








DEFINITIONS

4. *Monitoring Point (M)* - Pemeriksaan atau pengawasan yang dilakukan secara random oleh Klas atau Owner tanpa ada undangan dari Kontraktor (PT. Citra Shipyard)

Prepare by, Citra Shipyard	Review by, Citra shipyard	Review by, Class	Approved By Owner <i>REPS.</i>
 P. CITRA SHIPYARD QA / QC DEPARTMENT	 P. CITRA SHIPYARD QA / QC DEPARTMENT		 
Poni Saputra	Dwi Susanto	WAN K. SPINGORHNO	Notarising Harsan
Date: 15 / 10 - 18	Date: 15 / 10 / 2018	Date: 17 - 10 - 2018	Date: 29 - 10 - 2018



Project No : TB 101 / 102 / 103 / 105
Project Name : Harbour Tug 2X2200 HP
OWNER : JAI

INSPECTION & TEST PLAN (ITP)

DOC. NO : CS-ITP/ JAI/001
CLASS : BKI
DATE : 15 October 2018
REV. : 1

ITEM	PROJECT PERIOD AND ACTIVITY	REFERENCE DOCUMENT	CONTROL DOCUMENT	CS	CLASS	OWNER	REMARK
A	PREFABRICATION AND PROCEDURES						
	1 Construction drawings	Design drawing	Approved drawing	R	R	R	
	2 WPS and Procedure Qualification Record	BKI Rules	PQR & WPS	H	R	R/H	
	3 Welder & Welder operator	Approved WPS	WQT, Welder List	H	W/R	R/H	
	4 Non destructive test plan	BKI Rules & IACS	NDT Report	H	W/R	R	
	5 Receiving materials & machinery	Vendor document	Materials cert	R	M/R	R/H/W	
	6 Dock Trial Procedure	IACS, Vendor Test, Owner Spec,	Dock trial and sea trial	H	R	R	
	7 Sea Trial Procedure	BKI rules	procedure	H	R	R	
	8 Inclining Procedure	Drw Approval, Inclining Test Procedure	Inclining test Procedure	H	R	R	
B	HULL FABRICATION AND INSPECTION						
	1 Plate traceability and verifications	Plate tracing	Materials cert	H	R/M	R/M	
	2 Fit Up Inspection (Panel, Block)	Class Rules & IACS	Inspection Report	W	M/W	M/W/H	
	3 Visual Inspection and Scantling check	Latest rev. drawing	Inspection Report	H	W	W/H	
	4 Welding Inspection	Approved drawing, BKI Rules	Inspection Report	H	W	W/H	
	5 Back Gauging Inspection	Approved drawing, BKI Rules	Inspection Report	W	M	M/W	
	6 Final inspection in all tank & compartment	Approved drawing, BKI Rules	Inspection Report	H	H/W	H/W	
	7 Carpenter Insulation application check	Approved drawing, BKI Rules	Inspection report	W	M/R	M/R/H	
	8 Carpenter Paneling installation check	Approved drawing, Owner Spec	Inspection report	W	M/R	M/R/H	
C	HULL TESTING						
	1 Air test for all tank (Tank Test/Tightness Test Plan)	Approved drawing	Inspection Report	H	H/W	W/H	
	2 Radiography Testing	BKI Rules & IACS	RT Report	R	W	R/W	
	3 UT Examination seating ME, Z Peller	BKI Rules & IACS	UT Report	W/R	W/R	R/W/H	
	4 Vacuum Test/Hose Test Welding i.w.o Eng.Room	BKI Rules & IACS	Inspection report	H	H	W/H	
	5 Hose test/Chalk test water tight door & Hatch	BKI Rules & IACS	Inspection Report	W	W	W	
	6 Hose test on access holes & windows	BKI Rules & IACS	Inspection Report	W	W	W	
	7 Ventilation ducting installation	Approved drawing	Inspection report	W	W	W/M	
	8 Sea Chest Tightness Plan	Approved drawing	Inspection report	W	W	W/M/H	
D	PIPING FABRICATION AND INSTALLATION						
	1 Material/equipment traceability and verifications (Pump, Pipe, etc)	BKI Rules & IACS	Mill certificate	W/R	M/R	M/R	
	2 Fit Up Inspection	Class Rules & IACS	Inspection Report	W	M	M/W/H	
	3 Final visual welding check	BKI Rules & IACS	Inspection Report	H	W	W/H	
	4 Pipe line check	Latest rev. drawing	Inspection Report	H	W	W/H	
E	Hydro test (Pressure Test)						
	5 Hydro test (Pressure Test)	BKI Rules & IACS	Inspection Report	H	W	W/H	



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E	6	Flushing for FO, LO and Hydraulic System	BKI Rules & IACS	Inspection Report	W	W/M	W/M/H	ALL COMMISSIONING PROCEDURES SHALL BE SUBMITTED TO CS AND CLASS FOR REVIEW.	
	PIPING SYSTEM FUNCTION TEST (COMMISSIONING)								
	1	Fuel oil system	Approved Drawing	Inspection Report	H	W	W		
	2	Lubrication oil system	Approved Drawing	Inspection Report	H	W	W		
	3	Sea Water cooling system	Approved Drawing	Inspection Report	H	W	W		
	4	Fresh Water, Sea Water system	Approved Drawing	Inspection Report	H	W	W		
	5	Fire Fighting system	Approved Drawing	Inspection Report	H	W	W		
	6	Bilge system	Approved Drawing	Inspection Report	H	W	W		
	7	Ballast system	Approved Drawing	Inspection Report	H	W	W		
	8	Soil, Sanitary system	Approved Drawing	Inspection Report	H	W	W		
	9	Drain, Filling, Air vent system	Approved Drawing	Inspection Report	H	W	W		
F	ELECTRICAL								
	1	Material/Equipment traceability and verifications (Cable, MSB, ESB etc)	BKI Rules & IACS	Inspection Report	W/R	M/R	M/R W/H		
	2	Cable Installation & Penetration check	Approved Drawing	Inspection Report	H	W	R/W		
	3	Lighting system test	Approved Drawing	Inspection Report	H	W	W		
	4	Navigation light system test	Approved Drawing	Inspection Report	H	W	W		
	5	Megger test	IACS	Inspection Report	H	W/R	R		
	6	MSB Certification	Approved Drawing	Inspection Report	H	H	W/R		
	EQUIPMENT								
	1	Material/Equipment traceability and verifications relating to MARPOL	BKI Rules & IACS	Inspection Report	W/R	M/R	M/R W/H		
	2	Radio system operation test	Sea trial protocol	Test Report	W	W	W		
	G	3	Intercom operation test	Dock trial protocol	Test Report	W	W	W	
4		Public announcers operation test	Dock trial protocol	Test Report	W	W	W		
5		Compass adjustment test	Dock trial protocol	Test Report	W	W	W		
6		Navigation equipment operation test	Sea trial protocol	Test Report	W	W	W		
7		Anchor and chain verification	Vendor document	Mill certificate	R	W/R	R W/H		
8		Anchor winch operation test	Sea trial protocol	Sea trial report	W	W	W		
9		ALL Equipment relating SR,SE, MARPOL are to be tested	Sea trial protocol	Sea trial report	W	W	W/M/H		
MACHINERY									
1		Equipment traceability and verifications	BKI Rules & IACS	Inspection Report	W/R	M/R	M/R W/H		
2		Shaft, Main Engine and Gear box alignment prior and after	Dock trial protocol	Inspection report	W	W	W/H		
H		3	Check fast process (By Maker)	Vendor procedure	Inspection report	W	W/R	W	
	4	Tightening of foundation and bolt	Engine Maker	Inspection report	W	W/R	W/R H		
	5	Main Engine safety device test	Dock trial protocol	Inspection report	H	W	W/H		
	6	Endurance test	Sea trial protocol	Inspection report	H	H	W/H		
	7	Generator Safety Device Test	Engine Maker/Class Rule	Inspection report	H	W	W/R H		
	8	Generator Load Bank Test and Short Circuit	Engine Maker/Class Rule	Inspection report	H	W/R	W/R H		



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J	9 Rudder alignment & clearance	Latest drawing	Inspection report	W	W/R	W/R	
	10 Hydraulic steering operation test	Sea trial protocol	Sea trial report	W	W/R	W/R	
J	1 Keel Deflection Check	Class Rules & IACS	Inspection Report	H	W	W/R	
	2 Principal Dimension Check	Class Rules & IACS	Inspection Report	H	W	W/R	
K	PAINTING						
	1 Pre Surface preparation	Paint spec	Painting report	W	W	M/W	
	2 Surface preparation	Paint spec	Painting report	W	W	M/W	
	3 Final inspection of painting	Paint spec	Painting report	W	W	W/M	
	4 Zinc Anode/Cathodic protection check	Latest drawing	Inspection report	W	W	M/W	
L	SEA TRIAL						
	5 Antifouling System	Paint spec	Painting report	W	W	M/R/W	
	1 Speed test	Sea trial procedure	Sea trial report	H	W	W/H	
	2 Maneuvering trial	Sea trial procedure	Sea trial report	H	W	W/H	
	3 Crash Stop Trial, Etc...	Sea trial procedure	Sea trial report	H	W	W/H	
M	1 Bollard Pull, Winch Test	Owner required/Spec	Test Report	H	W	W/H	
	1 Inclining Test	Inclining test procedure	Inclining test report	H	W	W/R	
O	DOCUMENTATION						
	1 As build drawing	Consultant designer	Drawing dept	R	R	R	
	2 Material certificate	Vendor document	Material certificate	R	R	R	
	3 Machinery and equipment certificate	Vendor document	Inventory list	R	R	R	
	4 Inspection report	ITP	Inspection report	H/W	R	R	
	5 Lightship survey	Inclining agenda	Stability booklet	H	R	R	
	6 Dock trial report	Vendor doc & BKI Rule	Dock trial protocol	R	R	R	
	7 Sea trial report	BKI Rules & IMO	Sea trial Protocol	R	R	R	
	8 Classification certificate	BKI Rules	BKI Certificate	R	R	R	
	9 Statutory certificate	Port registry	Registration doc	R	R	R	
	10 Machinery and equipment manual book	Vendor document	Inventory list	R	R	R	

Legend: M : Monitoring W : Witness Point H : Hold Point N/A : Not Applicable

Prepared By:  QA/QC Supervisor
Reviewed By:  QA/QC Department
PT. Citra Shipyard

Reviewed By:  Owner Rep
Reviewed By:  Biro Klasifikasi Indonesia
MNO-001

Approved By:  Class Surveyor
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