

**LEGEND:**

- GENERAL
  - UTM GRID INTERSECTION (WGS84)
  - 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 D-E Maintained level : 14.40m (Without Tolerance)

- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL "THE QUEEN"
  - POSITION FIXING WAS CONTROLLED FROM SUPERIOR ASTERIX POSITIONING SYSTEM
  - KONGBERG EMAGNOC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING JETTY. BFX AND SUNK ROCK WERE USED FOR RECORDING RAW WATER DEPTH TO CHART DATUM
  - BENCHMARK AT JNPA LANDING JETTY (BOLAROD) IS 7.375 ABOVE CHART DATUM. BFX = 6.07m. Sunk Rock = 5.375m
  - MOTION SENSOR OCTANUS WAS USED TO COMPENSATE SEA SWELL
  - JNPA AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN A CAD DRAWING
  - ALL SURVEY POST SURVEYS WHERE JOINTLY CARRIED OUT BETWEEN - JNPA, ITCAD & DREDCO
  - ALL PLOTTED DATA IN 10x10m GRID SIZE

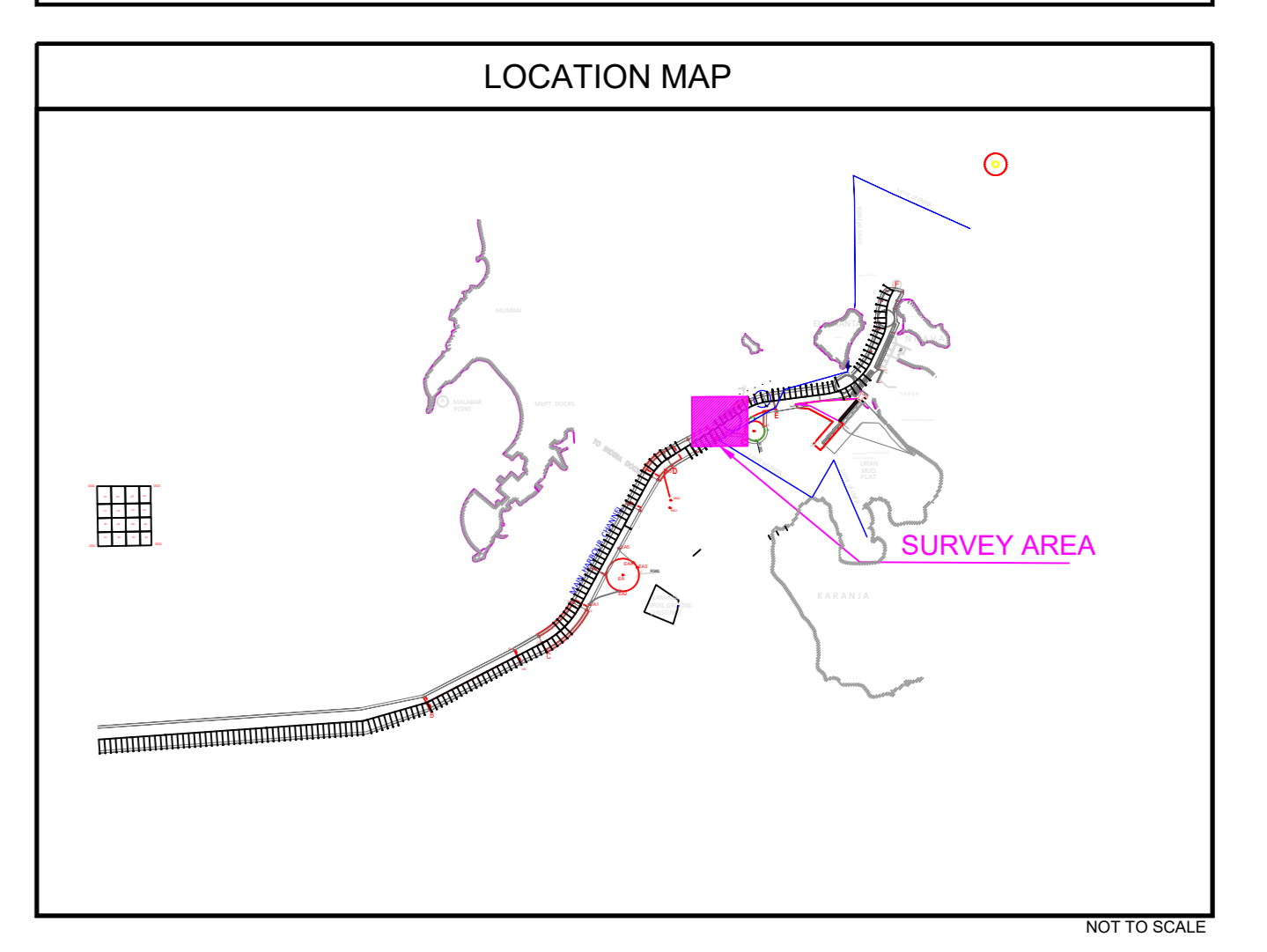
**GEODETTIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	: WGS84
GEODETTIC DATUM	: WGS84
ELLIPSOID	: WGS84
Semi major axis	: 6378137.000 m
Semi minor axis	: 6356752.314 m
Inverse flattening	: 298.257222101
PROJECTION	: Universal Transverse Mercator
Central Meridian (CM)	: 75° E (Zone 43)
Latitude of Origin	: 0°
False Easting	: 500000 m
False Northing	: 0 m
Scale factor at CM	: 0.99960

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description

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**PROJECT**  
**JOINT PORT 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 D-E)  
 CHANGE NO. 25.000 - 27.600

**SCALE**  
 HORIZONTAL SCALE 1 : 2000

**Issued by:** ME QUEEN    **Survey Date:** 25.05.2022    **Authorized Signatory:**

Rev. No.	Date	Description	Checked	Approved	Author	WSP	Manager
0	15-05-2022	Issued For Approval					

Drawing No: 5940.SUR.PCI-11-0E    Chart: ENR    ESKD    P: Size: A0