



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 - 8mm

No. 25003213

Date 09.06.2025

Page 1 of 2

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. : 25003213

*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 in Charge
Customer Cell
For Joint Director



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Test Report For :

TMT Bar 8.0 mm Dia

Report No : 2500 3213

Date : 09.06.2025

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TEST REPORT

Description of Sample : TMT Bar 8.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube (Average of 3 Samples)	---	260 Kgf/cm ²
b) Age of Specimen	---	28 days
	Plain Steel bar	TMT bar
c) Average load at a slip of 0.025 mm at the free end	525 N	805 N
d) Average load at a slip of 0.25 mm at the free end	745 N	1430 N
e) Average maximum load of failure	8850 N	16,020 N
f) Type of failure (For all three specimens)	TMT bars and plain steel bars have been pulled out from the concrete cube Neither the bars nor the concrete cubes were broken	

2. The Mean Projected Rib area per unit length mm ² /mm	0.96 (Min)	1.41
3. The Mean projected area of transverse rib alone mm ² /mm	0.32 (Min)	1.41

Date of Test : 05-05-2025 to 02-06-2025
Environmental Condition :
Temperature : Ambient
Humidity : Ambient
Type of Test : Pull-Out Test
Procedure Followed : IS:1786-2008 & IS: 2770 (Part – 1) :1967
Tested by : S.Sadamadhavan, Instructor (Mech)



L. Karman
Assistant Director (Mech)
Authorized Signatory

- End of the Report-



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Test Report for

TMT Bar - 10mm

No. 25003214

Date 09.06.2025

Page 1 of 2

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. : 25003214

*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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[Signature]
Officer Incharge
Customer Cell
For Joint Director



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Test Report For :

TMT Bar 10.0 mm Dia

Report No : 2500 3214

Date : 09.06.2025

Page : 02 of 02

TEST REPORT

Description of Sample : TMT Bar 10.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube (Average of 3 Samples)	---	260 Kgf/cm ²
b) Age of Specimen	---	28 days
	Plain Steel bar	TMT bar
c) Average load at a slip of 0.025 mm at the free end	875 N	1330 N
d) Average load at a slip of 0.25 mm at the free end	1255 N	2385 N
e) Average maximum load of failure	18,950 N	32,975 N
f) Type of failure (For all three specimens)	TMT bars and plain steel bars have been pulled out from the concrete cube Neither the bars nor the concrete cubes were broken	
2. The Mean Projected Rib area per unit length mm ² /mm	1.20 (Min)	2.07
3. The Mean projected area of transverse rib alone mm ² /mm	0.40 (Min)	2.07

Date of Test : 05-05-2025 to 02-06-2025
Environmental Condition :
Temperature : Ambient
Humidity : Ambient
Type of Test : Pull-Out Test
Procedure Followed : IS:1786-2008 & IS: 2770 (Part – 1):1967
Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandiah
Assistant Director (Mech)
Authorized Signatory

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Test Report for

TMT Bar - 12mm

No. 2503215

Date 09.06.2025

Page 1 of 2

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. : 2503215

*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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Test Report For :

TMT Bar 12.0 mm Dia

Report No : 2500 3215

Date : 09.06.2025

Page : 02 of 02

TEST REPORT

Description of Sample : TMT Bar 12.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube (Average of 3 Samples)	---	250 Kg/cm ²
b) Age of Specimen	---	28 days
	Plain Steel bar	TMT bar
c) Average load at a slip of 0.025 mm at the free end	995 N	1515 N
d) Average load at a slip of 0.25 mm at the free end	1465 N	2800 N
e) Average maximum load of failure	29,550 N	52,010 N
f) Type of failure (For all three specimens)	TMT bars and plain steel bars have been pulled out from the concrete cube Neither the bars nor the concrete cubes were broken	

2. The Mean Projected Rib area per unit length mm ² /mm	1.80 (Min)	2.35
3. The Mean projected area of transverse rib alone mm ² /mm	0.60 (Min)	2.35

Date of Test : 06-05-2025 to 03-06-2025
Environmental Condition :
Temperature : Ambient
Humidity : Ambient
Type of Test : Pull-Out Test
Procedure Followed : IS:1786-2008 & IS: 2770 (Part – 1): 1967
Tested by : S.Sadamadhavan, Instructor (Mech)



L. Kandan
Assistant Director (Mech)
Authorized Signatory

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Test Report for

TMT Bar - 16mm

No. 25003216

Date 09.06.2025

Page 1 of 2

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. : 25003216

*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.

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Test Report For :

TMT Bar 16.0 mm Dia

Report No : 2500 3216

Date : 09.06.2025

Page : 02 of 02

TEST REPORT

Description of Sample : TMT Bar 16.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube (Average of 3 Samples)	---	250 Kgf/cm ²
b) Age of Specimen	---	28 days
	Plain Steel bar	TMT bar
c) Average load at a slip of 0.025 mm at the free end	1315 N	1985 N
d) Average load at a slip of 0.25 mm at the free end	1935 N	3675 N
e) Average maximum load of failure	34,100 N	67,520 N
f) Type of failure (For all three specimens)	TMT bars and plain steel bars have been pulled out from the concrete cube Neither the bars nor the concrete cubes were broken	

2. The Mean Projected Rib area per unit length mm ² /mm	2.40 (Min)	3.20
3. The Mean projected area of transverse rib alone mm ² /mm	0.80 (Min)	3.20

Date of Test	:	06-05-2025 to 03-06-2025
Environmental Condition	:	
Temperature	:	Ambient
Humidity	:	Ambient
Type of Test	:	Pull-Out Test
Procedure Followed	:	IS:1786-2008 & IS: 2770 (Part – 1): 1967
Tested by	:	S.Sadamadhavan, Instructor (Mech)



L. Kannan
Assistant Director (Mech)
Authorized Signatory

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Test Report for

TMT Bar - 20mm

No. 25003217

Date 09.06.2025

Page 1 of 2

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. : 25003217

*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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Test Report For :

TMT Bar 20.0 mm Dia

Report No : 2500 3217

Date : 09.06.2025

Page : 02 of 02

TEST REPORT

Description of Sample : TMT Bar 20.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube --- 270 Kgf/cm²
(Average of 3 Samples)

b) Age of Specimen --- 28 days

	Plain Steel bar	TMT bar
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c) Average load at a slip of 0.025 mm at the free end	1495 N	2290 N
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d) Average load at a slip of 0.25 mm at the free end	2240 N	4260 N
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e) Average maximum load of failure	54,050 N	89,185 N
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f) Type of failure TMT bars and plain steel bars have been
(For all three specimens) pulled out from the concrete cube Neither
the bars nor the concrete cubes were broken

2. The Mean Projected Rib area per unit length mm²/mm 3.40 (Min) 4.88

3. The Mean projected area of transverse rib alone mm²/mm 1.13 (Min) 4.88

Date of Test : 07-05-2025 to 04-06-2025

Environmental Condition

Temperature : Ambient

Humidity : Ambient

Type of Test : Pull-Out Test

Procedure Followed : IS:1786-2008 & IS: 2770 (Part – 1): 1967

Tested by : S.Sadamadhavan, Instructor (Mech)



L.Kandari
Assistant Director (Mech)
Authorized Signatory

- End of the Report-



सत्यमेव जयते

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Test Report for

TMT Bar - 25mm

No. 25003218

Date 09.06.2025

Page 1 of 2

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. : 25003218

*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.

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Test Report For :

TMT Bar 25.0 mm Dia

Report No : 2500 3218

Date : 09.06.2025

Page : 02 of 02

TEST REPORT

Description of Sample : TMT Bar 25.0 mm Dia , Fe 550D
Identification : BN : JPR

TEST RESULTS

1. PULL-OUT TEST (Clause : 5.7)

a) Crushing Strength of concrete cube (Average of 3 Samples)	---	270 Kgf/cm ²
b) Age of Specimen	---	28 days
	Plain Steel bar	TMT bar
c) Average load at a slip of 0.025 mm at the free end	1705 N	2590 N
d) Average load at a slip of 0.25 mm at the free end	2520 N	4815 N
e) Average maximum load of failure	61,150 N	94,170 N
f) Type of failure (For all three specimens)	TMT bars and plain steel bars have been pulled out from the concrete cube Neither the bars nor the concrete cubes were broken	
2. The Mean Projected Rib area per unit length mm ² /mm	4.25 (Min)	5.41
3. The Mean projected area of transverse rib alone mm ² /mm	1.42 (Min)	5.41

Date of Test : 07-05-2025 to 04-06-2025
Environmental Condition :
Temperature : Ambient
Humidity : Ambient
Type of Test : Pull-Out Test
Procedure Followed : IS:1786-2008 & IS: 2770 (Part – 1): 1967
Tested by : S.Sadamadhavan, Instructor (Mech)



L. Kannan
Assistant Director (Mech)
Authorized Signatory

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