

CONTOUR INTERVAL: 1METRE  
**CHART DATUM**  
 N. 4381700

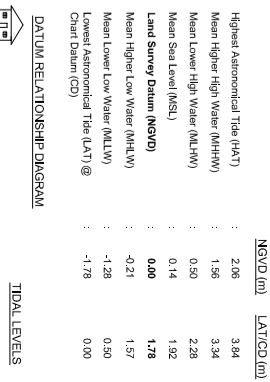
1863  
 PA 06-060499

2974  
 PA 06-066539

- LEGEND / NOTES :**
- All measurements and in metres.
  - Coordinates is in MRSO.
  - All levels are based on Bench Mark No. BM 0031 (RL: 3.84m NGVD) (RL: 5.652m CD).
  - Chart Datum at Tanjung Galang is 1.76m Below Mean Survey Datum (MSD).
  - Horizontal datum is WGS 84.
  - Depth soundings are above Chart Datum (CD).
  - Chart Datum (CD) is 1.76m Below Mean Survey Datum (MSD).
  - Depth soundings are below Chart Datum (CD).

**TIDAL LEVELS AT TANJUNG GALANG**  
 (Established from Royal Malaysian Navy Tide Table 2016)

NGVD (m)	LAT/CD (m)
Highest Astronomical Tide (HAT)	3.84
Mean Higher High Water (MHHW)	3.34
Mean Lower High Water (MLHW)	2.28
Mean Sea Level (MSL)	1.92
Mean High Water (MHW)	1.78
Mean Higher Low Water (MHLW)	1.57
Mean Lower Low Water (MLLW)	0.50
Lowest Astronomical Tide (LAT) @ Chart Datum (CD)	-1.76
Chart Datum (CD)	0.00



**TIDAL LEVELS**

Level	Height (m)
HAT	3.84
MHHW	3.34
MLHW	2.28
MSL	1.92
MCHD	1.78
MHTW	1.57
MLW	0.50
MLLW	-1.76

Depths shown in the drawings are based on the Chart Datum (CD).

**GEOGETIC INFORMATION :**

**Geoidetic Data**

Spheroid : Malayan Revised Everest  
 Semi-Major Axis : 6,377,304.063 metres  
 Semi-Minor Axis : 6,356,103.039 metres  
 Eccentricity Squared : 0.006 637 846 6302  
 Rectangular Flattening (1/f) : 300 801 7

**Origin of Meridian of Reference**

Projection : Pseudo Cylindrical  
 Origin of Meridian : G. Singapore  
 Longitude of Reference : E 102° 28' 10.24 E  
 Latitude of Origin (OM) : N 0° 52' 29.50 N  
 False Easting : 0 m  
 False Northing : 0 m

**CLIENT :**

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**PROJECT TITLE :**

**MUHIBBAH KUANTAN MARITIME HUB**

**DRAWING TITLE :**

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

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

**Checked By:** Sharifz / Hafid

**Date of Survey:** 29th June - 30th July 2016  
**Surveyed By:** Ahmad, Ridwan, Amir, Saiful, Amir, Hisham, Bahari  
**Amir & Cheong**

**Drawn By:** Mastura

**SCALE:** 1 : 1000

**Horizontal Scale:** 1:1000  
**Vertical Scale:** 1:1000

**Surveyors Drawing No.:** JPWS/16/PHG/633006/14  
**Drawing Date:** 22nd August 2016

**Client's Drawing No.:** [Blank]  
**Sheet No.:** [Blank]  
**Rev.:** [Blank]

**REVISION:**

NO.	DATE	REPORT NO.:	918/2018

Chartered & Licensed Land Surveyors:

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