



LIST OF PIPES (CARGO FILLING/DISCHARGE WORKING PRESSURE 3 BAR)

PIPE NO.	NB	O.D.	THK	MATERIAL	DESCRIPTION	REMARKS
CP01	100	114.3	6.02	HOPE	COMMON CARGO FILLING/DISCHARGE LINE FROM FILLING STATION (P) & (S)	
CP02	100	114.3	6.02	HOPE	CARGO FILLING FROM CP01 TO CARGO TANK (1P)	
CP03	100	114.3	6.02	HOPE	CARGO FILLING FROM CP01 TO CARGO TANK (1S)	
CP04	100	114.3	6.02	HOPE	CARGO FILLING FROM CP01 TO CARGO TANK (2P)	
CP05	100	114.3	6.02	HOPE	CARGO FILLING FROM CP01 TO CARGO TANK (2S)	
CP06	100	114.3	6.02	HOPE	COMMON DISCHARGE LINE FROM CARGO TANKS TO CARGO PUMPS SUCTION.	
CP07	100	114.3	6.02	HOPE	COMMON DISCHARGE LINE FROM CARGO PUMPS TO CP01.	
CP08	25	33.4	3.38	HOPE	DRAIN LINE FROM CARGO PUMPS DISCHARGE SIDE TO SUCTON SIDE.	
CP09	100	114.3	6.02	HOPE	CARGO SUCTION LINE FROM CARGO TANK (1P) TO COMMON SUCTION LINE CP06.	
CP10	100	114.3	6.02	HOPE	CARGO SUCTION LINE FROM CARGO TANK (1S) TO COMMON SUCTION LINE CP06.	
CP11	100	114.3	6.02	HOPE	CARGO SUCTION LINE FROM CARGO TANK (1P) TO COMMON SUCTION LINE CP06.	
CP12	100	114.3	6.02	HOPE	CARGO SUCTION LINE FROM CARGO TANK (1S) TO COMMON SUCTION LINE CP06.	
CP13	125	141.3	9.53	HOPE	AIR PIPE FROM CARGO TANK (1P).	
CP14	125	141.3	9.53	HOPE	AIR PIPE FROM CARGO TANK (1S).	
CP15	125	141.3	9.53	HOPE	AIR PIPE FROM CARGO TANK (2P).	
CP16	125	141.3	9.53	HOPE	AIR PIPE FROM CARGO TANK (2S).	

CARGO DETAILS:
 1) HYDROCHLORIC ACID, DENSITY - 1.155 T/OLM.
 1) PHOSPHORIC ACID, DENSITY - 1.68 T/OLM.

EQUIPMENT DETAILS:

S/NO	DESCRIPTION	CAPACITY	QTY	REMARKS
1.	CARGO PUMP	75 OULM @ 30ML	2	GLASS APPROVED PUMP FOR PHOSPHORIC ACID & HCL ACID SERVICE

VALVES AND FITTINGS (CARGO SYSTEM)

FTT/NO.	SYMBOL	QTY.	NB	MATERIAL	DESCRIPTION	REMARKS
CV01-01 TO CV01-07		07	100	HOPE	GATE VALVE	IS STANDARD
CV01-08 TO CV01-13		06	100	HOPE	GATE VALVE, EXTENDED HANDLE, OPERABLE FROM ABOVE MAIN DECK	IS STANDARD
CV02-01 TO CV02-02		2	100	HOPE	GATE VALVE	IS STANDARD
CV03-01 TO CV03-08		8	125	HOPE	HIGH VELOCITY PV VALVES (S015364)	IS STANDARD
CV04-01 TO CV04-02		2	100	S.S.	CAMLOCK COUPLING WITH GPE AND CHAIN	
CV05-01 TO CV05-06		6	10	S.S.	PEA COOK	
CV07-01 TO CV07-04		4	10	-	PRESSURE TRANSMITTER	
CV08-01 TO CV08-04		4	-	-	HIGH HIGH LEVEL ALARM	IS STANDARD
CV09-01 TO CV09-04		4	-	-	LEVEL ALARM HIGH	IS STANDARD
CV10-01 TO CV10-02		2	10	S.S.	RADAR GAUGE OR MAGNETIC GAUGE	IS STANDARD
CV11-01		1	25	HOPE	DRN VALVE (DRAIN COCK)	

- NOTES:**
- THICKNESS AS INDICATED IN THE LIST OF PIPES.
 - PIPING SYSTEM SHOWN ARE SCHEMATIC AND ROUTING OF PIPES TO BE AS PER MARINE PRACTICE, MEETING RULE REQUIREMENTS.
 - PIPING SYSTEM TO BE TESTED TO 1.5 TIMES THE MAXIMUM WORKING PRESSURE.
 - ALL FLANGES TO CONFORM TO DIN STANDARD FOR SUCTION AND PRESSURE LINES.
 - HIGH VELOCITY PV VALVE : PRESSURE RELIEF AT (0.1 BAR) & WACCON RELIEF AT (- 0.03 BAR)
 - CARGO PUMPS TO BE ABLE TO SHUT DOWN FROM WHEELHOUSE & FROM CARGO FILLING STATION.
 - EACH TANK TO HAVE TANK LEVEL GAUGING AND INTERDEPENDENT HIGH LEVEL AUDIO/VISUAL ALARM.
 - ALL ITEMS TO BE SUITABLE FOR INSTALLATION WITHIN HAZARDOUS ZONE.
 - FILLING LINES TO BE LEAD TO MINIMUM SUMM ABOVE THE BOTTOM OF THE TANKS.

FRAMING PARTICULARS

LENGTH OA : 37.00m
 BREADTH : 8.50m
 DEPTH : 2.75m
 DRAFT : 1.80m (Approx.)
 DEADWEIGHT : 300MT
 COMPLEMENT : 06 Nos.
 SPEED : 7 Knots.
 CLASSIFICATION : IRS
 CLASS NOTATION: 5H1L, ZONE 1, IY
 CHEMICAL CARRIER, FOR CARRIAGE OF HCL AND H3PO4
 FRAME SPACING : 600mm

CLIENT: KERALA SHIPPING AND INLAND NAVIGATION CORPORATION

BUILDER: KININC

VESSEL: 300 MT ACID BARGE FOR KININC

TITLE: CARGO PIPING SCHEMATIC

PROJECT NO.: P126 **DRAWING NO.:** S/M/P126/CP/101 **REV:** 02

SCALE: N.T.S

SHEET: 01

DATE: 07-10-2020 **ISSUED FOR:** R/S REVIEW/APPROVAL **REVISED AS PER OWNER:**

DATE: 05-10-2018 **ISSUED FOR:** R/S REVIEW/APPROVAL **INITIAL ISSUE:**

DATE: 04-10-2018 **INITIAL ISSUE:**

PROJECT NO.: P126 **DRAWING NO.:** S/M/P126/CP/101 **REV:** 02

SCALE: N.T.S

SHEET: 01

DATE: 07-10-2020 **ISSUED FOR:** R/S REVIEW/APPROVAL **REVISED AS PER OWNER:**

DATE: 05-10-2018 **ISSUED FOR:** R/S REVIEW/APPROVAL **INITIAL ISSUE:**

DATE: 04-10-2018 **INITIAL ISSUE:**

FRAMING PARTICULARS: The building, arrangement, plans and information contained or represented by this drawing are owned by and the property of KININC and its associates and were created, prepared and developed for use in connection with the specified project. None of such building, arrangement, plans and information shall be used by, or disclosed to any person, firm or organization for any purpose whatsoever without the written permission of KININC.



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CIN: U61100MH1975NPL018244

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Our ref: E-73187-152015

24-November-2020

Company : Summit Maritime Pvt Ltd.

Dear Sir/Madam,

Your document (detailed below) has been reviewed.

Project Details	
Project number	NC002044
Project name	Kerala Shipping & Inland Navigation Corpn. Ltd. - 030
Project Manager	Ankur Anal
Project In-Charge	Amit Waje

Document Details	
Plan No.	SM/P126/CP/101
Plan Title	Cargo Piping Drawing
Rev.No.	2
Upload.No.	2
Submitted Date	10-November-2020
Review Status	Approved
Parent Plan Title	

The plan has been examined for compliance with:

. IRS Rules

1. RULES AND REGULATIONS FOR THE CONSTRUCTION AND CLASSIFICATION OF INLAND WATERWAY SHIPS,
JANUARY 1997

2. IBC code and ADN standard.

Notes

1. The review status Approved indicates:

The scantlings and arrangements as shown in the stated plan would be approved provided the work is carried out to the Surveyors satisfaction and the Rules in all other respects are complied with.

Thanking you,
Yours Sincerely,

For INDIAN REGISTER OF SHIPPING

Devrup Kabi
Principal Surveyor

This is an electronically published document and does not require signature.

Our Ref: E-73187-152015

Review Comments			
Sr.No	Comment Date	Description	Clearing Responsibility
1	24-November-2020	Portion of the air/ vent pipe above the main deck is to be of steel.	Survey Station
2	10-January-2019	The position of vent outlets of a controlled tank venting system shall be arranged at a height of not less than 6 m above the weather deck as per IBC code guidelines.	Survey Station