

**BHARTIYA ENTERPRISES****Material Testing Laboratory**

Plot No.-254, Sector-24, Faridabad-121005 (India)

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**Test Report**

Report No.-ULR : TC573925000007878F Issued to : M/s S.S.B. ENGINEERS PVT. LTD.  
 Customer : 133,M.I.A. ALWAR (RAJ.)-301001  
 Issue Date : 12/03/2025  
 Job Order No. : 8277  
 Sample Receipt Date : 11/03/2025 Sample Description : ROUND DIA 80mm  
 H.NO.54444 GR.20MnCr5

Discipline / Group : CHEMICAL- METALS &amp; ALLOYS

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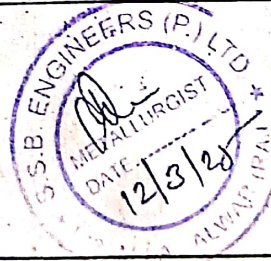
|                  |                    |
|------------------|--------------------|
| Reference No.    | 8177               |
| Date of Analysis | 12-03-2025         |
| Test Method      | OES/JIS G1253:2013 |

| Test Results |         |
|--------------|---------|
| Element      | %       |
| Carbon       | 0.176   |
| Silicon      | 0.235   |
| Manganese    | 1.227   |
| Chromium     | 1.213   |
| Nickel       | 0.020   |
| Molybdenum   | 0.002   |
| Vanadium     | 0.004   |
| Copper       | 0.009   |
| Aluminium    | 0.029   |
| Sulphur      | 0.022   |
| Phosphorus   | 0.016   |
| Boron        | <0.0002 |
| Titanium     | 0.005   |
| Niobium      | 0.005   |

| Specification for 20MnCr5 |        |
|---------------------------|--------|
| Min %                     | Max %  |
| 0.15                      | 0.20   |
| 0.15                      | 0.40   |
| 1.00                      | 1.30   |
| 1.00                      | 1.30   |
| .....                     | 0.30   |
| .....                     | 0.10   |
| .....                     | .....  |
| .....                     | 0.30   |
| 0.020                     | 0.050  |
| 0.015                     | 0.030  |
| .....                     | 0.020  |
| .....                     | 0.0005 |
| .....                     | .....  |
| .....                     | .....  |

**Statement of Conformity :-** Sample conforms to Steel Grade 20MnCr5 (Specified by Customer) with respect to above test results only.

*Nancy*  
Checked By :



- Notes: 1. Sample not drawn by us. Analysis conducted on "As received basis" unless specified otherwise. Sample will be retained only for 15 days.  
 2. The results listed refer only to the tested sample and applicable parameters. Endorsement of product is neither inferred nor implied.  
 3. Measurement uncertainty and associated risks are not taken into account when reporting statement of conformity as agreed by the customer.  
 4. This report can not be used as an evidence in the court of law, and shall not be reproduced except in full, without the written approval of Laboratory.  
 5. Total liability of our works is limited to the Invoiced amount only.

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