



**OCEAN WORKS ASIA INC.**  
**- UNDERWATER CONTRACTOR -**

COMPANY INFORMATION

Date:	Jan. 2010
100SAT-1	OWA/INFO/2010/006

**100m Saturation Diving System: OWA 100SAT - 1**

**MAIN PARTICULARS**

Owner : Ocean Works Asia Inc.  
 Last Update : Mar. 2005  
 Builder : Ocean Works Asia Inc.  
 Class Society : Nippon Kaiji Kyokai (Class NK)  
 Design/Testing Standard : IMCA D 018 / 024

**SYSTEM COMPONENTS**

Diving Bell (SDC)  
 Bell Launch and Recovery System (LARS) with main skid  
 Side Lock Diver Transfer Chamber (DTC)  
 4 man Living Chamber 1 (LC-1/DDC)  
 4 man Living Chamber 2 (LC-2/HTRC)  
 Control Van (CV)  
 Life Support Van (LSV)  
 HTRC Control Cabin (Flyaway)  
 Reclaim Cabin  
 Main Umbilical Basket and Emergency Umbilical  
 Power Station  
 Store Cabin  
 Hot Water Unit x 2 units



**SYSTEM PARTICULARS**

**DIVING BELL**

Capacity : 2 man  
 Diver Lock-Out : 1 divers  
 Hat Mounted Camera : 2  
 Volume : 2.7m<sup>3</sup>  
 Mating to DTC : Side  
 Pressure Rated: : 10 kg/cm<sup>2</sup>  
 Diving Helmets : 17C Reclaim Hat

**LARS**

Outreach : 2.4m  
 SWL : 5.5 ton

**DTC**

Volume : 2.58m<sup>3</sup>  
 Pressure Rated: : 10kg/cm<sup>2</sup>

**LC-1/DDC**

Capacity : 4 man  
 Volume : 8.5m<sup>3</sup>  
 Pressure Rated : 10kg/cm<sup>2</sup>

**LC-2/HTRC**

Capacity : 4 man  
 Volume : 12.00m<sup>3</sup>  
 Pressure Rated : 10 kg/cm<sup>2</sup>

**HTRC SYSTEM**

Type : Float Away Chamber  
 Launch System : Over Side / Crane Lift  
 Capacity : 9 men  
 Control Van : Dedicated Unit w/ Umbilical

**DIVER HOT WATER UNIT**

Driven : Diesel  
 Supply : 2 Diver & Bell (Seawater)

**CONTROL VAN**

Diver Gas Control system c/w Gas Analyzers  
 Diver/Bell Control  
 Diver Video Recording Unit  
 Power Distribution  
 Chamber Control  
 Chamber Monitoring System

**RECLAIM SYSTEM**

Type : Gasmyzer for 2 Divers  
 Pumps : Haskel AGD-4-2 x 6  
 Diver Capacity : 2.0 m<sup>3</sup>

**LIFE SUPPORT MACHINERY**

Pot Hot Water Unit : Air Driven  
 ECU Units : 2 x Control Master Unit  
 Blowers : External Regen System

**SERVICES REQUIRED**

Electric : 440V-AC 50/60Hz  
 Emergency Generator : 250KVa  
 Compressed Air : 7kg/cm<sup>2</sup>  
 Sea Water : 80L/min  
 Fresh Water : 100L/man/day

**REQUIRED ITEMS FOR 9MEN OPERATION**

Come Out DDC : Same as DDC  
 Come Out DTC : Same as DTC  
 Come Out CV AND CMU

- ✓ Specifications subject to change without notice
- ✓ System components may change due to suitability of work sequence.



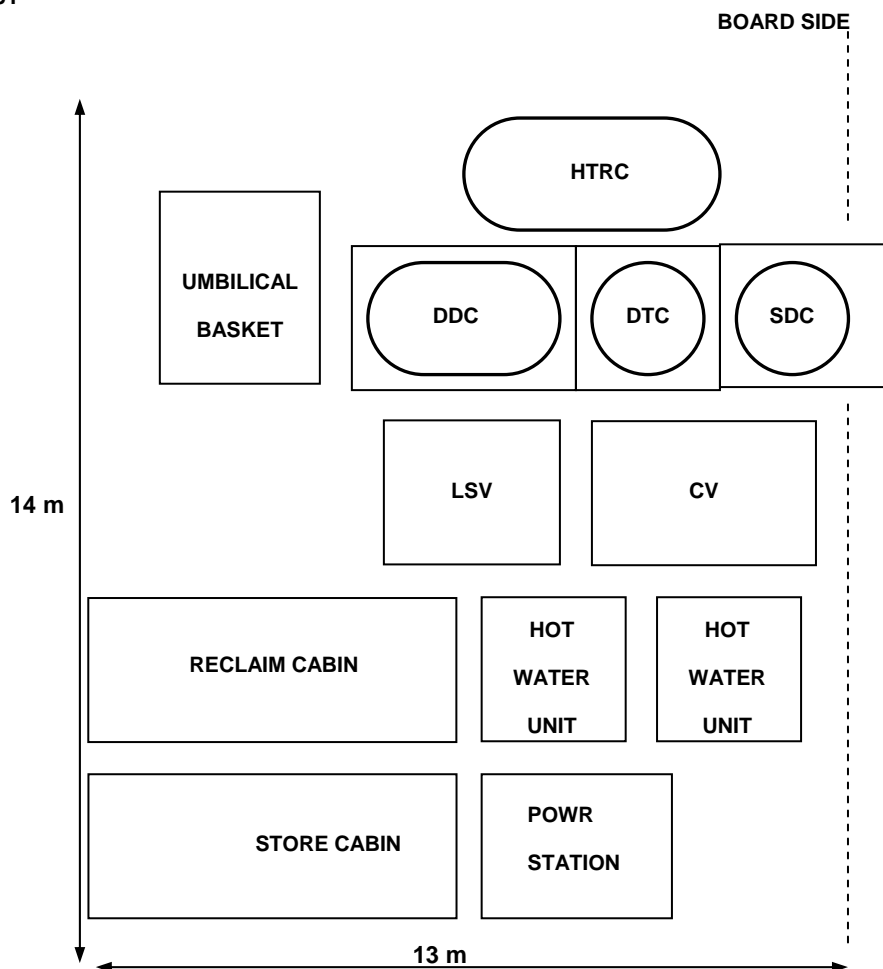
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**GENERAL LAYOUT**



DESCRIPTION	DIMENSIONS (L x W x H)	WEIGHT(TON)
Diving Bell (SDC)	: 2000 x 1760 x 2300	4.0
Bell Launch and Recovery System (LARS)	: 3500 x 2300 x 2300	5.6
Side Lock Diver Transfer Chamber (DTC)	: 1828 x 2300 x 2300	3.0
4 man Living Chamber 1 (LC-1/DDC)	: 3540 x 2370 x 2300	5.0
4 man Living Chamber 2 (LC-2/HTRC)	: 4830 x 2300 x 2300	7.0
Control Van (CV)	: 4000 x 2300 x 2300	4.2
Life Support Van (LSV)	: 3200 x 2300 x 2200	4.0
HTRC Control Cabin	: 3060 x 2440 x 2600	3.0
Reclaim Cabin	: 6000 x 2300 x 2300	4.0
Main Umbilical Basket	: 3600 x 2200 x 1430	5.0
Power Station	: 3200 x 2000 x 2300	4.0
Store Cabin	: 6100 x 2440 x 2600	7.0
Winch with winch skid	: 3000 x 2300 x 1350	4.0
Base Skid ( 2 each )	: 9000 x 300 x 300	2.0
Base Skid ( 2 each )	: 6000 x 250 x 250	1.6
Hot Water Unit (2 units)	: 2300 x 2100 x 2200	2.0