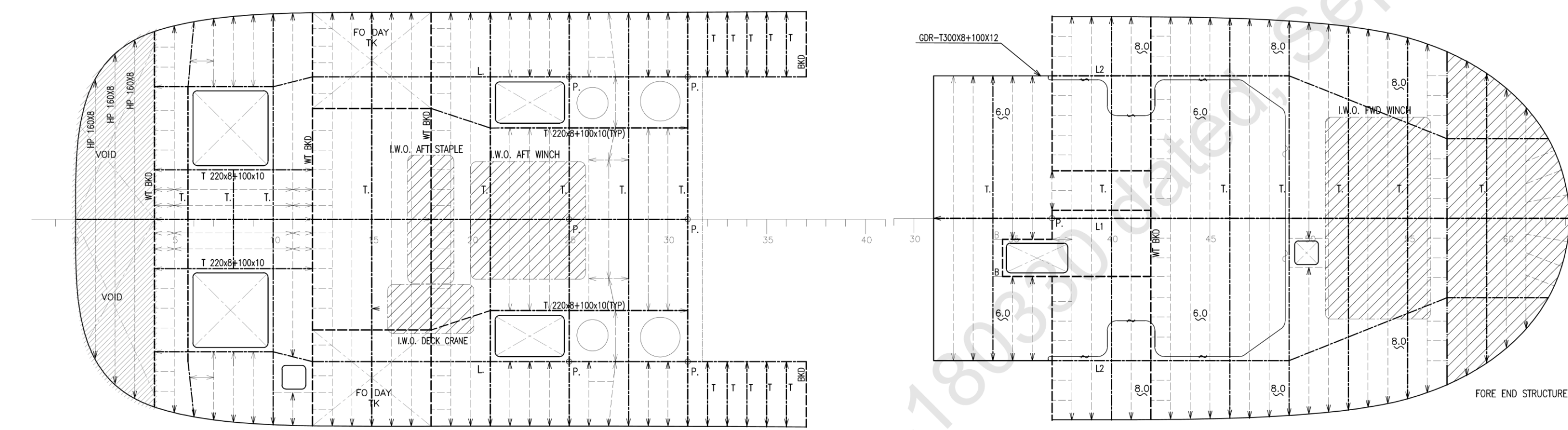


- NOTE**
1. MATERIAL: ALL PLATES & STIFFENERS ARE TO BE IRS GRADE A STEEL/EQUIVALENT.
 2. ALL DIMENSIONS ARE IN mm. (EXC. NOTED)
 3. THIS DRAWING CONTAINS INDICATIVE SCANTLINGS FOR IN PRINCIPLE APPROVAL FROM CLASS. THIS DOES NOT PRECLUDE THE USE OF ALTERNATE STRUCTURAL ARRANGEMENT / PLATE-THICKNESS / STIFFENERS BY THE RESPECTIVE BUILDER FOR THEIR VESSEL. THESE ARE TO BE APPROVED BY THE CLASS PRIOR TO CONSTRUCTION.
 4. EQUIVALENT ANGLE SECTIONS MEETING REQUISITE SECTION MODULUS MAY BE GIVEN IN LIEU OF BULB FLATS (HP).
 5. ALL DETAILING INCLUDING WELDING DETAILS AND CONNECTION DETAILS OF GIRDERS, BRACKETS, STIFFENERS, PILLARS, SCALLOPS, OPENINGS FOR DOORS & WINDOWS, HATCHES ETC. ARE TO BE SUBMITTED TO CLASS BY THE RESPECTIVE BUILDER.
 6. SUPPORTING STRUCTURE I.W.O DECK FITTINGS FOR ANCHORING, MOORING, TOWING, CRANES ETC. ARE TO BE SUBMITTED SEPARATELY TO CLASS FOR THEIR APPROVAL.
 7. SEPARATE STRUCTURAL DRAWINGS OF BOTTOM STRUCTURE, SIDE SHELL, BULKHEADS, TRANSVERSE SECTIONS, LONGITUDINAL SECTIONS, FORE END CONSTRUCTION, AFT END CONSTRUCTION, BOLTED HATCH CONSTRUCTION, SUPERSTRUCTURE, ENGINE FOUNDATION, BULWARK, SKEG, FENDER, CHAIN LOCKER OR ANY OTHER DETAILS REQUIRED FOR APPROVAL BY CLASS SHALL BE PREPARED AND SUBMITTED BY RESPECTIVE BUILDERS PRIOR TO CONSTRUCTION.



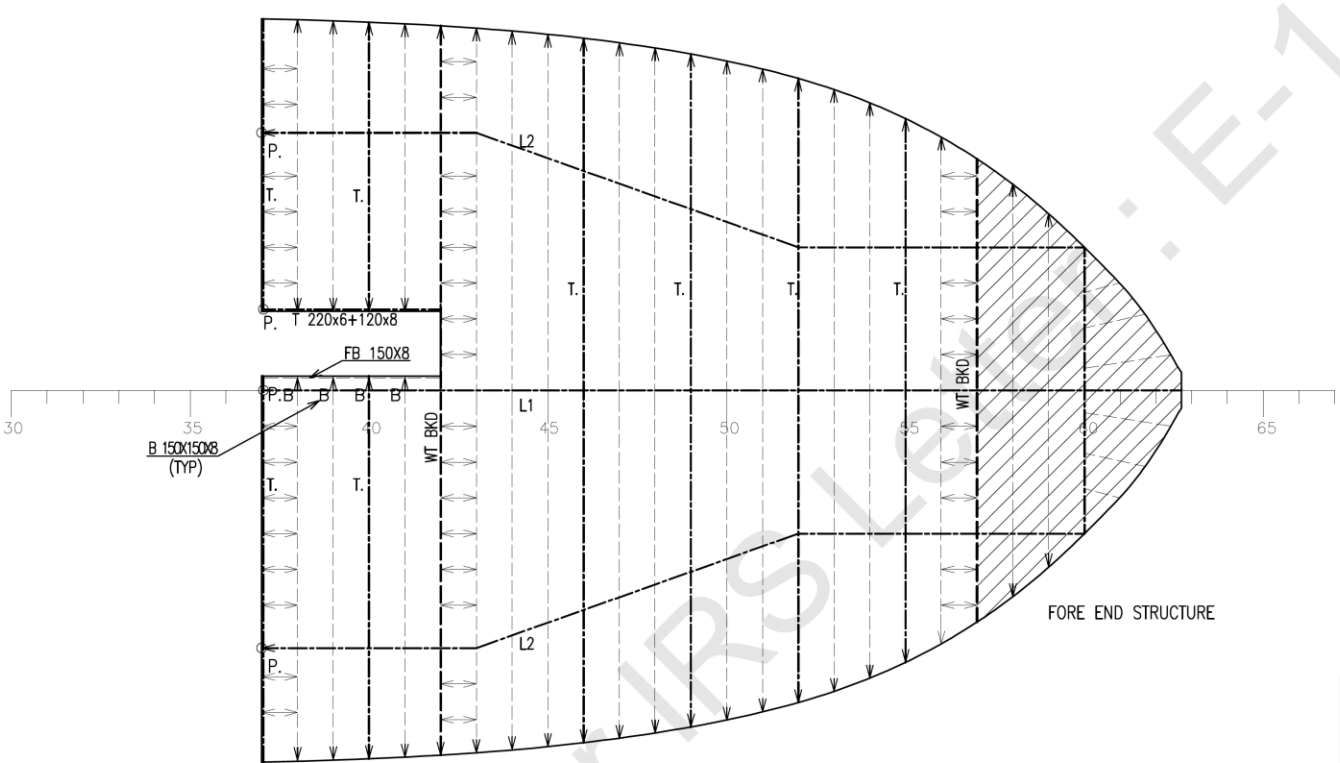
LENGTH O.A	abt 32.00 [m]
LENGTH B.P	abt 30.80 [m]
BREADTH (MLD)	abt 10.50 [m]
DEPTH (MLD)	abt 5.00 [m]
DRAFT (HULL)	abt 3.70 [m]
SCANTLING DRAFT	abt 4.50 [m]
COMPLEMENT	10 PERSONS
BOLLARD PULL	50 T @100% MCR
INSTALLED POWER	abt 3000 [kW]
CLASS NOTATION	SWASTIKA SUL, SWASTIKA IY, TUG, INDIAN RIVER SEA VESSEL TYPE - 4

MAIN DECK-5000 A/B

DECK PLATE THK.	: 8 mm.
DECK BEAM	: HP 120x8(UNO)
TRANS. GDR.(T)	: T 220x8+120x10
LONGI. GDR.(L)	: T 220x8+100x10

RAISED DECK

DECK PLATE THK.	: 8 mm.(UNO)
DECK BEAM	: HP 120x8
TRANS. GDR.(T)	: T 220x8+100x10
LONGI. CL GDR.(L1)	: T 300x10+150x12
LONGI. SIDE GDR.(L2)	: T 300x8+100x12



LOWER ACCOMMODATION-3900 A/B

DECK PLATE THK.	: 7 mm.
DECK BEAM	: HP 120x8
TRANS. GDR.(T)	: T 200x6+120x8
LONGI. CL GDR.(L1)	: T 300x8+100x10
LONGI. SIDE GDR.(L2)	: T 300x6+100x8



PLAN ENDORSED FOR IN-PRINCIPLE APPROVAL

Any opening not shown on the approved plan which may be cut in Rule decks or shell plating are to be properly framed and adequate compensation provided to the Surveyor's satisfaction. The loss of sectional area of longitudinal materials is to be resorted by doublers or increased thickness of plating in way of and around such openings. Adequate compensation is also to be fitted for the cutting of other strength members as may be necessary.

Rev. I	30-Aug-2021	For publishing on IPA website	AAB	ABK	HUR
No:	Date	Description	Drawn	Checked	Approved
ASTDS		50T BP HARBOUR TUG			
DESIGN NO : CT3250		TITLE			
		PROFILE AND DECK PLAN			
COCHIN SHIPYARD LIMITED P.O. Bag 1453, COCHIN-682015, INDIA	1:100	A2	CT3250	CT3250-200-004	
	Scale	Format	Project No.	Dwg. no.	
This design was developed by Cochin Shipyard Ltd. for Indian Ports Association as a part of ASTDS Package. CSL does not make any representation or warranties, express or implied as to the completeness, accuracy, suitability of the design and it shall be the responsibility of the respective builder/end-user to make its own assessment / evaluation of any such completeness, accuracy, suitability of the design prior to construction and any consequence thereof.					