

**LEGEND:**

**GENERAL**

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- MATLINE
- TOE LINE OF CHANNEL

**BATHYMETRY**

WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM

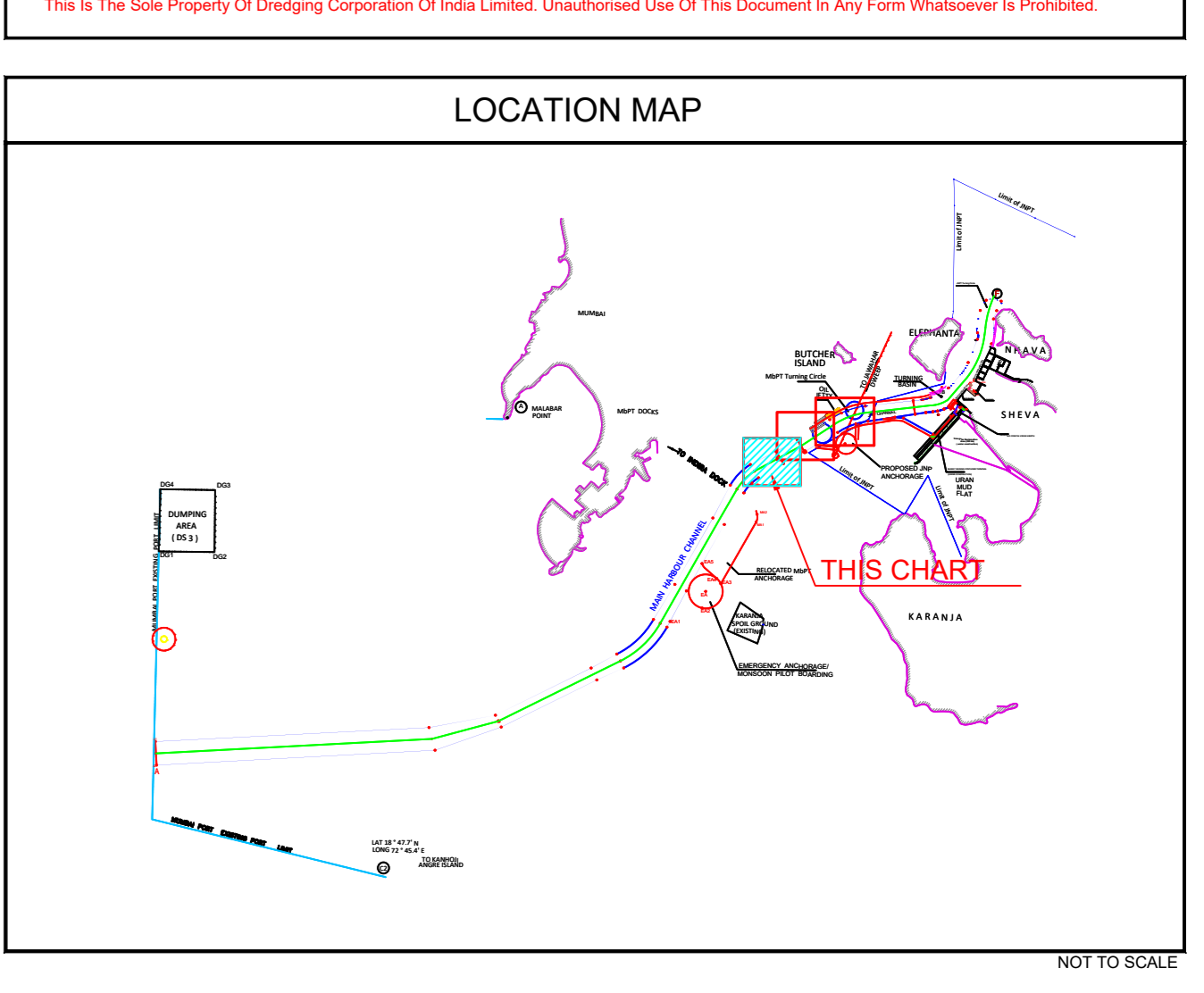
- NOTES:**
- SURVEY WAS CARRIED OUT FROM VESSEL AERO-EXPRESS FROM 08th May to 09th May 2020
  - POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO AUSTER POSITONING SYSTEM
  - KONGBERG ENDOGENIC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT APPT LANDING JETTY WAS USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
  - VALUE OF BENCH MARK AT APPT LANDING JETTY (BOLLARDS) IS 7.375 METER ABOVE CHART DATUM.
  - MOTION SENSOR COGNATES WAS USED TO COMPENSATE SEA SWELL
  - SURVEY AREA COORDINATES WERE PROVIDED BY THE CLIENT.

**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM :	WGS84
GEODEIC DATUM :	WGS84
Ellipsoid :	WGS84
Semi major axis :	6378137.000 m
Semi minor axis :	6356752.314 m
Inverse flattening :	298.2572226
PROJECTION :	Universal Transverse Mercator
Central Meridian (CM) :	75° E (Zone 43)
Latitude of Origin :	0°
Fake Easting :	500000 m
Fake Northing :	0 m
Scale factor at CM :	0.99960

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description



**CLIENT:**

**JAWAHARLAL NEHRU PORT TRUST**  
ADMINISTRATION BUILDING,  
SHEVA,  
NAVI MUMBAI - 400 707  
Tel. : 022 6781 4156/6781 4154. Fax. : 022 6781 4178

**CONSULTANT:**

**NATIONAL TECHNOLOGY CENTRE FOR PORTS  
WATERWAYS AND COASTS  
IIT MADRAS**  
CHENNAI - 600 036

**CONTRACTOR:**

**DREDGING CORPORATION OF INDIA LIMITED**  
DREDGE HOUSE, PORT AREA  
VISAKHAPATNAM - 530 001  
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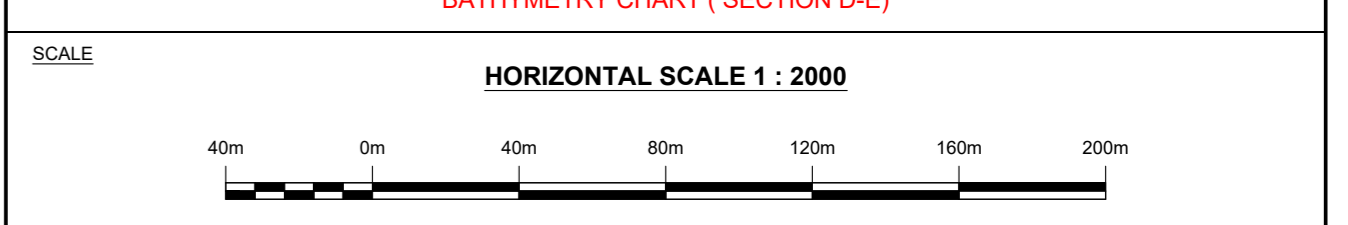
**SUB-CONTRACTOR:**

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**PROJECT:**

**JOINT POST-SURVEY  
MULTI-BEAM BATHYMETRY SURVEYS  
IN NAVIGATIONAL AREA OF JN PORT  
NAVI MUMBAI, WEST COAST OF INDIA**

**BATHYMETRY CHART (SECTION D-E)**



Vessel: AERO EXPRESS	Survey Date: 08th May to 09th May 2020	Authorized Signatory
Rev. No:	Date:	Description:
0	13-05-2020	Issued For Approval
Drawing No: 5752-SUR-IPD-009_Sheet 3	Chart: 3 OF 3	ENC: 1 OF 1