

Section 08 – Single Point Loading & Mooring Buoys -
Sales Item 01-01-19

SINGLE POINT MOORING BUOY – REFURBISHED 2013 – STORED
PORT AREA in MALAYSIA

DETAIL AS FOLLOWS:

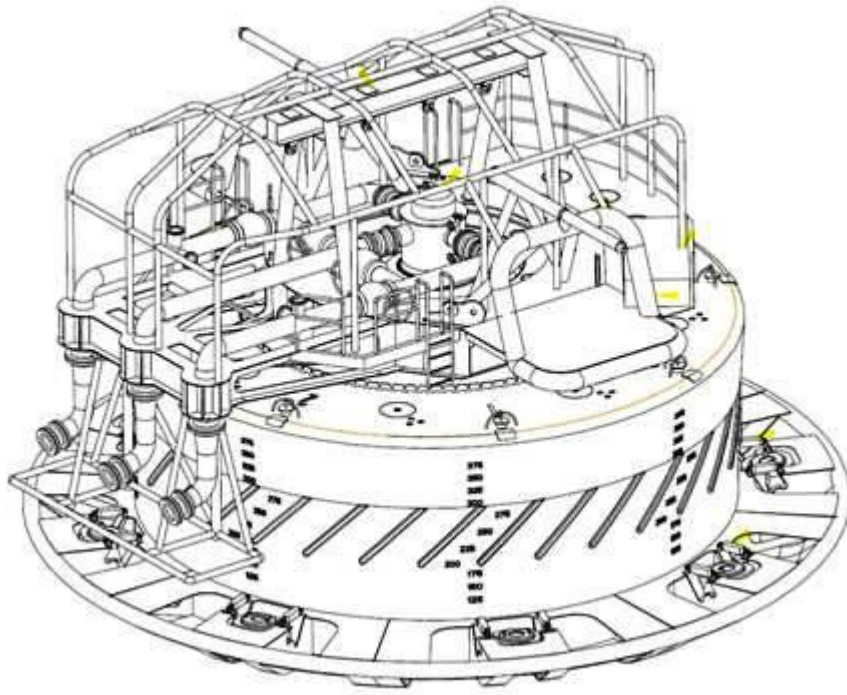
Second hand SPM

Former Lutong SBM's 1 & 3 which were used for product loading (Mogas, Gasoil/Kero, LFO/SWR) until ceasing of depot operations in Oct 2003. Refurbished in 2013, the buoy had its skirt extended with the buoyancy element added below the waterline as shown in the General Arrangement

Drawing below:-

Original Buoy Configuration

Center well diameter	2.9m
Skirt diameter	13.9m
Freeboard	1.2m



Current Condition

The swivel is inspected and found to be in good condition, BV class needs reinstating, hull requires painting and for all of this to happen buoy requires drydocking. The estimated bill \$200,000.

- The buoy is in Malaysia.
- No hawser
- No chafe chain
- Under buoy hose exists but believed to be damaged.
- Cost before refurbishment \$US1.5 million 'as is, where is'





SUMMARY SPECIFICATION OF THE CALM BUOY

ITEM	DESCRIPTION
General Specification	
Buoy Transport Weight	210T
Hull	
Outside Hull Diameter (Bottom)	14m
Outside Hull Diameter (Top)	10m
Inside Moonpool Diameter	3.57m
Skirt Diameter	17.6m
Buoy Hull Depth (Overall)	6.2m
No of Compartments (Bottom)	6
No of Compartments (Top)	8
Deck Manholes	For each compartment
Draught Marks:	6 sets; in Meter
Chain Stoppers:	6 off for chain size 3 1/2". Different chain sizes can be fitted with new stoppers
Cathodic Protection:	Anodes on Buoy Hull, Lifetime 5 years
Main Slew Bearing	Bogie Bearing System
Product Swivel	
Consist of Fix and Rotating part with 1 compartment with single grade of crude and can be modified to 3 compartment to serve 3 grade of crude.	
Piping	
Turntable	Existing 1 x 8" c/w butterfly valve in line and can be modify up to max. of 3 x 12" c/w actuated butterfly valve in line c/w cross over pipe
Moonpool	Existing 1 x 8" c/w butterfly valve in line and can be modify up to max. of 3 x 12" c/w actuated butterfly valve in line
Product Swivel Unit:	Current one (1) path for single crude and can be modify up to Three (3) Path for 3 crude system
Piping Design Pressure	17.9 bar at 80 deg C
Product Piping	ANSI 150#
Painting & Cathodic Protection	
Topside Piping & Outfittings	AC (3 Coat)
Under Water Hull	AC (2 Coat) Tie-Coat (1 Coat) AF (2 Coat)
Cathodic Protection	Zinc Anodes (5 Years)
Navigational Aid & Safety Equipment	
Obstruction Light	1 x obstruction light with photocell
Radar Reflector	1 x radar reflector
Lifebouy	2 x lifebouy
Mooring	
Mooring Lug	SWL 200T



Notes:

- All items subject to prior sale.
- Located in Malaysia.
- Further Documentation available upon request.