



भारत सरकार
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सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises
एमएसएमई परीक्षण केन्द्र
MSME TESTING CENTRE
चेन्नै - 600 032. | CHENNAI - 600 032.



Test Report for

TMT Bar - 8mm

No. 25003201 ULR No:
TC1141325000003201F

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003201 ULR No: TC1141325000003201F

*Description of Samples : TMT Bar - 8mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

*These Particulars are based on information provided by the customer alongwith the test request, MSME Testing Centre does not assume any responsibility for the correctness of the same.

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Officer in Charge
Customer Cell
For Joint Director



ULR No: TC1141325000003201F

TEST REPORT

Description of Sample : TMT Bar 8.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	704
	b) Yield Strength (N/mm ²)	550 (Min)	622
	c) Elongation %	14.5 (Min)	21.5
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.13
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 4φ where φ is the diameter of the sample
2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 6φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)




L. Kandan
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003201

Date : 02.05.2025

Page : 3 of 3

ULR No:TC1141325000003201F

Description of Sample /

Identification

Condition of the Sample

: TMT Bar - 8 mm

BN: JPR TMT

: Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.18
Sulphur	0.040 % (Max)	0.017
Phosphorus	0.040 % (Max)	0.026
Sulphur + Phosphorus	0.075 % (Max)	0.043
Manganese	-	0.642
Copper	-	0.069
Nickel	-	BDL(DL- 0.05%)
Chromium	-	0.117
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	0.005
Nitrogen	0.012 % (Max)	0.004

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test : 01.05.2025

Environmental Condition

Temperature, ° C : 23.7

Humidity (RH), % : 48

Place of Testing : At Laboratory

Type of Test : Determination of Chemical Composition

Equipment used : Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed : Nitrogen IS 228 Part 23:2003 (RA 2019), Others IS 8811: 1998 (RA 2018)

Tested by : B.Pavithra

Checked by : M.Annabackiam

Tested by

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 8mm

No. 25003202

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003202

*Description of Samples : TMT Bar - 8mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Officer Incharge
Customer Cell
For Joint Director



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Test Report for :
TMT Bar 8.0 mm Dia
Report No : 2500 3202
Date : 02.05.2025
Page : 02 of 03

TEST REPORT

Description of Sample : TMT Bar 8.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	8.5
2	Mass (Kg/m)	0.395 (-8% Min)	0.387

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L. Nandan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003202

Date : 02.05.2025

Page : 03 of 03

Description of Sample / Identification : TMT Bar - 8 mm
BN: JPR TMT
Condition of the Sample : Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.32 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



TEST REPORT

*Name of the Customer Jeppiaar Furnace And Steels Pvt Ltd

*Address #158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003203 ULR No: TC1141325000003203F

*Description of Samples : TMT Bar - 10mm

*Identifications : BN: JPR TMT

Date of Receipt : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Customer Cell
For Joint Director



ULR No: TC1141325000003203F

TEST REPORT

Description of Sample : TMT Bar 10.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	706
	b) Yield Strength (N/mm ²)	550 (Min)	600
	c) Elongation %	14.5 (Min)	17.2
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.17
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 4φ where φ is the diameter of the sample
2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 6φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Karand
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003203

Date : 02.05.2025

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ULR No:TC1141325000003203F

Description of Sample /

Identification

Condition of the Sample

TMT Bar - 10 mm

BN: JPR TMT

Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.19
Sulphur	0.040 % (Max)	0.010
Phosphorus	0.040 % (Max)	0.027
Sulphur + Phosphorus	0.075 % (Max)	0.037
Manganese	-	0.612
Copper	-	0.104
Nickel	-	0.096
Chromium	-	0.213
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	BDL(DL- 0.005%)
Nitrogen	0.012 % (Max)	0.003

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test

01.05.2025

Environmental Condition

Temperature, ° C

23.7

Humidity (RH), %

48

Place of Testing

At Laboratory

Type of Test

Determination of Chemical Composition

Equipment used

Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed

Nitrogen IS 228 Part 23:2003 (RA 2019), Others IS 8811: 1998 (RA 2018)

Tested by

B.Pavithra

Checked by

M.Annabackiam

Tested by

B.Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam

(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 10mm

No. 25003204

Date 02.05.2025

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TEST REPORT

*Name of the Customer Jeppiaar Furnace And Steels Pvt Ltd

*Address #158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003204

*Description of Samples : TMT Bar - 10mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Test Report for :
TMT Bar 10.0 mm Dia

Report No : 2500 3204

Date : 02.05.2025

Page : 02 of 03

TEST REPORT

Description of Sample : TMT Bar 10.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	7.0
2	Mass (Kg/m)	0.617 (-8% Min)	0.590

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L.K. Indan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003204

Date : 02.05.2025

Page : 03 of 03

Description of Sample / Identification : TMT Bar - 10 mm
Condition of the Sample : BN: JPR TMT
Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.35 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

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Test Report for

TMT Bar - 12mm

No. 25003205 ULR No:
TC1141325000003205F

Date 02.05.2025

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TEST REPORT

*Name of the Customer Jeppiaar Furnace And Steels Pvt Ltd

*Address #158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003205 ULR No: TC1141325000003205F

*Description of Samples : TMT Bar - 12mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Officer Incharge
Customer Cell
For Joint Director



ULR No: TC1141325000003205F

TEST REPORT

Description of Sample : TMT Bar 12.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	720
	b) Yield Strength (N/mm ²)	550 (Min)	630
	c) Elongation %	14.5 (Min)	20.8
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.14
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 4φ where φ is the diameter of the sample
2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 7φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandon
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003205

Date : 02.05.2025

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ULR No:TC1141325000003205F

Description of Sample /

Identification

Condition of the Sample

TMT Bar - 12 mm

BN: JPR TMT

Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.16
Sulphur	0.040 % (Max)	0.014
Phosphorus	0.040 % (Max)	0.027
Sulphur + Phosphorus	0.075 % (Max)	0.041
Manganese	-	0.523
Copper	-	0.073
Nickel	-	0.075
Chromium	-	0.217
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	BDL(DL- 0.005%)
Nitrogen	0.012 % (Max)	0.004

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test : 01.05.2025

Environmental Condition

Temperature, ° C : 23.7

Humidity (RH), % : 48

Place of Testing : At Laboratory

Type of Test : Determination of Chemical Composition

Equipment used : Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed : Nitrogen IS 228 Part 23:2003 (RA 2019), Others IS 8811: 1998 (RA 2018)

Tested by : B.Pavithra

Checked by : M.Annabackiam

Tested by

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 12mm

No. 25003206

Date 02.05.2025

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TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003206

*Description of Samples : TMT Bar - 12mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Customer Cell
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MSME TESTING CENTRE

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Test Report for :
TMT Bar 12.0 mm Dia

Report No : 2500 3206

Date : 02.05.2025

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TEST REPORT

Description of Sample : TMT Bar 12.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	7.3
2	Mass (Kg/m)	0.888 (-6% Min)	0.871

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003206

Date : 02.05.2025

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Description of Sample / Identification : TMT Bar - 12 mm
BN: JPR TMT
Condition of the Sample : Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.30 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 16mm

No. 25003207 ULR No:
TC1141325000003207F

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003207 ULR No: TC1141325000003207F

*Description of Samples : TMT Bar - 16mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

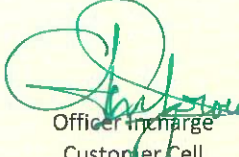
Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

*These Particulars are based on information provided by the customer alongwith the test request, MSME Testing Centre does not assume any responsibility for the correctness of the same.

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Officer in Charge
Customer Cell
For Joint Director



ULR No: TC1141325000003207F

TEST REPORT

Description of Sample : TMT Bar 16.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	670
	b) Yield Strength (N/mm ²)	550 (Min)	578
	c) Elongation %	14.5 (Min)	18.5
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.15
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 4φ where φ is the diameter of the sample
2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 7φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)



L. Kasdan
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003207

Date : 02.05.2025

Page : 3 of 3

ULR No:TC1141325000003207F

Description of Sample /
Identification

: TMT Bar - 16 mm
BN: JPR TMT

Condition of the Sample

: Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.14
Sulphur	0.040 % (Max)	0.010
Phosphorus	0.040 % (Max)	0.023
Sulphur + Phosphorus	0.075 % (Max)	0.033
Manganese	-	0.599
Copper	-	0.055
Nickel	-	BDL(DL- 0.05%)
Chromium	-	0.125
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	BDL(DL- 0.005%)
Nitrogen	0.012 % (Max)	0.004

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test : 01.05.2025

Environmental Condition

Temperature, ° C : 23.7

Humidity (RH), % : 48

Place of Testing : At Laboratory

Type of Test : Determination of Chemical Composition

Equipment used : Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed : Nitrogen IS 228 Part 23:2003 (RA 2019), Others IS 8811: 1998 (RA 2018)

Tested by : B.Pavithra

Checked by : M.Annabackiam

Tested by

B.Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 16mm

No. 25003208

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference..... : Email Dt. 28.04.2025

Job Sl. No. : 25003208

*Description of Samples : TMT Bar - 16mm

*Identifications : BN: JPR TMT

Date of Receipt : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

*These Particulars are based on information provided by the customer alongwith the test request, MSME Testing Centre does not assume any responsibility for the correctness of the same.

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Officer in Charge
Customer Cell
For Joint Director



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Test Report for :
TMT Bar 16.0 mm Dia

Report No : 2500 3208

Date : 02.05.2025

Page : 02 of 03

TEST REPORT

Description of Sample : TMT Bar 16.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	7.1
2	Mass (Kg/m)	1.580 (-6% Min)	1.527

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.9 & 53
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003208

Date : 02.05.2025

Page : 03 of 03

Description of Sample / Identification : TMT Bar - 16 mm
BN: JPR TMT
Condition of the Sample : Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008. Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.27 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 20mm

No. 25003209 ULR No:
TC1141325000003209F

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer Jeppiaar Furnace And Steels Pvt Ltd

*Address #158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003209 ULR No: TC1141325000003209F

*Description of Samples : TMT Bar - 20mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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For Joint Director



ULR No: TC1141325000003209F

TEST REPORT

Description of Sample : TMT Bar 20.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	690
	b) Yield Strength (N/mm ²)	550 (Min)	595
	c) Elongation %	14.5 (Min)	21.2
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.15
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 4φ where φ is the diameter of the sample
2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 7φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.7 & 55
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandan
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003209

Date : 02.05.2025

Page : 3 of 3

ULR No:TC1141325000003209F

Description of Sample /
Identification

: TMT Bar - 20 mm
BN: JPR TMT

Condition of the Sample

: Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.15
Sulphur	0.040 % (Max)	0.018
Phosphorus	0.040 % (Max)	0.025
Sulphur + Phosphorus	0.075 % (Max)	0.043
Manganese	-	0.518
Copper	-	0.092
Nickel	-	0.052
Chromium	-	0.157
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	BDL(DL- 0.005%)
Nitrogen	0.012 % (Max)	0.005

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test : 01.05.2025

Environmental Condition

Temperature, ° C : 23.7

Humidity (RH), % : 48

Place of Testing : At Laboratory

Type of Test : Determination of Chemical Composition

Equipment used : Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed : Nitrogen IS 228 Part 23:2003 (RA 2019),Others IS 8811: 1998 (RA 2018)

Tested by : B.Pavithra

Checked by : M.Annabackiam

Tested by

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 20mm

No. 25003210

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003210

*Description of Samples : TMT Bar - 20mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

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Customer Cell
For Joint Director



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Test Report for :
TMT Bar 20.0 mm Dia

Report No : 2500 3210

Date : 02.05.2025

Page : 02 of 03

TEST REPORT

Description of Sample : TMT Bar 20.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	8.2
2	Mass (Kg/m)	2.470 (-4% Min)	2.478

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.7 & 55
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003210

Date : 02.05.2025

Page : 03 of 03

Description of Sample / Identification : TMT Bar - 20 mm
BN: JPR TMT
Condition of the Sample : Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.28 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-



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Test Report for

TMT Bar - 25mm

No. 25003211 ULR No:
TC1141325000003211F
Date 02.05.2025
Page 1 of 3

TEST REPORT

*Name of the Customer Jeppiaar Furnace And Steels Pvt Ltd
*Address #158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604
*Customer Reference..... : Email Dt. 28.04.2025
Job Sl. No. : 25003211 ULR No: TC1141325000003211F
*Description of Samples : TMT Bar - 25mm
*Identifications : BN: JPR TMT
Date of Receipt..... : 28-04-2025
Sampling Procedure : Sample submitted by Customer
Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

*These Particulars are based on information provided by the customer alongwith the test request, MSME Testing Centre does not assume any responsibility for the correctness of the same.

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Officer Incharge
Customer Cell
For Joint Director



ULR No: TC114132500003211F

TEST REPORT

Description of Sample : TMT Bar 25.0 mm Dia
*Identification : BN : JPR
Condition of the Test Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Tensile Test		
	a) Tensile Strength (N/mm ²)	600 (Min)	748
	b) Yield Strength (N/mm ²)	550 (Min)	642
	c) Elongation %	14.5 (Min)	18.3
	d) TS/YS Ratio (N/mm ²)	≥ 1.08	1.16
2	Bend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination
3	Rebend Test	There should be no rupture/ crack in the bent portion	No rupture/ crack was observed in the bent portion after the test on visual examination.

*As Stated by the Customer

Remarks : 1) For Test at Sl. No.2, Angle of bend is 180° and Mandrel dia is 5φ where φ is the diameter of the sample

2) For Test at Sl.No.3 Angle of bend is 135° & 157.5° and Mandrel dia is 7φ where φ is the diameter of the sample.

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.7 & 55
Type of Test : Tensile, Bend & Rebend Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1599-2023
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandian
Assistant Director (Mech)
Authorised Signatory



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TC-11413

Test Report for
TMT Bar

Report No : 25003211

Date : 02.05.2025

Page : 3 of 3

ULR No:TC1141325000003211F

Description of Sample /

Identification

Condition of the Sample

TMT Bar - 25 mm

BN: JPR TMT

Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value, in percent
Carbon	0.25 % (Max)	0.17
Sulphur	0.040 % (Max)	0.010
Phosphorus	0.040 % (Max)	0.026
Sulphur + Phosphorus	0.075 % (Max)	0.036
Manganese	-	0.545
Copper	-	0.093
Nickel	-	0.05
Chromium	-	0.253
Molybdenum	-	BDL(DL- 0.01%)
Vanadium	-	BDL(DL- 0.01%)
Aluminium	-	BDL(DL- 0.005%)
Nitrogen	0.012 % (Max)	0.006

BDL: Below Detection Limit, DL- Detection Limit.

Date of Test : 01.05.2025

Environmental Condition

Temperature, ° C : 23.7

Humidity (RH), % : 48

Place of Testing : At Laboratory

Type of Test : Determination of Chemical Composition

Equipment used : Optical Emission Spectrometer (Model OES-5500II)

Procedure Followed : Nitrogen IS 228 Part 23:2003 (RA 2019), Others IS 8811: 1998 (RA 2018)

Tested by : B.Pavithra

Checked by : M.Annabackiam

Tested by

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

End of the Report-

65/1, जी एस टी रोड, गिण्डी, चेन्नै - 600 032. | 65/1, G.S.T. Road, Guindy, Chennai - 600 032.

Phone : 044-2250 0634, +91-9445662299, e-mail : ccell-dctc-sr@dcmsme.gov.in / dctc-sr@dcmsme.gov.in



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Test Report for

TMT Bar - 25mm

No. 25003212

Date 02.05.2025

Page 1 of 3

TEST REPORT

*Name of the Customer

Jeppiaar Furnace And Steels Pvt Ltd

*Address

#158, Kunnavakkam Village
Panruti Taluk
Kancheepuram Dt - 631 604

*Customer Reference. : Email Dt. 28.04.2025

Job Sl. No. : 25003212

*Description of Samples : TMT Bar - 25mm

*Identifications : BN: JPR TMT

Date of Receipt. : 28-04-2025

Sampling Procedure : Sample submitted by Customer

Graph / Figure, if any : Not Applicable

Note: This Report pertains to the particular sample submitted for the test and no interpretation or opinions on the test results has been provided.

*These Particulars are based on information provided by the customer alongwith the test request, MSME Testing Centre does not assume any responsibility for the correctness of the same.

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Officer In Charge
Customer Cell
For Joint Director



सत्यमेव जयते

भारत सरकार
Government of India

सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises

एमएसएमई परीक्षण केन्द्र
MSME TESTING CENTRE

चेन्नै - 600 032. | CHENNAI - 600 032.

Test Report for :
TMT Bar 25.0 mm Dia

Report No : 2500 3212

Date : 02.05.2025

Page : 02 of 03

TEST REPORT

Description of Sample : TMT Bar 25.0 mm Dia
*Identification : BN : JPR
Condition of the Sample : Received in Good Condition

TEST RESULTS

Sl. No.	Type of Test	Specified Value as per IS 1786:2008 (Fe – 550D)	Observed Value
1	Total Elongation at Maximum Force %	5.0 (Min)	7.6
2	Mass (Kg/m)	3.850 (-4% Min)	3.839

*As Stated by the Customer

Date of Test : 01.05.2025
Environmental Condition :
Temperature, ° C & Humidity (RH), % : 25.7 & 55
Type of Test : Total Elongation at Maximum Force % & Mass Test
Procedure Followed : IS:1608 (Part 1) -2022 & IS:1786-2008
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kondan
Assistant Director (Mech)
Authorised Signatory



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Test Report for
TMT Bar

Report No : 25003212

Date : 02.05.2025

Page : 03 of 03

Description of Sample / Identification : TMT Bar - 25 mm
Condition of the Sample : BN: JPR TMT
Good

TEST RESULTS

Chemical Composition	Specified value as per IS:1786-2008, Amendment No : 3 Fe 550 D	Observed Value
Carbon Equivalent	0.61 % (Max)	0.32 %

BDL: Below Detection Limit, DL- Min Detection Limit.

Date of Test : 01.05.2025
Environmental Condition
Temperature : -
Humidity (RH) : -
Place of Testing : At Laboratory
Type of Test : Determination of Carbon Equivalent
Equipment used : -
Procedure Followed : Summation as per IS 1786:2008 Amendment No 3
Test done by : B.Pavithra
Checked by : M.Annabackiam

Tested By

B. Pavithra
(B.Pavithra)
Lab Assistant



M. Annabackiam
(M.Annabackiam)
Assistant Director (Chem)
Authorised Signatory

-End of the Report-