

LEGEND:

GENERAL

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

Section JNPA Anchorage Area Maintained level : 11.20m (+15 cm Tolerance)
 Section DE Section Maintained level : 14.40m (+15 cm Tolerance)

BATHYMETRY

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

- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL "ME QUEEN"
 - POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ATEKCH POSITIONING SYSTEM
 - KONGSBERG EKOSOUND MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MMS SURVEY.
 - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING JETTY. BPX AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
 - BENCH MARK AT JNPA LANDING JETTY BOLLARDS IS 3.75 m ABOVE CHART DATUM. BPX = 0.70m, Sum Rock = 3.730m.
 - MOTION SENSOR OBTAINS WAS USED TO COMPENSATE SEA SWELL.
 - SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN ACCORDANCE.
 - ALL JOINT SURVEYS CARRIED OUT JOINTLY BETWEEN - JNPA, NITPCW (UTM, DCG & DCP).
 - ALL PLOTTED DATA IN 10m X 10m GRID SIZE.

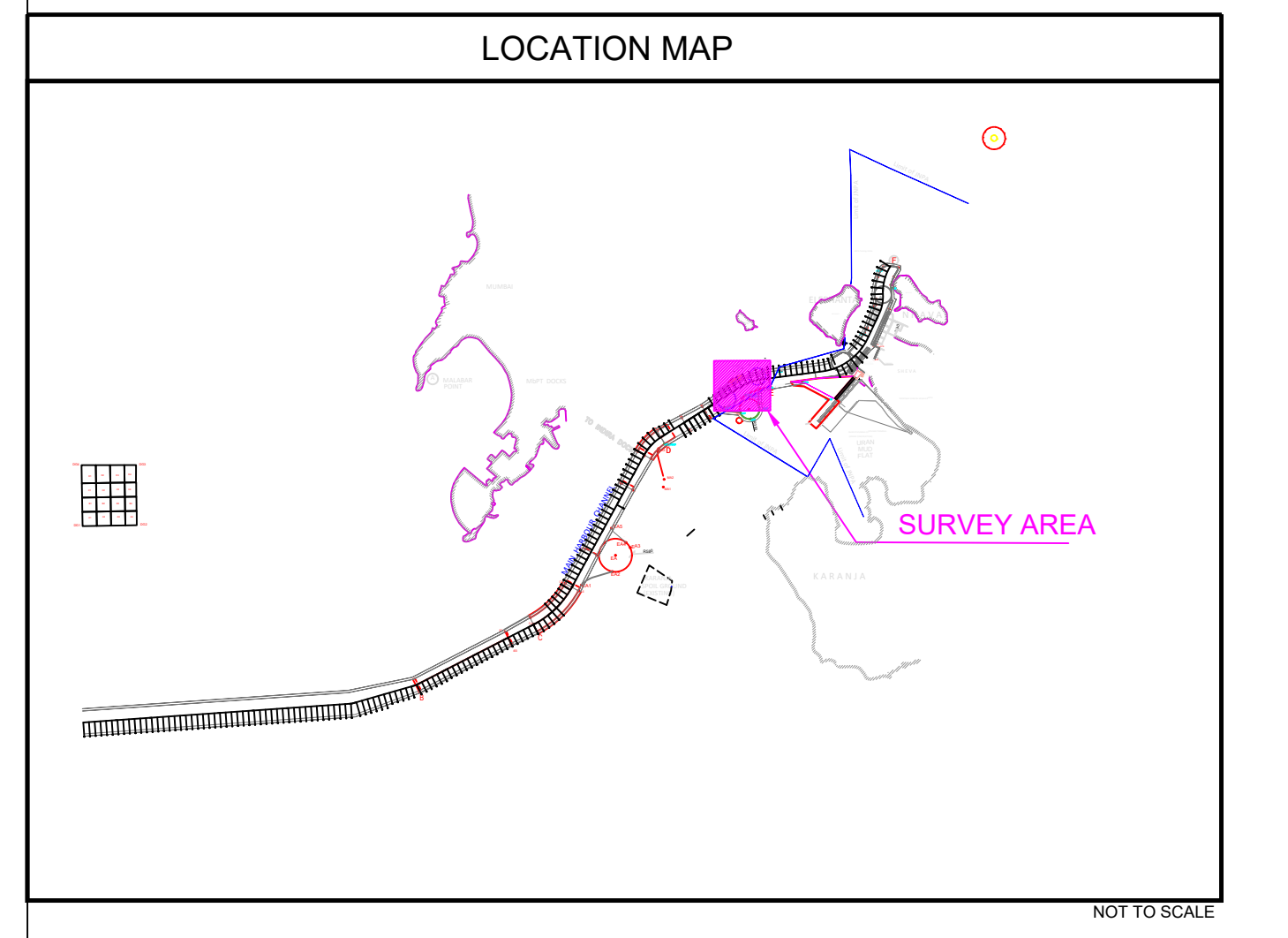
GEODEIC PARAMETERS

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
GEODEIC DATUM	WGS84
ELLIPSOID	WGS84
SEMI-MAJOR AXIS	6378137.000 m
SEMI-MINOR AXIS	6356752.314 m
FLATTENING	0.004471299
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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CLIENT

JAWAHARLAL NEHRU PORT AUTHORITY

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CONSULTANT

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CONTRACTOR

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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**

**HY 2022-23
BATHYMETRY CHART (SECTION JNPA Anchorage Area)
CHANGAGE 27.00 - 27.40**

SCALE

HORIZONTAL SCALE 1 : 2000

Vessel: ME QUEEN Survey Date: 02/03/2023 Authorized Signatory: _____

Rev. No.	Date	Description	Checked	Approved	Printed In Charge	UTM	WGS84	UTM	WGS84
0	06-04-2023	Issued For Approval							

Drawing No: 5400EX-SUR-PO-120-JNPA Chart: _____

Scale: _____