soft copy in 1:25,000 scale. For ease of hard copy print submission, A2 size maps are hence of a relative scale.

Interpretation of Purba Medinipur Maps: 4.1

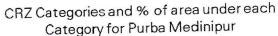
Coastal Blocks of Purba Medinipur where CR Zones fall include the following map grids:

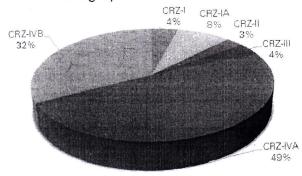
Coastal blo	cks of Purba Medimpur where c	Grid No.	Blocks of Purba Medinipur
Grid No.	Blocks of Purba Medinipur	NAMES OF TAXABLE PARTY.	The state of the s
SE73O6	Ramnagar I	SE73O13	Deshopran & Khajuri II
101		SW79C1	Khajuri II& Sagar (South 24 P)
73010SW	Ramnagar I		
73010NW	Ramnagar I & II	NE7309	Khajuri I

			Khajuri I & II, Deshopran,
NE73O10	Ramnagar I & II, Contai I	73O13NW	Nandigram II
73014NW	Contai I & Deshopran	NE73O13	Khajuri I & II, Nandigram I & II
730141444	Contain a Decireption		Nandigram I, Khajuri II& Sagar
73013SW	Deshopran	NW79C1	(South 24 P)
			Nandigram I, Haldia, Haldia
SE73N16	Nandigram I & II & Haldia	SW79B4	Municipality, Sutahata
			PHaldia, Haldia Municipality,
SE79B4	Haldia Municipality, Sutahata& Kakdwip, Kulpi (South 24 P)	NW79B4	Sutahata
	Haldia Municipality Sutahata&		
NE79B4	Haldia Municipality, Sutahata& Kulpi (South 24 P)		

CRZ Zones in Purba Medinipur 4.1.1

The district's CRZ zone have areas mapped according to each category and area has been calculated. The maps show that in the 11 coastal blocks 12% of the total area is falling CRZ ١ between the HTL & the LTL& CRZ IA the areas that are ecologically and sensitive geomorphological features which play a role in the maintaining





the integrity of the coast, 3% of the land falls in CRZ II mainly comprising of DSDA area and HDA area along with some other areas of urban settlements. 4% of the land is falling in CRZ III & No Development Zone from HTL to 500 m and the remaining 80% of the area falls in CRZ IVA which is the water area from the Low Tide Line to twelve nautical miles on the seaward side & IVB including the water area of the tidal influenced water body from the mouth of the water body at the sea upto the influence of tide which is measured as five parts per thousand during the driest season of the year.

Proposed development activities 4.1.2

There is a Proposed Port at Tajpur of Ramnagar I Block of Purba Medinipur as seen in Map Grid NE73O10.

There is also Proposed Installation of H. energy in Sutahata Block of Purba Medinipur as seen in Map Grid 79B4NW.

These have been marked explicitly in the CZMP Plan.

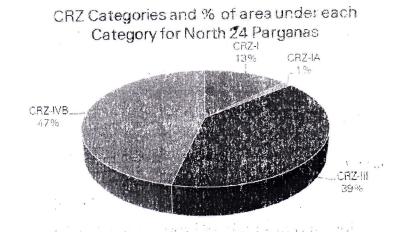
Interpretation of North 24 Parganas Maps: 4.2

Coastal Blocks of North 24 Parganas where CRZ Zones fall include the following map grids:

Coastal bloc	CRS Of North 241 digards	Grid No.	Blocks of North 24 Parganas
Grid No.	Blocks of North 24 Parganas	FRANCISCO STATE OF STREET STREET	
SE79B10	Haroa, Minakhan	79B15SW	Sandeshkhali I & II
	Haroa, Minakhan, Hasnabad	SE79B15	Sandeshkhali II, Hingalganj
79B14SW		SW79F3	Hingalganj
SE79B14	Hasnabad		4
NE79B11	Minakhan, Sandeshkhali I	NE79B16	Hingalganj
79B15NW	Minakhan, Sandeshkhali I & II	NW79F4	Hingalganj
NE70B15	Sandeshkhali I & II, Hingalganj		
METODIO	Carractina		

4.2.1 CRZ Zones in North 24 Parganas

The district's **CRZ** have been areas mapped according to category and each been has area calculated. The maps show that in the 6 coastal blocks 14.31% of the total area is in CRZ I falling between the HTL & the LTL & CRZ IA the areas that are ecologically sensitive and geomorphological features which play a role in the maintaining



the integrity of the coast, 0.03% of the land falls in CRZ II mainly comprising of urban settlement areas at the block centers. A majority of the CRZ area amounting to 39.3% of the land is falling in CRZ III & No Development Zone from HTL to 500 m and the remaining 46.36% of the area falls in CRZ IVB including the water area of the tidal influenced water body from the mouth of the water body at the sea upto the influence of tide which is measured as five parts per thousand during the driest season of the year.

4.3 Interpretation of South 24 Parganas Maps:

Coastal Blocks of South 24 Parganas where CRZ Zones fall include the following map grids:

Grid No: Blocks of South 24 Parganas Grid No: Blocks of South 24 Parganas

SE79C2 Sagar & Namkhana SW79C6 Namkhana & Patharpratima

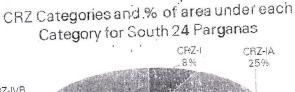
Patharpratima & Kultali 79C10SW Kultali

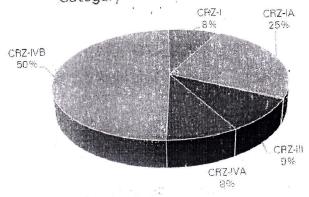
SE79C2	Sagar & Namknana	3441800	Namikhana ox r amarproning
SE79C6	Patharpratima & Kultali	79C10SW	Kultali <u>*</u>
SE79C10	Kultali & Gosaba (Forest Block)	79C14SW	Gosaba (Forest Block)
SE79C14	Gosaba (Forest Block)	SW79G2	Gosaba (Forest Block)
N/479G2	Gosaba (Forest Block)	NE79C14	Goseba (Forest Block)
79C14NW	Gosaba (Forest Block)	NE79C10	Gosaba (Rorest Block) & Kultali
79C10NVV	Kultali	NE79C6	Patharpratina & Kultali
NW7906	Namkhana & Patharpratima	NE79C2	Sagar & Namkhana
NW79C2	Sagar	SW79C1	Sagar & Khəjuri II (Purba Mədinipur)
SE79C1	Sagar, Kakdwip, Namkhana	SW79C5	iKakdwip, Namkhana, Patharoratima
SE79C5	Patharpratima & Kultali	SW79C9	Kultali, Patharpratima
SE79C9	Kultali, Gosaba (Forest Block)	79C13SW	Gosaba (Forest Block)
SE79C13	Gosaba (Forest Block)	SW79G1	Gosaba (Forest Block)
NW79G1	Gosaba (Forest Block)	NE79C13	Gosaba (Forest Block)
79C13NW	Gosaba (Forest Block)	NE79C9	Gosaba (Forest Block), Kultali,
			Basanti
NW79C9	Kultali, Mathurapur II, Jaynagar II	NE79C5	Mathurapur, Patharpratima
NW79C5	Kulpi, Kakdwip, Patharpratima, Mathurapur I	NE79C1	Kakdwip, Kulpi, Sagar
SE79B4	Kakdwip, Kulpi & Haldia	NE79B4	Kulpi & Sutahata (Purba
	Municipality, Sutahata (Purba Medinipur)	F 7. 7	Medinipur)
SW79B8	Kulpi, Mathurapur I	SE79B8	Mathurapur I & II, Jayriagar
79B12SW	Jaynagar II, Kultali	SE79B12	Kultail, - Basanti, - Gosaba.
			Gosaba (Forest Block)
79616SW	Gosaba, Gosaba (Forest Block)	SE79B16	Gosaba, Gosaba (Forest Block)
-S\\79F4	Gosaba (Forest Block)	NW79F4	Goseba (Forest Block) &

NE79B16 NE79B12 79B11SW 79B15SW NE79B11	Gosaba, Gosaba (Forest Block) & Hingalganj (North 24 P) Basanti, Canning I, Kultali Jaynagar I, Canning I&II Canning II, Basanti, Gosaba & Sandeshkhali II (North 24 Parganas) Canning II & Minakhan, Sandeshkhali I (North 24 Parganas)	79B16NW 79B12NW SE79B11 79B15NW	Hingalganj (North 24 P) Gosaba, Gosaba (Forest Block), Basanti Kultali, Jaynagar I&II, Canning I Canning I&II, Basanti Canning II & Sandeshkhali I (North 24 Parganas)
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CRZ Zones in South 24 Parganas 4.3.1

The district's CRZ areas mapped been have each according to category and area has calculated. been maps show that in the 6 coastal blocks 32.90% of the total area is in CRZ I falling between the HTL & the LTL & CRZ IA the areas that are ecologically and sensitive geomorphological features play a role in the maintaining the integrity of the coast.





This is mainly because of the Sunderban Reserve Forest area which forms a major part of this district and is in addition to the coastal administrative blocks. 0.28% of the land falls in CRZ II mainly comprising of urban settlement areas at the block centers and the Gangasagar Bakkhali Development authority (GBDA) area. 9% of the land is falling in CRZ III & No Development Zone from HTL to 500 m and the remaining 58% of the area falls in CRZ IVA which is the water area from the Low Tide Line to twelve nautical miles on the seaward side &IVB including the water area of the tidal influenced water body from the mouth of the water body at the sea upto the influence of tide which is measured as five parts per thousand during the driest season of the year. This is again mainly because of the Sunderban Reserve Forest area which forms a major part of this district and hence is beyond the coastal blocks.

Proposed development activities 4.3.2

There is a Proposed Coast Guard Base at Frazerganj in Namkhana Block of South 24 Parganas as seen in Map Grid 79C6SW. This proposed base falls under CRZ II as it is part of the GBDA

There is also a Proposed Port (Marine Industrial Cluster) at Kulpi of South 24 Parganas as seen in Map Grid 79B4SE.

These have been explicitly marked in the CZMP map.

5 Way Forward

This CZMP for West Bengal supersedes the CZMP of 1996. The maps have been prepared with accuracy and georeferenced. The various categories have been precisely demarcated.

The CZMP will guide activities to be taken up in the coastal areas of West Bengal. It will be the base document upon which all decision making for coastal zone activities will be made.

As stipulated, the maps have been prepared in 1:25,000 scale.

All intending project proponents in coastal areas, who apply to the West Bengal State Coastal Zone Management Autority for clearance shall have to prepare maps in 1:4000 scale based on the maps prepared in this CZMP.

The CZMP will be made available with District level committee headed by District Magistrate where it can be used for consultation and interpretation. The CZMP will also be available on the website of the department.

The next step for the State will be to prepare local level maps in 1:4000 scale for more accurate local level demarcation of CRZ categories. This exercise will be taken up after notification of the CZMP. Once the local level maps are in place, interpretation would become easier and more accessible. Local bodies and otheragencies would be able to use maps for implementation of the CRZ Plan.

The local level CZM Maps will be prepared by engaging the authorized agency viz. IESWM.

The cadastral maps as procured from the Land and Land Records Department, Government of West Bengal would be georeferenced and the HTL and LTL will be demarcated on the said maps based on detailed physical verification using coastal geomorphological signatures or features in accordance with the approved CZM Maps.

HTL (as defined in the CRZ notification, 1991) and LTL will also be demarcated along the banks of tidal influenced inland water bodies with the help of geomorphological signatures or features.

Classifications shall be transferred into local level CZM maps from the CZM Plans.

In future it is expected that greater delegation would be made to the district level committee already constituted under the chairmanship of the District Magistrate concerned for enforcement of CRZ regulations and monitoring of development work in coastal areas.

Annexures A

List of petroleum and chemical products permitted for storage in [CRZ except CRZ-I(A)]

- 1. Crude oil;
- 2. Liquefied Petroleum Gas;
- 3. Motor spirit;
- 4. Kerosene;
- 5. Aviation fuel;
- 6. High speed diesel;
- 7. Lubricating oil;
- 8. Butane;
- 9. Propane;
- 10. Compressed Natural Gas;
- 11. Naphtha;
- 12. Furnace oil;
- 13. Low Sulphur Heavy Stock;
- 14. Liquefied Natural Gas;
- 15. Fertilizers and raw materials for manufacture of fertilizers.

.2 Letter informing absence of Turtle Nesting
Ground in Digha Coastal Belt & Sea Grass in
Sunderbans

WEST BENGAL STATE COASTAL ZONE MANAGMENT AUTHORITY

Pranisampad Bhaban, 5th Floor, Block-LB-2, Sector-III, Sait Lake, Kolkata - 700 106

Telefax No. 033 2335 5246

Email - environmentwb@gmail.com Website: www.environmentwb.gov.in

No. 2174 /EN/T-II-4/017/2016

Date: 25, September, 2017

To : Dr. R. Ramesh

Director

National Centre for Sustainable Coastal Management

Anna University Campus, Chennai-600025

Sub: Shape files on ESA

Sir,

While working on the ESA maps provided by you it was found that areas near Digha in West Bengal coast have been recorded as 'turtle nesting site'. Though in ancient times some turtles used to lay eggs in the sandy beaches near Digha, but presently no turtle comes to Digha due to the changed beach conditions, and the possibility of furtle breeding in near future is also remote. Under the circumstances it is requested that such historical data does not reflect the actual conditions at present and should be discarded.

Secondly, at a place viz. Sushnichar in South 24 Parganas, area has been marked as sea grass. It may kindly be noted that there is no presence of sea grass in West Bengal coast rather the area contains Salt marsh grass (Porturacia quarctata) locally known as Dhani grass. Hence, the map also needs correction accordingly. A copy of notes from renowned Expert Member Prof. Amalesh Chowdhury, Ex-Head of the Deptt., Marine Science, Calcutta University in this aspect is forwarded herewith for taking kind necessary action at your end and intimation to this office in due course.

Yours faithfully,

301

(Arnab Roy) Principal Secretary

Chairman,

West Bengal State Coastal Zone Management Authority

Encl. as mentioned

No.2174 /EN/T-II-4/017/2016/1(1)

Date: 25 - September, 2017

Copy forwarded for information to:

The Secretary, Ministry of Environment Forests & Climate Change Government of India

(Arnab Roy)

Principal Secretary

80 Chairman,

West Bengal State Coastal Zone Management Authority

..3 Formation of Working Committee and Steering Committee for the preparation of CZMP of West Bengal

GOVERNMENT OF WEST BENGAL DEPARTMENT OF ENVIRONMENT FD-415A, 4TH FLOOR, POURA BHAVAN SALT LAKE, SECTOR - III, KOLKATA - 700 098

No. 2795 / EN/T-II-4/001-iii/2003/2013

Office Order

19/12/2016 Date:

Whereas the Ministry of Environment, Forests and Climate Change, vide their notification no.SO.19(E) dated 6th January, 2011, defined the coastal regulation zones and imposed restrictions on setting up and expansion of industries, operations and processes and the like in the CRZ, ,and

Whereas, in accordance with the same notification, the state governments are required to prepare coastal zone regulation management plans for such areas, incorporating the provisions of the said notification, and

Whereas, it is felt necessary that involvement of different concerned Departments District Authorities and agencies of the of the State Government is necessary for preparation and implementation of the CRZ Plan for the State, and

Whereas the Department of Environment, Government of West Bengal, is primarily responsible for coordination of preparation and implementation of the CRZ plan for West Bengal,

It is felt expedient to constitute a Steering Committee and one Working Committee for preparation of the CRZ Plan for the State, with the following Composition:-

Steering Committee :-

The Steering Committee shall comprise:-

- 1. Principal Secretary, Environment Department and Chairman, WB State Coastal Zone Management Authority — Chairman
- 2. Principal Secretary, Sunderban Affairs Department or his authorized representative
- 3. Secretary, Municipal Affairs Department or his authorized representative,
- 4. Principal Secretary, Forest Department or his authorized representative
- 5. Principal Secretary, Panchayat & Rural Development Department or his authorized representative
- 6. Additional PCCF & Director, Sunder ban Biosphere Reserve, Directorate of Forests
- 7. Representative of Additional Chief Secretary, Urban Development Department
- 8. Director, IESWM 9. Principal Secretary, Tourism Department or his authorized representative
- 10. Secretary, Fisheries Department or his authorized representative
- 11. Principal Secretary & LRC, Land & Land Reforms Department or his authorized representative
- 12. Principal Secretary , Commerce and Industries Department or his authorized representative
- 13. Member Secretary, West Bengal Pollution Control Board
- 14. District Magistrate, 24 Parganas North District
- 15. District Magistrate, 24 Parganas , South District
- 16. Chief Environment Officer, Department of Environment--- Member Secretary

The Working Committee shall comprise the following members:-

- 1. Chilef Environment Officer Chairman
- 2. Senior Environment Officer, Department of Environment
- 3. Additional Project Director, Integrated Coastal Zone Management Project & Addl. Director, IESWM
- Representatives of GIS group, IESWM, to be nominated by the Director IESWM.
- 5. One Senior Scientist of DST, to be nominated by ACS, Department of Science & Technology
- 6. Dr. Parthasarathy Chakraborti, Member, State Coastal Zone Management Authority

7. Dr. Amalesh Chowdhury, Member, State Coastal Zone Management Authority

The Steering Committee shall be responsible for:-

- 1. Framing policy decisions for preparation of CRZ plan, consistent with the provisions of the said notification and State Government decisions / directions
- Policy regarding identification of areas which will fall under CRZ I, CRZ II, CRZ III and CRZ IV as per criteria defined in the Notification, mentioning the coordinates of the areas
- 3. Indicating existing / proposed area development plans for the coastal moujas for areas falling within Coastal regulation zones, and finalizing the activities which may be taken up with the CRZ in keeping with the provisions of the Coastal Regulation Zone Notification, 2011. Preparation of Draft Coastal Zone Management Plan for submission to the State Government in Department of Environment along with the CRZ map to be prepared by the Working Committee for scrutiny and onward submission to the State Coastal Zone Management Authority.

The Working Group shall be responsible for ;-

- Demarcation and plotting of HTL (as given by NCSCM) and LTL in 1:25000 scale
- Identifying and classifying the CRZ areas as per direction of the Steering Committee

3. Plotting of Ecologically Sensitive Area (as given by NCSCM)

4. Representing different CRZ areas by different colour codes on the CRZ map as defined in the CRZ notification.

Both the Committees may invite any other member to the Committee if the need arises. The GIS team of IESWM will be responsible for preparation of the maps as per policy decision taken by the Steering Committee and as guided by the Working Group. Other Departmental Agencies may also be engaged as and when found necessary.

The Committees shall submit the Draft CRZ Plan within a period of one month

(Arnab Ray)

Principal Secretary to the Government of West Bengal

No. 2195 / EN/T-II-4/001-III/2003/2013

Date: 19 /11/2016

Copy forwarded for information and necessary action to :-

- The Principal Secretary, Sunderban Affairs Department.
- The Secretary, Municipal Affairs Department 2.
- The Principal Secretary, Forest Department.
- The Principal Secretary, Panchayat & Rural Development Department.
- 5. The Additional PCCF & Director, Sunder ban Biosphere Reserve, Directorate of Forests
- 6. The Additional Chief Secretary, Urban Development Department
- 7. The Director, IESWM
- 8. The Principal Secretary, Tourism Department.
- The Secretary, Fisheries Department.
- 10. The Principal Secretary & LRC, Land & Land Reforms Department.
- 11. The Principal Secretary , Commerce and Industries department.
- 12. The Member Secretary, West Bengal Pollution Control Board
- 13. Dr. Parthasarathy Chakraborti, Member, State Coastal Zone Management Authority
- 14. Dr. Amalesh Chowdhury, Member State Coastal Zone Management Authority
- 15. The District Magistrate, 24 Parganas North District
- 16. The District Magistrate, 24 Parganas, South District
- 17. The Chief Environment Officer, Department of Environment

Principal Secretary to the Government of West Bengal

.4 Minutes of meetings of Public Consultations

Public Hearing of Draft Coastal Zone Management Plan of West Bengal 5" December 2017 from 01.80 pm = 03.00 pm or Rubinagar I Block. Purba Medinippin

With reference to the CRZ Notification2811 (Annuxure-I. Para-IV), wherein it has been stated that the Draft Coastal Zone Management Plan shall have to be given wide publicity and suggestions and objections received in accordance with Environment (Protection) Act 1986, it further states that a public hearing shall have to be held at the district level by the concerned Constal Zone Management. Authority and based on nave to be near at the trivities received the CZMPs shall be revised and approval of MoEF shall be obtained.

Accordingly, a Public hearing was held at Block Development Office of Ramnagar 1, Purba Medinipur on December 2017 by the West Bongal State Coastal Zone Management Authority in assessment with District Officials and the resident stakeholders of the area.

Key Points of the Public Hearing are as follows:

- The meeting was jointly chaired by Chief Environment Officer, Department of Environment & Member Secretary, WBSCZMA and Addl. District Magistrate (C), Purba Medinipur.
- At the initiation, the Member Secretary of WBSCZMA and Chief Environment Officer gave the The persons who participated in the hearing is annused. welcome address to the persons present in the public consultation providing a brief of the hearing procedure and requesting objections and suggestions to the Draft Coastal Zone Management Plan
- The Senior Environment Officer also addressed the attendoes elucidating the solion points of Coastal Regulation Zone Notification with special emphasis on the area and mentioned that the zonation has been done based on the HTL Line prepared by National Centre for Sustainable Coastai Munugement (NCSCM) added to the criteria provided in the notification for characterization of Zones. The names of the Monzas appearing the different zones do not imply that the come Viones
 - The matter was further clarified through a power point presentation showing the Coastal Zones of West Bengal contained within the CRZ of the district and the coastal blocks which come under the
 - Further, each category of CRZ L II, III (NDZ & other areas), IVA, IVB, Leologically Sensitive Area along with the process of identification as per the CRZ Notification 2011 was clarified and a detailed list of Mouzas in each category of the blocks was displayed.
 - The stakeholders present were then requested to put forward their queries, views, objections and suggestions to draft plan which are listed as follows:
 - The Executive Officer of Diglin Shankarpar Development Authority (DSDA) requested a keep Mandaemoni & Tajpur areas in CRZ II as there are already a lot of existing and proposed development projects within the CRZ zones. The Authority requested DSDA to look into the areas and put forth a proposal conforming to CRZ Notification 2011.
 - It was pointed out by the Executive Officer, DSDA that the demarcations of HTL and ND/ giong the tidal influenced waterbodies are not in consonance with the Notification of places. It was brought to his notice that based on smellire imagery the CZMP has to be based on the High Tide Line provided by National Centre for Sustainable Coastai Management(NCSCM). The HTL was finalized and drawn by NCSCM. The NDZ was marked as per the Notineatton whose the width of the tidal influenced waterbody was taken in m from HTL of one bank to the HTL of the opposite bank in case of river or arcsk.

Cont

- Subhapati of Ramnagar | Panchavai saminy stated that propple in the coastal areas grow mangroves and enquired if the oplicated mangrave patches would be altowed to be felled for other projects in future. To this it was clarified that if the many rave patches fall beyond (R) areas, CRZ notification will not be applicable but other rules may apply
- Some persons expressed concern about whether existing dwelling nonnes will be demolished after the CZMP is in place and were informed that no such action will take place for evision dwelling units of local people in GRZ areas but they should not increase the built up area.
 - The Executive Officer of Digha Shankarpur Development Authority (DSDA) put forward that turtle nesting grounds along the coast of Dighs in Ramnagar 1 Block has to be revised as there is no turke nesting to this whole stretch. It was clarified that the map was produced by NCSCM from historical dam but as presently the condition of the beach has changed and the beach is not suitable for nesting of turtles, so no turtle comes to the beach since. I have The matter has already been communicated to NCSCM and the turtle nesting site will not be present in the CZMP of Digha
 - Executive Officer, DSDA suggested to designate entire Digha Stretch as CR7 II because the area has already been developed.
 - Tappur area was requested by DSDA to be rovised and designated as CRZ II.
 - Many people belonging to fishermen community have built hins kutchhalsem puesa in the CRZ areas. The requested that they should be allowed to build permanent masseur-

It was clarified that the matter would be looked into within the ambit of CRI Notification structures

- In case of Mandarmont, one of the participants, sinting himself to be spekesperson for the Dakshinbanga Matsvajibi Forum opposed the construction of Honels and Longres Mandarmonf area and stated that such constructions are causing damage to the beach as a result fish harvest is dwindling and fishermen are at peril. He requested the authority to consider the conditions of the local fisherman rather than the 80 lodges that are there. He arged the government to think of the overall socio economic development of the local people
 - People also requested to put physical boundary dominentian of CRZs for case of understanding
 - The holeliers stated that there are horets towards the north (Landward side) of the sea side roar in Klagoria Mouza built before 1991,

The authority informed that they should provide documents supporting such claims to the department to designate these zones as CRZ II zones.

Executive Officer, DSDA stated that a tunnel aquarium proposal is there in Digha which may intrude into NDZ area. He was requested to place the details of the project to pur CRY Notification 2011.

Coastal Zone Management Plan, West Bengal

m. The hoteliers stated that there are many hotels under construction at present south of inc Toreshore road in Rammagur Polinck on the scaward side which needs in he considered

The authority was of the view that any transconstruction of hotels within URA without I RA clearance is not permissible.

- p. One of the participants suggested that NDZ should be of 50 m only like in Kerala. One of the puricipants suggested that recent satellite images should be used for preparation of
- p. Fishermen have requested that those fishermen who have got funds under. "Production and Volume, nave requested the construct bouses under. Andr Ban or "Pradian Mante Abasia"

The authority was of the view that the planning authority or DSDA should look into the matter Yojana within CRZ. and place the matter with all documents before the SCZMA.

The Grain Pradhas stated that Purushottampur name given in the map should be changed a

It was informed that the suggestions received at the public hearing would be placed before the Sterrog-

the written comments given by DSDA and the Dakshinbanga Matsyajibi Forum use disc annexed surrounds Committee for decision.

Additional District Magistrate(O) Perba Medinipur

Addl. District Magistrate (G) Purba Medinipur

Chief Environment (1890)

Momber Secretary
West Bengal State Coastal Zone Management Authority

Public Hearing of Draft Coastal Zone Management Plan of West Bengal Minutes of Meeting

7th December 2017 from 12:00pm -02:30 pm at Basirhat SDO Office, North 24 Parganas

With reference to the CRZ Notification 2011 (Annexure-I, Para-IV), wherein it has been stated that the Draft Coastal Zone Management Plan shall have to be given wide publicity and suggestions and objections received in accordance with Environment (Protection) Act 1986. It further states that a public hearing shall have to be held at the district level by the concerned Coastal Zone Management Authority and based on suggestions and objections received the CZMPs shall be revised and approval of MoEF should be obtained.

Accordingly, a Public hearing was held at the Office of the Sub Divisional Officer, Basirhat, North 24 Parganas on 7th December, 2017 by the West Bengal State Coastal Zone Management Authority in association with District Officials and the resident stakeholders

Key Points of the Public Hearing are as follows:

1. The meeting was jointly chaired by Addl District Magistrate (LR), North 24 Parganas and Chief Environment Officer & Member Secretary, WBSCZMA. The Sub-Divisional Officer, Panchayat Samity Members, Panchayat members and other officers of the District administration were also present during the process. The detailed list of

At the initiation, the Member Secretary of WBSCZMA and Chief Environment Officer welcomed the participants to the public consultation providing a brief of the hearing procedure and inviting objections and suggestions to the Draft Coastal Zone Management Plan (CZMP).

3. The Senior Environment Officer addressed the participants and explained the salient points of Coastal Regulation Zone Notification with special emphasis on the district and mentioned that the zonation has been done based on the HTL Line prepared by National Centre for Sustainable Coastal Management (NCSCM) and the criteria provided in the notification for characterization of Zones. The names of the Mouzas appearing in the different zones do not imply that the entire Mouza

comes under the said CRZ zone. 4. The matter was further clarified through a power point presentation showing the Coastal Regulation Zones of the district and the coastal blocks which come under

5. Further, each category of CRZ I, II, III (NDZ & other areas), IVA, IVB, Ecologically Sensitive Areas, the process of identification as per the CRZ Notification 2011 was clarified and a detailed list of Mouzas in each category of the blocks was displayed.

6. The stakeholders present were then requested to put forward their queries, objections and suggestions which are listed below:

a. ADM (LR), North 24 Parganas pointed out that there are a number of old settlement areas in Haroa, Minakhan etc which have been developed long back and as such those areas should be placed under CRZ II.

b. He requested all Panchayat Samities and people of the district to take up development activities 100 m away from the HTL of the rivers as a thumb rule. So that the development work do not come in conflict with CRZ areas and permissions for the developmental projects become smooth.

c. It was explained that any development activity within 100 mt or width of the creek, whichever is less from the HTL will have to be recommended by the State Coastal Zone Management Authority (SCZMA).

d. 5DO, Basirhat pointed out that permission for STP within the NDZ (100 mts or width of the creek whichever is less) can be given but not dumping of

e. The panchayat representative of Sandeshkhali I stated that mouzas like Kalinagar, Kanmari, Nyajat, Gajalia, Baunia Abad, Dakshin Akhratala have substantial areas already developed within CRZ zones. They may be redesignated as CRZ II. The Authority was requested to go through the same prior to finalization of the CZMP.

Same was the case of Bermajur, Dhamakhali Mouzas under Sandeshkhali II having large number of guest houses as opined by the panchayat representatives of Sandeshkhali II and needs to be designated as CRZ II. The Authority was requested to go through the same prior to finalization of the

CZMP.

Finally ADM (LR) stated that there was not much problem in the district as the requirement of the district is primarily confined to roads, bridges, jetties, rain shelters and the like. He further requested the authority to bring the rules of CRZ to the notice of the Sundarban Development Board as they also construct road, bridge, jetties, tube well and other structures in the district.

It was stated that the points raised by the participants will be placed before the steering committee before finalization of CZMP.

The meeting ended with thanks to the chair.

Additional District Magistrate (LR),

North 24 Parganas

Chief Environment Officer,

Member Secretary, West Bengal State Coastal Zone Management Authority .5 Notifications on Area of Development Authorities

No. WB(Part-I)/2018/SAR-169





Gazette

Extraordinary
Published by Authority

CAITRA 10]

SATURDAY, MARCH 31, 2018

[SAKA 1940

PART I—Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

GOVERNMENT OF WEST BENGAL

Department of Urban Development & Municipal Affairs
Town & Country Planning Branch
"Nagarayan"

DF-8, Sector-I, Bidhannagar,
Kolkata - 700 064

No. 932-T&CP/C-2/2L-7/2001

Dated, Kolkata, the 29th March, 2018

NOTIFICATION

WHEREAS, in exercise of the power conferred by section 11(1) of the West Bengal Town and Country (Planning and Development), Act, 1979 (West Bengal Act XIII of 1979), Haldia Development Authority has been constituted as a and Development). Act, 1979 (West Bengal Act XIII of 1979), Haldia Development Authority has been constituted as a statutory body vide this Department's Notification No. 1875-T&CP/1R-6/80 dated 17th March, 1980. Haldia Development statutory body vide this Department's Notification No. 1875-T&CP/1R-6/80 dated 17th March, 1980. Haldia Development Authority was extended twice vide 354-T&CP/C-2/2L-7/2001(I) dated 16th February, 2004 and 288-T&CP/C-2/2L-7/2001 dated 13th February, 2013.

AND, WHEREAS, the State Government has decided to declare certain other areas adjacent to the existing Planning Area of Haldia Development Authority to be the "Planning Area" for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979).

NOW, in exercise of the power conferred by section 1(3) of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), the Governor is pleased hereby to appoint the day of issue of this Notification as the date on which the said Act, shall come into force in the area described in the Schedule.

AND, WHEREAS, in exercise of the power conferred by sub-section (1), read with sub-section (2) of section 9 of the said act, the Governor is pleased hereby to declare the said area, the limits of which have been defined in the Schedule to be a "Planning Area" for the purpose of the said Act.

NOW, THEREFORE, in exercise of the power conferred by sub-section (3) of the Section 9 of the West Bengal Town and Country (Planning and Development) Act, 1970 (West Bengal Act XIII of 1979), the Governor is hereby pleased to include the abovementioned "Planning Area" which have been defined in the schedule, into the existing pleased to include the abovementioned "Planning Area" which have been defined in the schedule, into the existing pleased to include the abovement Authority already declared as such under the Department's Notification No. 1875-Planning Area of Haldia Development Authority already declared as such under the Department's Notification No. 1875-Planning Area of Haldia Development (Planning & Development) T&CP/1R-6/80 dated 17th March, 1980, for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979, (West Bengal Act XIII of 1979), with immediate effect.

SCHEDULE

		Police Station	Name of Mouza	J.L. No.	Area (in acre)
I. No.	Block		Dihirinchi 🚜	1	535.62
1	Khejuri - I	Khejuri	Dakshin Kalamdan	2	1509.94
2	**************************************	age control definitions	Alichak	3	1150.54
3		cation and place of the		4	914.94
4			Kanthibari	5	143.65
5			Kankuriya	6	1329.03
6			Patna	- 7	132.22
7		-	Kulthajagannathchak		946.6
8	1	and the state of t	Kultha	8	937.23
9		economical designation of the control of the contro	Ajaya	9	1434.38
10		survivine sections	Chingurdaniya	10	92.1
11	-	profit and their str	Aliamjadchak	11	
12	1		Amjadnagargolakpatra	12	494.25
****************	-	Description of the control of the co	Thakurchak	13	174.95
13			Jahanabad	14	1385.54
14	-		Kalagechhya	15	456.14
15	_		Kamarda	16	2117.93
16		and the second s	Deulpota	17	654.06
17		was differences	Golabari	19	356.94
18		association de la constantina della constantina	Kotari	24	282.74
19		and it is the second	Bahargaj	26	384.87
20			Keunchiya	3.1	286.53
21			Balichak	121	251.53
22			The second secon	122	765.42
23		00000000000000000000000000000000000000	Bajbajiya Krishnagar	123	1456.51
24		Control of the Contro	Mukutshiia	124	620.00
25			Debichak	125	437.64
26		a secundades	Mohati	126	864.87
27				127	292.18
28		ssistanden del visi	Khard	128	813.29
29		o constantina de la constantina della constantin	Jararnagar	129	57.59
30		a contract of the contract of	Dakshîn Gobindachak	130	203.18
- 31			Shyamchak	131	977.81
32			Henriya Atmaramchak	The second secon	322.77
33		Agen doubles.	Bikramnagar	132	195.94
34		Rosenstation	Kallachak	133	
35		#	Thakurnagar	134	1808.86
-		Villa constant of the Constant	Lakshmi .	135	2713.03
36		v. Albert (prosted)	Suruliyachak	136	56.04
35			Mitrachak	137	235.19

PART []

THE KOLKATA GAZETTE, EXTRAORDINARY, MARCH 31, 2018

SL No.	Block	Police Station	Name of Mouza	J.L. No.	Area (in acre)
39	Khejuri - I	Khejuri	Tikasi	138	2549.4
40			Uttar Kalamdan	139	1603.39
41		Section of the sectio	Chhatnabari	140	112.49
42			Kamdebnagar	141	800.82
	**************************************	TOTAL Area (Ki	nejuri -l) = 32858.15 Acre (13	2.9723 sq.km)	
St. No.	Block	Police Station	Name of Mouza	J.L. No.	Area (in acre)
1	Khejuri - II	Khejuri	Keshabehak	18	335.00
2			Dekhali	· 20	2823.63
3	****		Haludbari	21	872.01
4	Andrew Control of the	The second of th	Jagannathchak	22	278.62
5		and the contraction of the contr	Narsullyachak	23	152.40
6	sooy our control of the control of t		Maldaha	25	844.94
	300- 3 00-300-300-300-300-300-300-300-300-300	**	Sherkhanchak	27	1733.00
7	-	and a second	Uttar Pankhai	28	1090.96
8	****	William Control	Baratala	29	1210.01
9	•		Ramchak	30	548.18
10	•			32	163.48
11			Garrang Choddachulli	33	1031.44
12		sonal illinous	Secretaria de la constitución de	34	841.22
13		and the same	Mundamari	35	806.77
14		oorare Galanna	Kartik Khali	36	612.13
15		disease market de	Medakhali		495.21
16		ope Guellere	Kastala	37	159.08
17		Control Microsoft	Piripur	38	374.65
18		Samuel Service	Kunjapur	39	
19		Approximation of the state of t	Hemantachak	40	182.32
20		in second control of the second control of t	Sarkumari	41	83,44
21			Talpat	42	24.68
22		(Dipplip)	Mansingbber	43	178,54
23			Chaturbhujchak	44.	67.04
24			Pukuria	45	184.18
25			Barkasaria	46	371.82
26		*	Satkhanda Sahebnagar	47	383.10
27		- Or a second se	Sahehnagar	48	211.94
28	-		Khejuri	49	1306.34
29	-	*	Dhoba Ghatibamanchak	50	176.27
30		· Andrews	Alichak	51	212.00
		*	Bemanchak	.]	40.49
31		Sparent Section 1	Safarchatta	53	40.47
32			Radhanagar	54	434.00

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3

THE KOLKATA GAZETTE, EXTRAORDINARY, MARCH 31, 2018

[PART 1

O1 N7	Block	Police Station	Name of Mouza	J.L. No.	Area (in acre)
SL No. 34	Khejuri - Il	Khejuri	Satsimli	55	316.39
35	renejuri - ir	, , , , , , , , , , , , , , , , , , , ,	Chak Arakbari ²³	56	70.15
36			Purba Bhanganmari	57	330.46
			Paschim Bhangyamari	58	314.28
37		And the continue of the contin	Kasaria	59	674.55
38	41000		Tengramari	60	105.64
39	Ì	Activity and the second	Manoharchak	61	42.21
40		and the second decision	Chalta Talya	62	120.79
41		receivable to compare a	Sahapur	63	107.75
42		(I) (I) (II) (II) (II) (II) (II) (II) (Kadirpur	64	342.06
	1	production	Fulbari	65	73.76
44	-	overdite case accord	Dakshin Pankhai	66	16.03
45	1		Bhupatichak	67	200.57
46 47	1	and the second	Purba Panikha	68	55.78
48		- Committee	Paschim Panikha	69	594.36
	- Control of Control o		Shyampur Jalpai	70	243.51
49	1		Gorahar Jalpai	71	501.50
50		e volkeniye o	Gorahar Jalpai	72	220.68
51	_	SSEE West monety	Gorahar Gosaichak	73	44.17
52	ant of	port in the contract of	Katka Debichak	74	773.73
53		F _constraint	Murlichak	75 9	177.75
54	-	•	Shyampur Jalpaí	76	432.54
55			Shyampur Katka	77	112.85
56	_		Boga	78	789.93
57			Kayalchak	79	320.22
58		control organic	Alipur	80	255.80
59	_	oppresident	Sundarpur	81	847.03
60		(deacoding)	Khari Pukuria .	82	156.24
61		quantity of the second	Shillyaberya	83	384.19
62		10 ggs (Marson	Raipur	84	98.28
63				85	448.01
64			Janka .	86	63.49
65			Damodarchak	87	296.02
66		CO. Of the second	Ajanbari	88	127.24
67		COLLIA DECIMENTA DE COLLIA	Sherchak	89	162.50
68		accion sandalpor	Jafarchak	90	126.77
69		en de estados estados	Bara Kashshafaliya		147.67
70	Addition		Abdullachak	. 91	74,22
71		- Constant of the Constant of	Choto Kashshafaliya	92	295.99
72			Bara Garania	93	
73	7.7	To the state of th	Choto Garania	94	164.28

PART I]

THE KOLKATA GAZETTE, EXTRAORDINARY, MARCH 31, 2018

SI. No.	Block	Police Station	Name of Mouza	J.L. No.	Area (in acre)
74	Khejuri - II	Khejuri	Lakshmanchak	95	383.30
75		and the second s	Marilalchak 1/2	96	303.64
76			Jhatihari	97	86.79
77	-	Oli have compared to	Thanaberia	98	318.73
78			Arakbari	99	567.26
79		**	Banbasriya	100	169.26
80			Washilchak	101	233.97
81			Nankargobindapur	102	76.75
82	-	anti-our-redeb	Gobindapur	103	20.35
83	-	position and a second a second and a second	Josua	104	81.76
84	on the same of the	o de la companie de l	Panchuria	105	325.80
85	-	re-dicolor-	Dakshin Kalagechhia	106	376.88
86		Capital Control of the Control of th	Korimchak	107	54.23
87	-	no dispersione	Chhoto Garania	108	118.32
88	_	and the second s	Gopichak	109	50.17
89	-		Adampur	110	74.85
90		de la companya de la	Battalya	111	132.50
91	-		Andiramchak	112	62.12
91	-	production and	Osmanpur	113	47,48
93	-	A Alberta materials	Nonapota	114	43.11
94		traffic conservation of the conservation of th	Betaldight	115	9,61
95	-	and an arrow	Medinagar	116	9 673.84
	-	undicauté in	Padurveri	117	79.24
96		oolikaanaeee	Dakshin Alichak	118	502.71
97	-	QCOMParameters	Nijkasba	119	427.69
98		Transferrings (S)	Kadirabadebar	120	1111.29
99		Table was CEA	nejuri -II) = 35230.40 Aere (I	42,5725 sq.km.)	

The Panchayat and Rural Development Department, Government of West Bengal has conveyed their no objection in the matter subject to the observance of the conditions in section 114A of the West Bengal Panchayat Act, 1973 and rules 64 to 83 of the West Bengal Panchayat (Panchayat Samiti Administration) Rules, 2008.

This issues in consultation with Finance Department, Government of West Bengal and approval of the Cabinet vide U.O CAB(D)-858 dated 26:03:2018.

By order of the Governor.

Sd/-

ONKAR SINGH MEENA

Secretary to the Government of Wext Bengal. U.D. & M.A. Deptt.

Published by the Department of Urban Development & Municipal Affairs (Town & Country Planning Branch). West Bengal and printed at Saraswaty Press Etd. (Government of West Bengal Enterprise). KoBatta 700 056.

No. WB(Part-I)/2015/SAR-856



Kolkata



Gazette

Extraordinary
Published by Authority

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MONDAY, DECEMBER 28, 2015

ISAKA 1937

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 CERTIFIED) Haldia Unnayan Bhawan, City Centre, Debhog Haldia, Dist. Purba Medinipur-721 657

PUBLIC NOTICE

No. 2281/HDA/IX-122/2013 (Part-II)

Dated, Haldia, the 28th December, 2015.

Under section 29(5 & 6) of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act-XIII of 1979)

WHEREAS a public notice under Sub-Section (1) of Section 29 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act-XIII of 1979) (hereinafter referred to as the said Act) in respect of the preparation of the present Land Use Map and Land Register for newly added Haldia Planning Area consisting of all mouzas under Chandipur Block, Moyna Block, Tamluk Municipality, Panskura Municipality, Kolaghat Block, Nandakumar Block (except Saorabere Jalpai, J.L. No. 10, Khanchi, J.L. No. 61 & Betaldighi, J.L. No. 78), Tamluk Block (except Rajnagar Baharjola, J.L. No. 161), Shahid Matangini Block (except Naoachara, J.L. No. 30 & Alinan J.L. No. 39) and Panskura Block (except Jiakhali, J.L. No. 40 & Rajnarayan Chak, J.L. No. 363), all in Purba Medinipur district published on 14-09-2015 for information of the general public and objection in writing was invited from any person with respect to the map and the register within 30 days of the publication of the notice.

AND WHEREAS no objection was received by Haldia Development Authority (hereinafter referred to as the said Authority) within the stipulated time period.

NOW, THEREFORE, in exercise of the power conferred by the Sub-Section (5) of the Section 29 of the said Act, the undersigned hereby published for general information, a public notice that the present Land Use Map and Land Register for newly added Haldia Planning Area consisting of all mouzas under Chandipur Block, Moyna Block, Tamluk

Municipality, Panskura Municipality, Kolaghat Block, Nandakumar Block (except Saorabere Jalpai, J.L. No. 10, Khanchi, J.L. No. 61 & Betaldighi, J.L. No. 78), Tamluk Block (except Rajnagar Baharjola, J.L. No. 161), Shahid Matangini Block (except Naoachara, J.L. No. 30 & Alinan, J.L. No. 39) and Panskura Block (except Jiakhali, J.L. No. 40 & Rajnarayan Chak, J.L. No. 363), all in Purba Medinipur district have been adopted by the said Authority. Copies of the present Land Use Map and Land Register for newly added Haldia Planning Area consisting of all mouzas under Chandipur Block, Moyna Block, Tamluk Municipality, Panskura Municipality, Kolaghat Block, Nandakumar Block (except Saorabere Jalpai, J.L. No. 10, Khanchi, J.L. No. 61 & Betaldighi, J.L. No. 78), Tamluk Block (except Rajnagar Baharjola, J.L. No. 161), Shahid Matangini Block (except Naoachara J.L. No. 30 & Alinan, J.L. No. 39) and Panskura Block (except Jiakhali, J.L. No. 40 & Rajnarayan Chak, J.L. No. 363), all in Purba Medinipur district may be inspected at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, P.O. Debhog, Haldia, Dist, Purba Medinipur, Pin-721 657 on any working day during office hours.

By order of the Authority,

UJJAL KUMAR SEN GUPTA, IAS Chief Executive Officer, Haldia Development Authority

Published by Haldia Development Authority, West Bengal and printed at Saraswaty Press Ltd (Government of West Bengal Enterprise), Kolkata 700 056



OFFICE OF THE CHIEF EXECUTIVE OFFICER

Haldia Development Authority (ISO 9001;2008 Certified)

(A Statutory Authority under Government of West Bengal)

City Centre, P.O. Debhog, Haldia-721657, Dist: Purba Medinipur
Ph.: (03224) 255926, Fax-255927, e-mail: cco.hdoighmail.com Web: prov.hdo.gov.in. Toll Free No. 1800-343-3224

PUBLIC HOTICE

No. 1396 /HDA/IX-122/2013 (Part-II) Dated: Haldia,

4th September, 2015.

Under section 29(1) of the West Bengal Town and Country (Planning and Development) Act, 1979

Public Notice is hereby given to all concerned that the draft present Land Use Map and Land Register as per the Provision u/s 29(1) of the West Bengal Town and Country (Planning and Development) Act, 1979 has been prepared by Haldia Development Authority for newly added Haldia Planning Area consisting of all mouzas under Chandipur Block, Moyna Block, Tamluk Municipality, Panksura Municipality, Kolaghat Block, Nandakumar Block (except Saorabere Jatpai (JL no.10), Khanchi (JL No.61) and Betaldihi (JL No.78)), Tamluk Block (except Rajnagar Baharjola (JL no.161)), Shahid Matangini Block (except Naonchara (JL 30) and Alinan (JL 39) and Panskura Block (except Jiakhali (JL 40) and Rajnarayan Chak (JL 363)), all in Purba Medinipur district.

Copies of this draft present Land Use Map and Land Register shall be available for inspection at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Umayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657, and 1st Floor, Minority Bhawan, Ninutouri, Tamluk, for 30 days w.e.f. the date of publication of this notice, on all working days between 11-00 A.M. to 4-00 P.M.

Objection, in writing, from all concerned people with respect to the draft present Land Use Map and Land Register may be submitted in 'Stipulated Form' within the same time period specified above. The forms for filing objection will be available at the 2nd floor of Haldia Unuayan Bhawan and 1nd Floor, Minority Bhawan, Nimtouri, Tanduk Office Building free of cost. It may also be downloaded from the official website of this Authority.

By order of the Authority,

Dated: "September, 2015

Chief Executive Officer Unidia Development Authority

No. WB(Part-I)/2015/SAR-5





Gazette

Extraordinary Published by Authority

PAUSA [6]

TUESDAY, JANUARY 6, 2015

[SAKA 1936

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified) Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657

PUBLIC NOTICE

No. 2460/HDA/IX-73/A(P-II)

Dated, Haldis, the 5th January, 2015.

Public Notice under section 36(1) of the West Bengal Town and Country (Planning and Development) Act. 1979.

Public Notice under section 36(1) of the West Bengal Town and Country (Planning and Development) Act, 1979 is hereby given that Haldia Development Authority has, in exercise of its power conferred by section 31 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act XIII of 1979) prepared a Draft Land Use and Development Control Plan in respect of part of Haldia Planning Area which was notified vide Notification No. 354-T&CP/C-2/2L-7/2001(I) dated 16-02-2004 and 355-T&CP/C-2/2L-7/2001(I) dated 16-02-2004 (36 mouzas of Mahishadal Block & 41 mouzas of Nandakumar Block). List of the mouzas is as follows:

	BLOCK - MAHISHADAL							
SI. No.	Name of Mouza	J.L. No.	SI. No.	Name of Mouza	J.L. No.			
1.	BARA AMRITBERIA	, 55	11.	LAKSHYA	103			
2.	DANIPUR	56	12.	GOPALPUR	104			
	MAGURI	57	13.	BASULIA	105			
3.		92	14.	KAMALPUR	106			
4.	KESHABPUR AMRITBERA	93	15.	LATMAJNUR UTTARCHAK	107			
5.	REJANAGR	94	16.	BANKA	108			
6.		95	.17.	GAZIPUR	109			
7.	BHOLSARA	96	18.	TERAPEKHIA	113			
8.	BAMANPUR		19.	GOFALPUR	114			
9.	KHALSA BAMANPUR	97		The second secon	115			
10.	GHASIPUR	98	20.	MACHLANDAPUR	113			

PART I

		BLOCK - N	MAHISHA	DAL	
Sl. No.	Name of Mouza	J.L. No.	Si. No,	Name of Mouza	J.L. No.
21.	KISMAT NAIKUNDI	116	29.	KANCHANPUR	137
22.	MALUBASAN	123	30.	BAGDA	138
23.	TAJPUR	124	31.	SARBERIA	139
24.	TERAPARA JALPAI	127	32.	GHAGRA	140
25.	ITAMAGRA	128	33.	SUNDARA	141
26.	DAKSHIN KASIMNAGAR	129	34.	BASUDEVPUR	143
27.	RAJARAMPUR	130	35.	NATSHALERCHAR	175
28.	UTTAR KASHIMNAGAR	131	36.	MAYACHAR .	176
		BLOCK - N.	ANDAKU	MAR	
SI. No.	Name of Mouza	J.L. No.	SI. No.	Name of Mouza	J.L. No.
1.	PADUMKHANA	34	22.	PARAMHANSAPUR	84
2.	PIYADA	35	23.	BASUDEVPUR	85
3.	HARIHARPUR	43	24.	KHEJURBERIA	86
4.	NARADARI	44	25.	JAMBURBASAN	87
5.	GURIA	45	26.	KOLSAR	88
6.	NARAYANPUR	46	27.	KANDALDA	89
7.	BETALBASAN	47	28.	MANDERGECHHIA	90
8.	CHARBETALBASAN	48	29.	ROUTOURI	91
9.	TOTABERIA	49	30.	JASNAN	99
10.	GHATUAL	50	31.	DHITIBASAN	100
11.	TARAGERIA	51	32.	BAGMARI	101
12.	TIKRAMPUR	52	33.	NAMAL	102
13.	ICHHAPUR	53	34.	NAIKUNDI	117
14.	MIRPUR	54	35.	KUMARARA	118
15.	KANCHANPUR	58	36.	MAHAMMADPUR	119
16.	DAKSHIN SRIKRISHNAPUR	59	37.	FATEPUR	120
17.	PARAMANANDAPUR	60	38.	SANDALPUR	121
18.	JALPAI	70	39.	MADHAVPUR	122
19.	SITALPUR	71	40.	KALYANPUR	125
20.	BHABANIPUR	73	41.	KARAK	126
21.	SRIDHARPUR	82			1

Copy of the said Draft Land Use and Development Control Plan may be inspected in any working days between 11-00 A.M. and 4-00 P.M. at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657. The State Government in the Urban Development Department has provisionally approved u/s 35 of the West Bengal Town and Country (Planning and Development) Act, 1979 vide no. 402-TCP/C-2/IS-04/13 dated 04-03-2014.

Any person may within 60(sixty) days from the date of publication of this notice file objection in respect of the Draft Land Use and Development Control Plan in writing to the Chief Executive Officer, Haldia Development Authority.

Such objections, in triplicate, addressed to the Chief Executive Officer, Haldia Development Authority, will be received by the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657, on all working days between 11-00 A.M. and 4-00 P.M. or by post within 60(sixty) days from the date of publication of this notice. The forms for filing objection will be available in this office free of cost.

By order of the Authority,

UJJAL KUMAR SEN GUPTA, IAS, Chief Executive Officer, Haldia Development Authority.

Published by Haldia Development Authority, West Bengal and printed at Suraswaty Press Ltd.
(Government of West Bengal Enterprise), Kolkata 700 056.

No. WB(Part-I)/2014/SAR-1045





Gazette

Kolkata

Extraordinary Published by Authority

AGRAHAYANA 25]

TUESDAY, DECEMBER 16, 2014

[SAKA 1936

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified) Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657

ERRATA

PUBLIC NOTICE

FOR ADOPTION OF PRESENT LAND USE MAP AND REGISTER PREPARED FOR PORTION OF HALDIA DEVELOPMENT AUTHORITY PLANNING AREA

No. 1680

Dated, Haldia, the 11th October, 2012.

Under Section 29 (5 & 6) of the West Bengal Town & Country (Planning and Development) Act. 1979 (West Bengal

The above Public Notice was published in The Kolkata Gazette on Thursday, October 18, 2012.

Read following schedule and table for Block: Mahishadal and Block: Nandakumar instead of the schedule and table as mentioned in The Kolkata Gazatte dated 18-10-2012

SCHEDULE

Sl. No.	Name of the portion of Haldia Development Authority Planning Area for which adopted
1	36 mouzas of Mahishadal Police Station and 41 mouzas of Nandakumar Police Station under Extended
1.	Planning Area of Haldia Development Authority in the District of Purba Medinipur

	aciden generalistic MANNA de la consequence de aciden aprendició de la consequence del la consequence del la consequence del la consequence de la consequenc	1	BLOCK - M.	AHISH.	ADAL		
Sl. No.	Name of Mouza	J.L. No.	Area (in acre)	SI. No.	Name of Mouza	J.L. No.	Area (in acre)
	BARA AMRITBERIA	55	509.72	3.	MAGURI	57	139,03
	DANIPUR	56	113.54	4.	KESHABPUR	92	655.89

	J.L. No.	Area (in acre)
par Madria	116	222.20
	123	299.50
- ALEXANDER	124	392.43
	127	2238.72
**********	128	789.41
R	129	185.3
-	130	879.29
	131	177.56
**********	137	306.47
~~~	138	178.87
************	139	243.11

		1	BLOCK - MA	AHISH	ADAL		
SI. No.	Name of Mouza	J.L. No.	Area (in acre)	SI. No.	Name of Mouza	J.L. No.	Area (in acre)
5.	AMRITBERA	93	722.54	21,	KISMAT NAIKUNDI	116	222.20
6.	REJANAGR	94	Dîluvated	22.	MALUBASAN	123	299.50
7.	BHOLSARA	95	384.03	23.	TAJPUR	124	392.43
8.	BAMANPUR	96	189.55	24.	TERAPARA JALPAI	127	2238.72
9.	KHALSA BAMANPUR	97	134,00	25.	ITAMAGRA	128	789.41
10.	GHASIPUR	98	179.52	26.	DAKSHIN KASIMNAGAR	129	185.3
11.	LAKSHYA	103	178.09	27.	RAJARAMPUR	130	879.29
12.	GOPALPUR	104	986.57	28.	UTTAR KASHIMNAGAR	131	177.56
13.	BASULIA	105	509.31	29.	KANCHANPUR	137	306.47
14.	KAMALPUR	106	411.95	30.	BAGDA	138	178.87
15.	LATMAJNUR UTTARCHAK	107	Diluvated	31.	SARBERIA	139	243.11
16.	BANKA	108	126,94	32.	GHAGRA	140	147.08
17.	GAZIPUR	109	234.25	33.	SUNDARA	141	83.31
18.	TERAPEKHIA	113	113.45	34.	BASUDEVPUR	143	163.50
19.	GOPALPUR	114	409,25	35.	NATSHALERCHAR	175	Diluvated
20.	MACHLANDAPUR	115	350.90	36.	MAYACHAR	176	522.77

	BLOCK - NANDAKUMAR						
SI. No.	Name of Mouza	J.L. No.	Area (in acre)	SI. No.	Name of Mouza	J.L. No.	Area (in acre
1.	PADUMKHANA	34	207.68	2,2.	PARAMHANSAPUR	84	117.42
2.	PIYADA	35	464.96	23.	BASUDEVPUR	85	496.6
3.	HARTHARPUR	43	152.44	24.	KHEJUR BERIA	86	151.05
4.	NARADARI	44	434.76	25.	JAMBURBASAN	87	279.43
5.	GURIA	45	242.45	26.	KOLSAR	88	190.01
6.	NARAYANPUR	46	152.8	27.	KANDALDA	89	223.51
7.	BETALBASAN	47	161.97	28.	MANDERGECHHIA	99	316,65
8.	CHARBETALBASAN	48	Diluvated	29.	ROUTOURI	91	73.88
9.	TOTABERIA	49	188.51	30.	JASNAN	99	173.16
10.	GHATUAL	50	161.13	31.	DHITTBASAN	100	240.5
11.	TARAGERIA	51	177.55	32.	BAGMARI	101	222.09
12.	TIKRAMPUR	52	346.49	33.	NAMAL	102	194.34
13.	ICHHAPUR	53	263.83	34.	NAIKUNDI	117	238.89
14.	MIRPUR	54	269.73	35.	KUMARARA	118	426.64
15.	KANCHANPUR	58	333.62	36.	MAHAMMADPUR	119	452.51
16.	DAKSHIN SRIKRISHNAPUR	59	324.68	37.	FATEPUR	120	298.73
17.	PARAMANANDAPUR	60	130.24	38.	SANDALPUR	121	633.29
18.	JALPAI	70	3917.02	39.	MADHAVPUR	122	781.86
19.	SITALPUR	71	1192.98	40.	KALYANPUR	125	993.67
20.	BHABANIPUR	73	647.77	41.	KARAK	126	332.41
21.	SRIDHARPUR	82	292.51				

By order of the Authority,

UJJAL KUMAR SEN GUPTA, IAS, Chief Executive Officer, Haldia Development Authority.

Published by Haldia Development Authority, West Bengal and printed at Saraswaty Press Ltd. (Government of West Bengal Enterprise), Kolkata 700 056.

No. WB(Part-I)/2014/SAR-922





Gazette

Kolkata

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FRIDAY, AUGUST 29, 2014

**ISAKA 1936** 

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified) Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657

#### PUBLIC NOTICE

No. 1145/HDA/IX-95

Dated, Haldia, the 28th August, 2014.

Under section 38 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act-XIII of 1979).

Notice is hereby given that Haldia Development Authority has, in exercise of its power conferred by section 40 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act XIII of 1979) prepared an Amendment of Land Use and Development Control Plan in respect of its Old Planning Area (entire area of Haldia Municipality, Haldia and Sutahata Blocks and 42 mouzas of Mahishadal Block upto Hijli Tidal Canal) and the same has been approved by Government of West Bengal, Urban Development Department, Town & Country Planning Branch as per provision under section 37(1) of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act XIII of 1979) vide memo no. 2444-TCP/C-2/IS-04/13 dated 26th August, 2014.

Copy of the said Amendment of Land Use and Development Control Plan may be inspected on all working days between 11-00 A.M. to 4-00 P.M. at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657.

By order of the Governor.

UJJAL KUMAR SEN GUPTA, IAS,

Chief Executive Officer, Haldia Development Authority.

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No. WB(Part-I)/2014/SAR-754

## Kolkata



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FRIDAY, MAY 30, 2014

[SAKA 1936

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified) Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur – 721 657

#### PUBLIC NOTICE

No. 272/HDA/IX-103

Haldia, the 24th May, 2014.

Under section 29(5 & 6) of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act-XIII of 1979)

WHEREAS a public notice under Sub-Section (1) of Section 29 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act-XIII of 1979) (hereinafter referred to as the said Act) in respect of the preparation of the present Land Use Map and Land Register for part of Haldia Planning Area consisting of all mouzas under Nandigram-I and II Blocks in the Purba Medinipur District published on 27-02-2014 for information of the general public and objection in writing was invited from any person with respect to the map and the register within 30 days of the publication of the notice.

AND WHEREAS one objection was received by Haldia Development Authority (hereinafter referred to as the said Authority) within the stipulated time period.

AND WHEREAS the objection was duly disposed off by this Authority.

NOW, THEREFORE, in exercise of the power conferred by the Sub-Section (5) of the Section 29 of the said Act, the undersigned hereby published for general information, a public notice that the present Land Use Map and Land Register for part of Haldia Planning Area consisting of all mouzas under Nandigram-I and II Blocks in the Purba Medinipur District have been adopted by the said Authority. Copies of the present Land Use Map and Land Register for part of Haldia Planning Area consisting of all mouzas under Nandigram - I and II Blocks in the Purba Medinipur District may be inspected at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, P.O. Debhog, Haldia, Dist. Purba Medinipur, Pin-721 657 on any working day during office hours.

By order of the Authority,

DR. P. ULAGANATHAN, IAS.

Chief Executive Officer, Haldia Development Authority.

Published by the Controller of Printing and Stationery, West Bengal and printed at Saraswaty Press Ltd.

(Government of West Bengal Enterprise), Kolkata 700 056

No. WB(Part-I)/2014/SAR-408



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WEDNESDAY, FEBRUARY 26, 2014

[SAKA 1935

PART I—Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified)

Haldia Unnayan Bhawan, City Centre, Debhog,
Haldia, Dist. Purba Medinipur-721 657

#### PUBLIC NOTICE

No. 3142 /HDA/IX-95

Haldia, the 25th February, 2014.

Public Notice under section 36(1) of the West Bengal Town and Country (Planning and Development) Act, 1979. Notice is hereby given that Haldia Development Authority has, in exercise of its power conferred by section 40 of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act XIII of 1979) prepared an Amendment of Land Use and Development Control Plan in respect of its Old Planning Area (entire area of Haldia Municipality, Haldia and Sutahata Blocks and 42 mouzas of Mahishadal Block upto Hizli Tidal Canal). Copy of the said Amendment of Land Use and Development Control Plan may be inspected in any working days between 11-00 A.M. and 4-00 P.M. at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657. The State Government in the Urban Development Department has provisionally approved u/s 35 of the West Bengal Town and Country (Planning and Development) Act, 1979 vide no. 307-TCP/C-2/IS-04/13 dated 19-02-2014.

Any person may within 60(sixty) days from the date of publication of this notice file objection in respect of the Amendment of Land Use and Development Control Plan in writing to the Chief Executive Officer, Haldia Development Authority.

Such objections, in triplicate, addressed to the Chief Executive Officer, Haldia Development Authority, will be received by the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657, on all working days between 11-00 A.M. and 4-00 P.M. or by post within 60(sixty) days from the date of publication of this notice. The forms for filing objection will be available in this office free of cost.

By order of the Authority,

DR. P. ULAGANATHAN, IAS, Chief Executive Officer, Haldia Development Authority.





#### OFFICE OF THE CHIEF EXECUTIVE OFFICER

Haldia Development Authority (ISO 9001:2008 Certified)

(A Statutory Authority under Government of West Bengal)

City Centre, P.O. Debing, Haldia-721657, Dist: Purba Medinipur

Ph.: (03224) 255926, Fax-255927, e-mail: ceo.hda@gmail.com Web.: www.hda.gov.in. Toll Free No. 1800-345-3224

#### PUBLIC NOTICE

No. 3/25/HDA/IX-103

Dated: Haldin, 24th February, 2014.

Under section 29(1) of the West Bengal Town and Country (Planning and Development) Act, 1979

Public Notice is hereby given to all concerned that the present Land Use Map and Land Register as per the Provision u/s 29(1) of the West Bengal Town and Country (Planning and Development) Act, 1979 has been prepared by Haldia Development Authority for part of Haldia Planning Area consisting of all mouzas under Nandigram – I and II Blocks in the Purba Medinipur District.

Copies of this present Land Use Map and Land Register shall be available for inspection at the Office of the Chief Executive Officer, Haldia Development Authority, Haldia Unnayan Bhawan, City Centre, Debhog, Haldia, Dist. Purba Medinipur-721 657, for 30 days w.e.f. the date of publication of this notice, on all working days between 10-00 A.M. to 5-30 P.M.

Objection, in writing, from all concerned people with respect to the present Land Use Map and Land Register may be submitted in 'Stipulated Form' within the same time period specified above. The forms for filing objection will be available at the 2nd floor of Haldia Unnayan Bhawan at free of cost. It may also be downloaded from the official website of this Authority

By order of the Authority,

Dated: WhFebruary, 2014.

Chief Executive Officer-in-Charge Haldia Development Authority

No. WB(Part-I)/2013/SAR-494





Gazette

## Kolkata

## Extraordinary Published by Authority

KARTIKA 29]

WEDNESDAY, NOVEMBER 20, 2013

[SAKA 1935

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### HALDIA DEVELOPMENT AUTHORITY

(ISO 9001:2008 Certified)
Haldia Unuayan Bhawan, City Centre, Debhog,
Haldia, Dist. Purba Medinipur-721 657

#### NOTIFICATION

U/s 102 of The West Bengal Town & Country (Planning & Development) Act, 1979

No. 1913/HDA/IX-73 (Part-I)

Dated, Haldia, the 8th November, 2013.

In exercise of the powers conferred u/s 102 & 103 of The West Bengal Town & Country (Planning & Development) Act, 1979 and the rules framed there under, as amended time to time, and with the approval of the Government vide no. 2744-TCP/C-2/1S-01/2013 dated 01-11-2013, it is hereby notified that the Development Charges for carrying out of any development, institution of use or change of use and erection / re-erection shall be levied within the whole of the Haldia Planning Area under jurisdiction of Haldia Development Authority.

The rate of Development Charges shall be as per the schedule below and shall come into force with immediate effect.

#### Schedule of Rates of Development Charges:

#### A) FOR THE INSTITUTION OF USE

#### I) Within Municipal Areas:

	Institution of Use	Development Charge(Rs./sq.mt)		
1.	Plot area up to 6.0 decimal for Residential	· Rs. 10/-		
2.	Plot area above 6.0 decimal for Residential	Rs. 20/-		
	* FOR INDUSTRY	Rs. 100/-		
Indigate and Assessment	* FOR COMMERCE	Rs. 200/-		

#### II) In the Census Towns:

Institution of Use	Development Charge(Rs./sq.mt)
1. Plot area up to 6.0 decimal for Residential	Rs. 10/-
<ol><li>Plot area above 6.0 decimal for Residential</li></ol>	Rs. 20/-
* FOR INDUSTRY	Rs. 190/-
* FOR COMMERCE	Rs. 150/-

#### III) In Rural Areas:

Institution of Use	Development Charge (Rs./sq.mt)
1. Plot area up to 6.0 decimal for Residential	Rs. 64-
2. Plot area above 6.0 decimal for Residential	Rs. 15/-
FOR INDUSTRY	Rs. 100/-
FOR COMMERCE	Rs. 100/-

#### B) FOR CHANGE OF USE --

#### Within Municipal Area:

Change of Use	Development Charge (Rs./sq.mt)		
i) From Agriculture to Residence			
i a) Plot area up to 6.0 decimal	Rs. 10/-		
i b) Plot area above 6.0 decimal	Rs. 20/-		
(ii) From Agriculture to Industry	Rs. 70/-		
(iii) From Agriculture to Commerce	Rs. 200/-		
(iv) From Residence to Industry	Rs. 60/-		
(v) From Residence to Commerce	Rs. 170/-		
(vi) From Industry to Residence	Rs. 90/-		
(vii) From Industrial to Commercial	Rs. 150/-		

#### II) In the Census Towns:

Change of Use	Development Charge (Rs./sq.mt)
i) From Agriculture to Residence	
i a) Plot area up to 6,0 decimal	Rs. 10/-
i b) Plot area above 6.0 decimal	Rs. 20/-
(ii) From Agriculture to Industry	Rs. 70/-
(iii) From Agriculture to Commerce	Rs. 200/-
(iv) From Residence to Industry	Rs. 60/-
(v) From Residence to Commerce	Rs. 170/-
(vi) From Industry to residence	Rs. 90/-
(vii) From Industry to Commerce	Rs. 150/-

PART []

THE KOLKATA GAZETTE, EXTRAORDINARY, NOVEMBER 20, 2013

3

#### III) In Rural Areas:

Change of Use	Development Charge (Rs./sq.mt)
i) From Agriculture to Residence	
i a) Plot area up to 6.0 decimal	Rs. 10/-
i b) Plot area above 6.0 decimal	Rs. 20/-
(ii) From Agriculture to Industry	Rs. 70/-
(iii) From Agriculture to Commerce	Rs. 200/-
(iv) From Residence to Industry	Rs. 60/-
(v) From Residence to Commerce	Rs. 170/-
(vi) From Industry to Residence	Rs. 90/-
(vii) From Industry to Commerce	Rs. 150/-

## C) FOR CARRYING OUT DEVELOPMENT BY ERECTION OR RE-ERECTION OF ANY BUILDING OR WORKS.

- 1) Within Municipal Area: Rs. 10/- per cubic meter of the content of such building or works.
- II) Census towns: Rs. 10/- per cubic meter of the content of such buildings or works.
- III) Rural areas: Rs. 5/- per cubic meter of the content of such buildings or works.

By order of the Board,

DR. P. ULAGANATHAN, IAS 
Chief Executive Officer
Haldia Development Authority.

OK-

Registered No. WB/SC-320

No. 163(1)

The "

Kolkata



Gazette.

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Published by Authority

ASADIFA 31

WEDNESDAY, JUNE 24, 2009

15AKA 1931

PART I Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

## GOVERNMENT OF WEST BENGAL URBAN DEVELOPMENT DEPARTMENT

#### NOTIFICATION

No. 2118-T&CP/C-2/T&CP/3A-5/2008.—19th September, 2008.—In exercise of power conferred under section 403 of West Bengal Town & Country (Planning & Development) Act, 1979 as amended from time to time, the Graenton is pleased to fix up the rates of Development Charges in respect of Planning Areas under the Planning Authorities and Development Authorities under the Urban Development Department, as follows:—

Si No.	Purpose	Rate (Paper), we
1.	For Institution of Use	
	1. For Residence	A()_(#:
	2. For Industry	180.00
***	1. For Commerce	300 21
2.	Change of Use	
	1. From Agriculture to Residence	3(1, <b>(W</b> )
***	2. From Agriculture to Industry	1103-1
	3. From Agriculture to Commerce	1(8) (8)
	4. From Residence to Industry	LM est
	5. From Residence to Commerce	340.00
	6 From Industry to Residence	150 (A)
www.	7. From Industry to Commerce	7(10, 14)
	ANTONIA LA FALLA PARA PARA PARA PARA PARA PARA PARA	Raiciff
3.	For Carrying out any other Dévelopment	10.181

409

Kolkata

No. WB(Part-I)/2015/SAR-527





Gazette

## Extraordinary Published by Authority

KARTIKA 18]

MONDAY, NOVEMBER 9, 2015

[SAKA 1937

PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### GOVERNMENT OF WEST BENGAL

Urban Development Department Town & Country Planning Branch "NAGARAYAN"

DF-8, Sector - 1, Salt Lake, Bidhannagar, Kolkata - 700 064.

Memo No. 2057-T&CP/C-2/2C-02/15

Dated, Kolkata, the 2nd November, 2015.

#### NOTIFICATION

WHEREAS, in exercise of the power conferred by section 11(1) of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Bengal Act XIII of 1979). Gangasagar Bakkhali Development Authority has been constituted as a statutory body vide this Department's Notification No., 1079-T&CP/C-2/2C-07/2012 dated 19th June, 2013.

AND, WHEREAS, the State Government has decided to declare certain other areas adjacent to the existing Planning Area of Gangasagar Bakkhali Development Authority to be the "Planning Area" for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII) of 1979).

NOW, in exercise of the power conferred by section 1(3) of the West Bengal Town and Country Planuting & Development) Act, 1979 (West Bengal Act XIII of 1979), the Governor is pleased hereby to appoint the day of issue of this Notification as the date on which the said Act, shall come into force in the area described in the Schedule.

AND, WHEREAS, in exercise of the power conferred by sub-section (1), read with sub-section (2) of section 9 of the said act, the Governor is pleased hereby to declare the said area, the limits of which have been defined in the Schedule to be a "Planning Area" for the purpose of the said Act.

NOW, THEREFORE, in exercise of the power conferred by sub-section (3) of the Section 9 of the West Bengal Town and Country (Planning and Development) Act. 1979 (West Bengal Act XIII of 1979), the Governor is hereby pleased to include the abovementioned "Planning Area" which have been defined in the schedule, into the existing Planning Area of Gangasagar Bakkhali Development Authority already declared as such under the Department's Notification No 1978—T&CP/C-2/2C-07/2012 dated 19th Jane, 2013, for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979. (West Bengal Act XIII of 1979), with immediate effect.

#### [Page 1

#### SCHEDULE

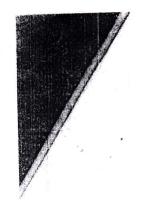
District	P.S	Name of G.P	No. of Mouza	J.L. No.	Area (Hectares)
South 24 Parganas	Sagar	Dhablat	Purushottampur	41	759.225

The Panchayat and Rural Development Department, Government of West Bengal vide their Memo No 3051/PN/O/ I/4B-1/2012 dated 24.06.15 has conveyed their no objection in the matter subject to the observance of the conditions in section 114A of the West Bengal Panchayat Act, 1973 and rules 64 to 83 of the West Bengal Panchayat (Panchayat Samiti Administration) Rules, 2008.

This issues in consultation with Finance Department, Government of West Bengal and approval of the Cabinet in its 87th meeting held on 9th September, 2015.

By order of the Governor,

DEBASHIS SEN,
Principal Secretary to the Government of West Bengul.



#### GOVERNMENT OF WEST BENGAL HOME DEPARTMENT POLICE

# 6.00

#### NOTIFICATION

No. 4678-PL dated 05.12.2008 in exercise of the power conferred by clause (5) of Section-2 of the code of Criminal Procedure; 1973 (2 of 1974), the Governor is pleased hereby to declare that with effect from the date of publication of this Notification in the Kolkata Gazette, there shall be a Coastal Police Station at Frasergant in the district of South 24-Parganas consisting of and including the areas the descriptions of which have been specified in the Schedule below:—

#### THE SCHEDULE ERASERGAN) COASTAL POMCE STATION

DESCRIPTION OF BOUNDARIES	SL.	NAME OF MOUZAS	JURISDICTION LIST NO.	REMARKS
The jurisdiction of Fraserganj Police Station is bounded :	NO. 1.	Shibrampur	57	From Namkhana P.S.
particular and the state of the			58	do
on the North : By the outer boundaries	2.	Rajnagar	60	do
of mouzas Shiprampary and	3, 4.	Radhanagar Dakshin	61	do
Radhanagar, Dakshiii Maushani till it meets a point on the mid		Durgapur	62	do
Maushani till it meets a point of stream of Muriganga or Baratala River stream of Muriganga or Baratala River	5.	Maushani	63	do
stream of Muriganga of Corner of nearest to the north west corner of	6.	Ballara	64	do
nearest to the near	7.	Patibonia	65	do
mouza Maushani.	8.	Shibpur	68	do
on the West: By the mid stream of the	9.	Debnibas	69	do /
On the West: By the lift sales, up to the Muricanga or Baratala River, up to the	10		70	do
Muriganga or Baracala Kiver, ap bay of Bengal covering Sundarban reserve	_ 11	. Amarabati		do
forest (unsurveyed).	12	. Lakshmipur Abad	-	Do
n, the Ray of Bengal.	13	Bagdanga	72	- Do
On the South : By the Bay of Bengal.	1/	to no I parameter than	73	
charting from Bay O	f			-
Saptamukhi River covering Sundarbai	s ·	and the second s	T .	
reserved forest (unsurveyed) Island and Fredrick Island up to north east corner of mouza Bijaybati, theno west ward along the outer boundaries of mauzas Bijaybati, Debnibas, Shibpur an Shibrampur.	e of			

By order of the Governor,

Special Secretary, Home Department Govt. of West Bengal.

#### NOTIFICATION

WHEREAS the provisions of the West Bengal Town and Country (Planning & appment) Act, 1979 (West Bengal Act XIII of 1979) (hereinafter referred to as the said Act), have force for the area described in the Schedule to this Department's Notification No.1077-CP/C-2/2C-7/2012 Dated Kolkata, the 19th June, 2013:

NOW. THEREFORE, in exercise of the power conferred by sub-section (1), read with ab-section (2) of section 9 of the said Act, the Governor is pleased hereby to declare the said area, the mits of which have been defined in the Schedule below to be Gangasagar Bakkhali Planning Area or the purpose of the said Act.

#### THE SCHEDULE

District	Name of the Block	Police Station	Mouza	J.L. No.	Area (Hectare)
South 24 Paraganas	Namkhana	Freserganj Coastal	Amrabati	70	494.28
South 24 Paraganas	Namkhana	Freserganj Coastal	Lakshmipur Abad	71	274.07
South 24 Paraganas	Sagar	Sagar	Gangasagar	38	1225.56
South 24 Paraganas	Sagar	Sagar	Sagar	37	390.12
South 24 Paraganas	Sagar	Sagar	Beguakhali	36	649.11
South 24 Paraganas	Sagar	Sagar	Dhablat	45	1143,24
South 24 Paraganas	Sagar	Sagar	Sibpur	43	891 70
South 24 Paraganas	Sagar	Sagar	Chemagari	42	851.90
South 24 Paraganas	Sagar	Sagar	Bisalakshmipur	44	246.39
The second secon		The state of the s	Total	market war and the same of the	6166.37

This is issued in supersession of this Department's Notification No. 230-T&CP/C-2/2C-2012 dated 6/2/2013.

By order of the Governor.

Sd/- DEBASHIS SEN Principal Secretary to the Government of West Bengal

#### Government of West Bengal Urban Development Department Town & Country Planning Branch "NAGARAYAN".

DF-8, Sector-1, Bidhannagar, Kolkata- 700 064

No. 1077-T&CP/C-2/2C-7/2012

Dated Kofkata, the 19th June, 2013

#### NOTIFICATION

In exercise of the power conferred by sub-section (3) of section of the West Beneal Lown sectors (Planning & Development) Act. 1979 (West Bengal Act XIII of 1979), the Governor is a hereby to appoint the day of issue of this Notification as the date on which the said Act. shall be force in the area described in the Schedule below:

#### THE SCHEDULE

District	Name of the Block	Police Station	Mouza	J.L. No.	Arva (Hectare)
a 124 ayumus		Freserganj Coastal	Ameabati	70	494,28
south 24 Inaganas	Namkhana	Fresergani Coastal	Lakshmipur Abad	71	274 07
wenth 24	Sagar	Sagar	Gangasagar	3.8	1025.56°
araganas anth Di	Sagar	Sagar	Sagar	1.7	300.1
Pragamas - ath "4	Sagar	Sugar	Begunkhali	36	640
Paragamus wouth 24	Sagar	Sagar	Dhablat	45	5 S
e quante	Sagar	Sagar	Simpur	4,3	891.70
endb.	S.123H	Sagar	' ( bemagar)	40	<b>X</b> 51,20
anth 24	Sugar	Sagar	Bisalakshmipur	4-1	3. [4, 14)
H.B. MIN			Total	ē	6106.3"

The is assert in supersession of this Department's Nonficiation No. 229-1&CP+C 2.20 short (2.201).

By order of the tree

Sd - DEB SMESS



## Government of West Bengal Urban Development Department Town & Country Planning Branch "NAGARAYAN", DF-8, Sector-I, Bidhannagar, Kolkata-700 064

No.1078-T&CP/C-2/2C-7/2012

Dated Kolkata, the 19th June, 2013

#### NOTIFICATION

WHEREAS the provisions of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979) (hereinafter referred to as the said Act), have come into force for the area described in the Schedule to this Department's Notification No.1077–T&CP/C-2/2C-7/2012 Dated Kolkata, the 19th June, 2013;

NOW, THEREFORE, in exercise of the power conferred by sub-section (1), read with sub-section (2) of section 9 of the said Act, the Governor is pleased hereby to declare the said area, the limits of which have been defined in the Schedule below to be Gangasagar Bakkhali Planning Area for the purpose of the said Act.

#### THE SCHEDULE

SI.	District	Name of the Block	Police Station	Mouza	J.L. No.	Area (Hectare)
	South 24 Paraganas	Namkhana	Freserganj Coastal	Amrabati	70	494.28
2	South 24 Paraganas	Namkhana	Freserganj Coastal	Lakshmipur Abad	71	274.07
3	South 24 Paraganas	Sagar	Sagar	Gangasagar	38	1225.56
4	South 24 Paraganas	Sagar	Sagar	Sagar	37	390.12
5	South 24 Paraganas	Sagar	Sagar	Beguakhali	36	649.11
6	South 24 Paraganas	Sagar	Sagar	Dhablat	45	1143.24
7	South 24 Puraganas	Sagar	Sagar	Sibpur	43	891.70
8	South 24 Paraganas	Sagar	Sagar	Chemagari	42	851.90
9	South 24 Paraganas	Sagar	Sagar	Bisalakshmipur	44	246.39
	And the second s	and a second control of the second control o	1	Total		6166.37

This is issued in supersession of this Department's Notification No. 230-T&CP/C-2/2C-7/2012 dated 6/2/2013.

By order of the Governor,

Sd/- DEBASHIS SEN
Principal Secretary
to the Government of West Bengal



#### Government of West Bengal Urban Development Department Town & Country Planning Branch "NAGARAYAN".

DF-8, Sector-I, Bidhannagar, Kolkata-700 064

No. 1079-T&CP/C-2/2C-7/2012

Dated Kolkata, the 19th June, 2013

#### NOTIFICATION

WHEREAS the provisions of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979) (hereinafter referred to as the said Act), have come into force for the area described in the Schedule to this Department's Notification No. 1077-T&CP/C-2/2C-7/2012 dated 19th June,2013;

AND, WHEREAS, in exercise of the power conferred by sub-section (1), read with subsection (2) of section 9 of the said Act, the Governor is pleased to declare the area as mentioned in the Schedule to this Department's Notification No.1078-T&CP/C-2/2C-7/2012 dated 19th June, 2013 as the Gangasagar Bakkhali Planning Area for the purpose of the said Act;

NOW, THEREFORE, in exercise of the power conferred by sub-section (1) of section 11 of the said Act, the Governor is pleased hereby to constitute Gangasagar Bakkhali Development Authoray in respect of the Planning Area already declared as such under this Department's Notification No.1078- T&CP/C-2/2C-7/2012 dated 19th June, 2013 to the limits of which have been defined in the Schedule below for the purpose of the said Act.

#### THE SCHEDULE

i.	District	Name of	Police Station	Mouza	J.L. No.	Area (Hectare)
vo.		the Block	NEW COLUMN TO THE RESIDENCE OF THE PARTY OF	Amrabati	70	494.28
	South 24	Namkhana	Freserganj Coastal		71	274.07
2	Paraganas South 24	Namkhana	Freserganj Coastal	Lakshmipur Abad		
	Paraganas	Sagar	Sagar	Gangasagar	38	1225.56
3	South 24 Paraganas			Sagar	37	390.12
4	South 24	Sagar	Sagar		36	649.11
-	Paraganas South 24	Sagar	Sagar	Beguakhali	30	
	Paraganas	Canada	Sagar	Dhablat	45	1143.24
63	South 24 Paraganas	Sagar	The second secon		43	891.70
7	South 24	Sagar	Sagar	Sibpur		1
* ***	Paraganas	Correr	Sagar	Chemagari	42	851.90
8	South 24 Paraganas	Sagar		Bisalakshmipur	44	246.39
()	South 24	Sagar	Sagar	Disambana	A CONTRACTOR OF THE CONTRACTOR	125
	Paraganas	Annual Control of the		Total	and the same of th	6166.37

This is issued in supersession of this Department's Notification No. 231-T&CP/C-2/2C-7/2012 dated 6/2/2013.

By order of the Governor,

Sd:-DEBASHIS SEN

Government of West Bengal Urban Development Department Town & Country Planning Branch "NAGARAYAN".

OF-8. Sector-I, Bidhannagar, Kolkata- 700 064

No. 1077-T&CP/C-2/2C-7/2012

Dated Kolkata, the 19th June, 2013

## NOTIFICATION

In exercise of the power conferred by sub-section (3) of section1 of the West Bengal Town and I want (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), the Guvernor is present freedy to appoint the day of issue of this Notification as the date on which the said Act, shall not me time in the area described in the Schedule below:

## THE SCHEDULE

mstrict	Name of	Police Station	Monza	J.L. No.	Arca (Hectare
south 34	the Block Namkhana		Aparabati	70	494.28
tunggalati sengin 24	Namkhana	Coastal Fresergant	Lakshmipur Abad	71	274.07
Parayana Septin 24	Sagar	Coastel Sagar	Gangasagar	38	1225.50
Smith 24	Sagar	Sager		37	390.12
Parquarate South 24	Sayar	Sagar	Beguakhan	36	640.11
Paraganus south 34	Sagar	Sagar	Disables	45	1143.24
Functionals Sentis 24	Sagar	Sagar	Stepur	13	891.70
Transportation	Sagar	Sagar	Chemagari	42	851.90
Paragamus Auth 34	Sagar	Sagar	Bisalakshmapur	44	246.19
1 withness		and the second of the second o	reservice describedario su servica responsacionario successorio de la constante de la constant	go and a second second second	6166.37

Thus is issued in supersession of this Department's Nonfication No. 229-1&CPK-M2Cor hated 6/2 2013

By order of the Covernor.

Sd- DEBASHIS SIX

COVERNAMIT OF WEST BENGAL Urban Development (TECP) Repartment 18, Rebinore Saradi, Calcutta-700001

- . 967-TECP/EC-6/87

hated the 4th l'arch, 1993

450

#### HOTIFICATION

In exercise of the power conferred by sub-section (1) and sub-section (3) of Section II of the Test Bengal Town and Tountry (Planning and Bavelopment) Act, 1676 (West Bengal Town and Tountry and in supersession, of this Bapartment notification po. 3447-TkCpy 10-6/86 dated Bakh Havenber, 1890, the Sovernor is Alexand has by to constitute the Dight Bavelopment Authority in respect of the planning area declared as such under this Department so tification ic. 4350-TaCp/IC-6/88 dated 28th November, 1891 consisting of the following members for a period not exceeding these years from the date of the notification is

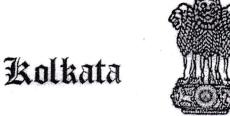
		1.00	
1.	thri Suriya Kanta Mishira, Minista in-Charas, Penchayat and Rural Development, Govt. of Yout Bengal.	t	Chairman
2,	Inri Robint Karan, Member, Zilla Farishad, Misnapora.	1	Menbor.
	An Assistant Regional Planner/ Assistant Town Plantes againsted by Urbun Pev. (Tarp) Reptt., Government of Yest Bengol.	1	Pumbor.
Ģ,	One Representative of the Finance Department; Covernment of Nest Bungal.	ŧ	t'ember.
5.	One Representative of the Development and Planning Department, Government of West Bengal.	£	Manber
6	. Sub-Pivisional Officer. Contei, District Midgepore.		Menber
7	· Sabbapati, Remnegar Punchayet Samiti.	1	Homber
8	. Shri Mrinal Kanti Roy, Mid Rampagar, District Midospore.	1	Member.
Đ	. District Englistrate, Midnapore	1	· Mombar.

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lo.	One Representative of Tourise Repartment.	tho	. Capter	1.
11.	One Representative of Picheries Repartment.	tho	: Tember	
1.2.	total design nember			
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. 1.	The Secretary -	(All Departs	iont),	
2,	The District Magistr	(AII Dis	itH et).	
3.	The Commissioner,	CALL THE	vistor).	
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5.	The Pinancial Advisor	r, nev. & Plann	ing Peptt.	
6.	Two Private Secretar	y to the Chief.	Secretary, Tost Beneal	
7.	The Frivate Secretar	y to the Chief!	Sinistor, "ext Rengal.	optt.
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10.	The Chairman, higha	pev. juthority.	En state see full	mily
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Registered No. WB/SC-247

No. WB(Part-1)/2012/SAR-165



Gazette

## Extraordinary - Published by Authority

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THURSDAY, MAY 3, 2012

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PART I-Orders and Notifications by the Governor of West Bengal, the High Court, Government Treasury, etc.

#### GOVERNMENT OF WEST BENGAL

Urban Development Department Town & Country Planning Branch 'Nagarayan' DF-8, Sector-1, Bidhannagar, Kolkata - 700 064.

No. 902-T&CP/C-2/1P-5/2003

Kolkata, the 30th April 2012.

#### NOTIFICATION

WHEREAS, in exercise of the power conferred by section 11(1) of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), Digha Development Authority (DDA) was constituted in the year 1993 as a Statutory Body under the Urban Development Department (Town & Country Planning Branch) vide Notification No. 857-T & CP/IC-6/89, dated 04/03/1993. Later, in the year 2003, Sankarpur was included and the Authority was renamed as Digha Sankarpur Development Authority (DSDA) vide Notification No. 5319-T & CP/C-2/IP-5/2003, dated 24/09/2003 resulting an area of 8,752.66 acres of land comprising 42 Mouzas adjoining sea coast area. Thereafter, the Digha Development Scheme (DDS) constituted in the year 1956-57 under the Development & Planning Department was also merged with the DSDA in the year 2006 vide Notification No. 3662-T&CP/C-2/IS-21/2003 dated 28/12/2006;

AND, WHEREAS, the State Government thereafter decided to declare 6 (six) Mouzas of Kalindi Gram Panchayat under the jurisdiction of Digha Sankarpur Development Authority to be the 'Other Planning Area' for the purpose of development of Coastal Tourism and orderly development in those areas to be the "Planning Area" under the jurisdiction of Digha Sankarpur Development Authority under the purview of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979). The matter was concurred by the Panchayat & Rural Development Department and the Finance Department, Government of West Bengal and was approved by the State Cabinet in its meeting held on 29/11/2011. Accordingly, a Notification vide No. 2551 -T & CP'C-2/IP-5/2003 dated 22/12/2011 was published in the Kolkata Gazette on 05/01/2012:

2

AND, WHEREAS, the State Government thereafter decided to include 3 (three) mouzas of Tajpur, J.L. No. 244; Berukhana, J.L. No. 243 and Kshirpal, J.L. No. 238 under the jurisdiction of Digha Sankarpur Development Authority under the purview of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979). The matter was concurred by the Panchayat & Rural Development Department, Government of West Bengal vide their Memo No. 1655/PN/O/I/4B-1/09 dated 15/03/2012 subject to the observance of the conditions mentioned in the fourth provisio to the sub-section 14 of section 114A of the West Bengal Panchayat Act, 1973 and was approved by the State Cabinet in its meeting held on 18/04/2012;

NOW, in exercise of the power conferred by sub-section (1) read with sub-section (3) of section 9 of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), the Governor is hereby pleased to declare 3 (three) mouzas of Tajpur, J.L. No. 244; Berukhana, J.L. No. 243 and Kshirpal, J.L. No. 238 under the jurisdiction of Digha Sankarpur Development Authority to be the "Planning Area" for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979).

By order of the Governor,

DEBASHIS SEN,
Principal Secretary to the Government of West Bengal.

### Government of West Bengal Urban Development Department Town & Country Planning Branch "NAGARAYAN".

DF-8, Sector-1, Bidhannagar, Kolkata, 700 064.

No. 2551 - T&CP/C-2/1P-5/2003

Kolkata, the 22nd December, 2011

#### NOTIFICATION

WHEREAS, in exercise of the power conferred by section 11(1) of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), Digha Development Authority (DDA) was constituted in the year 1993 as a Statutory Body under the Urban Development Department (Town & Country Planning Branch) vide Notification No. 857-T & CP/IC-6/89, dated 04/03/1993. Later, in the year 2003, Sankarpur was included and the Authority was renamed as Digha Sankarpur Development Authority (DSDA) vide Notification No. 5319-T & CP/C-2/IP- 5/2003, dated 24/09/2003 resulting an area of 8,752.66 acres of land comprising 42 Mouzas adjoining sea coast area. Thereafter, the Digha Development Scheme (DDS) constituted in the year 1936-57 under the Development & Planning Department was also merged with the DSDA in the year 2006 vide Notification No.3662-T&CP/C-2/IS-21/2003 dated 28/12/2006;

AND, WHEREAS, the State Government has decided to declare 6 (six) Mouzas of Kalindi Gram Panchayat comprising of a total area of 6,826.77 Acres under the jurisdiction of Digha Sankarpur Development Authority to be the 'Other Planning Area' for the purpose of development of Coastal Tourism and orderly development in those areas resulting to an area of 15579.43 acres to be the "Planning Area" under the jurisdiction of Digha Sankarpur Development Authority under the purview of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979);

NOW, in exercise of the power conferred by sub-section (1) read with sub-section (3) of section 9 of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), the Governor is hereby pleased to declare the following area as described in the Schedule to be the "Planning Area" (hereinafter called 'Other Planning Area') for the purpose of the West Bengal Town and Country (Planning & Development) Act, 1979 (West Bengal Act XIII of 1979), with immediate effect, and to define the said area in the Schedule below:—

SCHEDULE				
ryselected v	Name of the Mouza	J.L. No	Area in Acre	
District	Mandamnoni	245	553.10	
Purba Medinipur	***************************************	246 .	1824.33	
Purba Medinipur	Silampur	282	923.50	
Purba Medinipur	Sonamui	284	813.80	
Purba Medinipur	Dadanpatrabar	285	157.48	
Purba Medinipur	Mania	286	2,554,56	
Purba Medinipur	Dakshin Purushottampur	200	Total- 6,826.77 Acres	

The Panchayat & Rural Development Department, Government of West Bengal vide their Memo No. 4182/PN/O/1/4B-1/09 dated 21st September, 2011 has conveyed their No Objection in the matter subject to the observance of the conditions mentioned in the fourth provisio to the sub-section 14 of section 114A of the West Bengal Panchayat Act, 1973.

Hence, this is issued in consultation with the Finance Department, Government of West Bengal and approval of the Cabinet in its meeting held on 29th November, 2011.

By order of the Governor,

Sd/-DEBASHIS SEN Principal Secretary to the Government of West Bengal

## No. 2551/1(8) - T&CP/C-2/1P-5/2003

Kolkata, the 22nd December, 2011

Copy forwarded for information and necessary action to:

- 1. The Principal Secretary, Panchayat & Rural Development Department, Govt. of W.B.
- 2. The Principal Secretary, Finance Department, Govt. of W.B.
- The Principal Secretary, Tourism Department, Govt. of W.B.
- 4. The Principal Secretary, Environment Department, Govt. of W.B.
- 5. The P.S. to the Chief Secretary, Govt. of W.B.
- 6. The O S D to MIC of this Department.
- The Executive Officer, Digha Sankarpur Development Authority.
- 8. The P.A. to the Principal Secretary of this Department.

Joint Secretary to the Government of West Bengal Development & Planning (T&C?) Department # 18, Rabindra Sarani, Calcutta-1

No. 4350-T&CP/1C-6/89.

Calcutta, the 28th Movember, 1991.

#### NOT IF ICATION

WHEREAS the provisions of the West Bengal Town and Country (Planning and Development) Act, 1979 (West Ben. Act XIII of 1979) (horeinafter referred to as the said Act) have come into force in the areas described in the Schedule to this department notification No. 3445_TaCP/IC_6/89 dated 28th November, 1990.

AND WHEREAS in exercise of the power conferred by sub-section (1) read with sub-section (2) of section 9 of the said Act the State Government has been pleased to declare the area as montioned in the Schedule of this department notification No. 3446-TRCP/IC-6/ 89 dated 26th November, 1990 as the Planning Area for the purpose of the said Act.

AND WHEREAS in exercise of the power conferred by sub-sectio (1) rend with sub-section (2) of section 9 of the said Act the State Covernment has also been pleased to declare the eros as mentioned in the Schedule of this department notification No. 4349— TECP/IC-6/89 dated 28th November, 1991 as the Planning Area for the purpose of the said Act.

PAD WHEREAS the State Government has decided to amalgemate the aforesaid two planning areas as mentioned in this department notification No. 3446_TSCP/IC_6/89 deted 28th November 1990 and also this department notification No. 4349_TSCP/IC_6/89 deted 28th November 1991 into one Planning Area.

NOW. THEREFORE, in exercise of the power conferred by sub-section (3) of section 9 of the said act the Governor is pleased hereby to declare one Planning area after emalgamention, the area and limits of which shall be as defined in the Schedule below, to be the Manning area for the purpose of the said act.

## THE SCHED LE

51	Name of Mouza	Police Station	District	J.L.	Whole/ Pert.	Area in Acres	
No.	Nemo of About						
		- 1- C - N		76	Whole	332.23	
1.	Pedima	Digha	Midnepare	37	-do-	114.46	
2.	Duttopur	-do-	-do-	79	-do-	650,21	
3.	Paschim Gedadherpur.	-do-	-do	79	-do-	96-64	
4.	Bhagibrahmapur.	-do-	-do-	80	-do-	123.32	9
5.	Chempahoni.	-do-	-do-		_do_	83.71	
6.	Palsandapule	-do-	_do_	81	-do-	90.82	
1190	Ratenpur.	-do-	_do-	62		170,63	
7.		-do-	-do-	83	-do-	218.10	
8.	Jatimati.	-do-	-do-	85	-do-		
9.	Bilamrio.	-do-	-40-	86 87	-do-	533.78 145.56	
10.	Khaddlgobra.	_do_	-do-		-do-	329,53	
11.	Dakshin Jagadishpur.	_10_	_do_	88	40-	133.00	
12,	Gherasi.	_do_	-do-	89	-do-	. 85.42	
13.	Gobinda Basan.	_do_	-do-	90	-do-	173.38	
14.	Someis Basan.	-do-	-do-	91	-do-	94.85	
15.	Gadherpur.	40-	-do-	92	-do-	42.62	
16.	Atili.	_do_	ido-	93	-do-		3
17.	Jacai Basan.	-do-	-do-	94	<b>do-</b>	297.30	
18.	Mitrour.	-do-	-do-	95	-do-	22.85	
19.	Mirzapur.	Ramagaz.	-do-	207	-do-	223.09	
20.	Jhaugeria.	Digha	-00-	211	-do-	872.41	
21.	Purbamikhudarpur.	-do-	-do-	212	-do-	316.33	
22	Degunadiha.	-do-	-do-	213	-do-	230.00	
23.	*Dicha.	_do_	do-	216	_do_	19.62	
24.	*Thawa.	Ramagar	-do-	217	-do-	. 38.10	
25.	Kiyageria.	-do-	-do-	222	-do-	145.96	
26.	Dakshin Balarempur.	-do-	-do-	225	-do-	62.43	
27.	Purba Birempur.	100000000000000000000000000000000000000	-do-	228	-00-	280.90	
28.	Kashipur.	-do-	do	234	-do-	306.57	
29.	Bichra.	-do-		235	-do-	268-26	
30.	Tangramari.	<b>~</b> 00-	-do-	239	-do-	92.29	
		-do-	-do-		. =do=	630-47	
31.	Inldhe.	-do-	-do-	242	2000	85,50	
32.		Digha	.do-	223	-do		
33.	Ni pura	řamnagar	-clo-	224	-do-	126.90	
34.	Shankarpur.	I'MIRITED A	-070.00			•	

-1 2 1-

Si. No. Name of Modza.	Police Station.	District.	JeL. No.	Whole/ Part.	Area in
35. Choto Balarampur. 36. Dalbaldia. 37. Fench Dharia. 38. Lachhimpur. 39. Kaima. 40. Jamra-Shyampur. 41. Raipur. 42. Chandpur.	Ramagardodododododo_ Digha Ramagar	Midnapur.	214 220 221 219 236 218 215 237	Whole,	42:08 105.69 77.69 128.51 129.02 138.75 98.93 384.72

Indicates non-existence of mouze since they have been washed away by the sea.

By order of the Governor, Sd/_ S.K.Roy, Joint Secretary to the Government of West Bengel

No. 4350/1-T&CP/1C-6/89.

Calcutta, the 28th November, 1991.

Copy forwarded to Executive Officer, Digha Planning Authority for information and necessary action.

No. 4437_T&CP/1C-6/89. Copy forwarded to information to :-

Sd/_ S.K.Roy, Jt.Secy.to the Govt.of West Benga! Calcutta, the 6th December, 1991.

1. The Secretary,

All Department

2. The Commissioner, _

All Division

- 3. The District Magistrate, All District. 4. The Accountant General, West Bengal, Treasury Bldger, Cal-1.
- The Administrator, Digha Township.
- 6. The Financial Adviser, Dev. & Planning Deptt.
- 7. The Private Secretary to the Chiof Secretary, West Bengal.
- 8. The Private Secretary to the Chief Minister, West Bengal.
- 9. The Private Secretary to the Minister-in_Charge of this Doptt.
- 10. The Chairman, Digha Planning Sutherity.

11. All mombers of Digha Planning Authority.

Heads of all Stream/Section/Cells of this Deptt.

13. The Law Officer of this Department.

14. The Gazetteo Copy.

Assistant Secretary to the Government of West Bengal.

Datta/6.12.91.

A.6 Salinity Report on River Hugli



# कोलकाता पत्तन न्यास KOLKATA PORT TRUST तोयातिकी अध्ययन विभाग HYDRAULIC STUDY DEPARTMENT २०, गार्डन रीच रोड 20, GARDEN REACH ROAD



20, GARDEN REACH ROAI कोलकाता ७०००४३ KOLKATA 700 043

## Representative Salinity data (in ppt) of the desired locations in the Hughli Estuary.

Date	State of Tide	Locations				
		Diamond Harbour (Left Bank)	Hughli Point (Left Bank)	Near Hughli Point (Right Bank) entrance of Rupnarayan		
20-02-2017	Neap (N)	1,44	0.45			
13-02-2017	Spring (S)	1.80	1.08			
01-02-2016	N	1.15	0.72	***************************************		
25-01-2016	S	1.28	0.72			
12-12-2015	S			0.96		
30-01-2015	N	0.72	0,36			
22-01-2015	S	1.80	0.63			
11-02-2014	N	0.84	0.36			
03-02-2014	S	1.53	0.81	4		
19-02-2013	N	1,42	0.8			
11-02-2013	S	1.62	0.26			
25-01-2011	N	1.17	0.77			
18-02-2011	S	1.45	0.72			
05-02-2010	S	1.15	0.54			
25-02-2010	N	0.54	0.18			
30-01-2009	S	2.30	1.30			
20-02-2009	N	1.60	0.90			
12-02-2008	S	1.58	0.90			
	N	0.77	0.23			
18-02-2008	S	1.26	0.54	1		
05-02-2007	N	0.79	0.47			
09-02-2007 21-02-2006	N	1.26	0,66			

20/07/2018.

(Dr. Manas Kumar Das / ड: मानस कुमार दास)

Deputy Director / उप निदेशक

For Chief Hydraulic Engineer / कृते मुख्य हाइड्रोलिक इंजीनियर

Coastal Zone Management Plan, West Bengal

A.7 SBR Notification

Annexure—V-G

No. 16/6/84-CSC

## GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT AND FORESTS

'PARYAVARAN BHAVAN' CGO COMPLEX, PHASE-II, LODHI ROAD, NEW DELHI-110 CO3.

Dated the 29th March., 1989.

To

The Chief Secretary. Government of West Bengal. Writers Building. Calcutta-700 001

....

Subject: Establishment of Biosphere Reserve at Sunderbans

The Government of India have identified potential sites for preserving biological diversity with the Sir. following broad objectives:-

- -conservation of representative samples of ecosystem;
- -provision of long-term conservation of genetic diversity in situ,
  - -promotion of basic and applied research work and its monitoring; and
  - -dissemination of experience for education and training.
- One of these the one representing the Bengalian Rain forest biogeographic region is Sunderbans. A project document for setting up of the above Biosphere Reserve in accordance with the guidelines on the subject was prepared by Shri P. Sanyal, Assistant Chief Conservator of Forests, Government of West Bengal. This has been considered in detail by the Government of West Bengal and the
- 3. In their telex message No. WB/St/TLX/ND/2303/88, dated the 17th March, 1988, the Government of West Bengal have conveyed their acceptance of the proposal for setting up of a Biosphere Reserve in Sunderbans
- 4. The Biosphere Reserve is proposed in the delta of Ganges-Brahmaputra River System in West Bengal, South of Dampier-Hodges Line', between 21°30' to 22'45' (N) Latitude and 85' 00' to 89°05' (E) Longitude, extending over an area of 9,630 sq.kms. The boundary and zonation into core and buffer zones of the Biosphere Reserves, as recommended in the project document and accepted by the Government of West Bengal is given at Annexure-I. The details of the area to be earmarked for manipulation activities such as forestry, agriculture, ecorestoration, aquaculture, agrofisheries, etc., will be worked out by the project authority.
- 5. A Research Committee with the composition as indicated at Annexure-III will be set up for identifying researchedreas, the institutions capable of undertaking research in the Biosphere Reserve area and assistance to be provided for this purpose. The research institutions identified are listed in Annexure-IV.

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## Coastal Zone Management Plan, West Bengal

For some and extraction of a proposal by the Government of West Bengal for setting up to be some Kentre of business demandation of boundaries and agreement on the modalities of setting up at the finisphere Reserve, all preparatory work agreement to the declaration of the Biosphere Reserve that occurs outplieted it has therefore, been decided that the Sunderbans Biosphere Reserve where the total and deciment to have come into being with effect from the date of issue of this letter.

The tollowing win he the important aspects of the Sunderbans Biosphere Reserve-

- as The core and the buffer areas and manipulation adoptites which may be permitted in the buffer cone will be an conformity with the general guidelines for Biosphere Reserve. A detailed map and be subsequently submitted by the Government of West Bengal.
- by the core zone of the Biosphere Reserve will be kept absolutely undsturbed.
- In Ine constitution of the Biosphere Reserve by itself will not in any way change the status of legal ownership of the land and forests.
- d) There will be a Biosphere Reserve-Management Council with the composition given in Annexure-II
- of The Centre will provide financial assistance for approved items of expenditure included in the Action and Management Plan to be prepared by the Government of West Bengal. This may broadly come under the following heads:—

burvey

Conservation

Protection

Ecorestoration

Education & awareness

- ti There will be a Research Committee as per composition shown in Annexure-Ill
- 4) The Government of West Bengal will set up a local Committee for coordination of the activities of various departments in the Biosphere Reserve area.
- h) The State Government will nominate an Officer as Director of the Biosphere Reserve area. He may be an existing functionary who may not necessarily be an exclusive functionary for this purpose.

Yours faithfully,

Sd.

(K. P. Geethakrishnan) Secretary to the Government of India

Encil As above

Copy to -

The Secretary, Planning Commission, Yojana Bhavan, New Delhi.

- 7 Chief (Science), Planning Commission, Yojana Bhauan, New Delhi.
- 3 The Secretary, Department of Environment, Government of West Bengal, Writers' Building, New Delhi
- 4 The Secretry, Department of Forests, Government of West Bengal, Calcutta.
- 5. The Chief Conservator of Forests, Government of West Bangal, Calcutta.
- 6 The Chief Wildlife Warden, Government of West Bengal, Calcutta.

Sd

(K. P. Geethakrishnan) Secretary to the Government of India