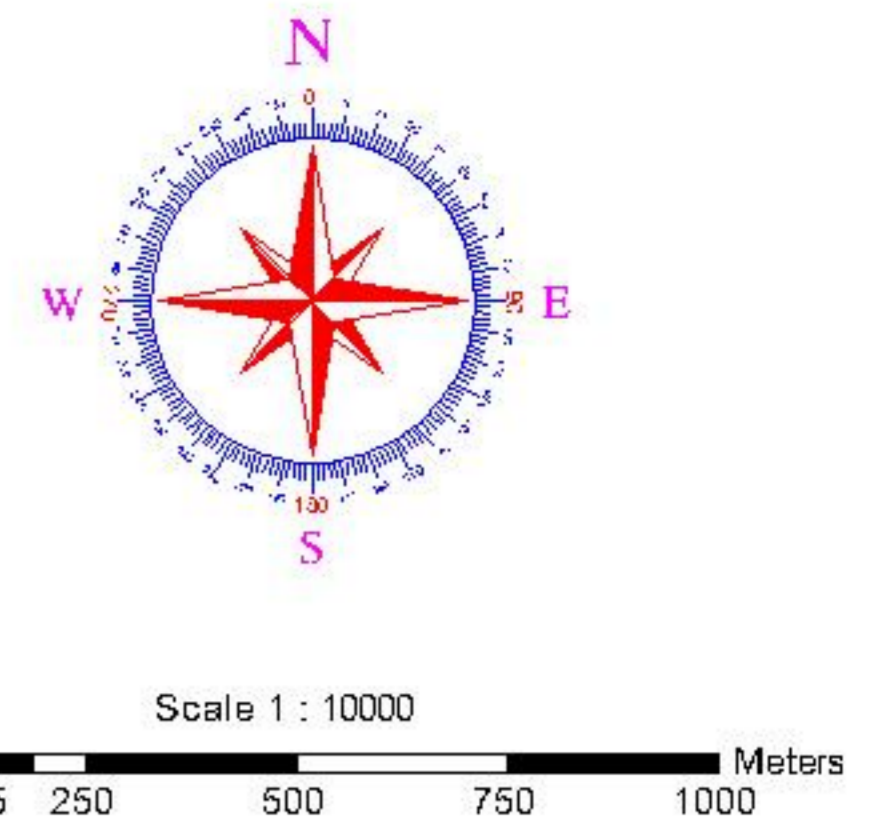


PIPELINE ROUTING & OVERALL LAYOUT



N ~20°16'0"

N ~20°16'0"

N ~20°14'0"

N ~20°14'0"

N ~20°12'0"

N ~20°12'0"

RECLAMATION AREA PRATAP PURA

PARADIP REFINERY NORTH SIDE

PARADIP REFINERY SOUTH SIDE

SANTA CREEK

Return Water Collection Pit

Elevated Projection

Pipeline route for the CSD Dredger

Pipeline route for the TSHD Dredger/Return water

Shoreline

Pipeline Length = 8KM
Pipeline Length = 6KM

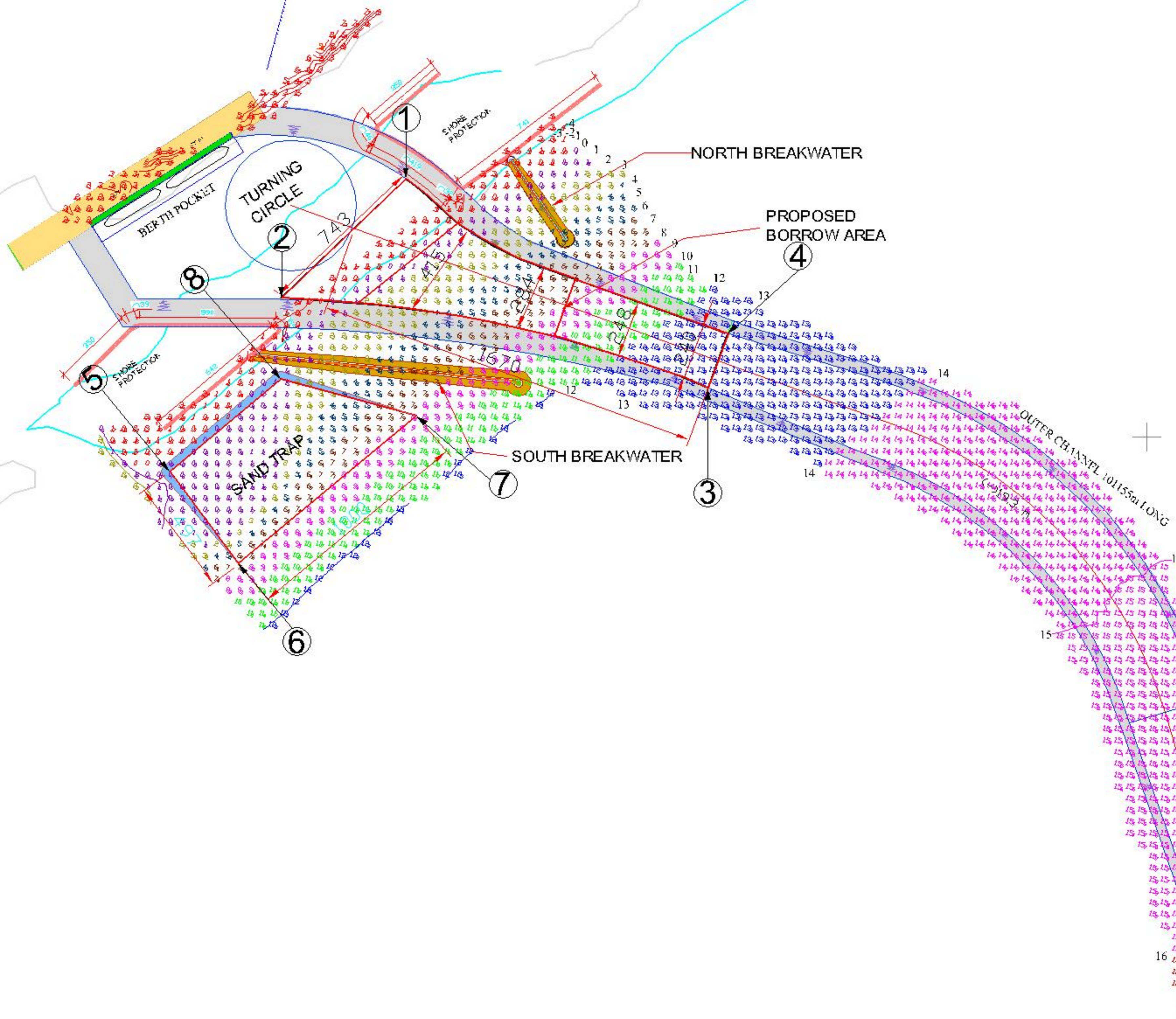
NOTE:	
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2. Pipeline routes are shown as tentative, which may vary due to site conditions.	
3. Booster pump location is tentative, it vary depends upon the material, site condition and pipeline distance.	
PMC	DREDGING CORPORATION OF INDIA
PROJECT	DPR FOR THE DEVELOPMENT OF INDUSTRIAL LAND BY UTILIZATION OF DREDGED MATERIAL AT PRATAPPUR & FATEPUR, PARADIP FOR IDCO, GoO
DRAWING TITLE	PIPELINE ROUTING OVERALL LAYOUT
DRAWING NO	DCI/IDCO/PIPELINE/TOPO/1
Prepared by (NTCPWC)	

NORTH BREAKWATER

PROPOSED BORROW AREA

SOUTH BREAKWATER

OUTER CHANNEL 10115m LONG

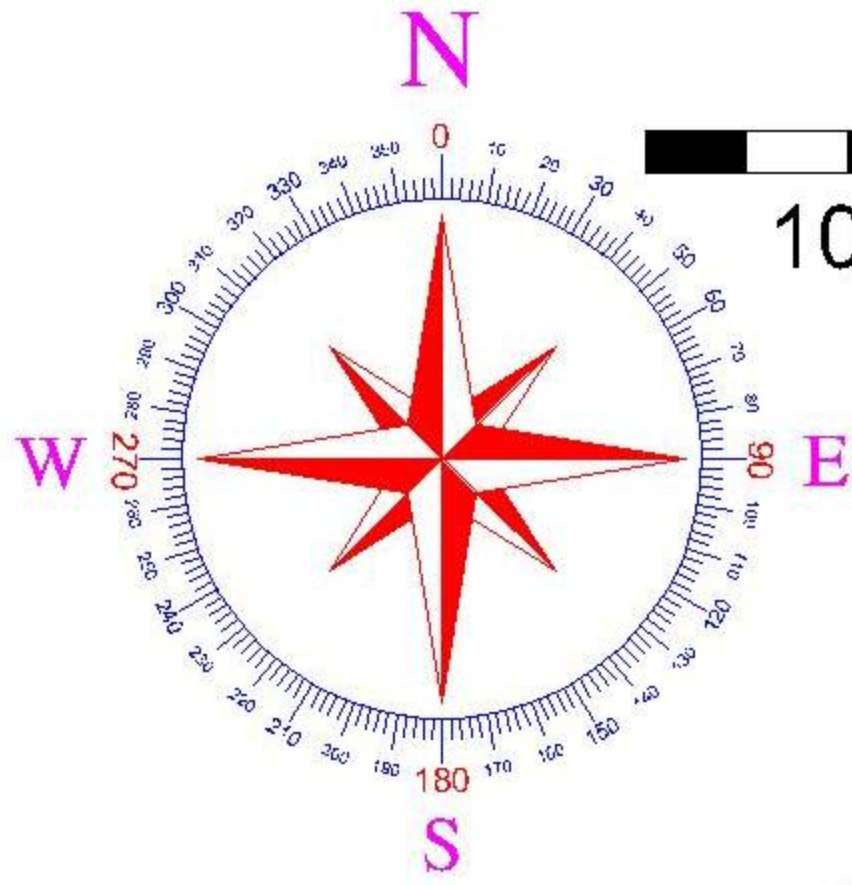


E ~86°34'0"

E ~86°36'0"

E 86°34'0"

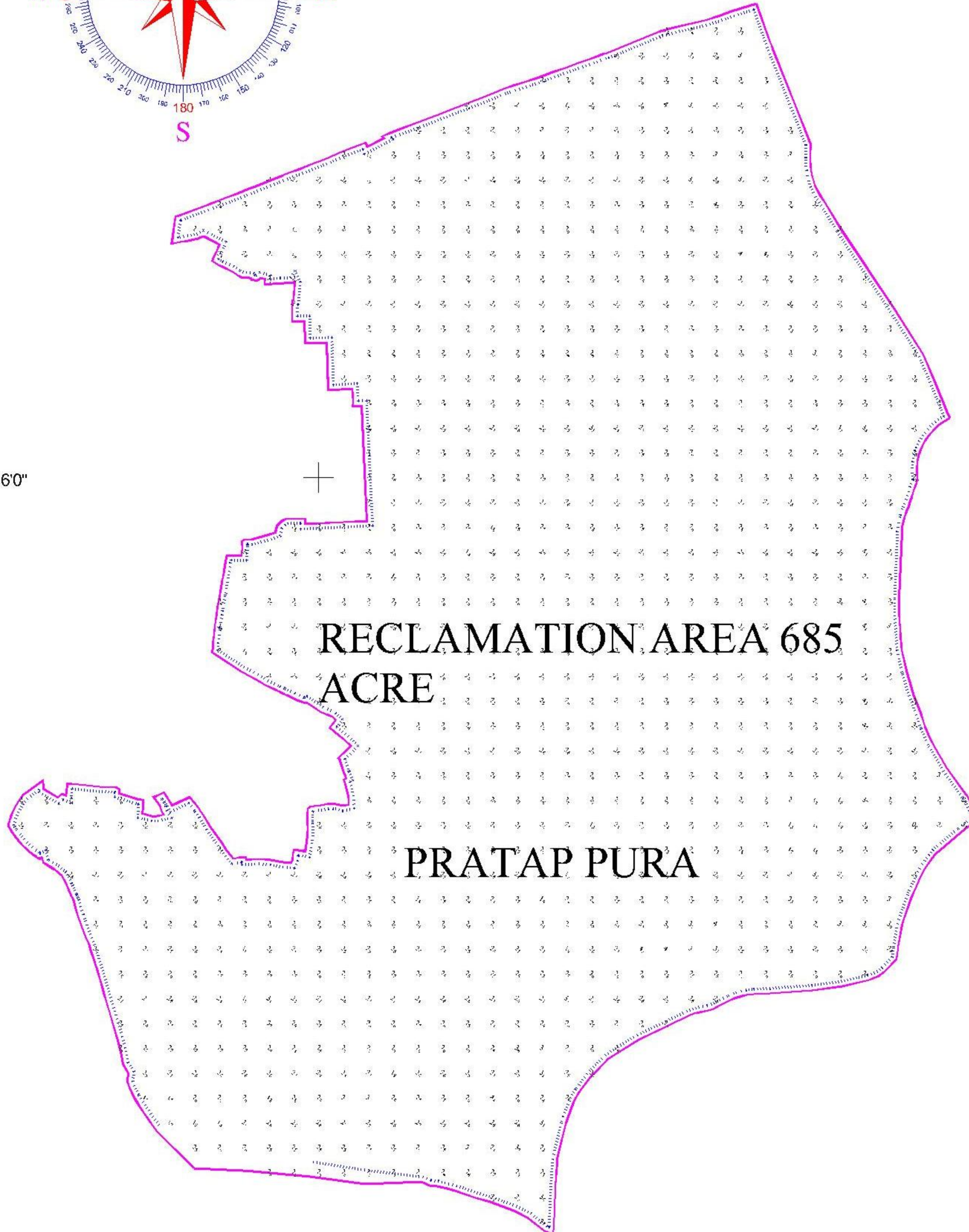
Scale 1 : 10000



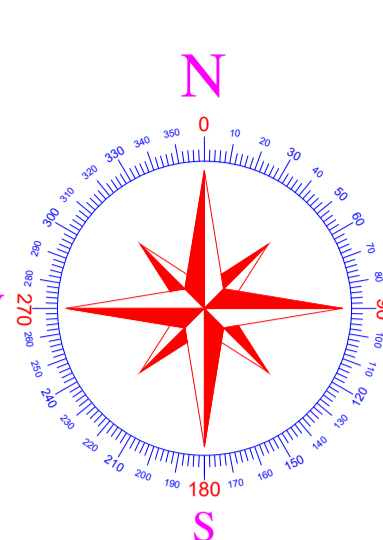
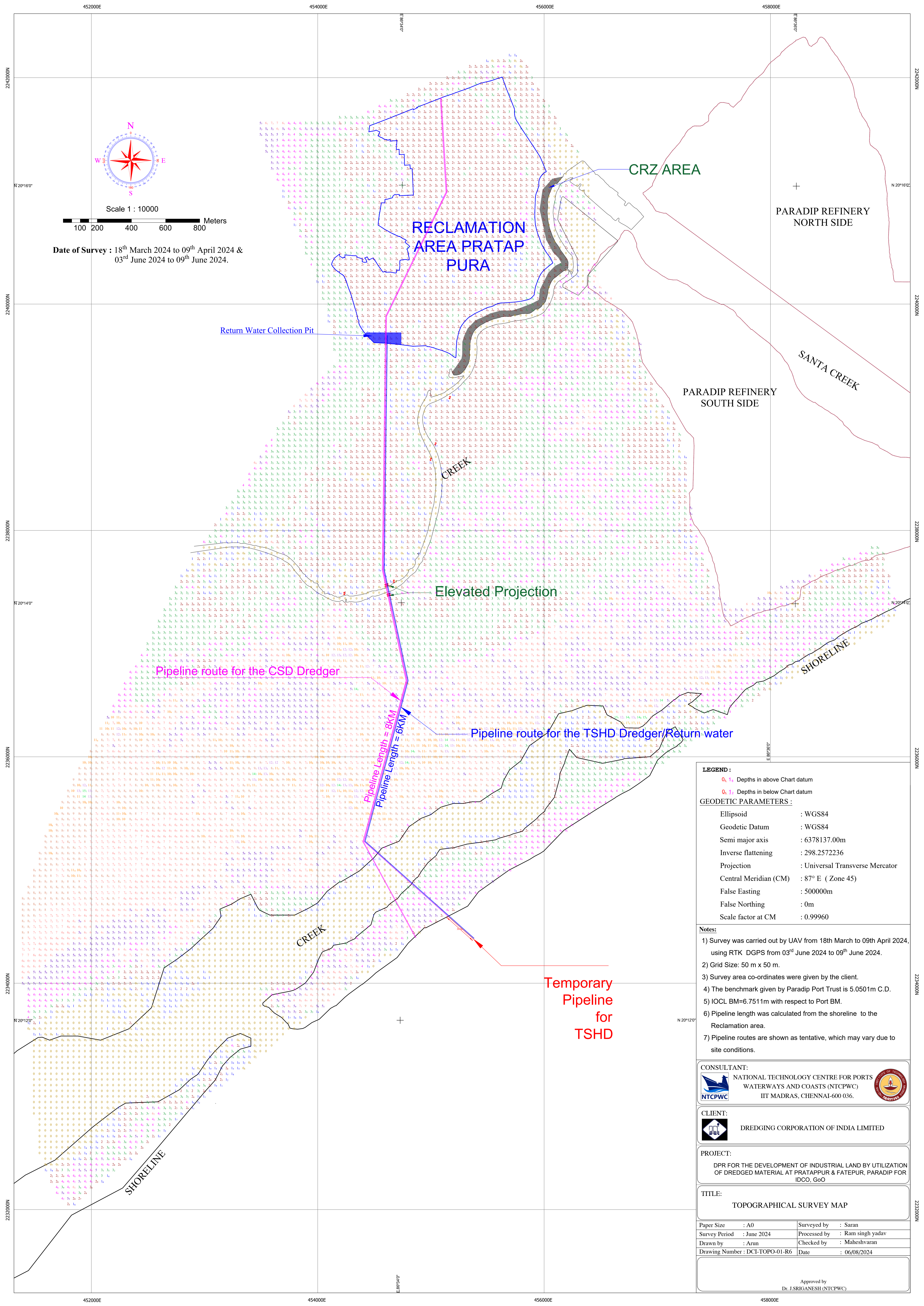
Meters

Notes:

RECLAMATION AREA TOPOGRAPHICAL SURVEY MAP



Notes:	
1) Survey was carried out from 03rd June 2024 to 09th June 2024.	
2) Grid Size: 50 m x 50 m.	
3) Survey area co-ordinates were confirmed by the client.	
4) The benchmark given by Paradip Port Trust is 5.0501m C.D.	
NAME OF THE WORK:	
DREDGING & RECLAMATION WORK FOR DEVELOPMENT OF LAND FOR INDUSTRIAL ACTIVITIES AT PARADIP	
CLIENT:	
ODISHA INDUSTRIAL INFRASTRUCTURE DEVELOPMENT CORPORATION (IDCO)	
PMS:	N 20°16'0"
DREDGING CORPORATION OF INDIA LIMITED	
SURVEY AGENCY:	
NATIONAL TECHNOLOGY CENTRE FOR PORTS WATERWAYS AND COASTS (NTCPWC) IIT MADRAS, CHENNAI-600 036.	
GEODETIC PARAMETERS :	
Ellipsoid	: WGS84
Geodetic Datum	: WGS84
Semi major axis	: 6378137.00m
Inverse flattening	: 298.2572236
Projection	: Universal Transverse Mercator
Central Meridian (CM)	: 87° E (Zone 45)
False Easting	: 500000m
False Northing	: 0m
Scale factor at CM	: 0.99960
Survey Period : 03-06-24 to 09-06-24	Surveyed/Processed by : NTCPWC
Average Level : 2.655 mts	Checked by : DCI Ltd.
BM : 6.7511 mts wrt CD	Depth of filling : 2.946 mts
Target Level : 5.6011 mts wrt CD	
Drawing No. : DCI/IDCO/Reclamation/Topo/1	



Scale 1 : 10000
100 200 400 600 800 Meters

Date of Survey : 18th March 2024 to 09th April 2024 & 03rd June 2024 to 09th June 2024.

LEGEND :

- Depths in above Chart datum
- Depths in below Chart datum

GEODETIC PARAMETERS :

- Ellipsoid : WGS84
- Geodetic Datum : WGS84
- Semi major axis : 6378137.00m
- Inverse flattening : 298.2572236
- Projection : Universal Transverse Mercator
- Central Meridian (CM) : 87° E (Zone 45)
- False Easting : 500000m
- False Northing : 0m
- Scale factor at CM : 0.99960

- Notes:**
- 1) Survey was carried out by UAV from 18th March to 09th April 2024, using RTK DGPS from 03rd June 2024 to 09th June 2024.
 - 2) Grid Size: 50 m x 50 m.
 - 3) Survey area co-ordinates were given by the client.
 - 4) The benchmark given by Paradip Port Trust is 5.0501m C.D.
 - 5) IOCL BM=6.7511m with respect to Port BM.
 - 6) Pipeline length was calculated from the shoreline to the Reclamation area.
 - 7) Pipeline routes are shown as tentative, which may vary due to site conditions.

CONSULTANT:

NATIONAL TECHNOLOGY CENTRE FOR PORTS
WATERWAYS AND COASTS (NTCPWC)
IIT MADRAS, CHENNAI-600 036.

CLIENT:

DREDGING CORPORATION OF INDIA LIMITED

PROJECT:

DPR FOR THE DEVELOPMENT OF INDUSTRIAL LAND BY UTILIZATION OF DREDGED MATERIAL AT PRATAPPUR & FATEPUR, PARADIP FOR IDCO, GoO

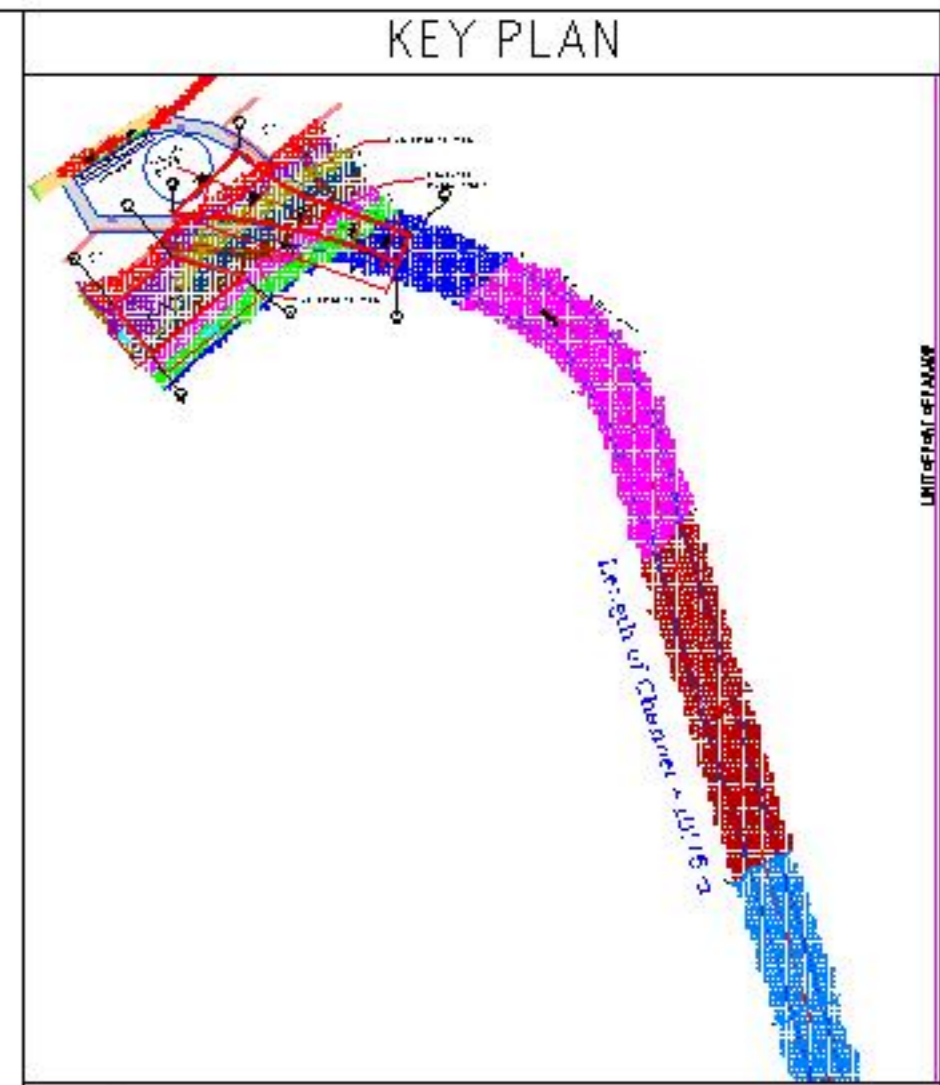
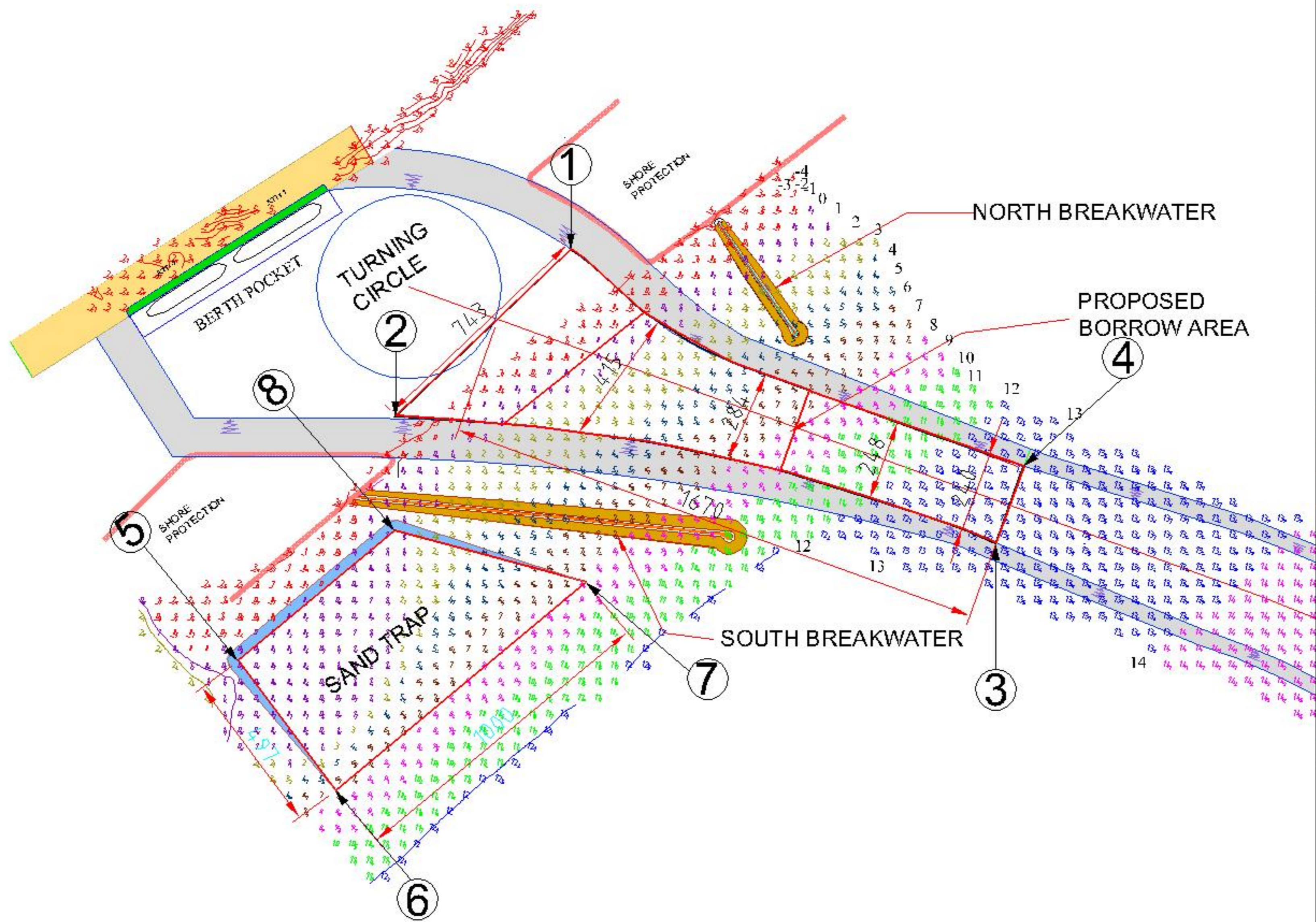
TITLE:

TOPOGRAPHICAL SURVEY MAP

Paper Size : A0	Surveyed by : Saran
Survey Period : June 2024	Processed by : Ram singh yadav
Drawn by : Arun	Checked by : Maheshvaran
Drawing Number : DCI-TOPO-01-R6	Date : 06/08/2024

Approved by
Dr. J.SRIGANESH (NTCPWC)

PROPOSED BORROW AREA FOR RECLAMATION



LEGEND:

	DESCRIPTION	DREDGING DEPTH (m)
█	OUTER CHANNEL	(-19.3)
█	HARBOUR BASIN	(-18.4)
█	SAND BAR	(-18.4)
█	SAND TRAP	(-18.0)

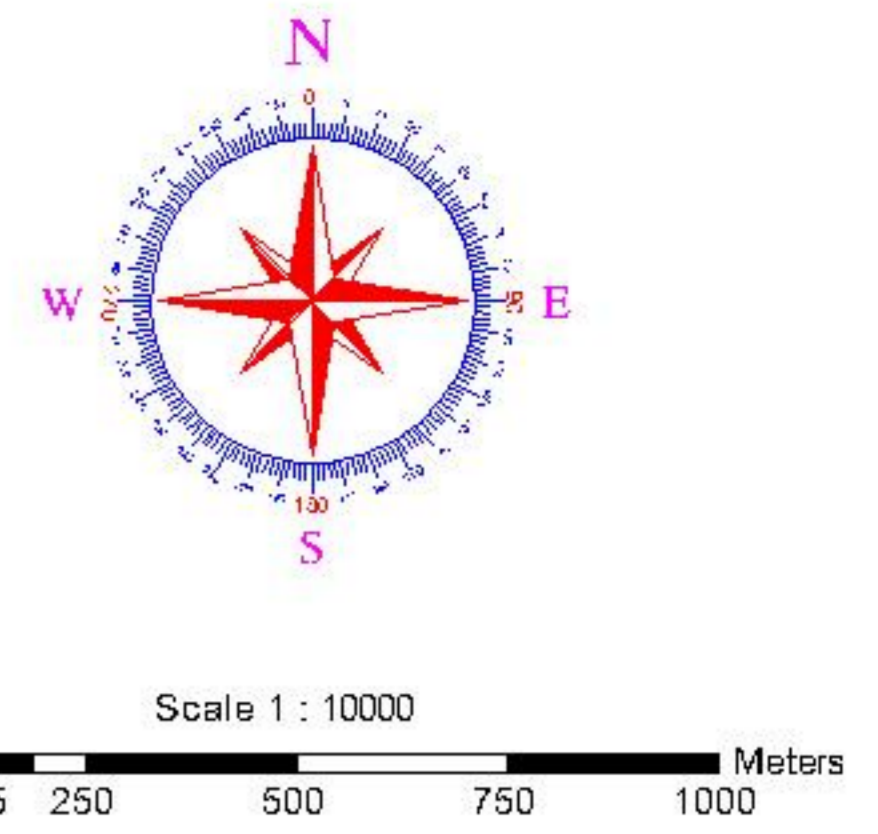
Co-ordinates of Proposed Borrow Area

SL. NO	EASTING	NORTHING	SL. NO	EASTING	NORTHING
1.	455014	2234776	5.	453993	2233514
2.	454476	2234264	6.	454290	2233115
3.	456315	2233874	7.	455060	2233753
4.	456402	2234110	8.	454474	2233912

NOTE:-

- 1. Boundary shows the area please be careful before using the work.
- 2. Side slopes shall be 1:1 & walls to be shown if any the D/W otherwise.
- 3. Over dredging shall not be done beyond specified design depth.
- 4. The co-ordinates of the proposed area shall be correct as per the data will be confirmed before commencement of the work.

PIPELINE ROUTING & OVERALL LAYOUT



N ~20°16'0"

N ~20°16'0"

N ~20°14'0"

N ~20°14'0"

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RECLAMATION AREA PRATAP PURA

PARADIP REFINERY NORTH SIDE

PARADIP REFINERY SOUTH SIDE

SANTA CREEK

Return Water Collection Pit

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Pipeline route for the CSD Dredger

Pipeline route for the TSHD Dredger/Return water

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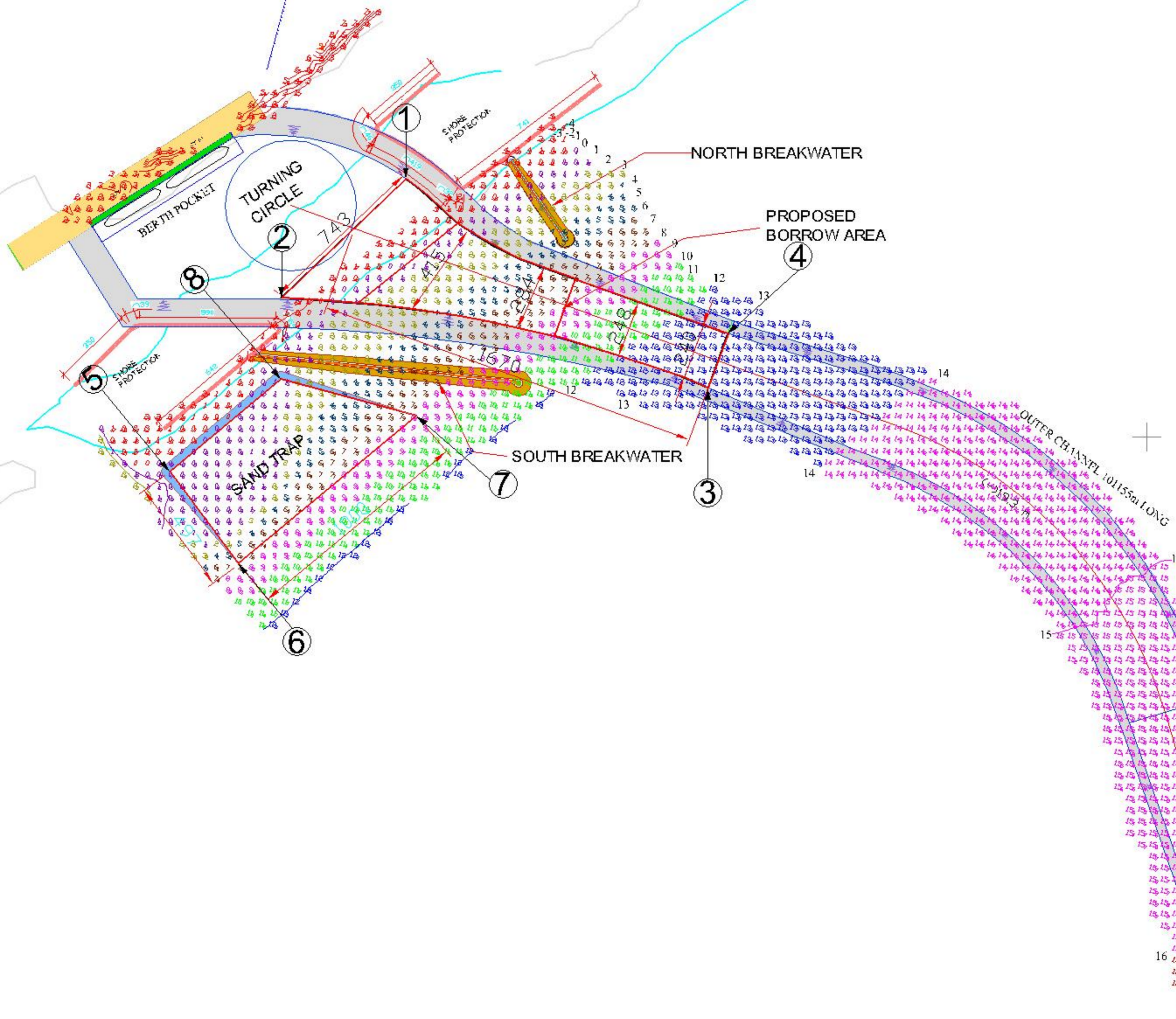
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DRAWING TITLE	PIPELINE ROUTING OVERALL LAYOUT
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Prepared by (NTCPWC)	

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PROPOSED BORROW AREA

SOUTH BREAKWATER

OUTER CHANNEL 10115m LONG

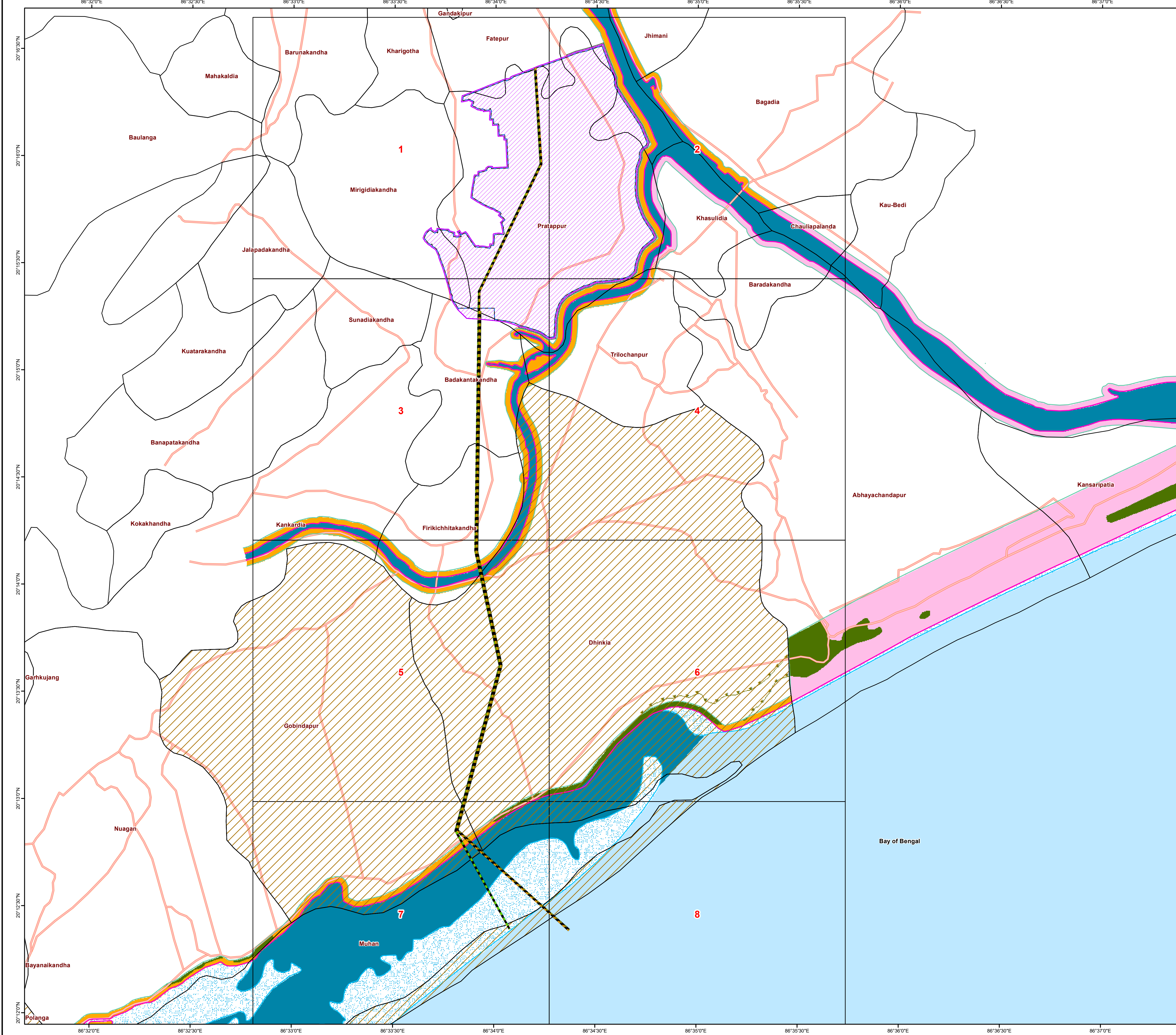


E ~86°34'0"

E ~86°36'0"

Preparation of Local Level CRZ Map for Proposed Land Raising of IDCO Site at Paradip through Pipeline Transportation of Permitted Dredged Spoils from Sea at Pratappur & Fatepur Villages, Kujang Tehsil, Jagatsinghpur District, Odisha by Superimposing on Approved CZMP as per CRZ Notification 2019

Index Map



LEGEND

SOURCE : APPROVED CZMP (MAP NOS : OD 42, 43, 45 & 46) AS PER CRZ NOTIFICATION 2019

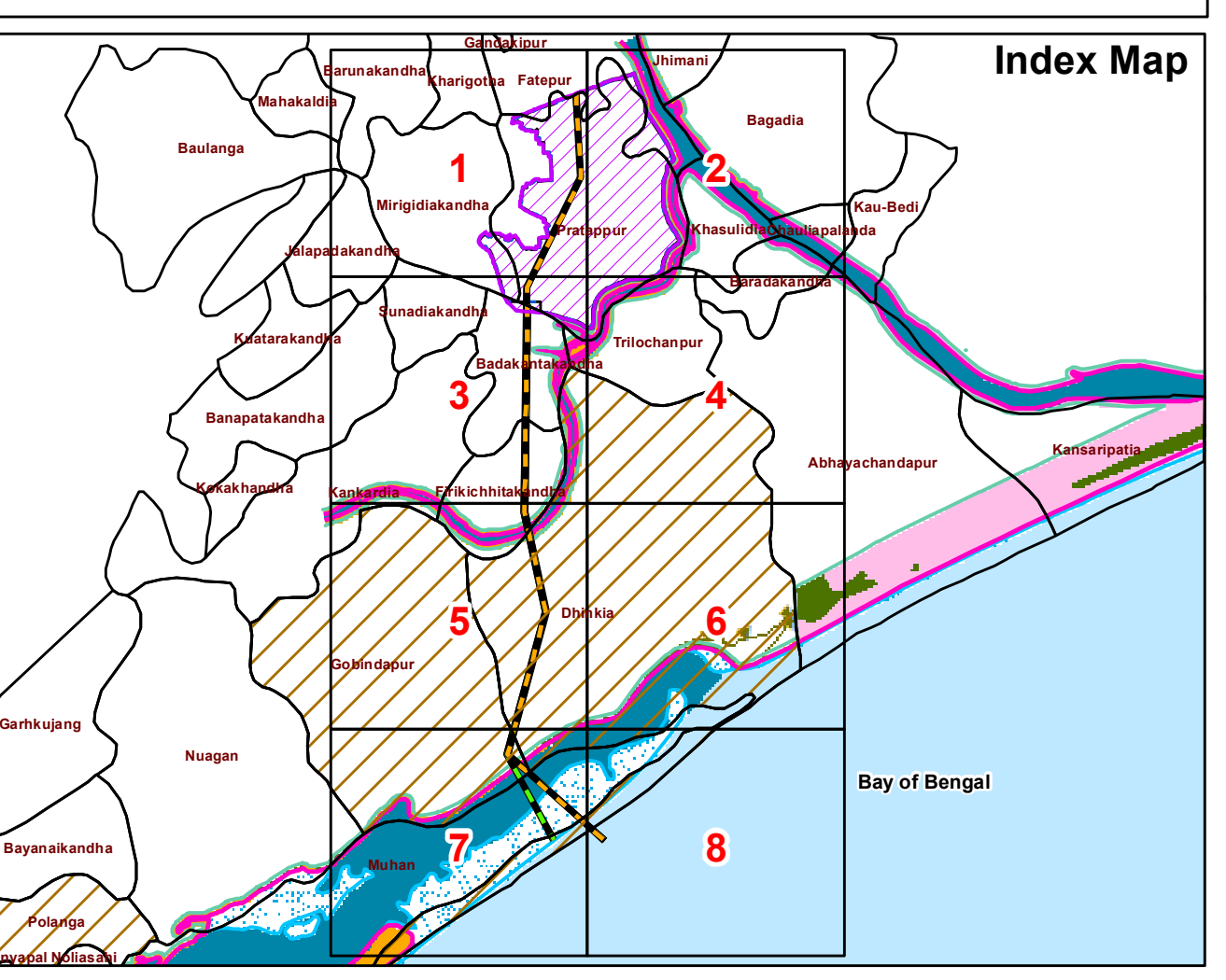
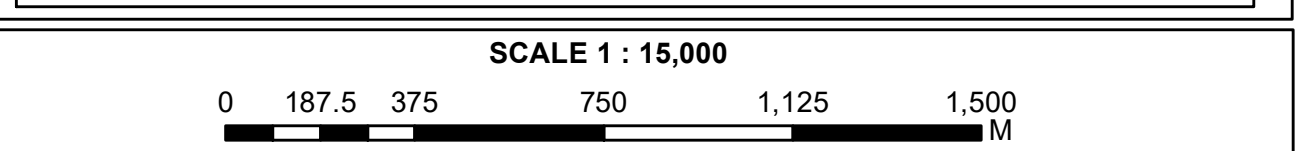
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- FISHERMEN VILLAGE
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- CRZ - IB
- CRZ - II
- CRZ - III (NO DEVELOPMENT ZONE)
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- CRZ - IVB
- HTL REFERENCE POINT

SOURCE : CLIENT

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Note:

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CHENNAI - 600 025

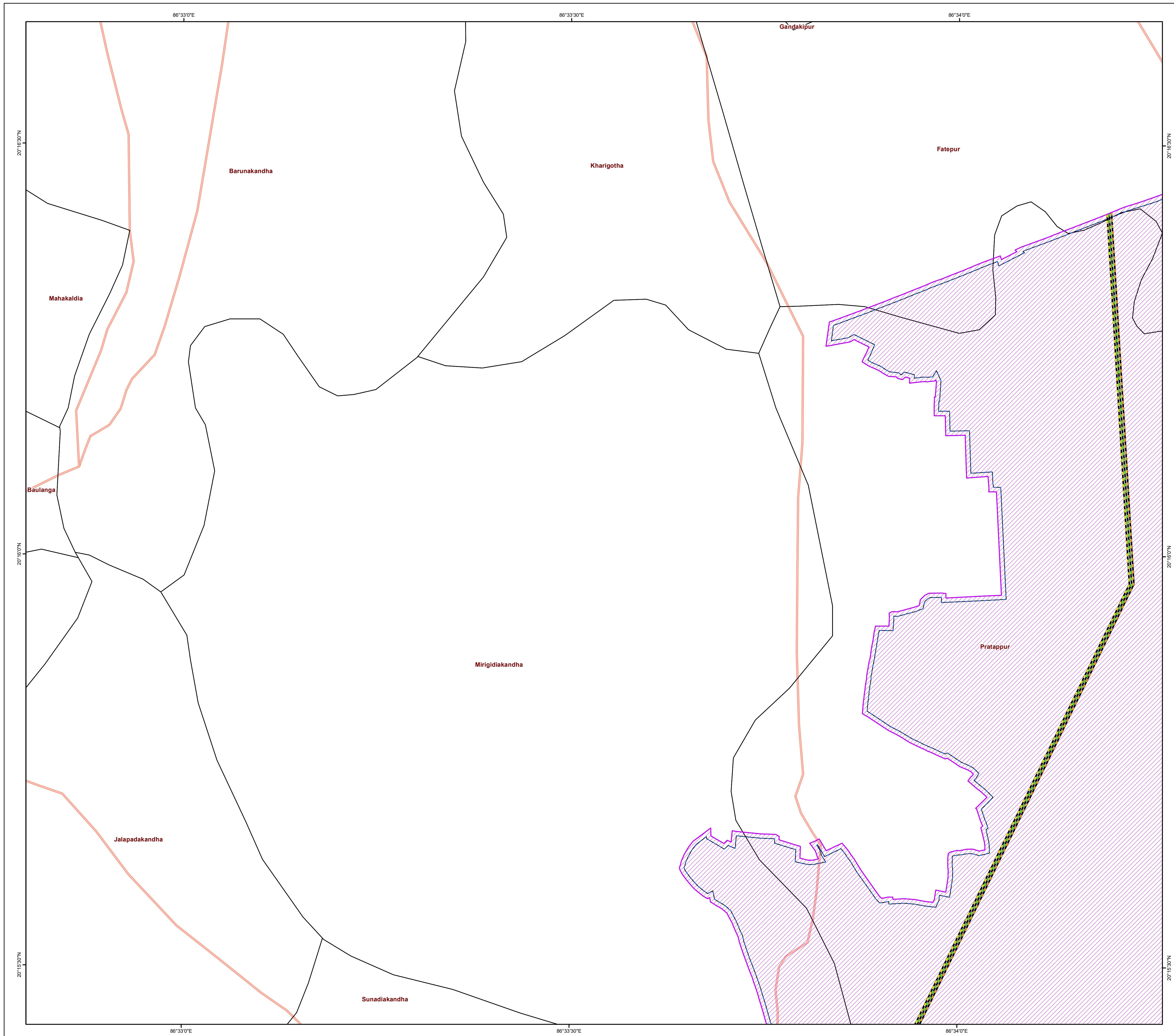
REF NO. AU/IRS/DIV/.../2024-25 DT. .../2024 (Oct. 2024)

For
National Technology Centre for Ports, Waterways and Coasts
Indian Institute of Technology Madras (IITM)
Chennai - 600 036

PREPARED BY	
VERIFIED BY	
QUALITY CHECKED BY	
APPROVED BY	

DRAFT

Preparation of Local Level CRZ Map for Proposed Land Raising of IDCO Site at Paradip through Pipeline Transportation of Permitted Dredged Spoils from Sea at Pratappur & Fatepur Villages, Kujang Tehsil, Jagatsinghpur District, Odisha by Superimposing on Approved CZMP as per CRZ Notification 2019



LEGEND

SOURCE : APPROVED CZMP (MAP NOS : OD 42, 43, 45 & 46) AS PER CRZ NOTIFICATION 2019

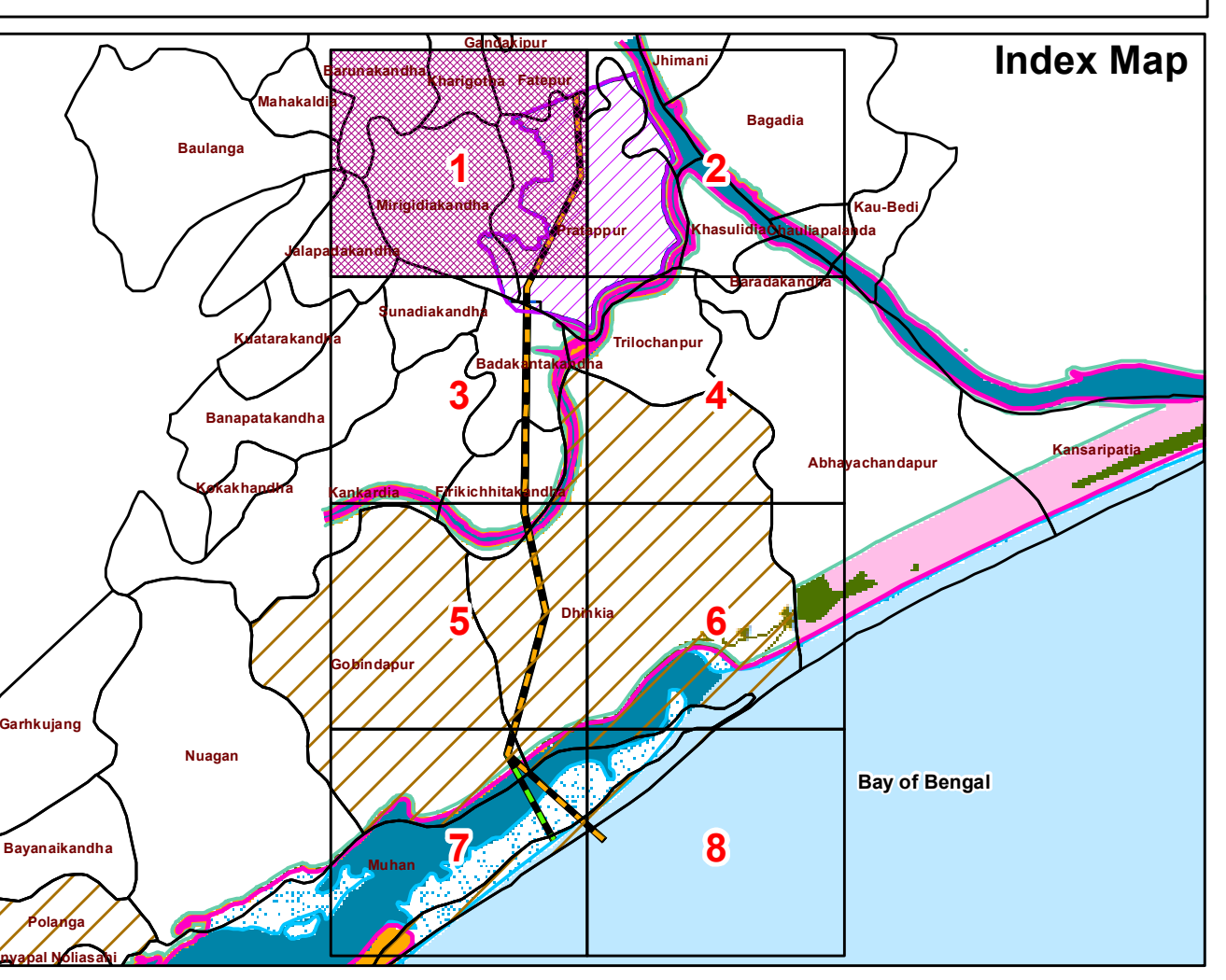
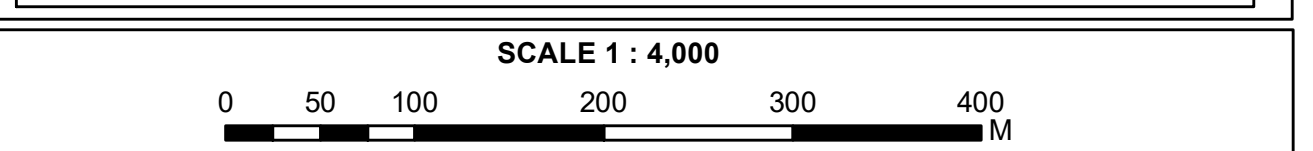
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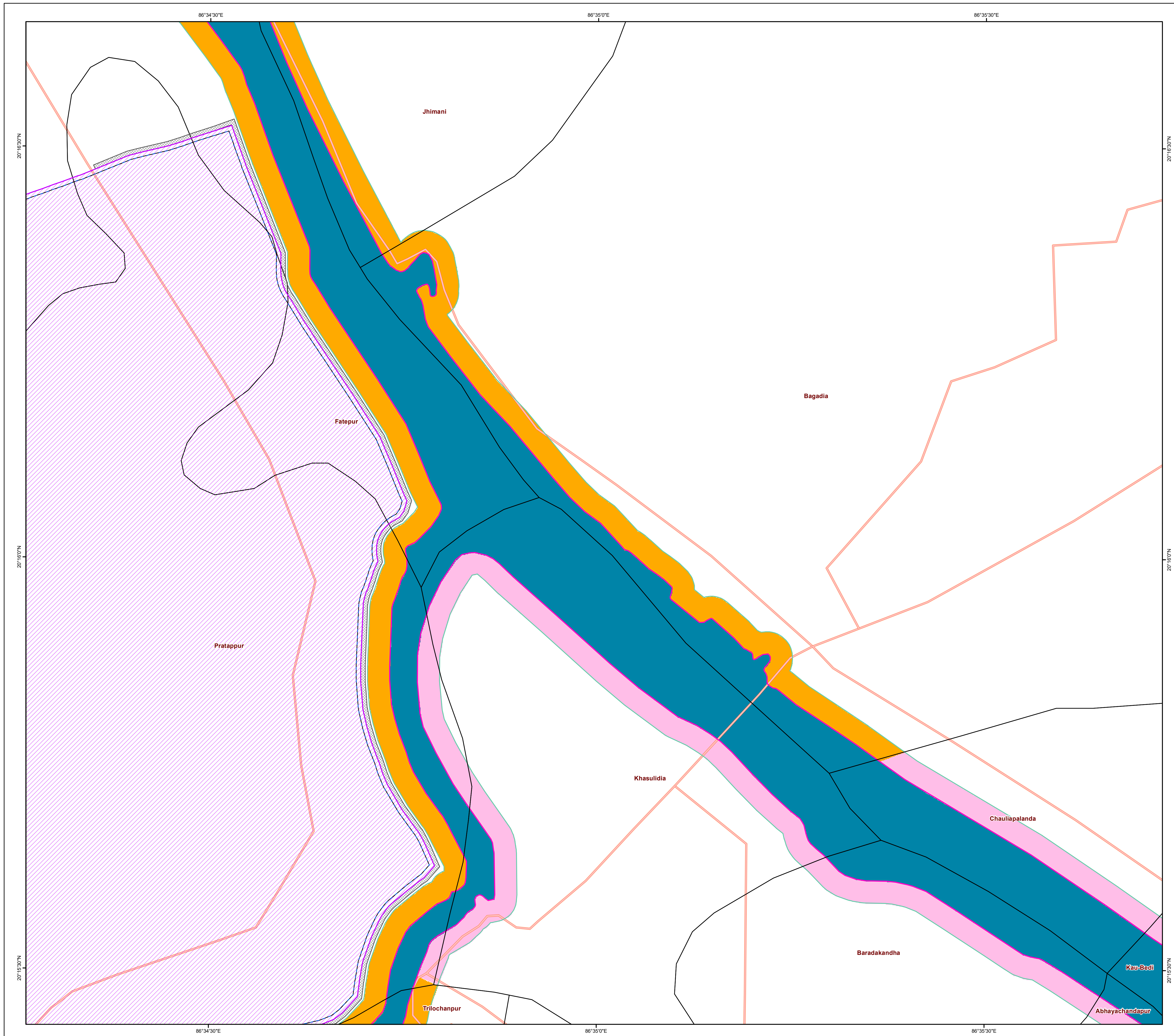
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For
National Technology Centre for Ports, Waterways and Coasts
Indian Institute of Technology Madras (IITM)
Chennai - 600 036

PREPARED BY	
VERIFIED BY	
QUALITY CHECKED BY	
APPROVED BY	

DRAFT

Preparation of Local Level CRZ Map for Proposed Land Raising of IDCO Site at Paradip through Pipeline Transportation of Permitted Dredged Spoils from Sea at Pratappur & Fatepur Villages, Kujang Tehsil, Jagatsinghpur District, Odisha by Superimposing on Approved CZMP as per CRZ Notification 2019



LEGEND

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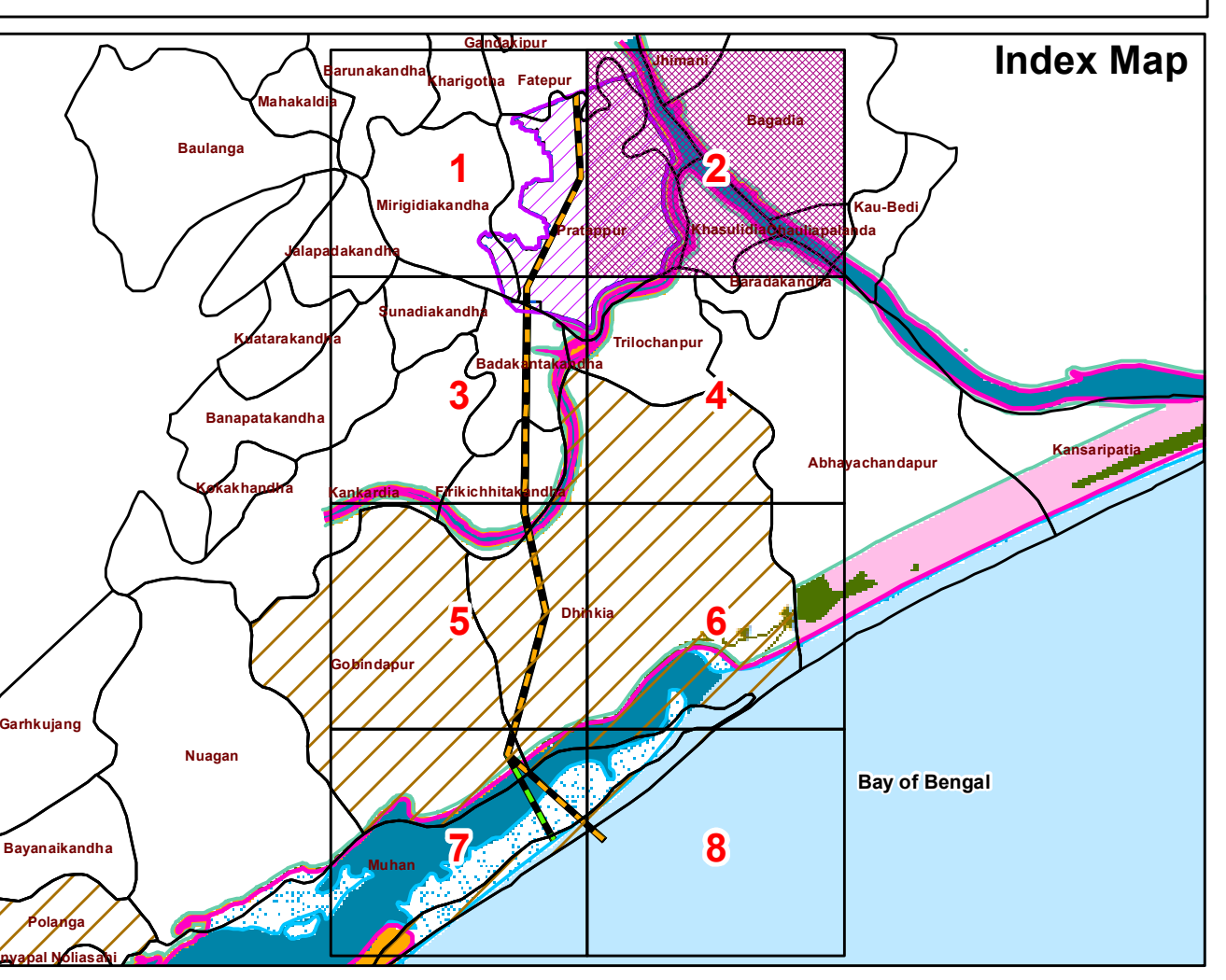
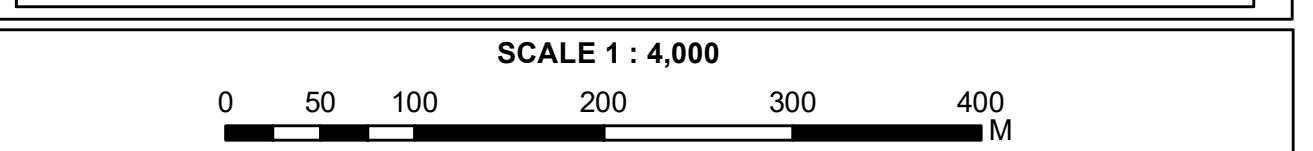
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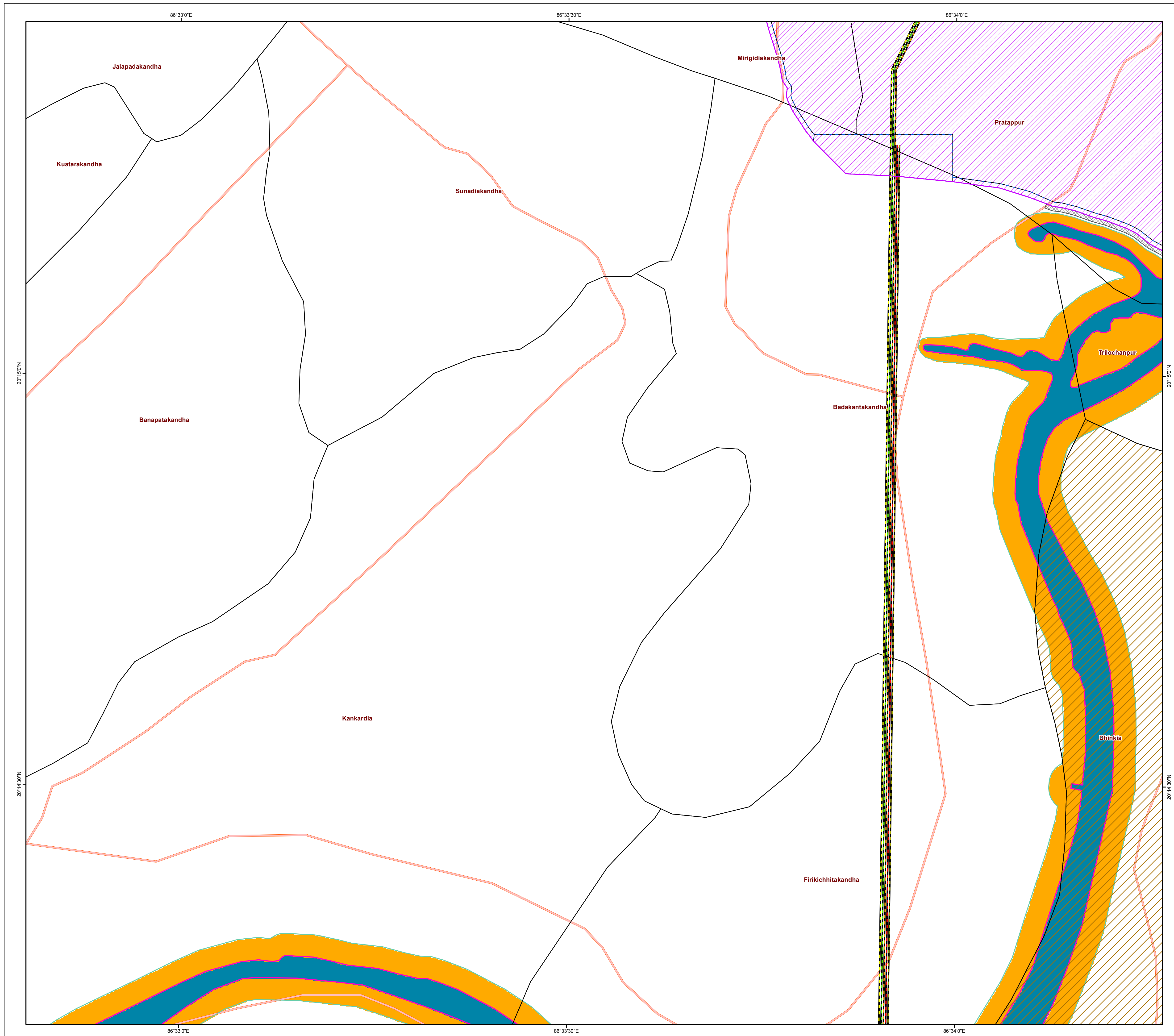
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For
National Technology Centre for Ports, Waterways and Coasts
Indian Institute of Technology Madras (IITM)
Chennai - 600 036

PREPARED BY	
VERIFIED BY	
QUALITY CHECKED BY	
APPROVED BY	

DRAFT

Preparation of Local Level CRZ Map for Proposed Land Raising of IDCO Site at Paradip through Pipeline Transportation of Permitted Dredged Spoils from Sea at Pratappur & Fatepur Villages, Kujang Tehsil, Jagatsinghpur District, Odisha by Superimposing on Approved CZMP as per CRZ Notification 2019



LEGEND

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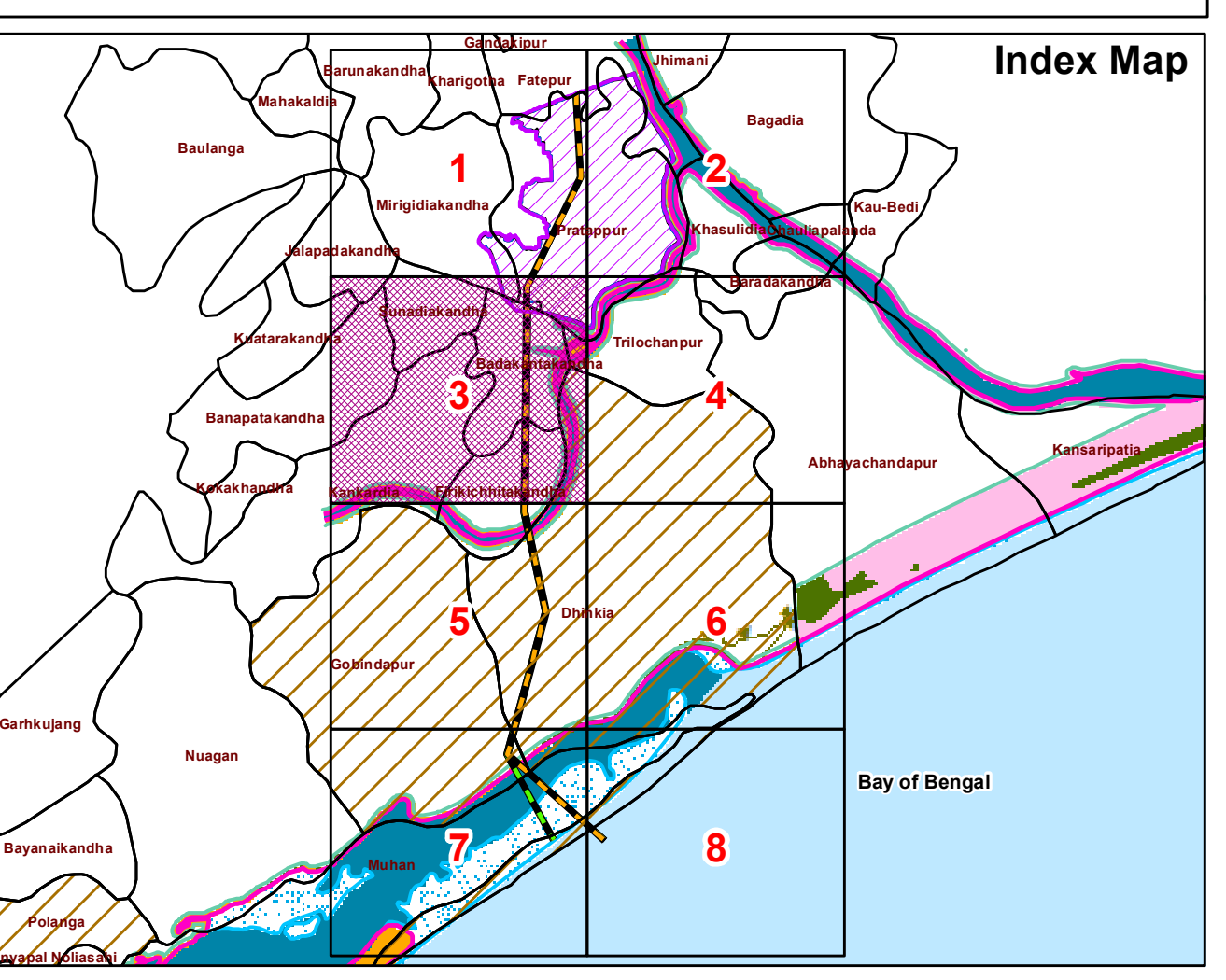
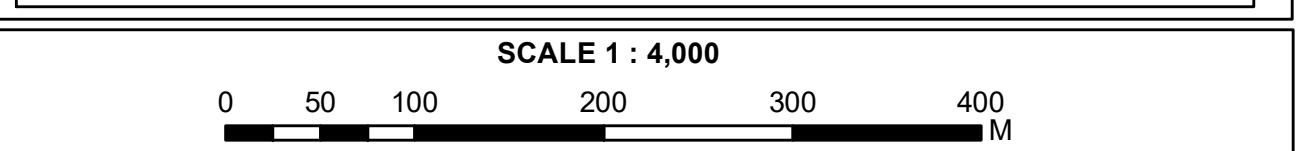
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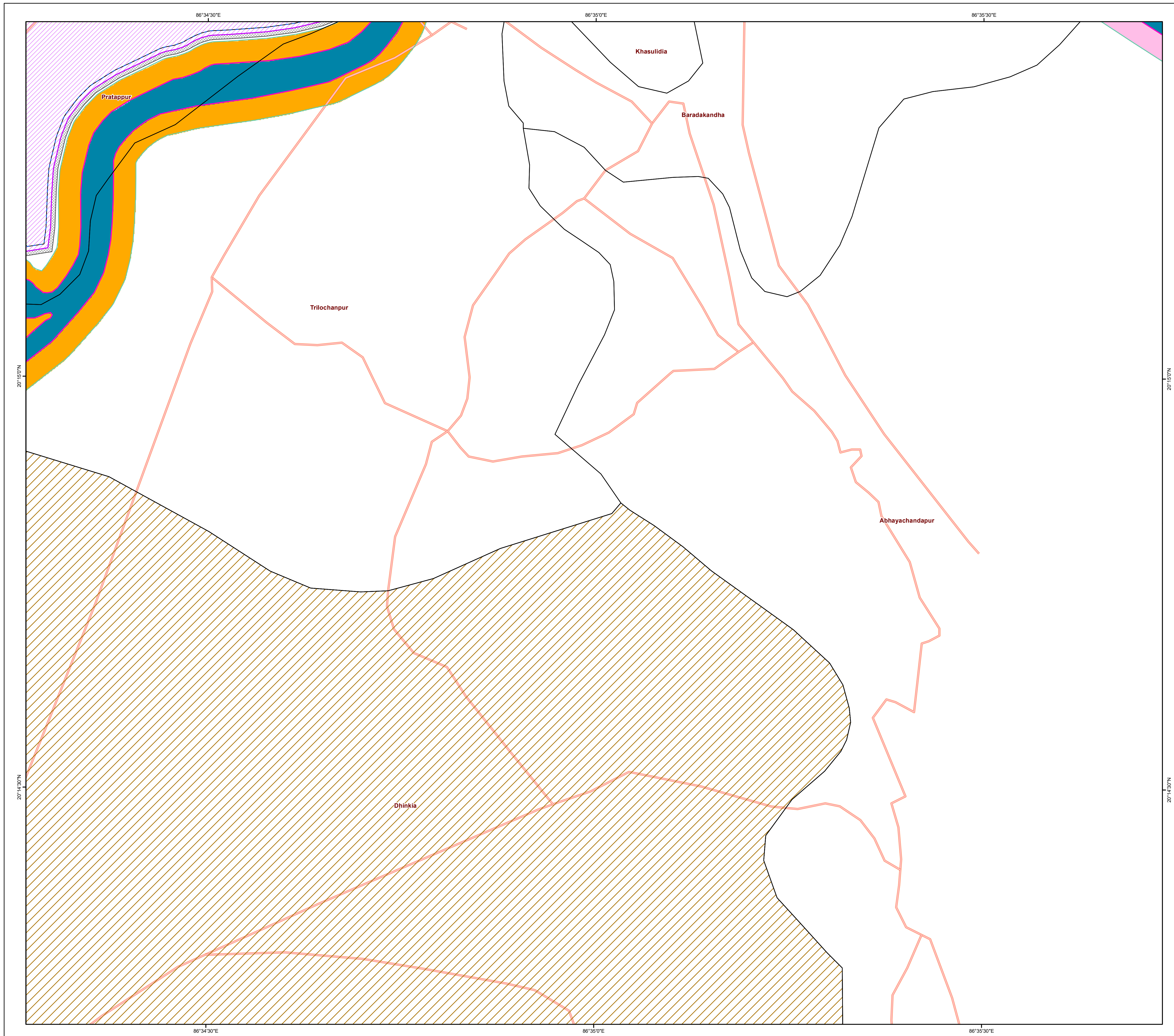
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Chennai - 600 036

PREPARED BY	
VERIFIED BY	
QUALITY CHECKED BY	
APPROVED BY	

DRAFT

Preparation of Local Level CRZ Map for Proposed Land Raising of IDCO Site at Paradip through Pipeline Transportation of Permitted Dredged Spoils from Sea at Pratappur & Fatepur Villages, Kujang Tehsil, Jagatsinghpur District, Odisha by Superimposing on Approved CZMP as per CRZ Notification 2019



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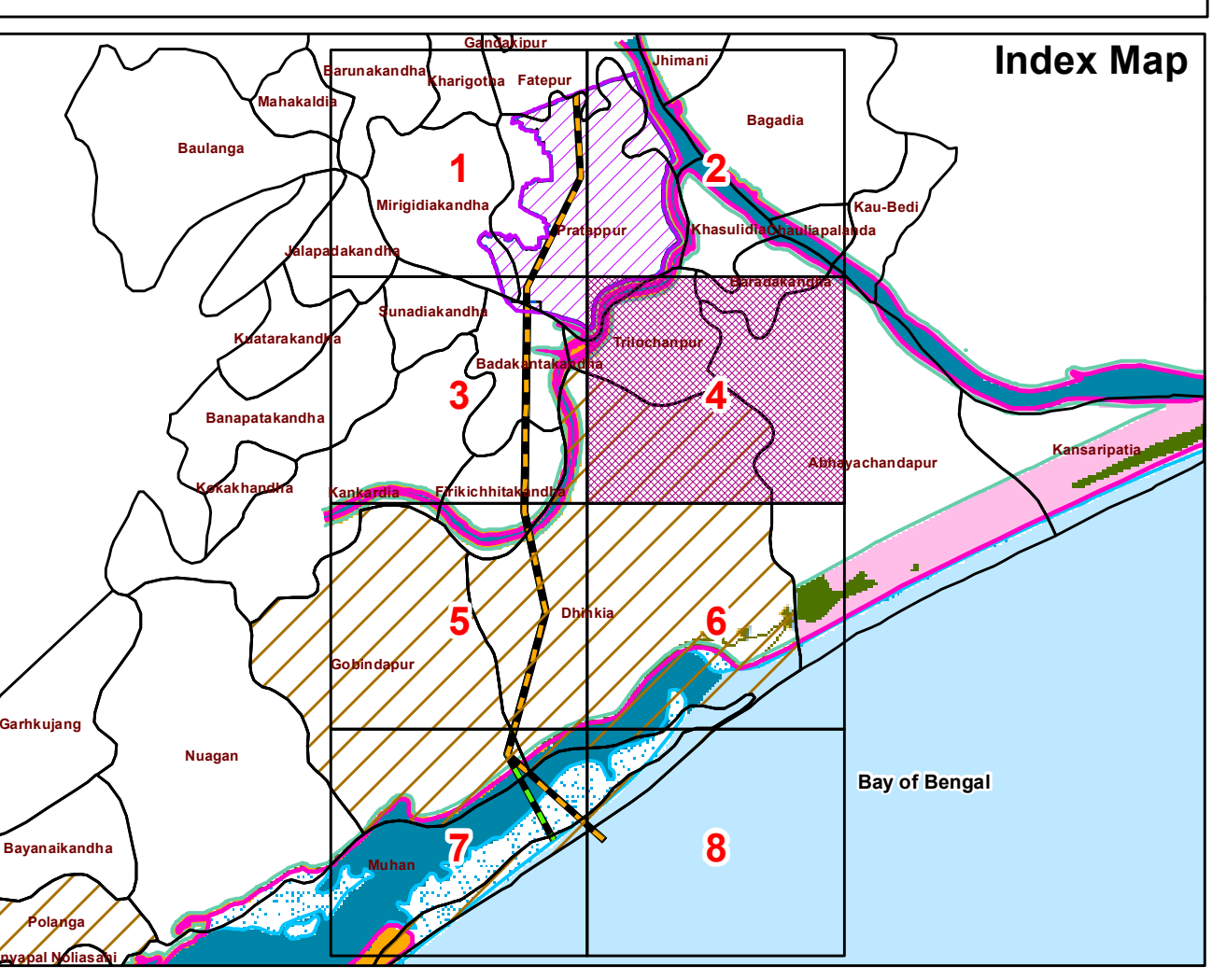
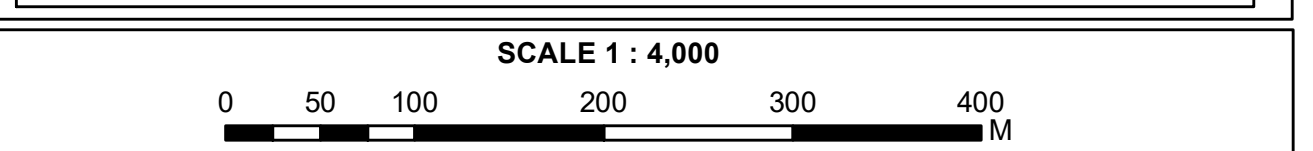
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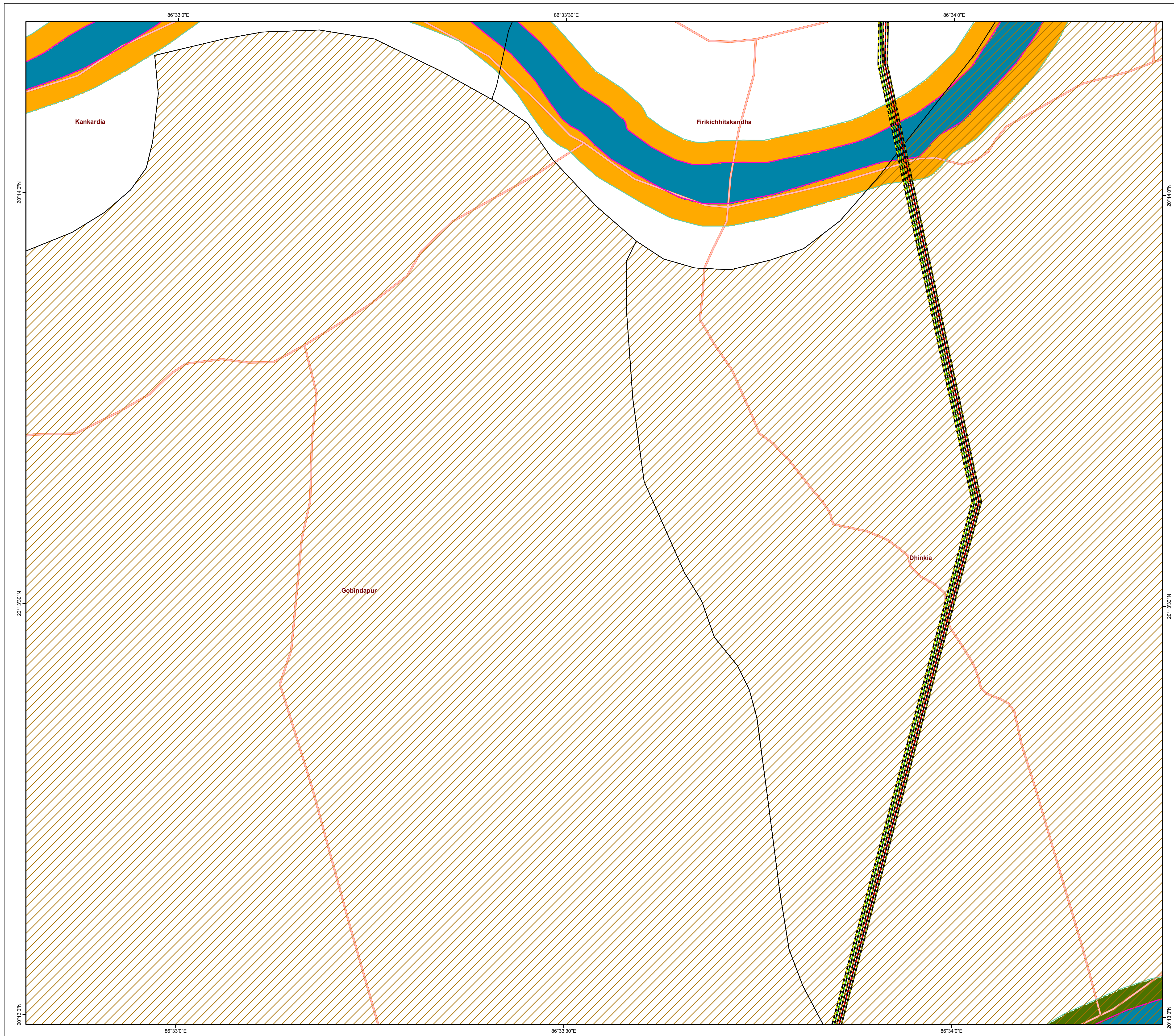
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For
**National Technology Centre for Ports, Waterways and Coasts
 Indian Institute of Technology Madras (IITM)
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QUALITY CHECKED BY	
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DRAFT

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LEGEND

SOURCE : APPROVED CZMP (MAP NOS : OD 42, 43, 45 & 46) AS PER CRZ NOTIFICATION 2019

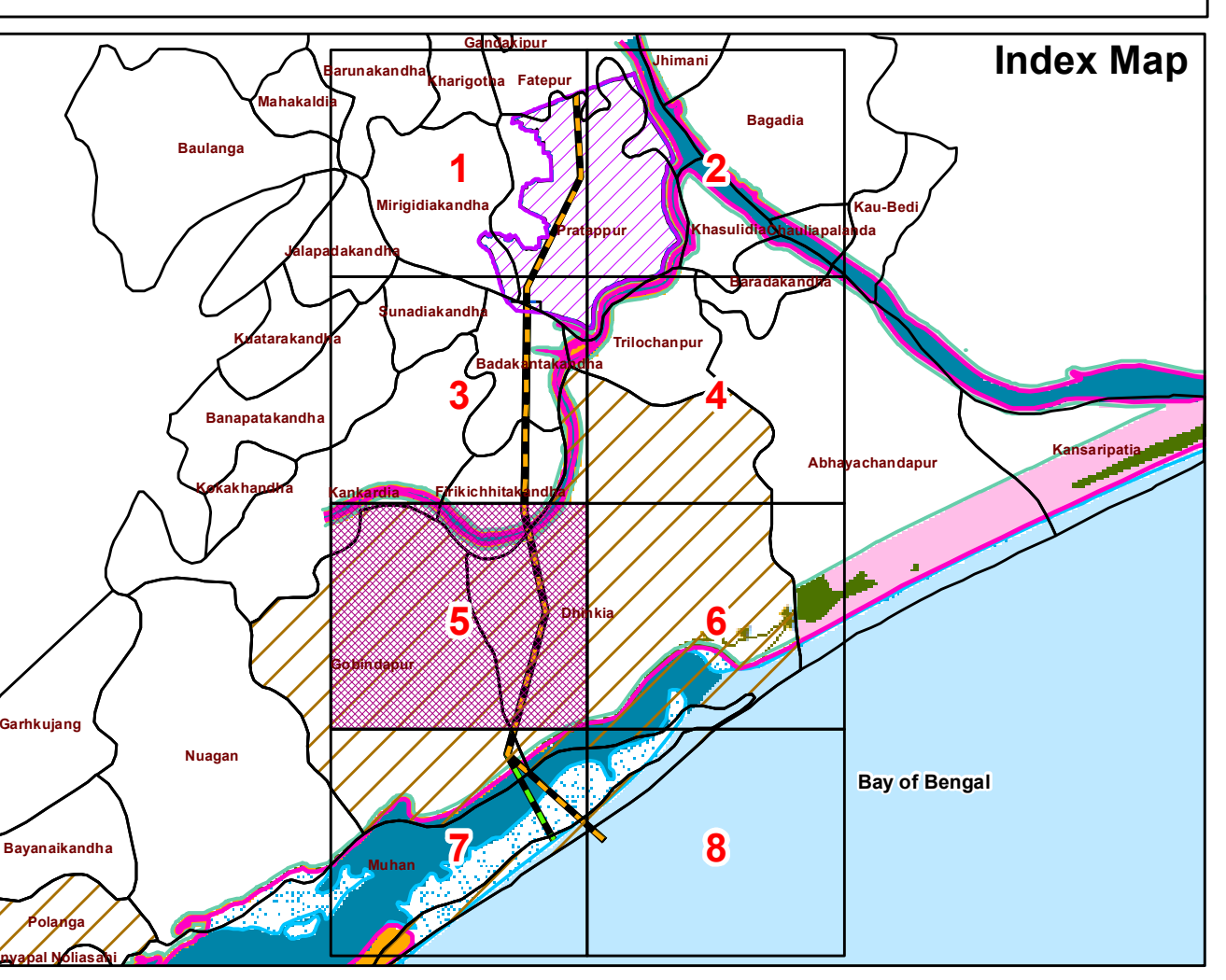
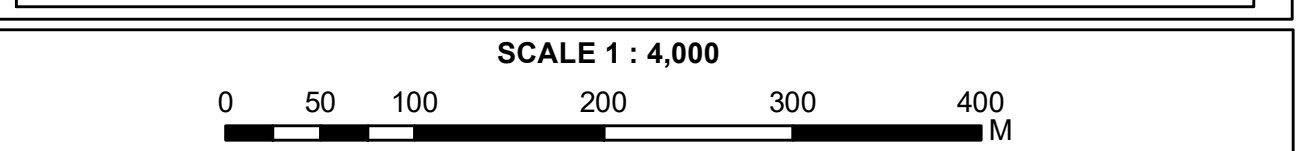
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- ▨ FISHERMEN VILLAGE
- CRZ - IA
- ▨ CRZ - IB
- ▨ CRZ - II
- CRZ - III (NO DEVELOPMENT ZONE)
- CRZ - IVA
- CRZ - IVB
- ⊙ HTL REFERENCE POINT

SOURCE : CLIENT

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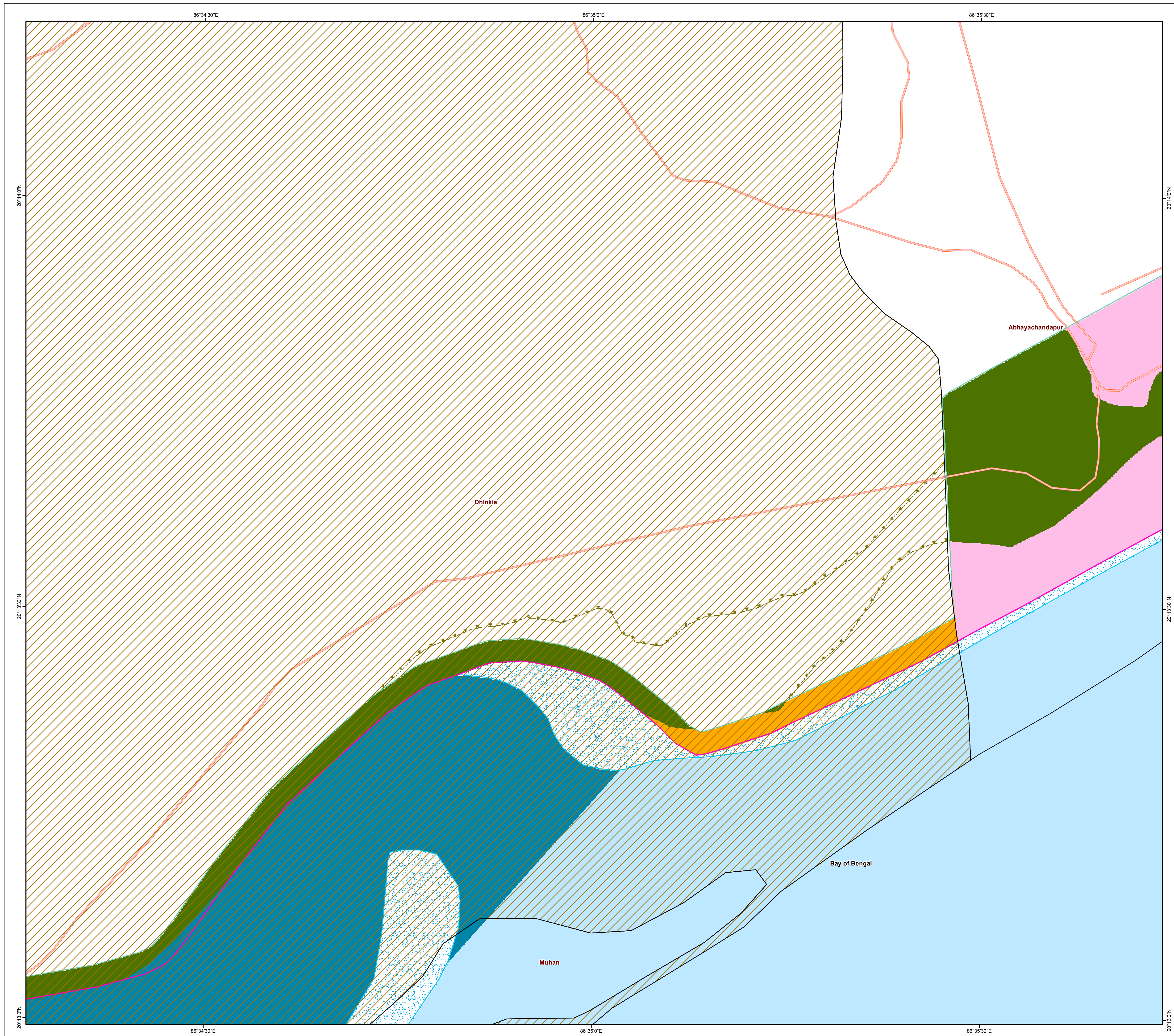
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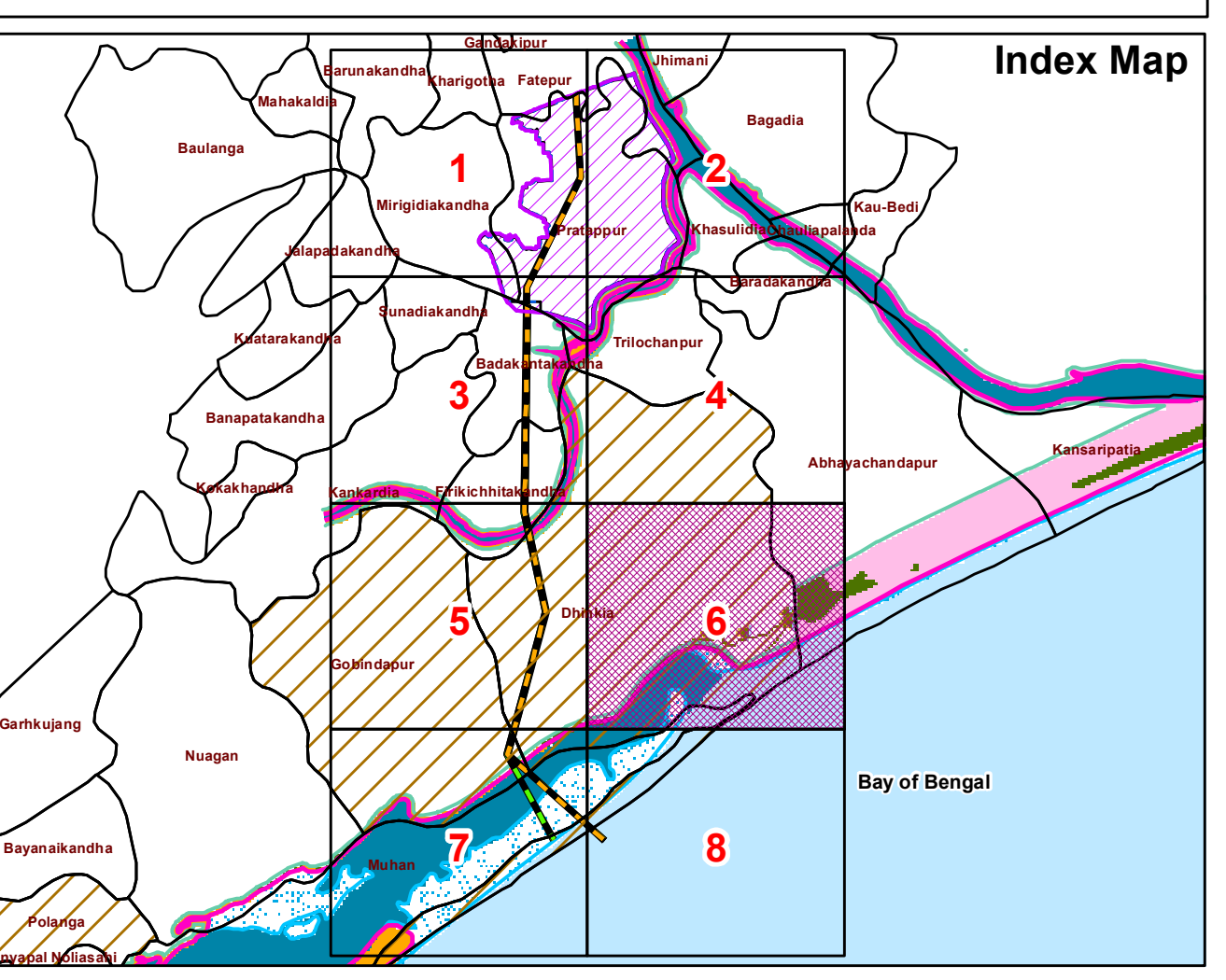
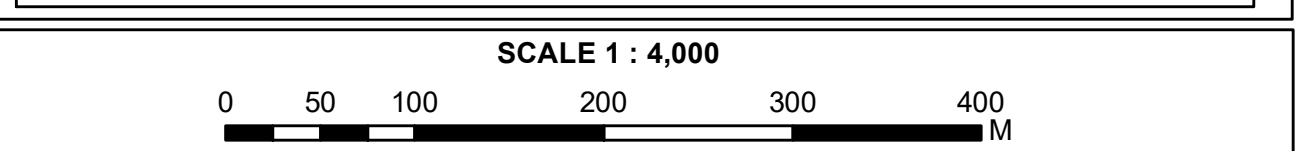
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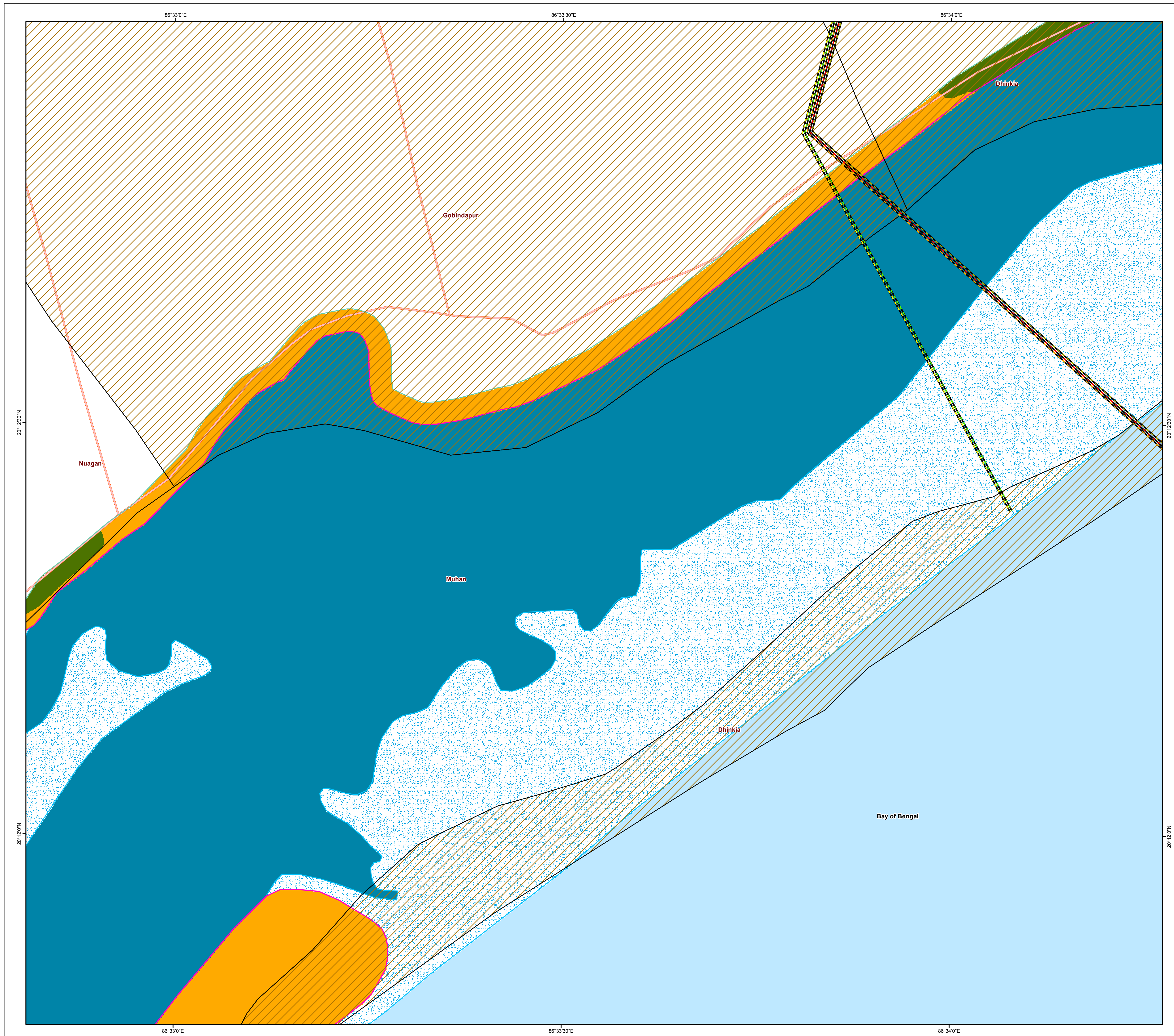
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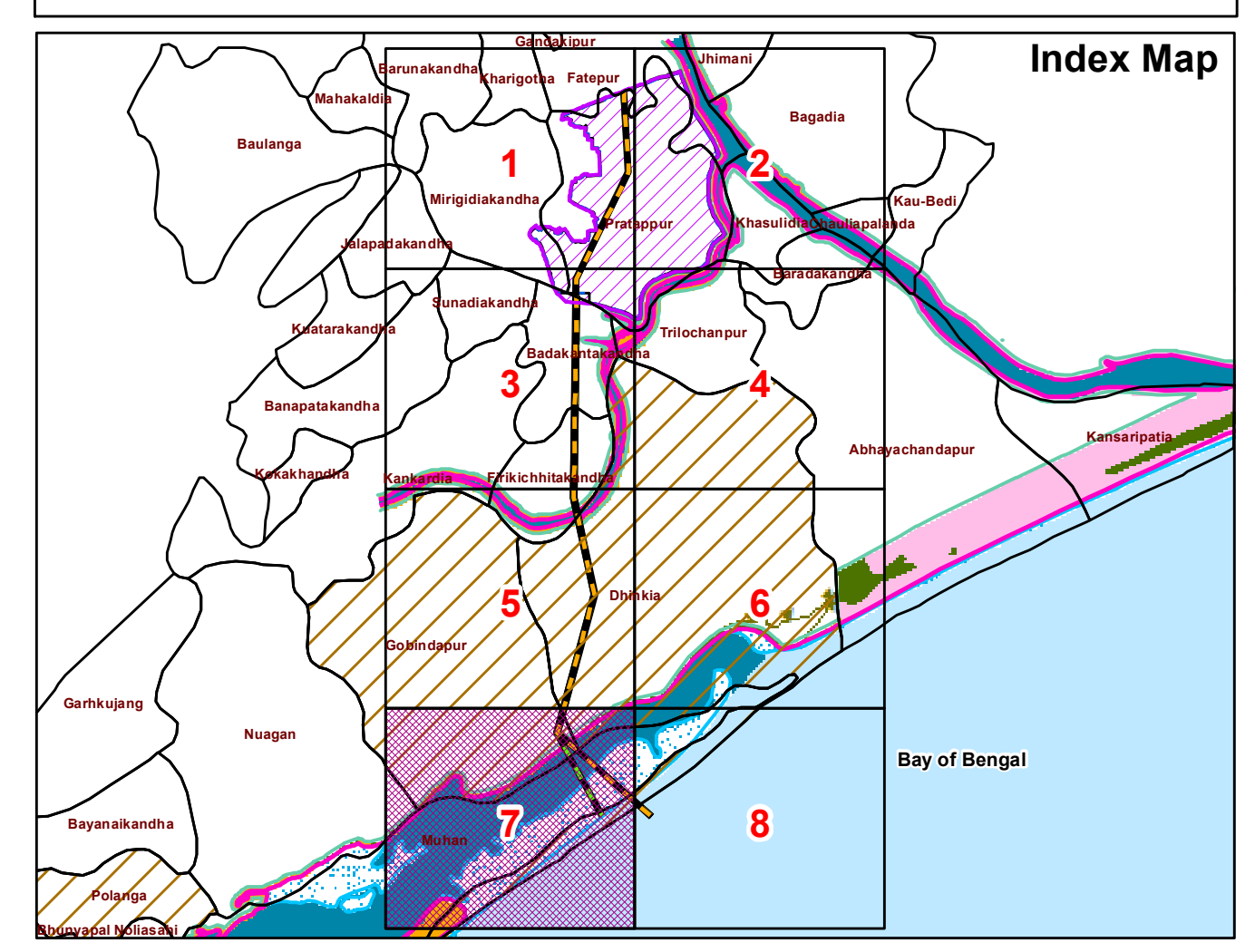
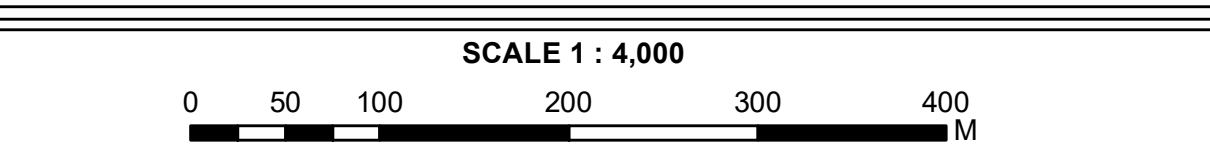
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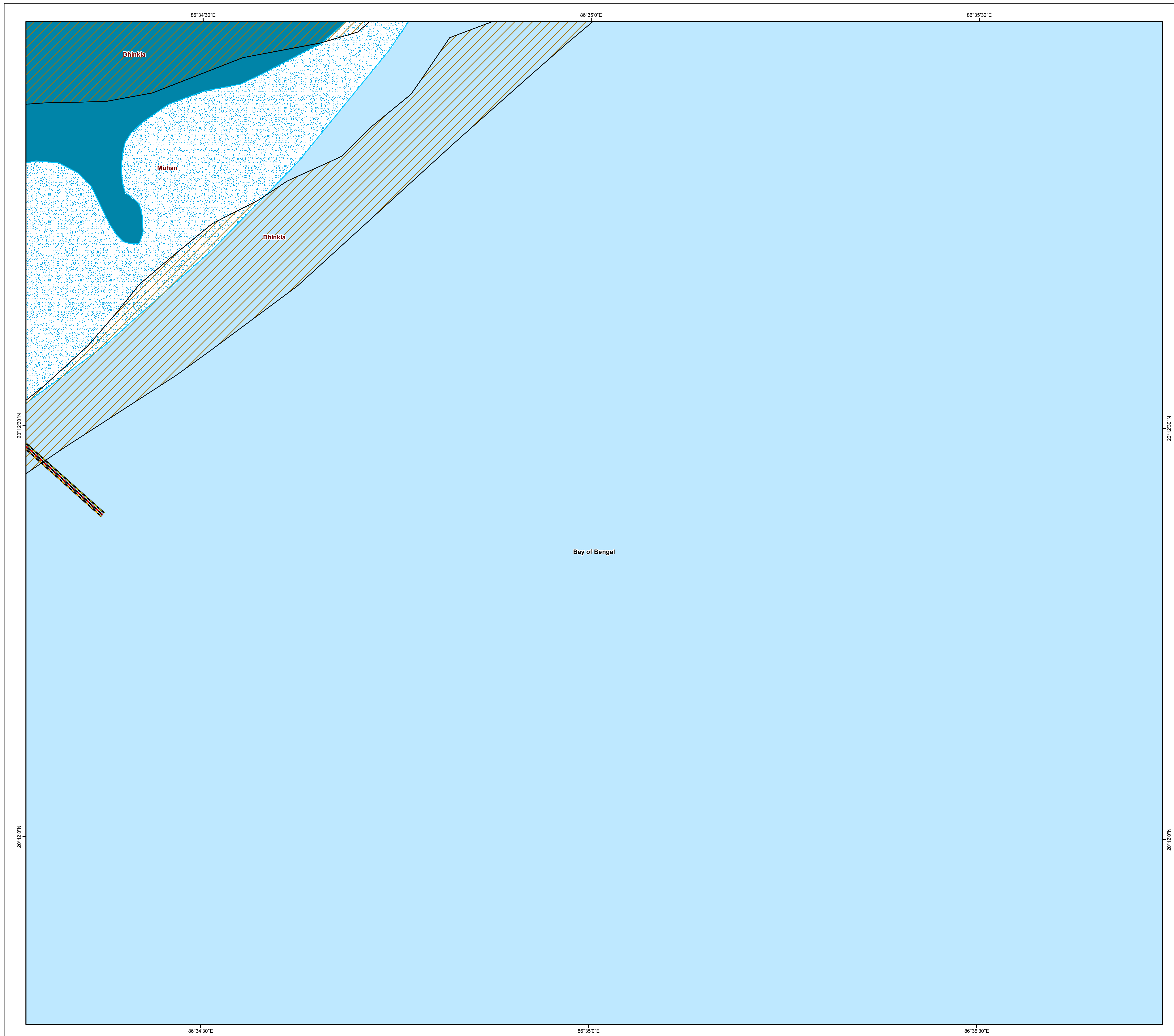
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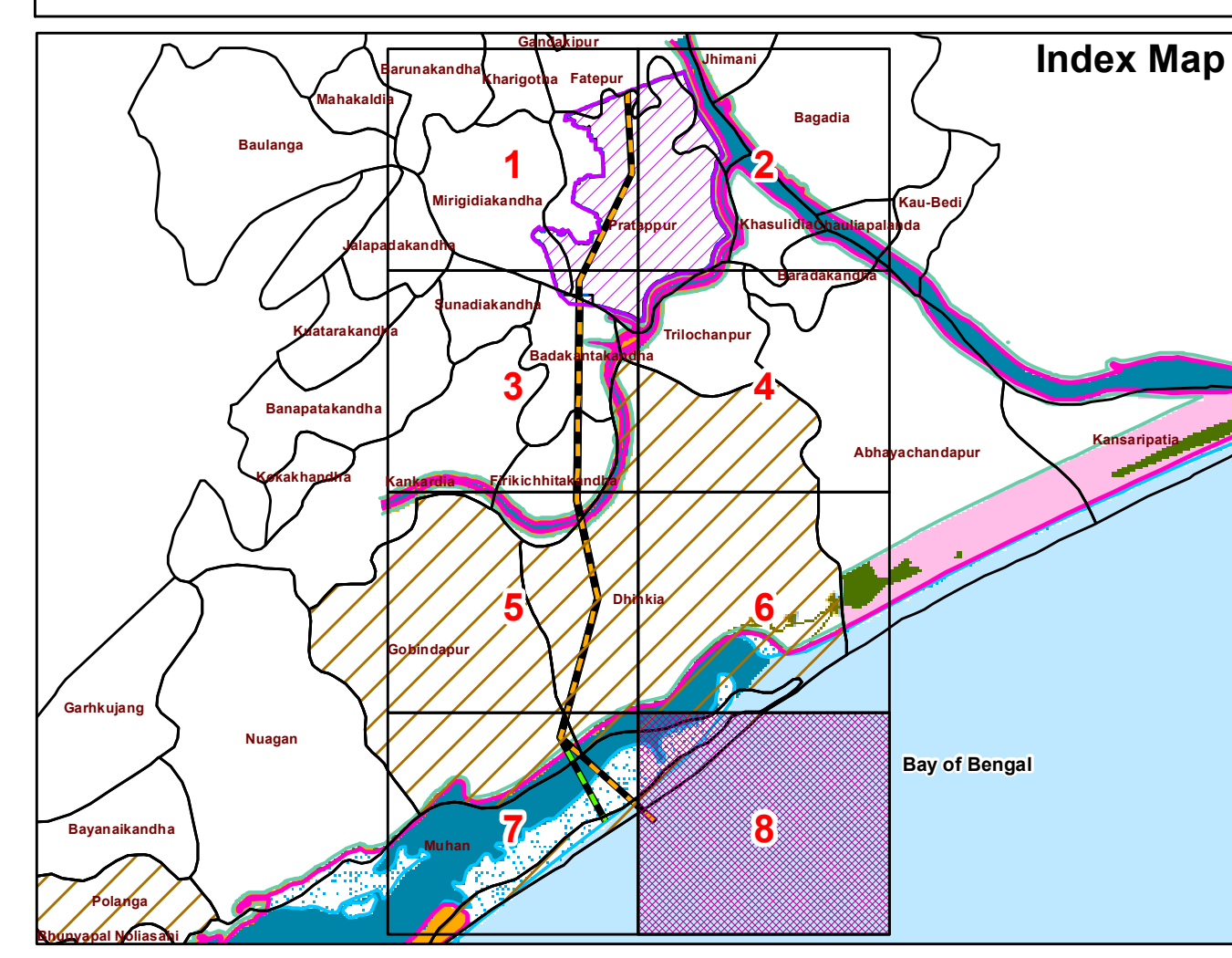
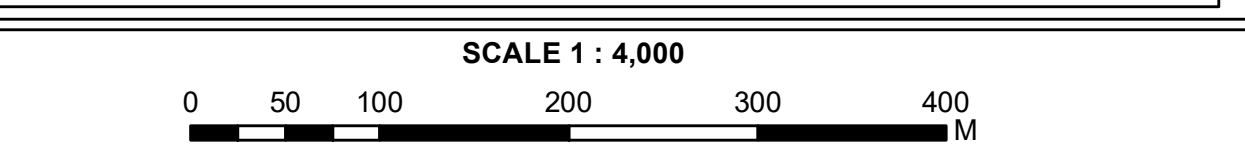
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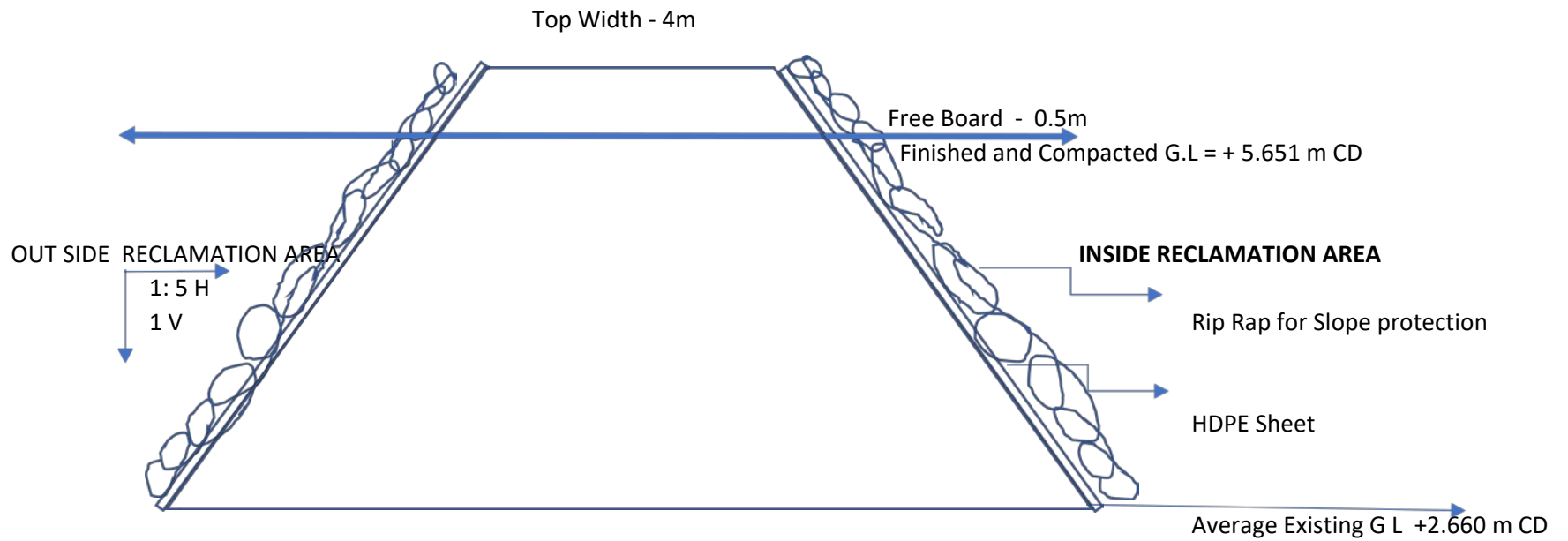
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TYPICAL C/s OF PERIPHERAL BUND OF RECLAMATION AREA



Note

- 1 Port B.M 5.0501 m CD
- 2 IOCL B.M -6.7511 m CD
R.L 101.000 is SRR Plat form
- 3 Level
- 4 Contractor has to design and submit methodology as per relevant conditions stipulated in Bid Document