

**LEGEND:**

- GENERAL
  - UTM GRID INTERSECTION (WGSS4)
  - GEOGRAPHICAL GRID INTERSECTION (WGS 84)
  - KILOMETER POST
  - MATCH LINE
  - TOE LINE OF CHANNEL
- BATHYMETRY
  - WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM
  - BATHYMETRY CONTOUR

Section A-B Maintained level : 15.60m (±15 on Tolerance)

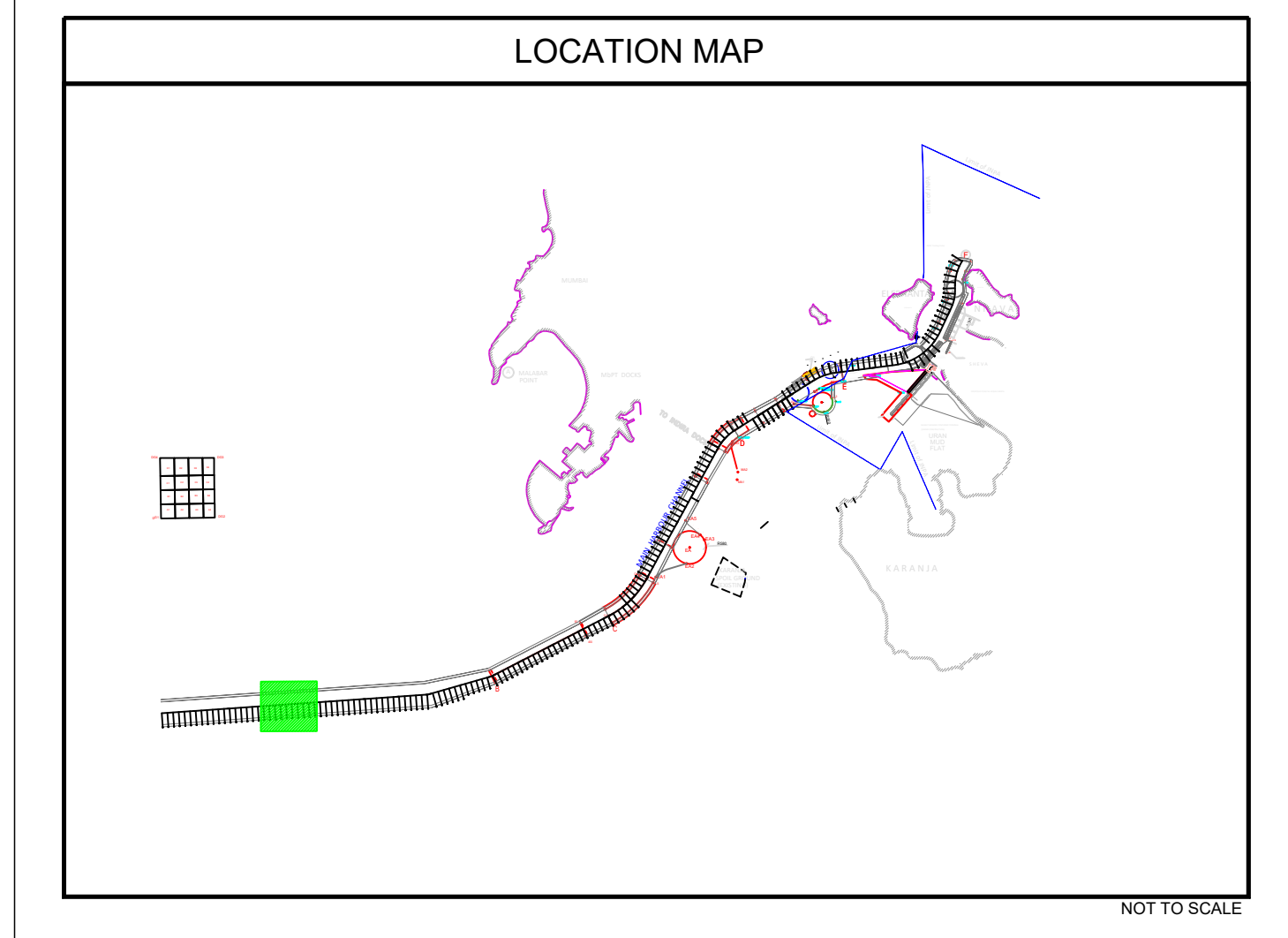
- NOTES:**
- 1) SURVEY WAS CARRIED OUT BY SURVEY VESSEL "ME QUEEN"
  - 2) POSITION FIXING WAS CONTROLLED FROM DIFFERENTIAL GPS POSITIONING SYSTEM
  - 3) KONGSBERG ECHOSOUND WITH REAL TIME CORRECTION WAS EMPLOYED TO CARRY OUT BATHY SURVEY
  - 4) OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT ANA LANDING JETTY, BPX AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
  - 5) BENCH MARK AT ANA LANDING JETTY (BOLLARD) IS 3.75m ABOVE CHART DATUM. B.P.X. = 6.0m, Bank Rock = 5.63m
  - 6) NAUTICAL SOUNDING SYSTEM WAS USED TO COMPENSATE SEA SWELL
  - 7) SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN ACAD DRAWING
  - 8) ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN - JNPA, APTCWC (IITM), DCA & ISPL
  - 9) ALL PLOTTED DATA IN 10m X 10m GRID SIZE

**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	WGSS4
GEODEIC DATUM	WGSS4
ELLIPSOID	WGSS4
Semi major axis	6378137.000 m
Semi minor axis	6356752.314 m
PROJECTION	Universal Transverse Mercator
Central Meridian (CM)	75° E (Zone 43)
Latitude of Origin	0°
Fake Easting	500000 m
Fake Northing	0
Scale factor @ CM	0.99960

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description



**CLIENT**

**JAWAHARLAL NEHRU PORT AUTHORITY**  
 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  
 TEL: +91 44 25278915

**CONTRACTOR**

**DREDGING CORPORATION OF INDIA LIMITED**  
 DREDGE HOUSE, 18 COLONY MAIN ROAD, SEETHAMMAHARA,  
 VISAKHAPATNAM - 530 022  
 ANDHRA PRADESH STATE, INDIA  
 TEL: +91 081-25232250 +91 0891-2871230

**SUB-CONTRACTOR**

**INTERNATIONAL SEAPORT DREDGING PVT. LTD.**  
 Ocean Square Plot No.2-C(S/P)  
 Thiruvananthapuram Industrial Estate  
 Guindy, Chennai - 600032  
 Tel Fax: +91(0)43 43 12 99 01

**PROJECT**

**JOINT POST SURVEY - MAR 2023**  
**MULTI-BEAM BATHYMETRY SURVEYS**  
**IN NAVIGATIONAL AREA OF JN PORT**  
**NAVI MUMBAI & MUMBAI PORT CHANNEL**  
**WEST COAST OF INDIA**  
**FY 2022-23**  
 BATHYMETRY CHART (SECTION A-B)  
 CHANNEL: 03.00 - 05.40

**SCALE**

**HORIZONTAL SCALE 1 : 2000**

**Survey Date:** 28th to 29th, 31st Mar to 02 Apr 2023  
**Authorized Signatory:**

Rev. No.	Date	Description
0	03-04-2023	Issued For Approval

Vessel: ME QUEEN  
 Drawing No: 590EX-SUR-P0-134-A  
 Chart: 590EX-SUR-P0-134-A  
 P:SEA  
 A:AD