

SYSTEM	PIPING SYSTEM CLASS:	III	HYDROSTATIC TEST PRESSURE:					
	DESIGN WORKING PRESSURE:		JOINTS NDT:	-				
	DESIGN WORKING TEMPERATURE:	-	PIPING MATERIAL:	STEEL				
	SYSTEM PRESSURE CLASS:	PN10	YARD SYSTEM TAG:					
	MEDIA FLASHPOINT:	-						
PIPING SPECIFICATION	Nominal Diameter (ND)	Piping		Connections				
	≤40	STEEL PIPES	ANSI B 36	ASTM A53 GR.B	FLANGED	EN 1092	PN 10	
	>40 ≤50	STEEL PIPES	ANSI B 36	ASTM A53 GR.B	FLANGED	EN 1092	PN 10	
>200	STEEL PIPES	ANSI B 36	ASTM A53 GR.B	FLANGED	EN 1092	PN 10		
Remarks For wall thickness on pipes in general, in tanks, on weather deck and for overboard pipes see respective pipe charts.								
ANSI B 36 SEAMLESS STEEL PIPES	Nominal diameter	ND20	ND25	ND32	ND40	ND50	ND65	ND80
	Outer diameter	26,6	33,4	42,1	48,3	60,3	73,0	88,9
	Wall thickness, general (Schedule 40)	2,9	3,3	3,6	3,7	3,9	5,2	5,5
Wall thickness, in tanks (Schedule 80)				4,8	5,1	5,5	7,0	7,6

- GENERAL NOTES:**
- THIS DRAWING IS AN INDICATIVE SCHEMATIC ONLY
  - ALL EQUIPMENT CONNECTIONS/DETAILS SHOWN ARE PRELIMINARY-SUBJECT TO CHANGE BASED ON FINAL EQUIPMENT SELECTED.
  - THRUSTER UNIT SHOWN IS INDICATIVE ONLY. THRUSTER LO TANKS, VALVES AND ASSOCIATED FITTINGS SHALL BE BASED ON OEM RECOMMENDATION.
  - LUBE OIL FILLING TO INDIVIDUAL CONSUMERS MAY BE MANUAL BY FLEXIBLE HOSE COUPLED TO SUPPLY LINE PIPE AND FREE END TO THE FILLING CAP, DEPENDING ON CONSUMER LUBE OIL SYSTEM.
  - ALL FLEXIBLE HOSE/CONNECTIONS SHALL BE FIRE RESISTANT.
  - ALL LO PIPES TO BE MS BLACK STEEL OF SCH.40 UNLESS OTHERWISE STATED.
  - LO PURIFIERS/ LO COOLERS SHALL BE PROVIDED ONLY ON ENGINE OEM RECOMMENDATION
  - CLOSED CIRCUIT LUBE OIL SYSTEM SHALL BE PROVIDED WITH AN ENGINE DRIVEN PUMP AND A STANDBY ELECTRIC MOTOR DRIVEN PUMP. AUTOMATIC CHANGEOVER TO BE PROVIDED FOR LUBE OIL STANDBY PUMPS WITH ENGINE DRIVEN PUMPS WITH SUITABLE ALARM
  - QUICK CLOSING VALVES ARE TO BE FITTED DIRECTLY ON RESPECTIVE TANK BULKHEADS. THESE VALVES ARE TO BE OPERABLE FROM A POSITION OUTSIDE THE MACHINERY SPACE AND THE VALVES TO BE PROVIDED WITH LOCAL MANUAL OPERATION INDEPENDENT OF THE REMOTE OPERATION.

NSFI	QTY	DESCRIPTION	CAPACITY	TYPE
601/101.01	2	MAIN ENGINE	Approx.2400 KW	
651/101.01	2	AUXILIARY DG	Approx.150 KW	
665/102.01	2	HARBOUR DG	Approx. 50 KW	
634/101.01	2	THRUSTER UNIT		
711/101.01	2	LUBE OIL HAND PUMP	3 m3/hr	SEMI ROTARY
711/102.01	1	LUBE OIL TRANSFER PUMP	1.5 m3/hr, 2Bar	GEAR PUMP
713/101.01	2	LO STANDBY PUMP FOR ME	-	ELECTRIC, GEAR/SCREW PUMP

**SEE LETTER E-126240-180642**

**REVIEWED**



**11-SEP-2021**

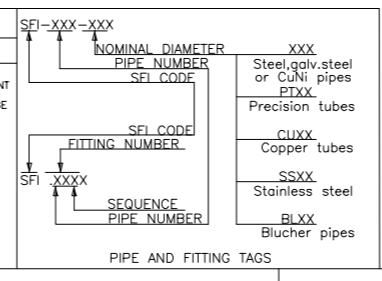
**MAIN PARTICULARS**

LENGTH O.A	abt 33.0 [m]
LENGTH B.P	abt 31.3 [m]
BREADTH (MLD)	abt 11.9 [m]
DEPTH (MLD)	abt 5.4 [m]
DRAFT (HULL)	abt 4.2 [m]
COMPLEMENT	14 PERSONS
BOLLARD PULL	80 T @100% MCR
INSTALLED POWER	abt 4800 [kW]
CLASS NOTATION	IRS - SWASTIKA SUL, TUG SWASTIKA IY, AGNI 1 (2400 m³/hr)

**PLAN ENDORSED FOR IN-PRINCIPLE APPROVAL**

ARMATURE AND FITTINGS LEGEND			
Symbol	Designation	Symbol	Designation
	BUTTERFLY VALVE		LOW LEVEL ALARM
	GATE VALVE		HIGH LEVEL ALARM
	DRAIN VALVE		QUICK CLOSING VALVE
	BALL VALVE		LO FILTER
	BALL VALVE c/w HOSE CONNECTION		GEAR PUMP
	LEVEL GAUGE		NON RETURN VALVE
	RELIEF VALVE		CONDENSATE TRAP
	FLEXIBLE CONNECTION		

REFERENCE DRAWINGS	
Drawing No.	Drawing title
CT3380-101-001	GENERAL ARRANGEMENT
CT3380-445-001	OILY WATER & SLUDGE OIL SYSTEM



Rev. I	30-Aug-2021	For publishing on IPA website	ANJ	AK	NFC
No.	Date	Description	Drawn	Checked	Approved
ASTDS		80T BP TUG			
DESIGN NO: CT3380		TITLE <b>LUBE OIL SYSTEM</b>			
COCHIN SHIPYARD LIMITED P.O. Bag 1653, COCHIN-682015, INDIA		NTS	A3	CT3380	CT3380-711-001
Scale		Format	Project No.	Dwg. no.	

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