



# 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- 1457                     |
|                                                                                                                                            | Dated : 20.01.2014                     |
|                                                                                                                                            | Heat No. : 1557/ 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<sup>0</sup> 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  | 0.042 | 0.430 | 0.032 | 21.10 | 63.90 | 8.400 | 0.004 | 0.005 | 3.250 | 0.002 | 0.007 | 0.051 | 2.15 |

## 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 431 mm X ID 370 mm X H- 31 mm | BX 159 & II083-R | 10 Nos. |

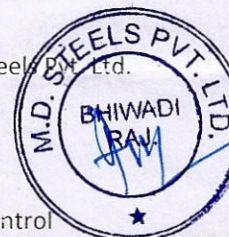
Remarks : Visual Inspection Carried out and dimension checked and found Ok.

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

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**