

| DATUM: WGS-84, CM 75, ZONE 43 ANPA TURNING CIRCLE CENTRE POINT | | | |
|---|--------------|-------------|---------------|
| R: 500m CHORD | | | |
| EASTING | NORTHING | LATITUDE | LONGITUDE |
| 28407.978 E | 206588.248 N | 18°58.10' N | 072°56.913' E |
| MAINTAINED DEPTH IN NAVIGATIONAL CHANNEL (E-F) 14.40m BELOW CD | | | |

LEGEND:

GENERAL

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETRE POST
- MATCH LINE
- TOE LINE OF CHANNEL
- Section E-F Maintained level : 14.40m (+15 cm Tolerance)
- Bath Pockets Maintained level : 16.20m (+15 cm Tolerance)

BATHYMETRY

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

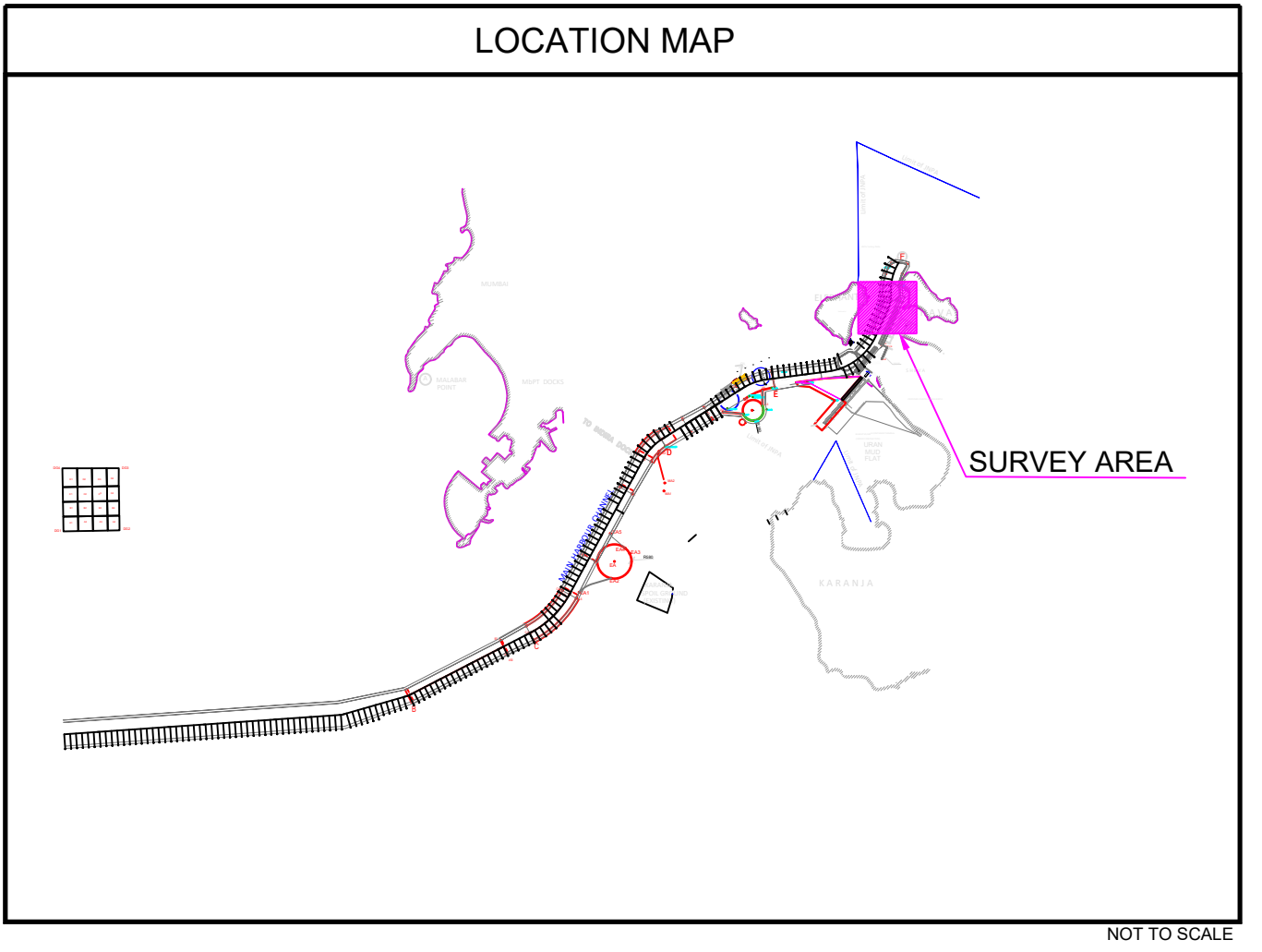
- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL "ME QUEEN"
 - POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ASTERIX POSITIONING SYSTEM
 - KONIGSEBERG ENDURAC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT BATHYMETRY SURVEY
 - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT ANPA LANDING JETTY. BPS AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
 - BENCH MARK AT ANPA LANDING JETTY (BOLLARD) IS 3.75m ABOVE CHART DATUM. BFX = 6.70m, Sunk Rock = 5.750m.
 - MOTION SENSOR OCTANUS WAS USED TO COMPENSATE SEA SWELL.
 - SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT AS ACAD DRAWING.
 - ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN ANPA, NTPCW (JV), DCI & ISDPL.
 - ALL PLOTTED DATA IN 10m x 10m GRID SIZE.

GEODEIC PARAMETERS

| | |
|---------------------------------|-------------------------------|
| HORIZONTAL CO-ORDINATE SYSTEM : | WGS84 |
| GEOID DATUM : | WGS84 |
| ELLIPSOID : | WGS84 |
| Semi major axis : | 6378137.000 m |
| Semi minor axis : | 6356752.314 m |
| Inverse flattening : | 298.2572236 |
| PROJECTION : | Universal Transverse Mercator |
| Central Meridian (CM) : | 75° E (Zone 43) |
| Latitude of Origin : | 0° |
| Falses Easting : | 500000 m |
| Falses Northing : | 0 m |
| Scale factor at CM : | 0.99980 |

REFERENCE DRAWINGS

| Rev. No. | Date | Drawing No. | Description |
|----------|------|-------------|-------------|
| | | | |
| | | | |



CLIENT

JAWAHARLAL NEHRU PORT AUTHORITY

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CONSULTANT

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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
FY 2022-23
BATHYMETRY CHART (SECTION E-F)
CHANNELS 33,200 - 34,400**

SCALE

HORIZONTAL SCALE 1 : 2000

| Rev. No. | Date | Description | Authorized Signatory |
|----------|------------|---------------------|----------------------|
| 0 | 07-06-2023 | Issued For Approval | |

Drawing No: 594DEX-SUR-PO-13-E1F