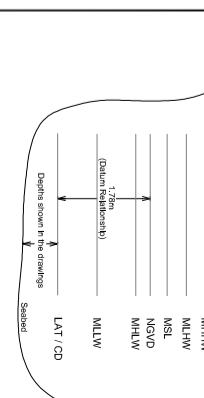


CONTOUR INTERVAL: 1 METRE  
CHART DATUM

- LEGEND / NOTES :**
- All measurements are in metres.
  - Coordinates are in MRSO.
  - All levels are based on Bench Mark No. BM 0031 (R.L. 3.84m NGVD) (R.L. 5.62m CD).
  - Chart Datum at Tanjung Gelang is 1.70m Below Mean Sea Level (MSL).
  - Chart Datum (MSL) is 0.00m.
  - Depth soundings are based on Chart Datum (CD).
  - Depth soundings are based on Chart Datum (CD).
  - Depth soundings are based on Chart Datum (CD).

**TIDAL LEVELS AT TANGJUNG GELANG**  
(Abstracted from Royal Malaysian Navy Tide Table 2016)

NSGD (m)	LAT/CD (m)
Highest Astronomical Tide (HAT)	3.84
Mean Higher High Water (MHHW)	3.34
Mean High Water (MHW)	2.28
Mean Lower High Water (MLHW)	1.92
Mean Sea Level (MSL)	0.14
Land Survey Datum (MSL)	0.00
Mean Higher Low Water (MHLW)	1.57
Mean Lower Low Water (MLLW)	-1.28
Lowest Astronomical Tide (LAT) @ Chart Datum (CD)	-1.78



**GEOGRAPHIC INFORMATION :**

**Geoidetic Data**

- Spheroid : Malaysian Revised Everest
- Semi Major Axis : 6 377 304.663 metres
- Semi Minor Axis : 6 356 103.039 metres
- Ecenitricity Squared : 0.006 637 846 6302
- Reciprocal Flattening (1/f) : 300.8017

**Origin of Meridian of Reference**

- Projection : Penang State Cassini
- Origin of Meridian : G. Sijunjung

**Longitude of Reference** : E 102° 28' 10.24 E

**Latitude of Origin** : N 03° 23' 50.50 N

**False Easting** : 0 m

**False Northing** : 0 m

**CLIENT :**

**Muhibbah Engineering (M) Bhd**

Lot 586 & 579, 2nd Mile  
Jalan Baiter Tiga Lantau  
11300 Kuala Lumpur  
Selangor Darul Ehsan

Tel: (603) 3342 4223 Fax: (603) 3342 4227

**PROJECT TITLE :**

**MUHIBBAH KUANTAN MARITIME HUB**

**DRAWING TITLE :**

**HYDROGRAPHIC AND TOPOGRAPHIC SURVEY - CHART DATUM -**

**Checked By:** Mastura  
**Approved By:** S. Lee Cherk Hock

**Checked By:** Sharfizi / Haihd

**SCALE :** 1 : 1000

**Horizontal**  
0 10 20 30 40 METRES

Chartered & Licensed Land Surveyors:

**JURUKUR PERUNDING SERVICES SBN BHD** (INCORPORATED IN MALAYSIA)

7 TAMAN INDUSTRIAL BANDAR PUCHONG  
47100 PUCHONG, SELANGOR DARUL EHSAN  
Tel: (603) 3342 3289 Fax: (603) 8922 2797  
Email: info@jpsbn.com.my