



# Indian Register of Shipping

Port : MUMBAI

Date : 01/12/2014

Report No. : BOM14X858

This is to certify that at the request of M/s. Indigo metalloys (P) Ltd, Umergaon the undersigned surveyor to this Society attended their Works on 14.11.2014 & subsequently for the purpose of examination and testing of Copper pipes as described below manufactured against purchase order No- 145349 to 145354 Dt. 04.07.2014 of M/s Goa shipyard Ltd and intended for Yard No. 1218 to 1223.

**Description: Copper seamless pipes as per BS 2871 part2 C 106 ( Annealed condition)**

Material Description	Heat No.	P.O QTY for yard No. 1218 to 1223	Accepted QTY
P.O SR NO.1 Dia 8.0 x 1.0 mm thk , (3-5 M length)	B/R/4/42	234 M (39 M x 6 shipsets)	238.67 M / (66 Nos)
P.O SR NO.2 Dia 12.0 x 1.0 mm thk , (3-5 M length)	B/R/4/42	102 M (17 M x 6 shipset)	109.01 M / (30 Nos)
P.O SR NO.3 Dia 20.0 x 1.0 mm thk , (3-5 M length)	B/R/4/42	360 M (60 M x 6 shipset)	361.85 M/ (90 Nos)

Following inspection performed as per P.O Spec and found satisfactory

- 1) Visual and 10% dimensional insp.
- 2) Review of Mill Test certificate No. IMPL-1614 dated 07.11.2014. ( Make - Indigo metalloys (P) Ltd)
- 3) Review of physical testing and review of chemical report as per the sample drawn.
- 4) Review of calibration test certificate of the measuring instruments and pressure gauge.
- 5) Witnessed hydro test 10% of the quantity at random at 1000 PSI and review of test certificate for the balance quantity.

Identification-10% qty pipes are provided with double sticker and single sticker for balance qty are marked with ink as IRS 65 for identification purpose.



Harshad L. Arondkar

Surveyor(s) to Indian Register of Shipping

This Report is Reviewed by :

Nitin A Rane

This Certificate is issued upon the following terms and conditions as laid down in the Societys Regulations:-Whilst Indian Register of Shipping (hereinafter referred to as IRS) and its Committees use their best endeavors to ensure that the functions of IRS are properly carried out, in providing services, information or advice neither IRS nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither IRS nor any of its servants or agents (on behalf of each of whom IRS has agreed this clause) shall be liable for any loss damage or expense whatever sustained by any person due to any act or omission or error of whatsoever nature and however caused of IRS its servants or agents or due to any inaccuracy of whatsoever nature and howsoever caused in any information or advice given in any way whatsoever by or on behalf of IRS, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of IRS, or relies on any information or advice given by or on behalf of IRS and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of IRS its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of IRS then IRS will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by IRS for that particular service, information or advice.

Any notice of claim for loss, damage or expense as referred to above shall be made in writing to IRS Head Office within six months of the date when the service information or advice was first provided, failing which all the rights to any such claim shall be forfeited and IRS shall be relieved and discharged from all liabilities.



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This is to certify that at the request of M/s. Indigo metalloys (P) Ltd, Umergaon the undersigned surveyor to this Society attended their Works on 14.11.2014 & subsequently for the purpose of examination and testing of Copper fittings as described below manufactured against purchase order No- 145393 to 145398 Dt. 05.07.2014 of M/s Goa shipyard Ltd and intended for Yard No. 1218 to 1223

Description: Copper seamless butt welded fittings as per BS 2871 part2 C 106 in Annealed condition ( Std fittings)

Sr. No.	Item description	Heat No.	Accepted Quantity for yard no. 1218 to 1223
1	P.O SR NO.1 40 NB, 90 Deg copper elbow, Butt weld type, seamless, BS2871 part II C106 , R-1.5 D	B/R/4/43	126Nos (21 Nos x 6 shipsets)
2	P.O SR NO.2 65 NB, 90 Deg copper elbow, Butt weld type, seamless, BS2871 part II C106 , R-1.5 D	B/R/4/43	168 Nos (28 Nos x 6 shipsets)
3	P.O SR NO.3 57 OD x2 thick , 90 Deg copper elbow, Butt weld type, seamless, BS2871 part II C106 , R-1.5 D	B/R/4/43	168 Nos (28 Nos x 6 shipsets)
4	P.O SR NO.4 15 NB equal tee, Copper BS 2871 part -II Butt weld type , seamless	B/R/4/43	336 Nos (56 Nos x 6 shipsets)
5	P.O SR NO.5 20 NB x 1.5 mm thick equal tee, Copper BS 2871 part -II Butt weld type , seamless	B/R/4/43	42 Nos (07 Nos x 6 shipsets)
6	P.O SR NO.6 25 NB x 1.5 mm thick equal tee, Copper BS 2871 part -II Butt weld type , seamless	B/R/4/43	84 Nos (14 Nos x 6 shipsets)
7	P.O SR NO.7 Copper reducer 32 mm x 1.5mm thick to 15 mm x 1.0 mm thick	B/R/4/43	12 Nos (02 Nos x 6 shipsets)

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**Report No. :** BOM14X859

Following inspection performed as per P.O Spec and found satisfactory

- 1) Visual and 10% dimensional insp.
- 2) Review of Mill Test certificate No. IMPL-1615 dated 07.11.2014. ( Make - Indigo metalloys (P) Ltd)
- 3) Review of chemical properties as per sample drawn per heat .
- 4) Review of calibration test certificate of measuring instruments

Identification: 10% qty fititngs are provided with double sticker and single sticker for balance qty are marked with ink as IRS 65 for identification purpose.



**Harshad L. Arondkar**

**Surveyor(s) to Indian Register of Shipping**

**This Report is Reviewed by :**

**Nitin A Rane**