

THE SHALIMAR WORKS (1980) LIMITED

(WHOLLY OWNED BY THE GOVERNMENT OF WEST BENGAL)

Regd. Office: HRBC Office Compound, Canteen Building, 1st Floor,
Munshi Premchand Sarani, Kolkata – 700021
Tele Fax: +91 (033) 2262-0099
E-mail: mdshalimarworks@gmail.com,
shalimaraccounts@gmail.com

Works: 1, Foreshore Road, Howrah – 711102
Ph.: +91 (033) 2668-6056 / 1086
E-mail: swlaccountsworks@yahoo.co.in
swlpurchase1@gmail.com

Website: www.shalimarworks1980ltd.com CIN: U45207WB1981SGC033266

Ref.: GM/TENDER/23-24/SB/804/22

Date: 02/09/2023

Notice Inviting e-Tender (NIeT)

Notice inviting e-tender for Manufacture and Supply of Steel Outfit items for RORO Vessel, Yard 804 for WBTC Ltd. detailed in the NIeT.

Sl. no.	Description of Supply	Period of Completion	Eligibility of Bidders
1.	<p>Manufacture and Supply of following Steel Outfit items for RORO Vessel of WBTC Ltd. as per Technical Specification, mentioned on Section – C of NIeT.</p> <p>i) Steel Weather Tight Hatches ii) Steel Manholes with Pad iii) Bollards iv) Ramp Hinge and Hinge PIN v) Steel Weather Tight RH Doors</p> <p>Quantity – As per BOQ</p>	<p>Delivery within 45 to 60 Days from the date of receipt of Purchase Order.</p>	<p>1) Tenderers must have experience in supply of Marine duty equipment viz. Steel Hatches, Manholes with Pad, Bollard, Ramp Hinge & Hinge PIN, Steel Doors etc. to reputed Organizations / Shipyards. Documentary evidence in support of the same has to be submitted along with Techno Commercial bid. Dealers of manufacturers have to submit valid authorisations.</p> <p>2) NIeT documents (Section 'B' and Section 'C') duly stamped and signed are to be uploaded as a token of acceptance of Terms, Conditions and Technical specification there in.</p>

- 1) Tenders are invited from experienced, bona-fide and financially sound Agencies for above mentioned work by The Shalimar Works (1980) Ltd. Intending bidder may participate & download the tender documents from the website www.wbtenders.gov.in.
- 2) The financial bid of the prospective tenderer will be considered only if the technical bid of the tenderer is found qualified. The decision of the Tender Evaluation Committee will be final and absolute in this respect.
- 3) Cost of Tender & Earnest Money Deposit (EMD):
 - (A) Tender Fees: ₹ 1,000/- (Rupees One Thousand only) only is to be submitted along with Part (I). The Tender Fee is non-refundable.

SHIP BUILDERS * SHIP REPAIRERS * ENGINEERS



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(B) Earnest Money Deposit (EMD):

a) A sum of ₹ 15,000/- (Rupees Fifteen Thousand only) only shall be deposited as interest free EMD in the form of the following payment modes with the tender:

- i. Demand Draft drawn on any Nationalized Bank in favour of THE SHALIMAR WORKS (1980) LIMITED, payable at Kolkata.
- ii. RTGS/NEFT in case of offline payment through bank account in any bank.

Bank Account Details:

Bank Name: UCO Bank

Branch Name: FCC-INDIA EXCHANGE PLACE BRANCH

Branch Address: 2, INDIA EXCHANGE PLACE, KOLKATA - 700001, WB

Beneficiary Name: THE SHALIMAR WORKS.(1980) LIMITED

Account No.: 19670510001264

IFS Code: UCBA0000002

The amount of Earnest Money has been fixed for tendering purpose only having no relation to the prospective contract price. This amount of EMD in case of successful tenderer would be refunded to him after completion of work.

- b) Any tender not accompanied by Tender Fees and Earnest Money shall be summarily rejected. Bidders registered with MSME may seek exemption by submitting valid MSME certificate.
- c) Earnest Money deposited by the unsuccessful tenderers shall be refunded to him without any interest and on specific written request from the tenderers after issuance of order on the successful tenderer.
- d) If after submitting the tender, the tenderer withdraws/modifies his tender or fails to furnish the performance guarantee/security deposit, if applicable, in the form of Bank Guarantee within the stipulated time, on acceptance of the tender, SWL shall be entitled to forfeit the full amount of earnest money deposited by the tenderer

4) Documents to be uploaded:

a) Technical Proposal (Part-I):

- Scan copy of the Tender fee
- Scan copy of the EMD
- Self-attested NIeT and all relevant documents
- Scan copy of Work orders of similar types of supply/work executed



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- Scan copy of PAN, GST, Trade License, latest P Tax payment certificate, IT Return for last 3 years

All the documents should be duly stamped & signed as a token of acceptance.

b) Financial Proposal (Part-II):

- BOQ (Bill of Quantity)
- 5) Bids shall remain valid for a period not less than 90 days from the last date of submission of financial bid.
- 6) Date and Time Schedule:

Sl.	Particulars	Date & Time
1.	Notice uploading date	02/09/2023
2.	Document download & bid submission start date	02/09/2023 @ 1:00 PM
3.	Bid submission end date	16/09/2023 @ 1:00 PM
4.	Submission of original copies of DD at Head Office, SWL	18/09/2023 before 1:00 PM
5.	Technical bid opening date (Part-I)	18/09/2023 @ 1:00 PM
6.	Financial bid opening date (Part-II)	To be notified later

- 7) The bidder, at his own responsibility, risk and cost may discuss with SWL that may be necessary for preparing the bid as mentioned in the Notice Inviting e-Tender, before submitting offer with full satisfaction
- 8) The intending bidders shall clearly understand that whatever may be the outcome of the present invitation of bids, the tender accepting authority reserves the right to accept or reject any offer without assigning any reason whatsoever and is not liable for any cost that might have been incurred by any tenderer at the stage of bidding.
- 9) Prospective applicants are advised to note carefully the eligibility criteria as mentioned in NIeT. Offers of bidders fulfilling the eligibility criteria will only be opened. If required, the bidders may contact General Manager (Mobile: 99030 34882, e-Mail: gmsshalimarworks@gmail.com) for any technical clarification.
- 10) Conditional/incomplete tender will not be accepted under any circumstances.
- 11) The intending tenderers are required to quote the rate online per unit in INR.
- 12) During scrutiny, if it comes to the notice of the Tender Inviting Authority that the credential or any other paper found incorrect / manufactured / fabricated, that bidder would not be allowed to participate in the tender and that application will be rejected without any prejudice.



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- 13) The General Manager reserves the right to cancel the NIeT / Corrigendums due to unavoidable circumstances and no claim in this respect will be entertained.
- 14) If there be any objection regarding prequalifying the intending firm may contract SWL within 2 (two) days from the date of publication of NIeT.
- 15) Before issuance of the order, the Tender Inviting Authority may verify the credential and other documents of the lowest tenderer, if found necessary. After verification if it is found that the documents submitted by the lowest tenderer is either manufactured or false, in that case order will not be issued in favour of the said tenderer under any circumstances.
- 16) Escalation of Price on any ground and consequent cost overrun shall not be entertained under any circumstances during processing of the tender.

Seal and signature of the tenderer

General Manager, SWL

SECTION – A
BIDDER'S PROFILE
(On Company's Letter Head)

1. Name of the Company:
2. Address of the Company:
3. Name of Contract Person:
4. Mobile No. and e-Mail ID:
5. Registration nos.:
 - a) PAN:
 - b) GST:
 - c) P Tax:
6. Bank details for refunding EMD/release of payments.
 - a) Bank Name:
 - b) Branch Name:
 - c) Beneficiary Name:
 - d) Account No.:
 - e) IFS Code:

Signature of the tenderer with office seal



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SECTION – B SPECIAL TERMS AND CONDITIONS

- 1) The material has to be delivered in the premises of SWL at 1 Foreshore Road, Howrah 711 102.
- 2) Delivery Schedule:
Delivery within 45 to 60 days from the date of receipt of Purchase Order.
- 3) Scope of Supply:
Scope of supply and technical specification/requirement as per NIeT document (Section 'C').
- 4) Selection of Bidder:
Selection of bids will be based on individual item wise and lowest price basis.
- 5) Terms of Price:
Quoted price shall be firm and fixed in INR till full execution of orders and shall be on F.O.R. SWL, Howrah basis. Price is to be offered inclusive of delivery charges up to SWL yard.
- 6) Transportation charges:
NIL. To be supplied at bidder's risk & cost, up to SWL yard – 1 Foreshore Road, Howrah 711 102 are included in your scope.
- 7) Taxes:
Taxes and or any other charges as applicable are to be mentioned clearly. Rate of GST shall be applicable as per rule.
- 8) Inspection:
By SWL after receipt at SWL. Manufacture's Test Certificate is to be provided along with supply. Successful bidders may request SWL for inspection at pre-despatch stage.
- 9) Terms of Payment:
 - i) 90% within 30 days from the date of supply as well as acceptance of materials at SWL.
 - ii) 10% after completion guarantee period or on submission of Performance Bank Guarantee of equivalent amount and period as per SWL Format.



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10) Guarantee/Warranty:

The materials are to be guaranteed for satisfactory performance for the period of 24 (twenty four) months from the date of supply and acceptance. Any defects arising within the guarantee period towards manufacturing and performance are to be liquidated forthwith, by replacement, if required. Manufacturer's Test Certificate & Guarantee Certificate are to accompany the supply.

11) Liquidated Damage (L.D.):

In the event of delay in delivery beyond contractual period, SWL shall have the right to recover Liquidated Damages @0.5% per week's delay or part thereof subject to a maximum of 5% of the order value shall be levied and recovered from the bidder.

12) Risk Purchase:

In case of delay/failure in delivery beyond the contractual period, SWL shall have the right to cancel the order and procure items from alternative source at Bidder's complete risk and cost.

13) Force Majeure:

Standard Force Majeure conditions at the seller's own workshops/establishment shall only be accepted. The failure of the Sub-contractors of the seller will not be accepted as the Force Majeure conditions. Force Majeure occurrence notice will have to be given within 7 days of Force Majeure for a possible delivery extension after verification.

14) Arbitration:

For disputes arising in executing and discharge of the contract from either side the Managing Director of SWL, HRBC Office Compound, Canteen Building, 1st floor, Munshi Premchand Sarani, Kolkata – 700 021 shall act as Arbitrator between the Seller & Buyer.

15) Court:

The contract is deemed to have been entered into Kolkata and all courses of action in relation to this contract will therefore be deemed to have arisen within the Jurisdiction of the Kolkata Courts.

16) Acceptance:

The bidder has to sign the NIeT document with official seal as a token of their acceptance of the terms and conditions and submit along with technical bid.

Seal and signature of the tenderer


General Manager, SWL



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SECTION – C BRIEF TECHNICAL REQUIREMENT

1.0 Steel Weather Tight Hatches – As per IS - 7048 : 2006, Coaming Plate thk. 8 mm

Size: 600 mm x 600 mm, Coaming Height – 600 mm

Quantity – 03 (three) Nos.

Complete in all respect as per enclosed Drg. SWL-RORO-21 (Sheet No. 1 of 2 & 2 of 2)

2.0 Steel Manholes with PAD – As per IS – 15876 : 2009

2.01) Size: 600 mm x 400 mm

Quantity – 18 (Eighteen) Nos.

2.02) Size: 450 mm x 350 mm

Quantity – 02 (Two) Nos.

Complete in all respect as per enclosed Drg. SWL-RORO-21 (Sheet No. 1 of 2 & 2 of 2)

3.0 BOLLARDS – As per IS - 4374:

3.01) Type – B1, B2, B5 & B6

Quantity – 01 (One) each and Total Qty. 04 (Four) Nos.

3.02) Type – B3 & B4

Quantity – 01 (One) each and Total Qty. 02 (Two) Nos.

Complete in all respect as per enclosed Drg. SWL-RORO-21 (Sheet No. 1 of 2 & 2 of 2)

4.0 Ramp Hinge and Hinge PIN:

Quantity – 10 (Ten) Sets

Complete in all respect as per enclosed Drg. SWL-RORO-23 (Sheet No. 1 of 1)

Note: Material of Hinge PIN: EN-9, Class – IV [Material Test Certificate for chemical, Physical to be provided from NABL accredited laboratory along with supply.

5.0 Steel Weather Tight RH Doors – As per IS Standard including Door Frame

5.01) Size: Clear opening – 1500 x 600 mm with 4 (four) clips

Quantity. 01 (one) No.

5.02) Size: Clear opening – 1700 x 600 mm with 3 (three) clips

Quantity. 01 (one) No.

Complete in all respect as per enclosed Drg. SWL-RORO-22 (Sheet No. 1 of 1)



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Date: 02/09/2023

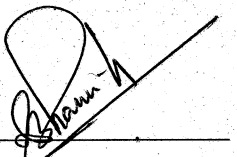
Notes:

1. M.S. Materials should be weldable conforming to IS:2062, Gr-B and Material Test Certificates are to be provided from NABL Accredited Laboratory along with supply. While manufacturing, IS standards are to follow properly.
2. All the items are to be marine duty type and complete in all respect for installation on board the vessels. In case there is any mismatch found in the materials at the time of installation, the items are to be rectified/replaced forthwith free of charges.
3. Manufacturer's Test Certificate and Guarantee Certificate are to be submitted along with delivery documents.
4. Material/components to be used should be of sound quality and of reputed maker enabled to withstand life time of the vessels for 20 (Twenty) years minimum.
5. All items (except Hinge PIN) to be painted after proper cleaning.

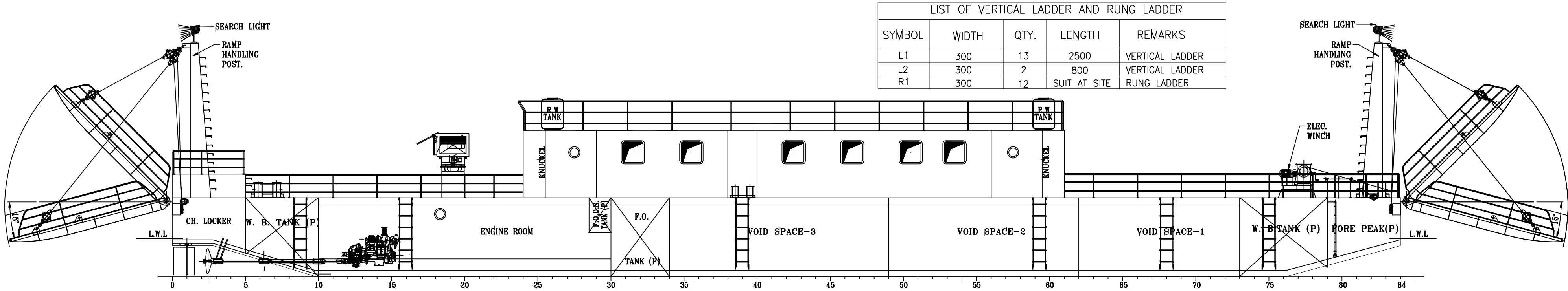
Drawings (Enclosed):

- i) Drg. No. SWL-RORO-21 (Sheet No. 1 of 2 & 2 of 2)
- ii) Drg. No. SWL-RORO-22 (Sheet No. 1 of 1)
- iii) Drg. No. SWL-RORO-23 (Sheet No. 1 of 1)

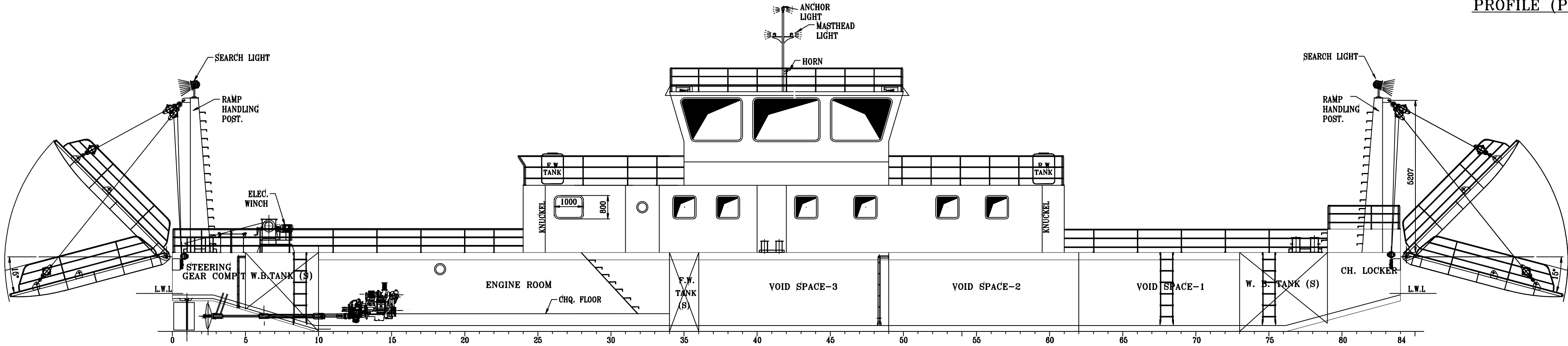
Seal and signature of the tenderer


General Manager, SWL

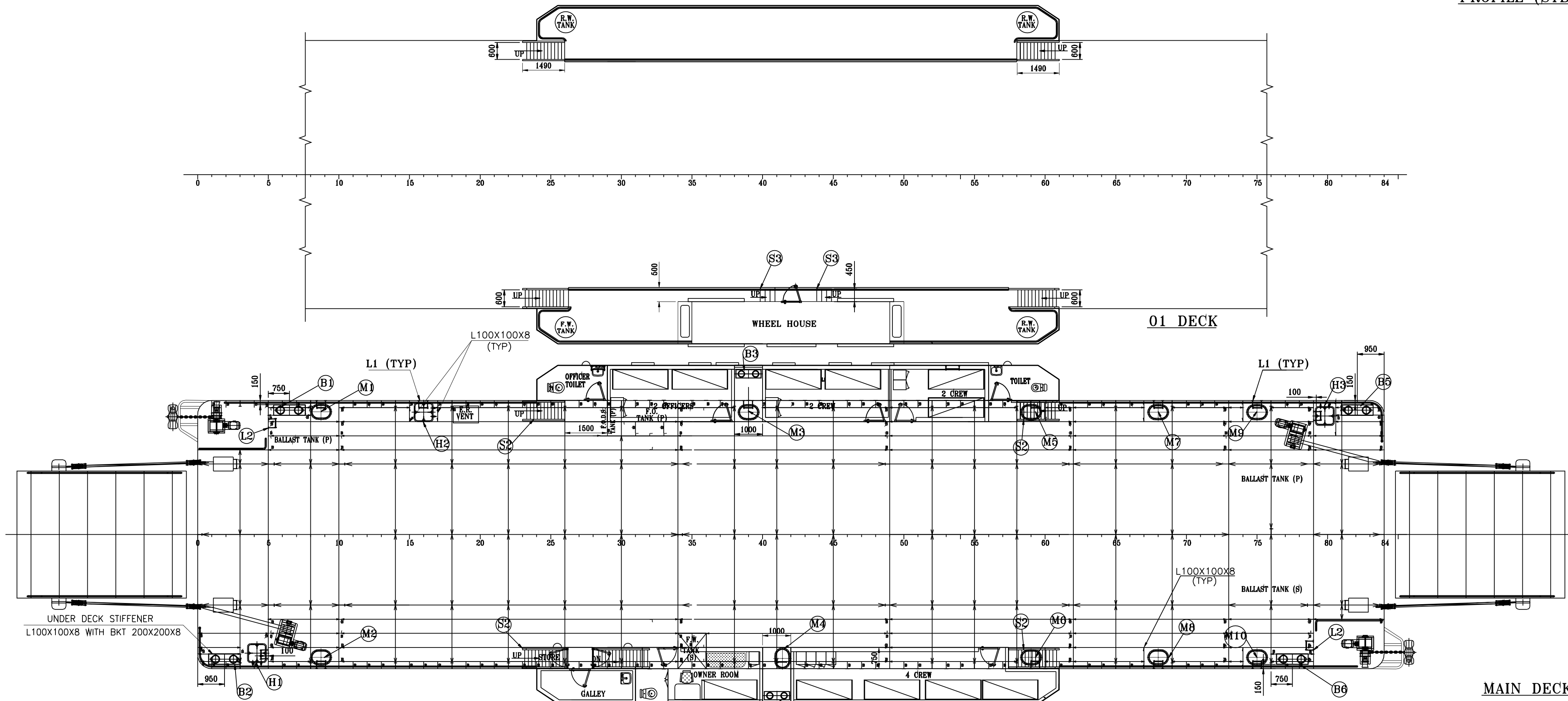
LIST OF VERTICAL LADDER AND RUNG LADDER				
SYMBOL	WIDTH	QTY.	LENGTH	REMARKS
L1	300	13	2500	VERTICAL LADDER
L2	300	2	800	VERTICAL LADDER
R1	300	12	SUIT AT SITE	RUNG LADDER



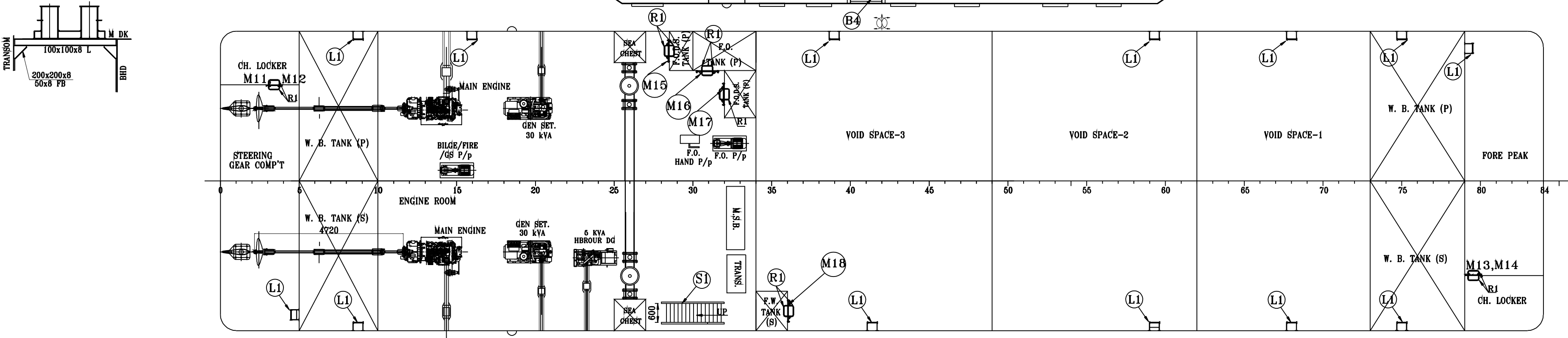
PROFILE (PORT)



PROFILE (STBD)



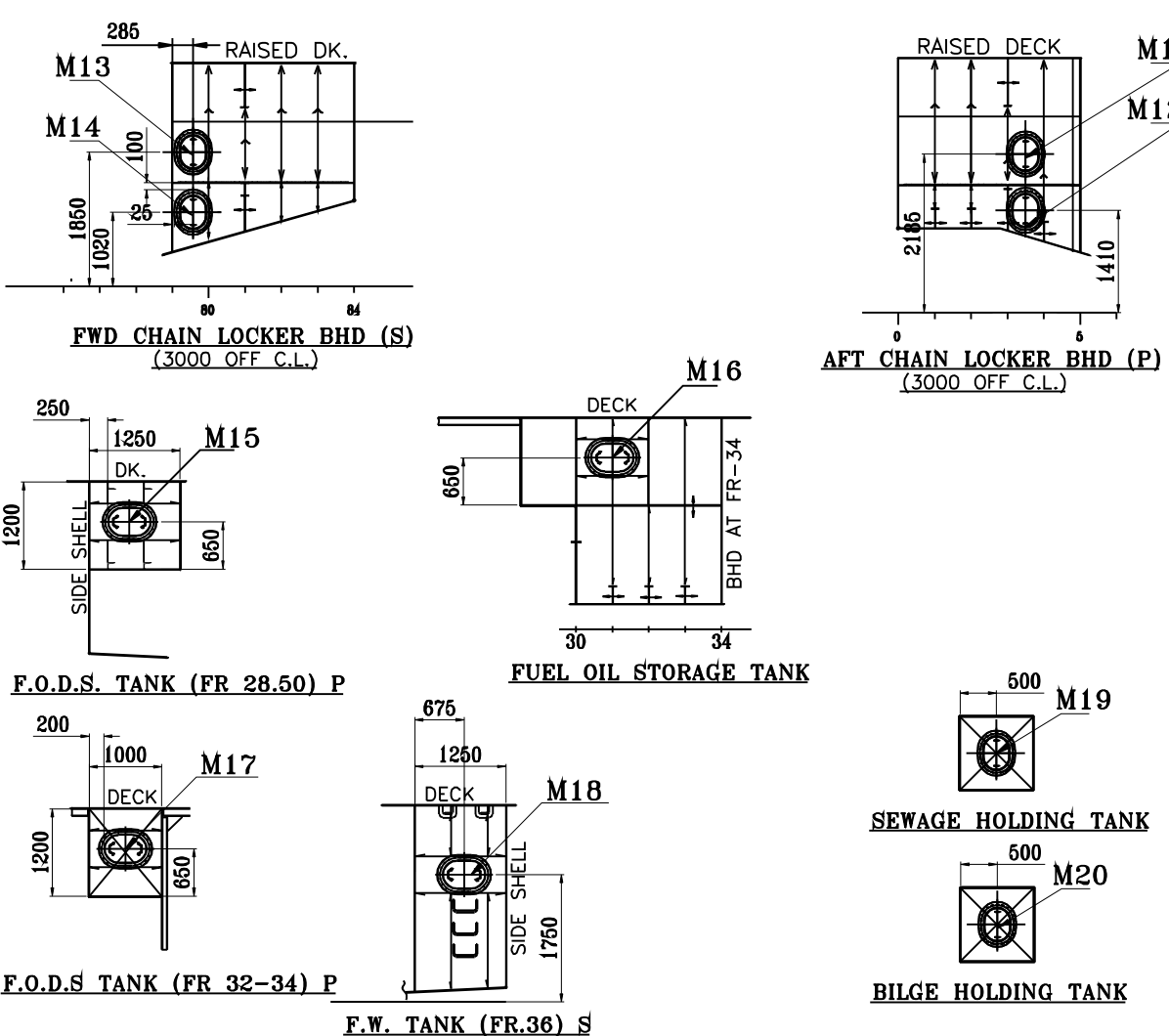
MAIN DECK



NOTE:

- MANHOLE LOCATIONS SHOWN ARE PRELIMINARY. EXACT LOCATION TO BE FINALISED AT SITE.
- SUITABLE STIFFENING TO BE PROVIDED WHERE MANHOLE, HATCH OPENINGS CUT STRUCTURAL MEMBERS.

BELOW MAIN DECK



LIST OF STAIRS AS PER NATIONAL STANDARD

SL.No.	LOCATION	QTY.	WIDTH	ACCESS TO-	STAIR OPENING SIZE	REMARKS
S1	ENGINE ROOM	1	600	MAIN DECK.	2050x700	HANDRAIL TO BE PROVIDED.
S2	MAIN DECK OPEN LADDER.	4	600	01 DECK.	----	
S3	01 DECK OPEN LADDER.	2	450	WHEEL HOUSE.	----	

LIST OF STEEL WEATHER TIGHT HATCHES (AS PER IS-7048:2006)
COAMING PL. THK. 8 mm

SL.NO.	LOCATION	ACCESS TO	CLEAR SIZE (mm)	QTY.	COAMING HEIGHT (mm)	OFF C.L. DISTANCE (mm)	REMARKS
H1	MAIN DECK FR 3-5 (S)	STEERING GEAR COMPARTMENT.	600x600	1	600	4200	OUT SIDE OPERABLE
H2	MAIN DECK FR 15-17 (P)	ENGINE ROOM EMERGENCY ESCAPE.	600x600	1	600	4335	BOTH SIDE OPERABLE
H3	MAIN DECK FR 79-81 (P)	FORE PEAK COMPARTMENT.	600x600	1	600	4200	OUT SIDE OPERABLE

LIST OF MANHOLES (AS PER IS-15876:2009)

SL.No.	TYPE	LOCATION	FRAME NO.	QTY.	CLEAR SIZE	OFF CL/ABL DISTANCE	ACCESS TO
M1	WATER TIGHT WITH PAD	MAIN DECK	FR 8-10 (P)	1	600x400	4350 MM.(P)	M. DK. TO AFT WATER BALLAST TANK (P)
M2	WATER TIGHT WITH PAD	MAIN DECK	FR 8-10 (S)	1	600x400	4350 MM.(S)	M. DK. TO AFT WATER BALLAST TANK (S)
M3	WATER TIGHT WITH PAD	MAIN DECK	FR 38-40 (P)	1	600x400	4350 MM.(P)	MAIN DECK TO VOID SPACE-3
M4	WATER TIGHT WITH PAD	MAIN DECK	FR 40-42 (S)	1	600x400	4350 MM.(S)	MAIN DECK TO VOID SPACE-3
M5	WATER TIGHT WITH PAD	MAIN DECK	FR 58-60 (P)	1	600x400	4350 MM.(P)	MAIN DECK TO VOID SPACE-2
M6	WATER TIGHT WITH PAD	MAIN DECK	FR 58-60 (S)	1	600x400	4350 MM.(S)	MAIN DECK TO VOID SPACE-2
M7	WATER TIGHT WITH PAD	MAIN DECK	FR 67-69 (P)	1	600x400	4350 MM.(P)	MAIN DECK TO VOID SPACE-1
M8	WATER TIGHT WITH PAD	MAIN DECK	FR 67-69 (S)	1	600x400	4350 MM.(S)	MAIN DECK TO VOID SPACE-1
M9	WATER TIGHT WITH PAD	MAIN DECK	FR 74-76 (P)	1	600x400	4350 MM.(P)	M. DK. TO FWD WATER BALLAST TANK (P)
M10	WATER TIGHT WITH PAD	MAIN DECK	FR 74-76 (S)	1	600x400	4350 MM.(S)	M. DK. TO FWD WATER BALLAST TANK (S)
M11	WATER TIGHT WITH PAD	CHAIN LOCKER	FR 03-04 (P)	1	450x350	2185 MM.(P) (ABL)	STEERING GR. TO AFT CHAIN LOCKER (P)
M12	WATER TIGHT WITH PAD	CHAIN LOCKER	FR 03-04 (P)	1	450x350	1410 MM.(P) (ABL)	STEERING GR. TO AFT CHAIN LOCKER (P)
M13	WATER TIGHT WITH PAD	CHAIN LOCKER	FR 79-80 (S)	1	450x350	1850 MM.(S) (ABL)	FORE PEAK TO FWD CHAIN LOCKER (S)
M14	WATER TIGHT WITH PAD	CHAIN LOCKER	FR 79-80 (S)	1	450x350	1020 MM.(S) (ABL)	FORE PEAK TO FWD CHAIN LOCKER (S)
M15	OIL TIGHT WITH PAD	F.O.D.S. TK	FR 28.50 (P)	1	600x400	2150 MM.(P) (ABL)	ENGINE ROOM TO FODS TANK (P)
M16	OIL TIGHT WITH PAD	F.O. STORAGE TK	FR 30-32 (P)	1	600x400	2150 MM.(P) (ABL)	ENGINE ROOM TO FO STORAGE TANK (P)
M17	OIL TIGHT WITH PAD	F.O.D.S. TK	FR 32-34 (P)	1	600x400	2150 MM.(P) (ABL)	ENGINE ROOM TO FODS TANK (P)
M18	WATER TIGHT WITH PAD	F.W. TK	FR 36 (S)	1	600x400	1750 MM.(S) (ABL)	ENGINE ROOM TO FRESH WATER TANK (S)
M19	WATER TIGHT WITH PAD	ENGINE ROOM	FR 30-32 (P)	1	450x350	500 MM.(P)	ENGINE ROOM TO SEWAGE HOLDING TANK
M20	WATER TIGHT WITH PAD	ENGINE ROOM	FR 30-32 (S)	1	450x350	500 MM.(S)	ENGINE ROOM TO BILGE HOLDING TANK

LIST OF BOLLARDS (AS PER IS 4374)

SL.NO.	ITEM NO.	DESCRIPTION	LOCATION	QTY.	CAPACITY
1	B1	BOLLARD 250 NB (AS PER IS 4374)	MAIN DK (P) FR-5 TO 8	1 NOS.	SWL-12T.(MAX LOAD)
2	B2	BOLLARD 250 NB (AS PER IS 4374)	MAIN DK (S) FR-5 TO 8	1 NOS.	SWL-12T.(MAX LOAD)
3	B3	BOLLARD 200 NB (AS PER IS 4374)	MAIN DK (P) FR-38 TO 40	1 NOS.	SWL-8 T.(MAX LOAD)
4	B4	BOLLARD 200 NB (AS PER IS 4374)	MAIN DK (S) FR-40 TO 42	1 NOS.	SWL-8 T.(MAX LOAD)
5	B5	BOLLARD 250 NB (AS PER IS 4374)	MAIN DK (P) FR-81 TO 84	1 NOS.	SWL-12T.(MAX LOAD)
6	B6	BOLLARD 250 NB (AS PER IS 4374)	MAIN DK (P) FR-76 TO 79	1 NOS.	SWL-12T.(MAX LOAD)

DATE	REV.	DESCRIPTION	REMARK	SIGN
PROJECT: 42 M RORO VESSEL				
OWNER: WBTCCL				
BUILDER: THE SHALIMAR WORKS (1980) LTD.				
CONSULTANT : MARINE PROUKTI				
TITLE: HATCH, MANHOLE ,BOLLARD & LADDER DETAILS				
DRAWN	G. G.	SIZE	A1	YARD NO.
CHKD.	S. B.	SCALE	1:100	804
APPROVED		SHEET	10F2	DATE 21.07.23
		REV.		

MANHOLE DETAILS:

Top View Dimensions:
 Outer Diameter: 750
 Inner Diameter: 630
 Hole Pattern: 24 NOS. $\phi 20$ HOLE, 81 CL TO CL
 Hole Pitch Circle Diameter (PCD): 690
 Hole Pitch Circle Diameter (PCD): 490
 Hole Pitch Circle Diameter (PCD): 630
 Hole Pitch Circle Diameter (PCD): 430
 Hole Pitch Circle Diameter (PCD): 550

Section View Dimensions:
 COVER PLT THKNESS = DK PLT THKNESS
 60x20THK. PAD
 DECK PLT.
 600x400 CLEAR OPENING
 15

SECTION THROUGH MANHOLE

Top View Dimensions:
 Outer Diameter: 120
 Inner Diameter: 100
 Hole Pattern: 16 ϕ R/BAR
 Hole Pitch Circle Diameter (PCD): 100
 Hole Pitch Circle Diameter (PCD): 55
 Hole Pitch Circle Diameter (PCD): 10
 Hole Pitch Circle Diameter (PCD): 5V

Section View Dimensions:
 COVER PLT THKNESS = DK PLT THKNESS
 60x20THK. PAD
 DECK PLT.
 600x400 CLEAR OPENING
 15

HANDLE

MAT: - ALL M.S. TO IS 2062 GR B

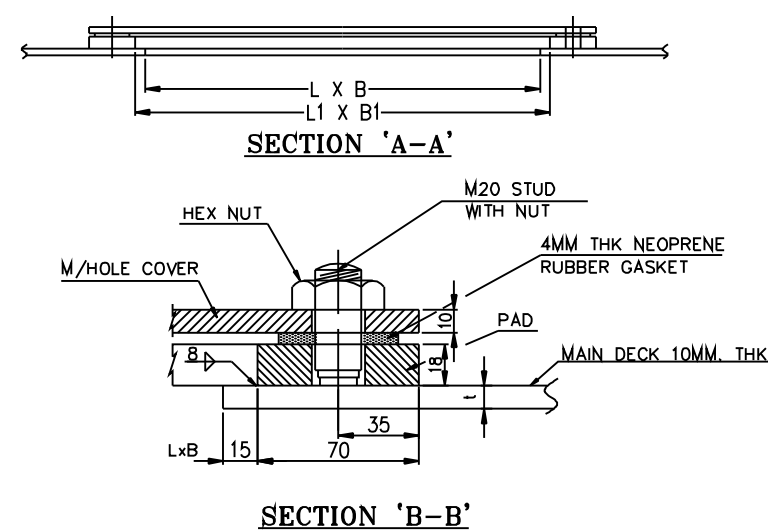
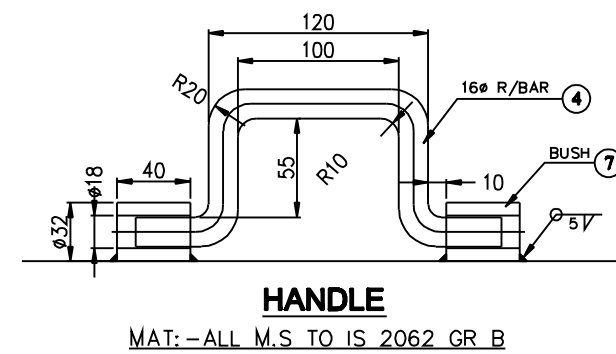
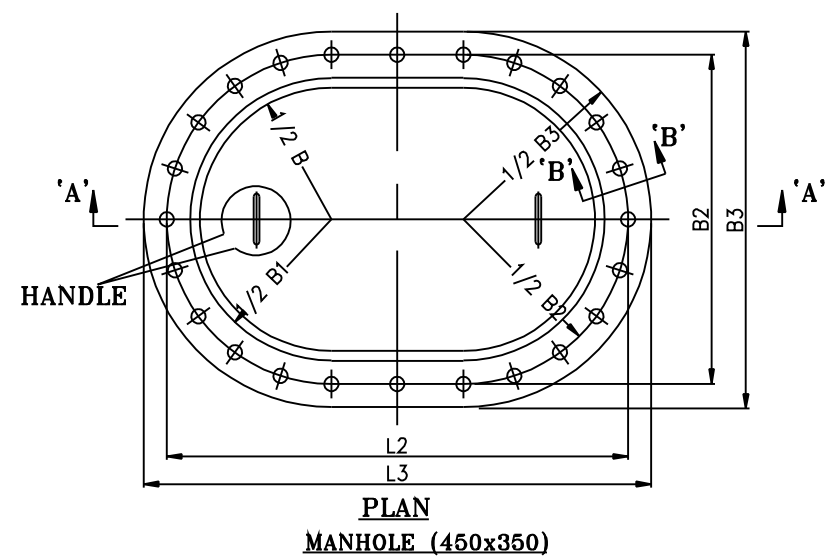
Top View Dimensions:
 Outer Diameter: 120
 Inner Diameter: 100
 Hole Pattern: 16 ϕ R/BAR
 Hole Pitch Circle Diameter (PCD): 100
 Hole Pitch Circle Diameter (PCD): 55
 Hole Pitch Circle Diameter (PCD): 10
 Hole Pitch Circle Diameter (PCD): 5V

Section View Dimensions:
 COVER PLT THKNESS = DK PLT THKNESS
 60x20THK. PAD
 DECK PLT.
 600x400 CLEAR OPENING
 15

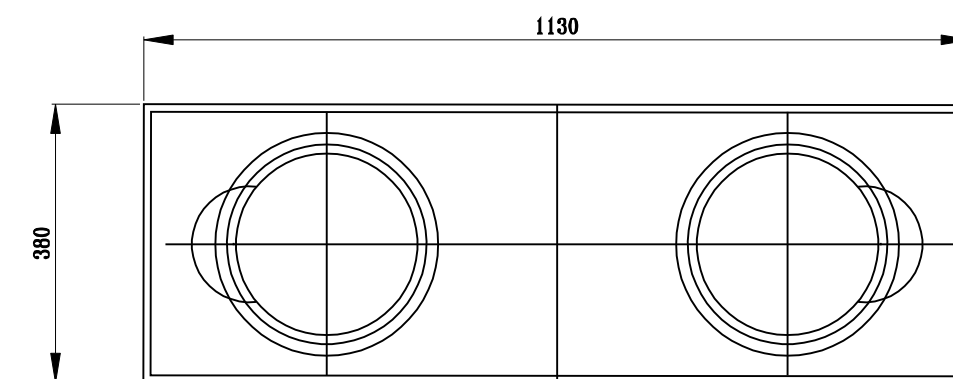
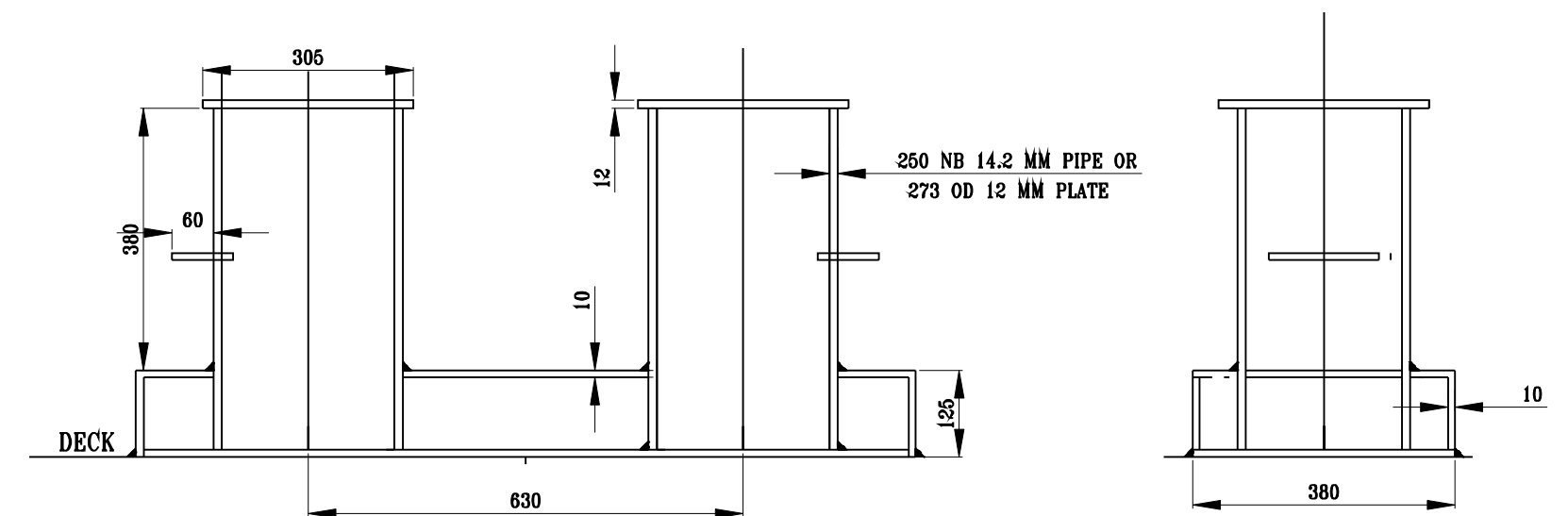
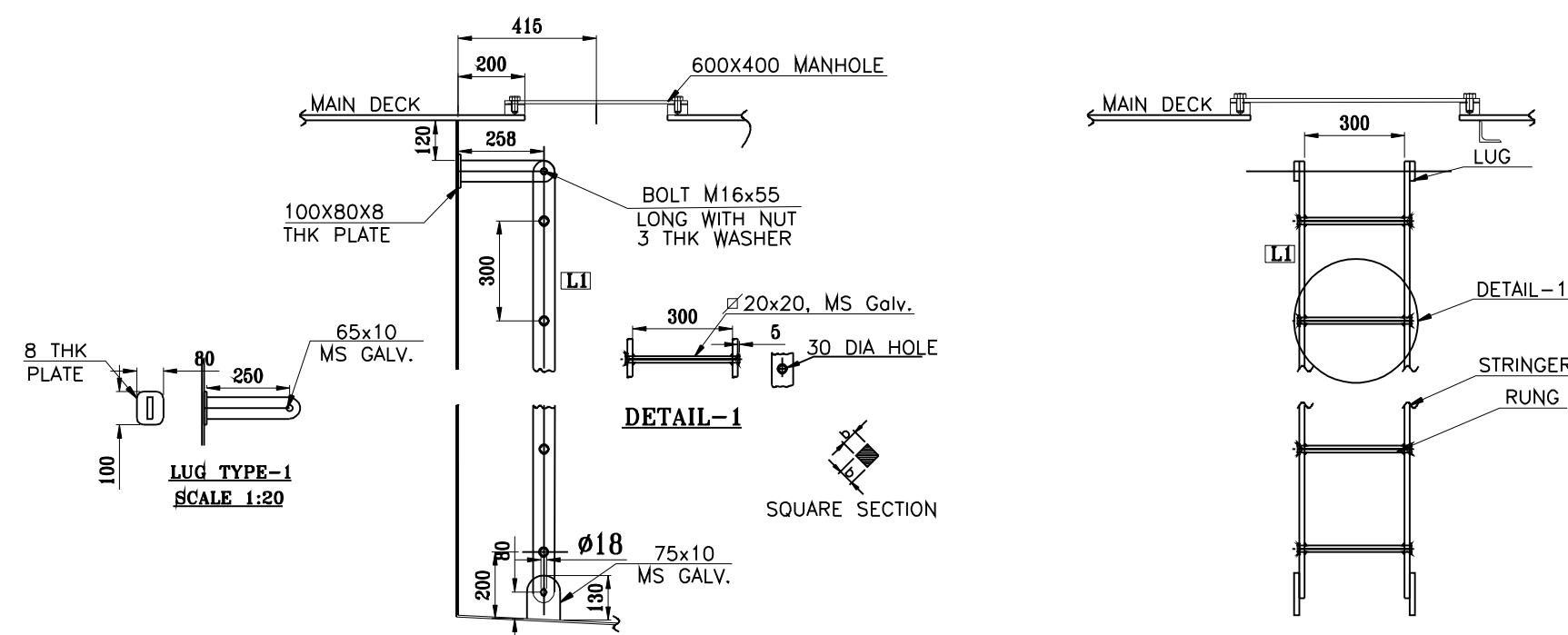
DETAIL OF 'Y'

BOLTING DETAIL

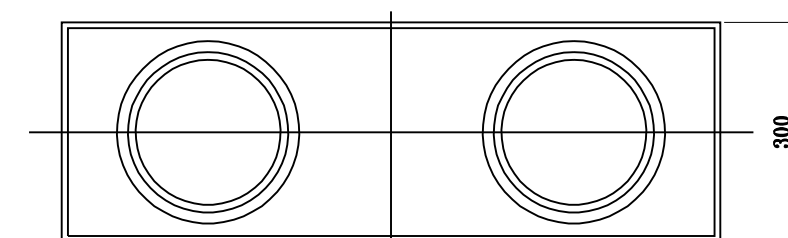
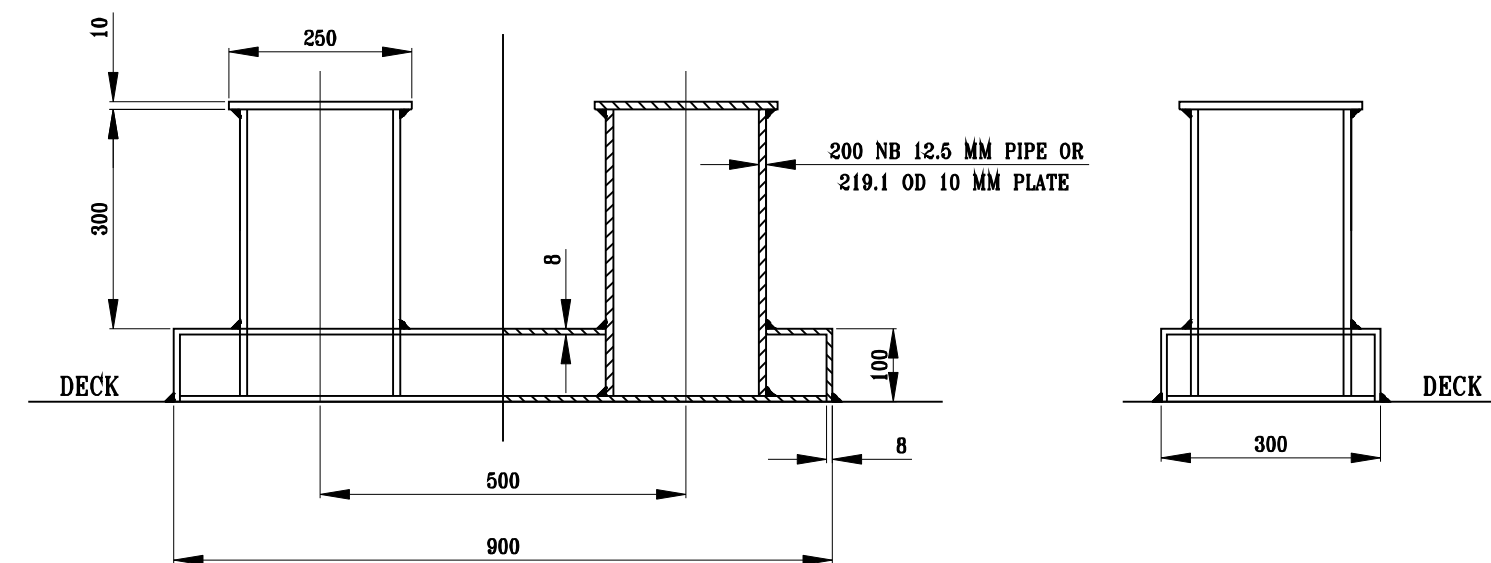
S.NO	ITEM	DIMENSION (IN MM)	MAT. SPEC.	QTY
1	MS PAD	60 x 20	MS	1
2	RUBBER JOINING	60 x 3	NEOPRENE RUBBER	1
3	MANHOLE COVER	750 x 550	MS	1
4	STUD	ø20, 50 LONG	MS GALV.	24
5	HEX. NUT	SUITABLE FOR ø20 STUD	MS GALV.	24
6	WASHER	SUITABLE FOR ø20 STUD	MS GALV.	24



MANHOLE DIMENSIONS										
Nominal size	Opening		Coaming		Cover				No. of bolts	Remarks
	L	B	L1	B1	L2	B2	L3	B3		
4535	450	350	480	380	550	450	620	520	24	

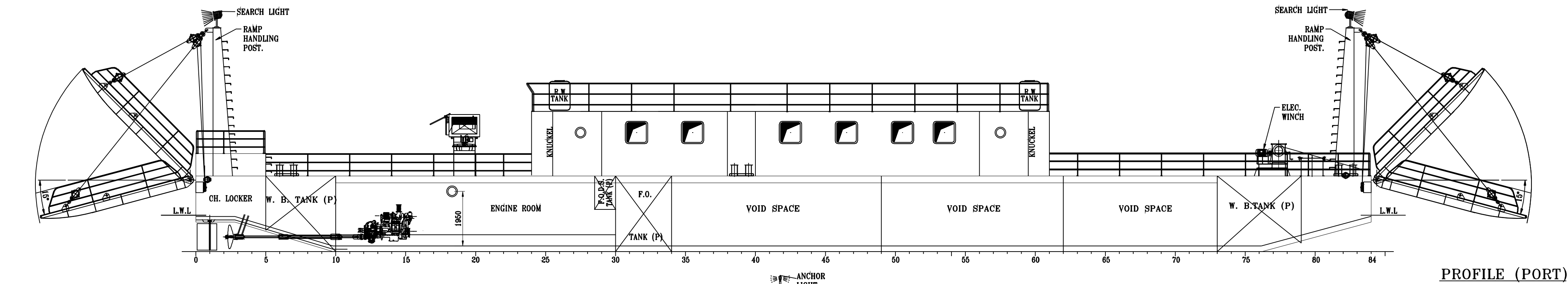


BOLLARD 250 NB (AS PER IS 4374) – TYPE-B1,B2,B5,B6
MAXIMUM WORKING LOAD OF SINGLE ROPE 12 TONNES
SCALE-1:10

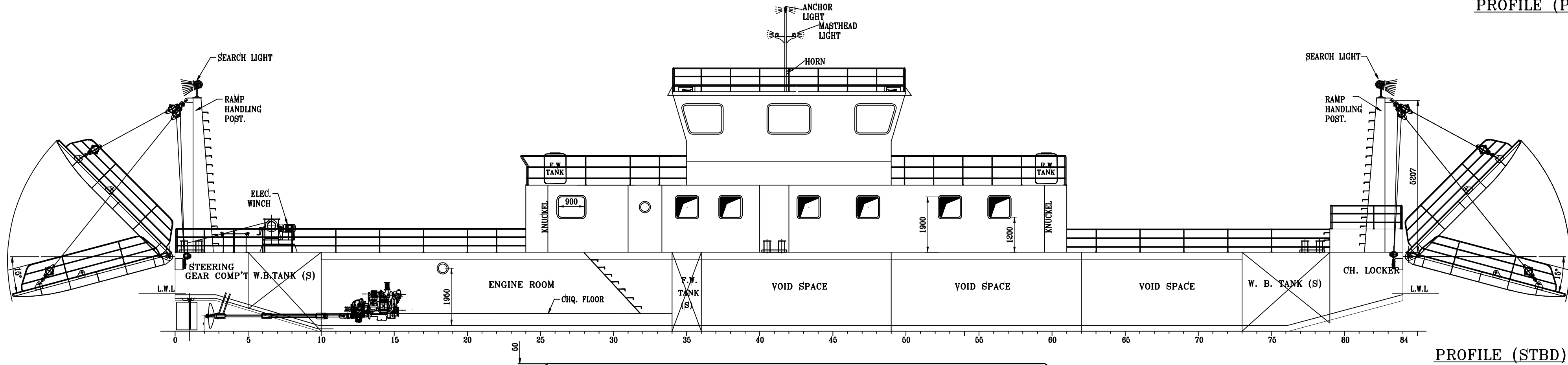


200 NB BOLLARD (AS PER IS 4374) – TYPE-B3,B4
MAXIMUM WORKING LOAD OF SINGLE ROPE 8 TONNES
SCALE-1:10

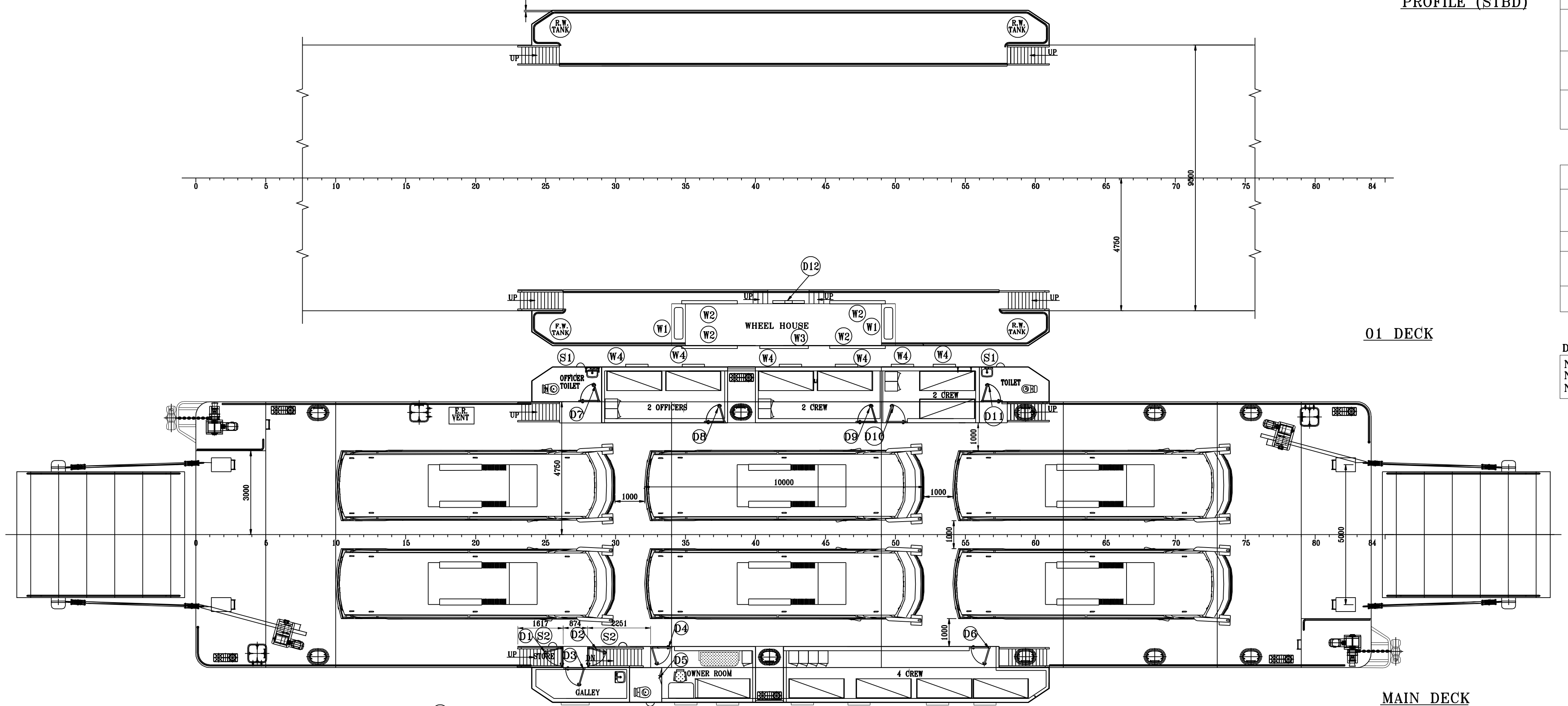
DATE	REV.	DESCRIPTION				REMARK	SIGN		
PROJECT: 42 M RORO VESSEL									
OWNER: WBTCL									
BUILDER : THE SHALIMAR WORKS (1980) LTD.									
CONSULTANT : MARINE PROJEKTI									
TITLE: HATCH, MANHOLE ,LADDER ,BOLLARD & STAIR									
DRAWN	G. G.	SIZE	A2	YARD NO.		DRAWING NO.			
CHKD.	S. B.	SCALE	1:100	804		SWL-RORO-21			
APPROVED		SHEET	20F2	DATE	21.07.23	REV.			



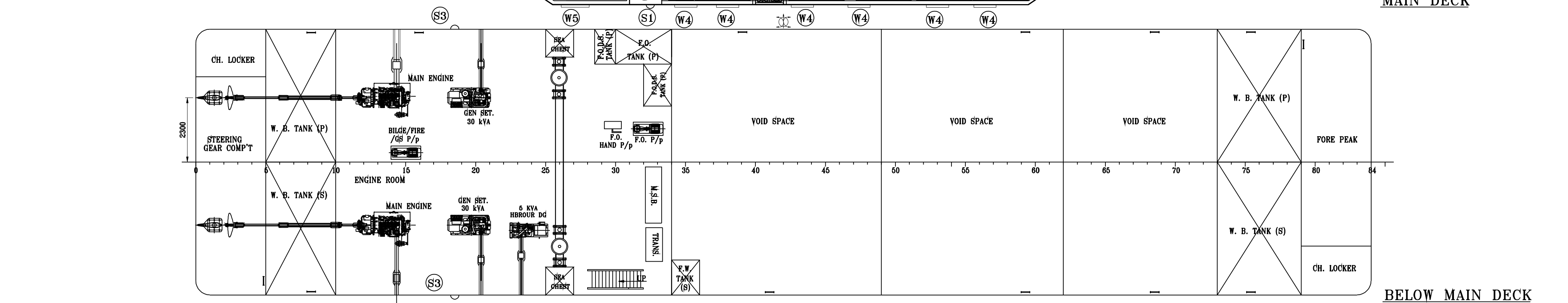
PROFILE (PORT)



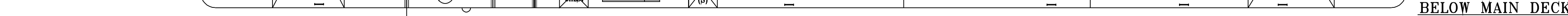
PROFILE (STBD)



01 DECK



MAIN DECK



BELOW MAIN DECK

LIST OF DOORS AS PER IS STANDARD

DOOR NO.	DESCRIPTION	QTY.	TYPE OF DOOR	NUMBER OF CLIP	SILL HT. (MM)	CLEAR OPENING	LEFT/RIGHT	REMARKS
D1	STORE ROOM	1	PVC	--	200	1700x800	1 L.H.	
D2	ENGINE ROOM ENTRANCE	1	STEEL WEATHERTIGHT	4	400	1500x600	1 R.H.	
D3	GALLEY ENTRANCE	1	STEEL WEATHERTIGHT	3	200	1700x800	1 R.H.	
D4	OWNER'S ROOM ENTRANCE	1	PVC	--	200	1700x800	1 L.H.	
D5	OWNER'S TOILET	1	PVC	--	200	1700x600	BOTH SIDE	
D6	4-CREW ROOM	1	PVC	--	200	1700x800	1 E.H.	
D7	OFFICER TOILET	1	PVC	--	200	1700x600	1 L.H.	
D8	2-OFFICER ROOM	1	PVC	--	200	1700x800	1 L.H.	
D9	2-CREW'S ROOM	1	PVC	--	200	1700x600	1 L.H.	
D10	2-CREW'S ROOM	1	PVC	--	200	1700x600	1 R.H.	
D11	8-CREW'S TOILET	1	PVC	--	200	1700x600	1 R.H.	
D12	WHEEL HOUSE ENTRANCE	1	SLIDING WOODEN	--	200	1700x800	--	

LIST OF WINDOWS AS PER INDIAN STANDARD

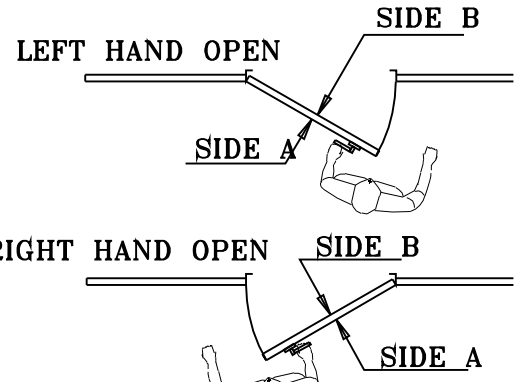
WINDOW No.	DESCRIPTION	LOCATION	TYPE	QTY.	BTM. HT. FROM DK (mm.)	CLEAR OPENING (mm.)	GLASS THK. (mm.)	REMARKS
W1	FIXED TYPE WINDOW WITH STRAIGHT LINE WIPER. (WIPER ONLY FOR FWD WINDOW)	WHEEL HOUSE	NF-W	2	1000 (From Cheq. Floor)	1100x950 Height	8	TOUGHENED GLASS
W2	TRAPEZOID FIXED TYPE WINDOW	WHEEL HOUSE	NF-W	4	1000 (From Cheq. Floor)	1100/1300x950 Ht.	6	TOUGHENED GLASS
W3	FIXED TYPE WINDOW	WHEEL HOUSE	NF-W	1	1000 (From Cheq. Floor)	1400x950 Ht.	6	TOUGHENED GLASS
W4	SLIDING WINDOW	01 DECK ACCOMM	--	12	1200	700x700 Height	5	--
W5	SLIDING WINDOW	01 DECK ACCOMM	--	1	1200	900x700 Height	5	--

LIST OF SCUTTLES AS PER INDIAN STANDARD

SCUTTLE No.	DESCRIPTION	LOCATION	TYPE	GLASS TYPE	QTY.	C.L. HT. FROM DK (mm.)	GLASS THK. (mm.)	CLEAR OPENING (mm.)
S1	FIXED SCUTTLE	MAIN DECK	N-PH-(F)	FROSTED	3	1550	8	ø 250
S2	FIXED SCUTTLE	MAIN DECK	N-PH-(F)	CLEAR GLASS	2	1550 1025 (FOR STORE)	8	ø 250
S3	FIXED SCUTTLE WITH DEAD LIGHT	ENG ROOM	N-PH-(F)	CLEAR GLASS	2	1950 (ABL)	10	ø 250

DENOTES:-
NF-W - NORMAL FIXED WINDOW
NH-W - NORMAL HINGED WINDOW
N-PH-(F) - NORMAL FIXED PORT HOLE

DETAILS OF DOOR CONVENTIONS:-



OPENING HAND DIRECTION: FOR THE OBSERVER, HINGES POSITION PULLING THE DOOR (SIDE A):
HINGES ON RIGHT = RIGHT HAND OPENING
HINGES ON LEFT = LEFT HAND OPENING

DATE	REV.	DESCRIPTION		REMARK	SIGN
PROJECT: 42 M RORO VESSEL					
OWNER: WBTCL					
BUILDER: THE SHALIMAR WORKS (1980) LTD.					
CONSULTANT : MARINE PROJUKTI					
TITLE: DOOR, WINDOW & SCUTTLE PLAN					
DRAWN	G. G.	SIZE	A1	YARD NO.	DRAWING NO.
CHKD.	S. B.	SCALE	1:100	804	SWL-RORO-22
APPROVED		SHEET	10F1	DATE	26.07.23
				REV.	

