

Dockyard and Engineering Works Ltd
Bangladesh Navy
Sonakanda, Narayanganj

Fax: +8802223303501
E-mail: commercial@dewbn.gov.bd
Website: www.dewbn.gov.bd

06.02.6758.165.07.193.25.2702

16 June 2025

Dear Sir

AMENDMENT OF TECHNICAL SPECIFICATION

References:

A. DEW Ltd Tender no: 06.02.6758.165.07.193.25.2468 Dated 14 May 2025.

1 The subject mentioned technical specification is amended as follows:

Clause No	For	Read	Remarks
Technical Specification Annex B of serial no: 10	Special (Set On) Flange (Galvanized) Pressure rating: PN 6 Size/ Dimension: DN 50	Special (Set On) Flange (Galvanized) Pressure rating: PN 10 Size/ Dimension: DN 40	
Technical Specification Annex B of serial no: 11	Special (Set On) Flange (Galvanized) Pressure rating: PN 6	Special (Set On) Flange (Galvanized) Pressure rating: PN 10	
Technical Specification Annex B of serial no: 12	Special (Set On) Flange (Galvanized) Pressure rating: PN 6	Special (Set On) Flange (Galvanized) Pressure rating: PN 10	
Technical Specification Annex B of serial no: 13	Special (Set On) Flange (Galvanized) Size/ Dimension: DN 15	Special (Set On) Flange (Galvanized) Size/ Dimension: DN 25	
Technical Specification Annex B of serial no: 32	MARPOL Flange Size/ Dimension: DN 50 Quantity: 5 Nos	MARPOL Flange a. Size/ Dimension: DN 50 Quantity: 3 Nos b. Size/ Dimension: DN 40 Quantity: 2 Nos	Drawing attached

2. Forwarded for information and necessary action please.

With regards


MOSTOFA KAMAL
Commander BN
For Managing Director

Enclosures:

- A. Oily Water & Sludge System Rev-00 - 01 page
B. Sanitary Discharge System Rev-01 - 01 page

Distribution:

External:

Action:

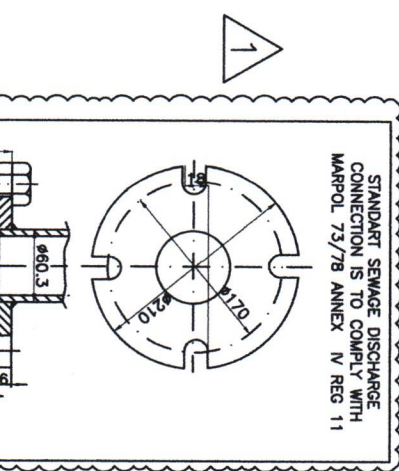
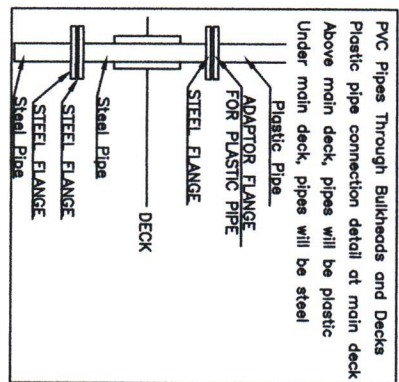
All concern suppliers

Internal:

GM (P&D), DEW Ltd

Maximum discharge rate calculation
The maximum permissible discharge rate is
1/20000 of swept volume as follows:
Dmaw=0.00926xVDB
Dmaw is maximum permissible rate (m³/h)
V is ship's average speed (knots) over the
period
D is maximum summer draft (m)
V=9knots D=1.8m B=15m Dmaw=2.25m³/h

Maximum discharge rate calculation
The maximum permissible discharge rate is 1/200000 of swept volume as follows:
Dmax=0.00926xVxDb
V is ship's average speed (knots) over the period
D is maximum summer draft (m)
V=9knots D=1.8m B=15m Dmax=2.25m³/h



- This drawing is schematic only
- Pipe class: Class III
- Design pressure is 4 bar
- Test pressure is 6 bar
- All pipes are not galvanized after fabrication
- Fire integrity of the decks and bulkheads are to be preserved.
- 30mm bore diameter orifice. Reduces $4m^3/h$ flow rate to $1.316m^3/h$
- As voyage miles and sewage holding tanks capacity is adequate, no sewage treatment unit is installed on board.
- For tank locations details please see dwg no: R-07
- For air vent/sounding details please see dwg no: P-05
- Accommodation piping material will be UPVC

DECK PENETRATION DETAIL
FOR STEEL PIPE

DN	d2	d1	S1	L	d3
50	60.3	88.9	8	60	91
100	114.3	139.7	11	100	142

Pos No.	DN	Material	Type	PN (bar)
23-01	DN50	GGG40	Non-return Stop Valve (Type Approved)	6
23-02	DN50	GG25	Gate Valve	6
23-03	DN50	GG25	Gate Valve	6
23-04	DN50	GG25	Non-return Stop Valve	6
23-05	DN50	GG25	Gate Valve	6
23-06	DN100	GG25	Gate Valve	6
23-07	DN50	GG25	Gate Valve	6
23-08	DN50	GG25	Ball Valve	6
23-09	DN50	GG25	Ball Valve	6
23-10	DN50	GG25	Ball Valve	6

Pipe Scentlings		
Nominal Diameter	Outer Dia. & Wall Thickness	Material
1"	DN25 3.3,4,3.2	Seamless Steel Pipe
1 1/2"	DN40 48.3,3,3.6	
2"	DN50 60.3,4,4.0	
4"	DN100 114.3,4,5	

These thicknesses are the minimum requirements of class rules.

Pipe Scentlings		
Nominal Diameter	Outer Dia. & Wall Thickness	Material
2"	DN50 60.3x3.91	UPVC
4"	DN100 114.3x6.02	

No	Designation	Type	Capacity
23-P-01	Sewage Pump	Gear	4 m ³ /h, 3 bar

Sewage tank capacity calculation:
Total Crew:25
Consume per day:0.3m³
No discharge period:3 days
Required Capacity:22.5m³
Actual Capacity:23.13m³

[illegible]

TBN-SPCB-04

SANITARY DISCHARGE SYSTEM

	Design	Teciman TOMBAK	Shipyard	Class	BV / 4846-4F	Revision No	01
Drawn	İsmail Can YILMAZ	DockyardEngineering Work Ltd.	Hull No	NB 252	Page	1/1	
Control	Ahmet Burak KABASAKAL	Owner	Project No	SPCB-04	Issue Date	13.09.2024	
Approved		Bangladesh Navy	Drawing No	P-23	Scale	1/75	

Pipe Sizing		
Nominal Diameter	Outer Dia. & Wall Thickness	Material
1"	3.375 x .2	Sacrificial Steel Pipe
1 1/4"	4.25 x .6	
1 1/2"	4.875 x .6	

SLUDGE TANK CAPACITY CALCULATION
 MARPOL Annex 1 Reg 12
 $V = K_1 \times C \times D$
 $K = 0.005$
 $C = 6.977 \text{ m}^3 / \text{day}$
 $D = 30 \text{ days}$
 $V = 1.046 \text{ m}^3$
 Actual Capacity: 4 m^3

No	Designation	Type	Capacity
20-P-01	Blige Collection Pump	Gear Type	3 m ³ /h. 3bor
20-P-02	Sludge Transfer Pump	Gear Type	3 m ³ /h. 3bor

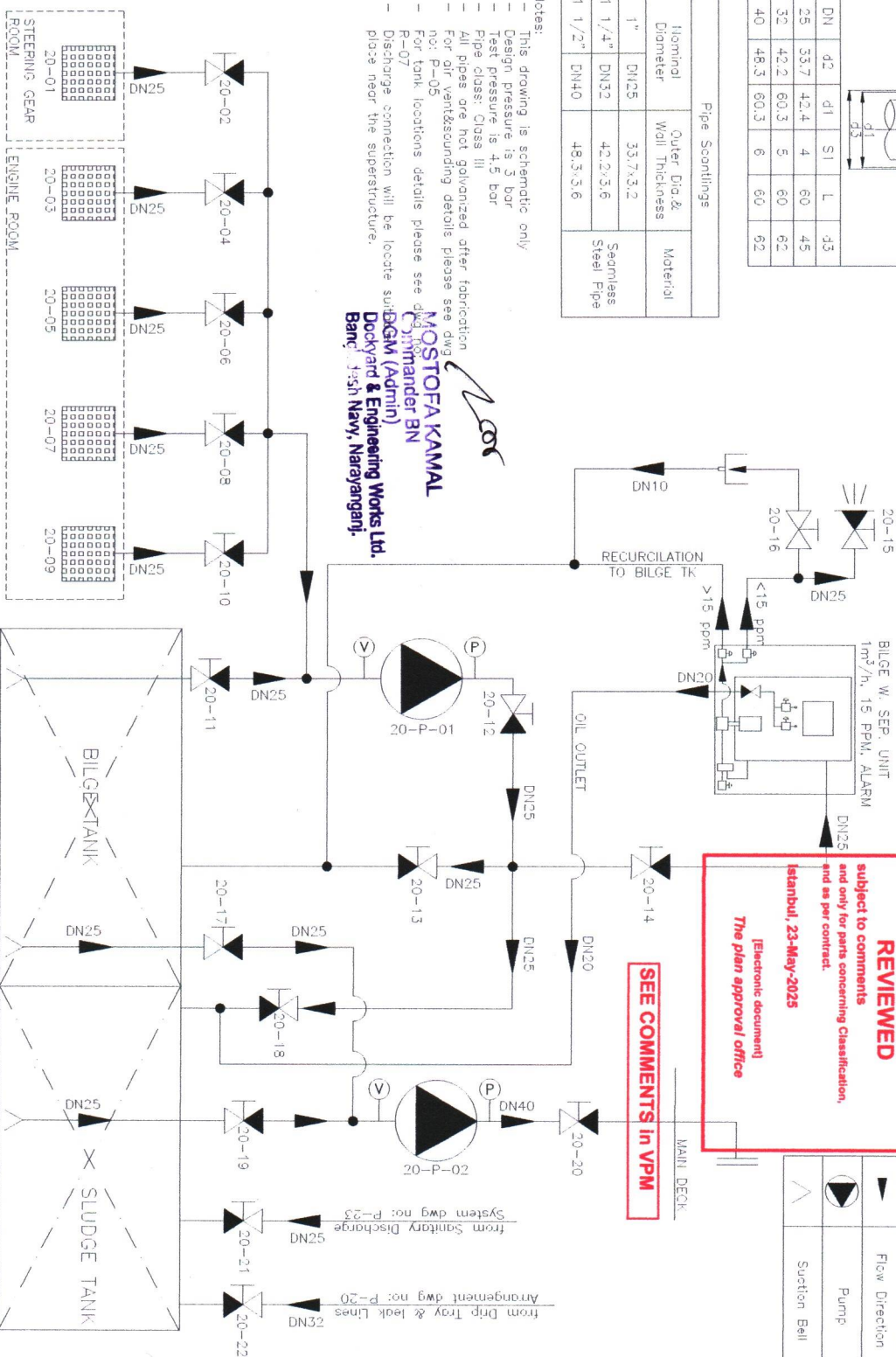
Symbol	Description
	Non Return Valve
	Stop Valve
	Strum Box
	Shore Connection
	Flow Direction
	Pump
	Suction Bell

Bureau Veritas Marine & Offshore
Section 48464F.....

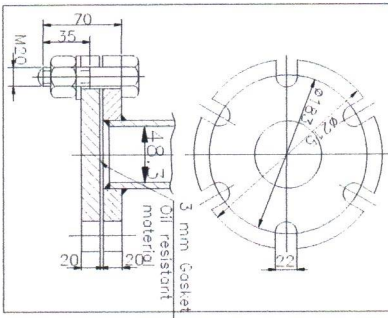
REVIEWED
subject to comments
and only for parts concerning Classification,
and as per contract.

Istanbul, 23-May-2025

[Electronic document]
The plan approval office



STANDARD DISCHARGE CONNECTION
COMPLY WITH MARPOL 73/78 ANNEX
REG.13



THIS DESIGN AND ITS COPYRIGHTS ARE PROPERTIES OF TEOMAN TOMBAK. THE DRAWINGS & SPECIFICATIONS CONTAINED HEREIN SHALL NOT BE REPRODUCED IN WHOLE OR IN PART, OR NOT TO BE GIVEN TO THIRD PARTIES WITHOUT WRITTEN PERMISSION FROM TEOMAN TOMBAK.

BU DİZAYN VE BUNUNLA İLGİLİ RESİMLERİN TEUFİ HAKKARI EDDMAN TOMBAK A AITTI. TEOMAN TOMBAK'IN YAZILI MÜSADESİ OLMADAN BU DOKÜMANI VEYA BUNUNU
BİR KİSMİ UÇURUCU SAHİSLARA VERİLEMEZ, TEKSİR VEYA KOPYA EDİLEMEZ VE HER NİE MAHSATLA OLURSA OLURU MAHSADI DİSHINDA KULLANILAMAZ



TBN-SPCB-04

Design	Teoman TOMBAK	Shipyard	Class	BV / 48464F	Revision No	00
Drawn	İsmail Can YILMAZ	Dockyard&Engineering Work Ltd.	Hull No	NB 252	Page	1/1
Control	Ahmet Burak KABASAKAL	Owner	Project No	SPCB-04	Issue Date	19.09.2024
Approved		Bangladesh Navy	Drawing No	P-20	Scale	1/50