

**LEGEND:**

- GENERAL
- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETER POST
- MATCH LINE
- TOE LINE OF CHANNEL

Section C-D Maintained Level: 14.60m (Without Tolerance)  
Emergency Anchorage Area Maintained Level: 14.60m (Without Tolerance)

**BATHYMETRY**

- WATER DEPTH METRES & DECIMETRES BELOW CHART DATUM
- BATHYMETRY CONTOUR

- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEYOR 'MR. QUEEN'
  - POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ASTERIX POSITIONING SYSTEM
  - KONGSBERG EMOVIC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JN PANA LANDING JETTY. BPS AND SUNRISE ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
  - BENCH MARK AT PANA LANDING JETTY (BE L&R) IS 2.25m ABOVE CHART DATUM. BPS & 6.70m, Sun Rock & 5.75m.
  - MOTION SENSOR OBTAINS WAS USED TO COMPENSATE SEA SWELL.
  - ALL SURVEY CO-ORDINATES WERE PROVIDED BY THE CLIENT AN ACAD DRAWING.
  - ALL JN PORT SURVEYS WERE JOINTLY CARRIED OUT BY BENTLEY - ANPA, IITM, DO & ISDP.
  - ALL PLOTTED DATA IN 10x10 m GRID SIZE.

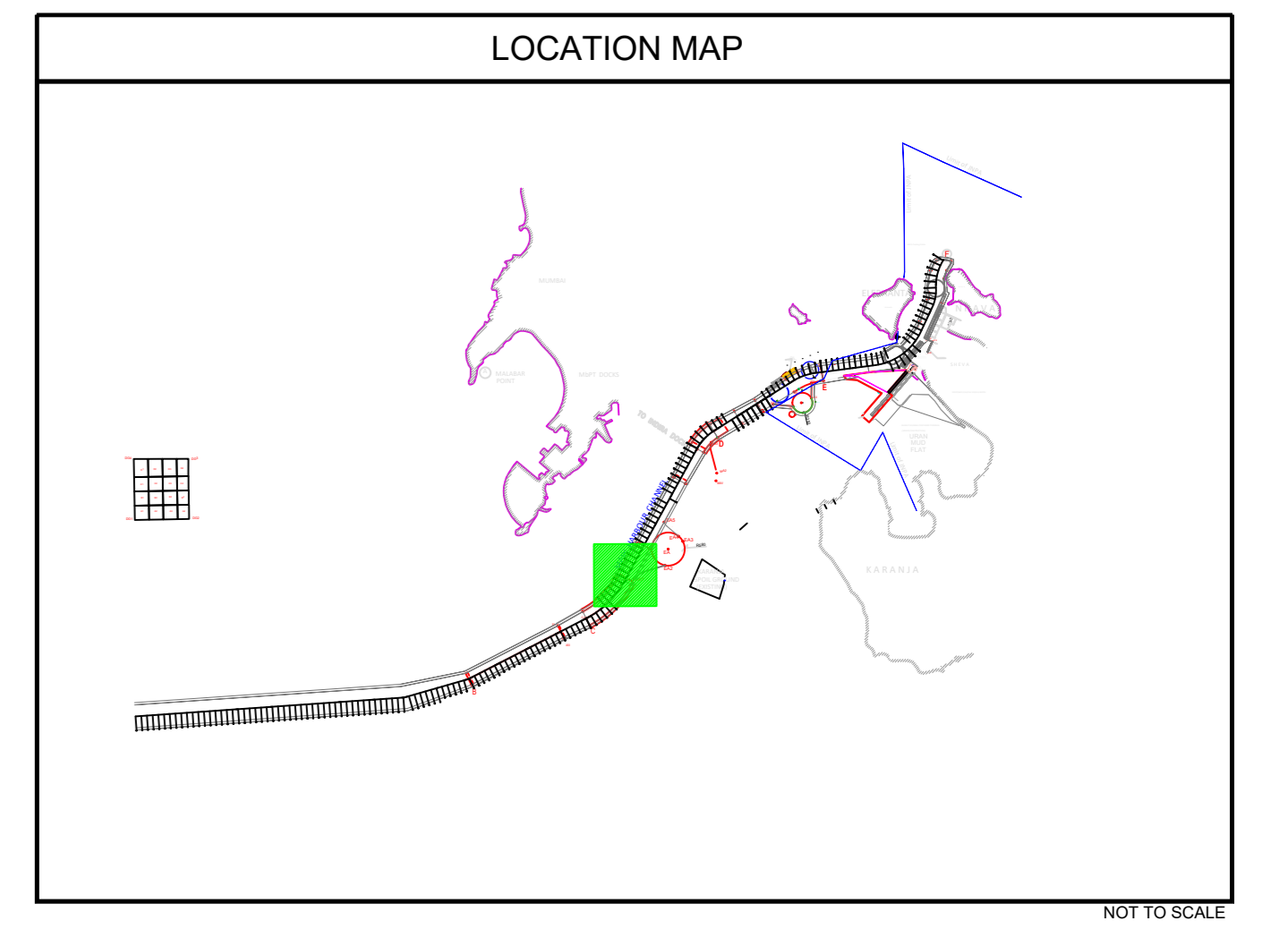
**GEODETTIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
GEODETTIC DATUM	WGS84
ELLIPSOID	WGS84
Semi-major axis	6378137.000 m
Semi-minor axis	6356752.144 m
Flattening	1/29825298
PROJECTION	Universal Transverse Mercator
Central Meridian (CM)	75° E (Zone 43)
Latitude of Origin	0°
Falsing Easting	500000 m
Falsing Northing	0
Scale factor at CM	0.99960

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description

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**CLIENT**

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**CONSULTANT**

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**CONTRACTOR**

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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 & MUMBAI PORT CHANNEL WEST COAST OF INDIA**  
FY 2021-22  
BATHYMETRY CHART (SECTION C-D)  
CHANGE 17,600 - 18,600

**SCALE**

**HORIZONTAL SCALE 1 : 2000**

**Issued By:** ME QUEEN **Survey Date:** 02-03-2022 **Authorized Signatory:**

Rev. No.	Date	Description	Checked	Approved	Scale	Project
0	02-03-2022	Issued For Approval	ME QUEEN	ME QUEEN	1:2000	AS

Drawing No: 5940-SUR-PO-121-CD