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**SPECIFICATION FOR  
300'X 80'X18'DECK CARGO BARGE**

**DECK LOADING: 7T/M<sup>2</sup>**

**DRAWING NO.: G-100-01SPEC**

**Rev. 1**

**14 Sep. 2015**

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## 1. GENERAL DESCRIPTOIN

The vessel is an unmanned dump barge suitably equipped for carrying deck cargo for unrestricted services. The barge is all welded steel construction .It has flush deck and two skegs. The main hull is divided by 8 transverse W.T .bulkheads and 3 longitudinal Bulkheads into 33 compartments.

## 2. PRINCIPAL PARTICULARS:

Length O.A.	:	91.50m
Breadth MLD	:	24.40m
Depth MLD	:	5.50m
Deck loading	:	7T/M <sup>2</sup>

## 3. CLASSIFICATION

The vessel is designed suitable for registration as a cargo barge and constructed In accordance with the latest rules and regulations of BV for unrestricted services. Class Notation: PONTOON I HULL

## 4. MATERIAL & WORKMANSHIP

All material & workmanship will be of the highest quality, with all steel plates, sections, hull forgings and castings met with BV Classification requirements and approval.

## 5. WELDING

The vessel will be welded constructed. Welding is to be carried out in accordance with the Classification's requirements and to the attending surveyor's satisfaction.

## 6. TEST

Prior to the delivery, the hull and other fittings etc. to be thoroughly tested to the satisfaction of the Classification's attending surveyor.

## 7. STABILITY BOOKLET

The stability booklet is to be prepared and supplied by the builder based on the estimated lightship weight or the results from lightship Survey if when required by the Classification.

## 8. SCANTLINGS:

Deck plate	12mm
Bottom plate	12mm
Side shell	12mm
Longitudinal BHD	8mm

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Transverse BHD	8mm
Deck longitudinal	L150X90X9(Fr0~Fr41) L125X75X10(Fr41~Fr58)
Bottom longitudinal	L125X75X10 L150X90X12(Fr41~Fr58)
Side longitudinal	L125X75X7; <b>L125X75X10</b>
Long. BHD longitudinal	L125X75X7
Transverse stiffener	L125X75X7(Fr.5,11,17,23,29,33)
BHD Trans Stiffener	L125X75X10 (Fr.41,46)
Deck transverse	L450X9.5/100
Bottom transverse (floor)	L450X9.5/100
Side web frame	L450X9.5/100
Long.BHD web	L450X9.5/100
Bottom girder(4 pieces)	L450X9.5/100(only for bow and stern part)
Side girder	L450X9.5/100
Deck girder (4 pieces)	L450X9.5/100(only for bow and stern part)
Stanchion	L250X250X9.5
Diagonals	L150X 150X9.5/L200X200X9.5
Bilges chine	Φ50 round bar

## 9. OUTFITTINGS

### 1).Sideboard:

L: 82.35m×21.96m×3.6/3.0m

Plate 8mm

Longitudinal L100X75X7/L150X90X9

Stays H150x150x10

### 2).Mooring bollards:

Mooring bollards of 300 N.B. Heavy Duty Pipe are fitted on main deck as shown on drawing.

### 3).Manholes

Flush type watertight manholes of 600x400 on main deck are to be provided for every Compartment. Studs, washer and nuts are to be stainless steel.

### 4). Four (4) 20T SWL Smite towing brackets are fitted on main deck Fwd & Aft (P&S).

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5) Anchor winch

One unit of 10T diesel driven winch to be fitted onboard.

Anchor Wire Rope

100m x 28mm dia. Anchor wire rope to be supplied and installed.

Anchor

One unit of 1590Kg stockless bower anchor with 6m of 28mm Dia. Anchor chain.

6) Fender :

Suitable numbers of tyres c/w 20mm dia. galvanized chain, plastic cover and shackles are to be provided.

7).Lugs

Suitable no. of small lugs of 15.8mm c/w doublers 15.8mm for lashing go portable tyre fenders welded to deck are to be provided along the sides of the vessel at approximately 3.6m apart.

8).One set of solar type navigation lights. Include p & s lights and aft light.

9).Tyre Fender: Suitable numbers of old tire fenders. Galvanised chain and shackle are to be provided.

10). Flange doubles: flange doubles of size L180x110x14 should be installed along the main deck edge.

**10. PAINTING OF OUTSIDE.**

All steel plates of hull (out of bottom/side/deck plates) and all steel materials of sideboard are to be sand blasted.

All part of steel materials are to be cleaned to as a high standard as possible in order to remove all the dust prior to painting with marine primer. All steel surfaces are to be free from grease and free from moisture before priming coats are applied. All coats are to thoroughly dry before further coats are applied on top.

**11. CATHODIC PROTECTION**

Forty (40) zinc anodes (10kg/pc) are to be fitted to protect the external hull below the waterline against corrosion.