



# M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

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|                                                                                                                                            |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Customer : M/s Sara Sae Pvt. Ltd. UNIT - II<br>A-2, Sara Industrial Estate Ltd<br>Chakrata Road, Rampur<br>Dehradun - 248197 - Uttarakhand | T.C. No. : M- 1459                     |
|                                                                                                                                            | Dated : 20.01.2014                     |
|                                                                                                                                            | Heat No. : 1559/ A- 09/2014            |
|                                                                                                                                            | Date : 09.01.2014                      |
| P.O. No. : ..... Dated 20.12.2013                                                                                                          | Surface : Proof Machine                |
| Specification : INC 625                                                                                                                    | Foundry identification : MD            |
|                                                                                                                                            | Casting Processed by Induction melting |

Heat Treatment : Solution Annealed at 1170 °C, 3 Hours Soaking and water quenched.

## CHEMICAL COMPOSITION %

| Element | C     | Si    | Mn    | Cr    | Ni    | Mo    | S     | Al    | Nb+Ta | Ti    | P     | Co    | Fe   |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Minimum | -     | -     | -     | 20.00 | 58.00 | 8.00  | -     | -     | 3.150 | -     | -     | -     | -    |
| Maximum | 0.100 | 0.500 | 0.500 | 23.00 | -     | 10.00 | 0.015 | 0.400 | 4.150 | 0.40  | 0.015 | 0.10  | 5    |
| Actual  | 0.026 | 0.460 | 0.043 | 21.70 | 61.80 | 8.750 | 0.004 | 0.005 | 3.920 | 0.002 | 0.006 | 0.040 | 2.86 |

## MECHANICAL PROPERTIES

|        | Y.S | UTS | EL%      | Reduct | Charpy At ambient | Bend Tes | Hardness |  |  |  |  |  |  |
|--------|-----|-----|----------|--------|-------------------|----------|----------|--|--|--|--|--|--|
|        | Mpa | Mpa | GI= 50mm | Area % | Ambient temp.     |          | BHN      |  |  |  |  |  |  |
| Min    | -   | -   | -        | -      | -                 | -        | -        |  |  |  |  |  |  |
| Max.   | -   | -   | -        | -      | -                 | -        | -        |  |  |  |  |  |  |
| Actual |     |     |          |        |                   |          |          |  |  |  |  |  |  |

| S. No. | Description                                                                           | Item & Code | Qty.    |
|--------|---------------------------------------------------------------------------------------|-------------|---------|
| 1      | Centrifugally Casted Rings<br>Proof Machined Size<br>OD 601 mm X ID 567 mm X H- 23 mm | R- 73       | 05 Nos. |

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

*Gopal Gass*

Checked by

Approved by.

for M. D. Steels Pvt. Ltd.



Quality Control

**M. D. STEELS (P) LTD.**

F-669, Phase-II, Indl. Area

BHIWADI - 301 019.

☎ : 01493 - 222483, 512079