

# METALLURGICAL LABORATORY TEST REPORT

Format No. TR/ML/C/06 Rev. 01, Date: 20.02.2024

No: OFMK/ML-11/TR/20 Date:

|                                     |                       |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
|-------------------------------------|-----------------------|----|---|---|---|---|---|--|--|--|--|--|--|--|-----|--|--|--|--|
| Report No:                          | ULR                   | TC | 1 | 3 | 3 | 8 | 5 |  |  |  |  |  |  |  |     |  |  |  |  |
| Name and address of customer        | raju,kadapa           |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Sample Forwarding Letter No. & Date | 129,18-06-2001        |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Specification / Grade               | A5                    |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Date of Receipt of sample           | 22-10-2002            |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Test Performed on                   | 30-11-2024            |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Test Method                         | 26-02-20024           |    |   |   |   |   |   |  |  |  |  |  |  |  |     |  |  |  |  |
| Environmental Conditions            | Temperature in ° C    |    |   |   |   |   |   |  |  |  |  |  |  |  | 960 |  |  |  |  |
|                                     | Relative Humidity (%) |    |   |   |   |   |   |  |  |  |  |  |  |  | 450 |  |  |  |  |

I. Mechanical Testing

i. Mechanical properties of Metals

a. Ferrous materials, alloys & products

| Customer Sample No. | Sample Description/Size | Sample Colour/Conditon | Lab Sample No |
|---------------------|-------------------------|------------------------|---------------|
| 546                 | 241                     | 578                    | 473           |

| Melt No./Batch No. | UTS Mpa | YS Mpa | %EL  | %RA | 0.2%PS Mpa | Hardeness | Impact Strength Joules |
|--------------------|---------|--------|------|-----|------------|-----------|------------------------|
| 24                 | 67      | 89     | 0.68 | 789 | 546        | 2585      | 687                    |