

**DESIGN BM & SF**

DESIGN STILL WATER BENDING MOMENT

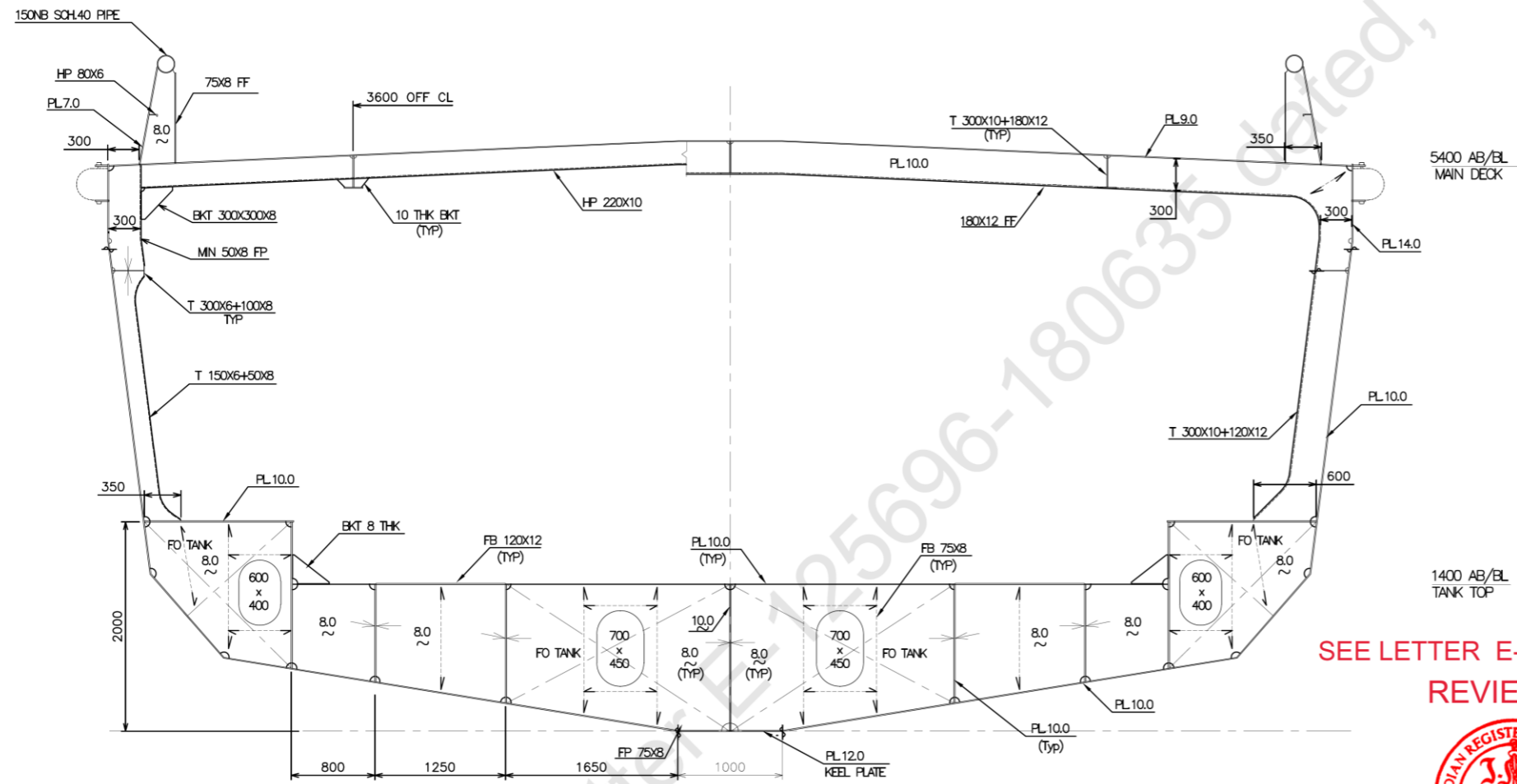
SAGGING - 2145 kNm

HOGGING - 3365 kNm

DESIGN STILL WATER SHEAR FORCE - 539 kN

**NOTE**

1. MATERIAL: ALL PLATES & STIFFENERS ARE TO BE IRS GRADE A STEEL/EQUIVALENT.
2. ALL DIMENSIONS ARE IN mm. (EXC. NOTED).
3. MAIN DECK, (AFT WORKING DECK), FROM FR.0 TO FR.26, IS DESIGNED FOR A PRESSURE OF 5t/m<sup>2</sup>.
4. 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.
5. EQUIVALENT ANGLE SECTIONS MEETING REQUISITE SECTION MODULUS MAY BE GIVEN IN LIEU OF BULB FLATS (HP).
6. IT IS RECOMMENDED TO USE ROUND RODS IN WAY OF HULL CHINES.
7. 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.
8. SUPPORTING STRUCTURE I.W.O DECK FITTINGS FOR ANCHORING, MOORING, TOWING, CRANES ETC. ARE TO BE SUBMITTED SEPARATELY TO CLASS FOR THEIR APPROVAL.
9. 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.



**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]
SCANTLING DRAFT.....	abt 4.86 [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 (2400m <sup>3</sup> /hr)

SEE LETTER E-125696-180635

REVIEWED



12-SEP-2021

PLAN ENDORSED FOR IN-PRINCIPLE APPROVAL

TYP. SECTION I.W.O ORDINARY FRAME

TYP. SECTION I.W.O WEB FRAME

Rev. I	30-Aug-2021	For publishing on IPA website	AAB/VR	ABK	HUR
No:	Date	Description	Drawn	Checked	Approved
ASTDS		80T BP TUG			
Design No: CT3380		TITLE			
		<b>MIDSHIP SECTION</b>			
COCHIN SHIPYARD LIMITED		1:60	A3	CT3380	CT3380-200-003
P.O. Bag 1653, COCHIN-682015, INDIA		Scale	Format	Project No.	Dwg. no.

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