

**MATERIAL TEST CERTIFICATE**

(As per Indian Boiler Regulation 169)

CERTIFICATE NO.:	KSL-5152/13-14	CUSTOMER: M/S SARA SEA PRIVATE LIMITED JALANDHAR (PUNJAB)
DATE:	16.12.2013	
HEAT NO.:	D 3202	
SPECIFICATION:	AISI 316	P.O NO. & DATE: PO4876 DT:- 14.10.2013
INVOICE NO. & DATE:	578 Dt 16.12.2013	

SL. NO.	ITEM DESCRIPTION	QTY.
1	Round Dia 56 MM	94
	Grade Color Code: Pink	

CHEMICAL COMPOSITION

PERCENT	REQD. MIN.	REQD. MAX	ACTUAL VALUE
C		0.08	0.058 ✓
Mn		2.00	1.20 ✓
Si		1.00	0.46 ✓
P		0.045	0.024 /
S		0.030	0.015 /
Cr	16.00	18.00	16.72 /
Ni	10.00	14.00	10.13 /
Mo	2.00	3.00	2.10 /
V			0.02 ✓
Ti			0.018 ✓
Cu			0.27 ✓
Al			0.009 ✓

Remarks:

- 1) Steel melting process: Electric furnace-Argon purged ladle bottom poured "under inert atmosphere"
- 2) Steel is fully killed with Al/Si alloys and is made to fine grain practice.
- 3) Surface quality of ingot is acceptable and free from harmful defect.
- 4) No mercury / Lead added during steel melting process.

We have satisfied ourselves that steel melting has been done and tested in accordance with the requirement of Indian Boiler Regulation, 1950. We further certify that the particulars entered herein are correct

Approval Certificate No-130, dt 4th June, 2012 as "Well-Known Steel Maker"

Valid up to 1st March 2017

Authorized Signatory

[Signature]
31/1/14

