

National Test House (SR), Chennai

तारामणी, चेन्नई, तमिलनाडु — 600113 Tharamani, Chennai - 600113, Tamilnadu





TC-13137

NABL A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: एस.आर.एफ. संख्या/SRF Number: जारी होने की तिथि/Date of issue कोड सं/QR Code NABL/NTH(SR)/M(L)/25/7157_1 NTH(SR)/M(L)/25/7157 21 Jun, 2025 : NTH250089679

a) जिसे जारी करना है/Issued To : JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) पुता/Address 158,Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No. : Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status : Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item 💮 💮 : 🌄 JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/**Description of Nomenclature** : JPR TMT Bar of Nominal size 8mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any) : IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item : 08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests : From: 13 May, 2025 To: 21 Jun, 2025

j) परिमाण/Quantity : 6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other : Pull-Out Test. Information / Expiry Date, If any

I) अनुभाग कोड/Section Code : 25CVAE3AN (Pages:3), 25MEA8F4N (Pages:4) NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No. : 25CVAE3AN_1, 25MEA8F4N_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type : New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

p) टिप्पणी/**Remarks** : Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:17 PM

Signature Not Verified
1. The second Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an venkates by which the been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration v.in-Sample Celling relates only to the sample/ items submitted.



National Test House (SR), Chennai तारामणी, चेन्नई, तमिलनाडु — 600113 Tharamani, Chennai - 600113, Tamilnadu





TC-13137

ULR: TC1313725600001440F

Section Report No.: 25CVAE3AN_1_NABL IS 1786 (2008)

1	NO.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2	7	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3	12	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4	Mei	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5	301	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6	e over	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7	Ser.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8	26	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9	Sur S	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10	. 2	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:22 AM

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TC-13137

ULR: TC1313725600001440F

Section Report No.: 25CVAE3AN_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
NAPT METICINA	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	20.0	30.0	MPa	27.5 (MPa)

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SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil

S Murali OIC Testing/Calibration Civil (Reviewed & Approved by) Signed on: 17 Jun, 2025 10:22 AM

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TC-13137

ULR: TC1313725600001440F

Section Report No.: 25CVAE3AN_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:22 AM

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TC-13137

ULR: TC1313725700001382F

Section Report No.: 25MEA8F4N 1 NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमना लेने की प्रक्रिया का संदर्भ, जहां लाग हो! Reference to sampling procedure, wherever applicable.

परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और 2. / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.

परीक्षण सामग्री की पहचान/identification of Test item

व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test 5.

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used

कैलिब्रेशन स्थल/Site of Calibration

मापन का पता लगाने की क्षमता/Traceability of Measurement

Not Applicable

Not Applicable

Not Applicable

Embossed on each sample of HSD Steel bar of nominal size 8mm as "JPR TMT BARS 550D ISI 8 677573".

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 & IS 2770 (Part 1): 1967 (Reaffirmed 2022).

NA

Room Temperature 25.2ºC

Universal Testing Machine, 1000kN.

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:25 AM

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TC-13137

ULR: TC1313725700001382F

Section Report No.: 25MEA8F4N 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
ME TION	5.7	M_Pull out test for 0 to 12 mm	M_Pull out test for 0 to 12 mm	-	HE	ello _{lo} lubr	Please Refer Annexure A

......

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:25 AM

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भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (द.क्षे.) National Test House (SR)

तारामणी, चेन्नई, तमिलनाडु — 600113 Tharamani, Chennai - 600113, Tamilnadu





Section Code: 25MEA8F4N ULR: TC1313725700001382F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 08 mm as "JPR TMT BARS 550D ISI 8 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 08 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.	Nature of tests	Nature of tests Observed Values		Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
Litt. State	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	5 Let Add Read Part of the American State of
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.06	7.55	CHOUSE OF SELECTION AND AND AND AND AND AND AND AND AND AN
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	en	86	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	5.79	11.68	Charles Line to Color of The Color
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Albin and all	102	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	6.83	12.89	NIFICAL CONTROL OF THE STATE OF

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

kpelangovan@nth.go v.in-(OIC Testing/Calibration)

> Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



National Test House (SR), Chennai

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TC-13137

ULR: TC1313725700001382F

Section Report No.: 25MEA8F4N_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:25 AM

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Signature Not Verified kpelangovan@nth.go v.in-(OIC Testing/Calibration)



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TC-13137

ULR: TC1313725600001441F, TC1313725700001383F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

The COMI

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7179_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7179 जारी होने की तिथि/Date of issue 21 Jun, 2025 कोड सं/QR Code : NTH250089681

a) जिसे जारी करना है/Issued To

: JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) पता/Address

158, Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.

Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status

: Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/Description of Nomenclature

JPR TMT Bar of Nominal size 10mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)

IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item

08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests

From: 13 May, 2025 To: 21 Jun, 2025

j) परिमाण/Quantity

6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any

Α.

Pull-Out Test.

I) अनुभाग कोड/Section Code

25CVEEFAN (Pages:3), 25MED52DN (Pages:4)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

: 25CVEEFAN_1, 25MED52DN_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

: New

p) टिप्पणी/Remarks

Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:17 PM

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TC-13137

ULR: TC1313725600001441F

Section Report No.: 25CVEEFAN_1_NABL IS 1786 (2008)

1. 1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9.	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:40 AM

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TC-13137

ULR: TC1313725600001441F

Section Report No.: 25CVEEFAN_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
NAPT METICINA	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	20.0	30.0	MPa	27.5 (MPa)

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SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil

S Murali OIC Testing/Calibration Civil (Reviewed & Approved by) Signed on: 17 Jun, 2025 10:40 AM

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TC-13137

ULR: TC1313725600001441F

Section Report No.: 25CVEEFAN_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:40 AM

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TC-13137

ULR: TC1313725700001383F

Not Applicable

Not Applicable

Not Applicable

Section Report No.: 25MED52DN 1 NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमना लेने की प्रक्रिया का संदर्भ, जहां लाग हो! Reference to sampling procedure, wherever applicable. परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और 2.

/ अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.

परीक्षण सामग्री की पहचान/identification of Test item

nominal size 10mm as "JPR TMT BARS 550D ISI 10 677573".

व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test 5.

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used

कैलिब्रेशन स्थल/Site of Calibration

मापन का पता लगाने की क्षमता/Traceability of Measurement

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4,

Embossed on each sample of HSD Steel bar of

July 2019 & IS 2770 (Part 1): 1967 (Reaffirmed 2022).

Room Temperature 25.2ºC

Universal Testing Machine, 1000kN.

NA

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:31 AM

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Signature Not Verified kpelangovan@nth.go v.in-(OIC Testing/Calbration)



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TC-13137

ULR: TC1313725700001383F

Section Report No.: 25MED52DN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
NET STION	5.7	M_Pull out test for 0 to 12 mm	M_Pull out test for 0 to 12 mm	-	Abi	ello _{lo} und	Please Refer Annexure A

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Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:31 AM

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Signature Not Verified kpelangovan@nth.go v.in-(OIC Testing/Calibration)



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तारामणी, चेन्नई, तमिलनाडु — 600113 Tharamani, Chennai - 600113, Tamilnadu





Section Code: 25MED52DN ULR: TC1313725700001383F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 10 mm as "JPR TMT BARS 550D ISI 10 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 10 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.	Nature of tests	s Observed Values		Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
1,210 (d.	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	St. 18 M. Million British Brit
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.52	7.73	Charles and the state of the st
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	677	JETICA 71 PARTY	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	5.91	11.41	STONE THE TEST HOUSE SEE SEE SEE
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Alfan Tallan	93	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	7.21	12.15	HERITAGE HELLER TO THE STATE OF

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

Signature Not Verified kpelangovan @nth.go v.in-(OIC Testing/Calibration)

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration) K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



National Test House (SR), Chennai

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TC-13137

ULR: TC1313725700001383F

Section Report No.: 25MED52DN_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:31 AM

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TC-13137

ULR: TC1313725600001442F, TC1313725700001384F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7187_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7187 जारी होने की तिथि/Date of issue 21 Jun, 2025 कोड सं/QR Code : NTH250089683

a) जिसे जारी करना है/Issued To

: JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) पता/Address

158,Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.

Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status

: Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/Description of Nomenclature

JPR TMT Bar of Nominal size 12mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)

IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item

08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests

From: 13 May, 2025 To: 21 Jun, 2025

j) परिमाण/Quantity

6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any

Pull-Out Test.

I) अनुभाग कोड/Section Code

25CV2A32N (Pages:3), 25ME0B8AN (Pages:4)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CV2A32N 1, 25ME0B8AN 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

: New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

- 107

p) टिप्पणी/Remarks

Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:18 PM

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TC-13137

ULR: TC1313725600001442F

Section Report No.: 25CV2A32N_1_NABL IS 1786 (2008)

1	NO.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2	7	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3	12	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4	Mei	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5	301	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6	e over	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7	Ser.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8	26	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9	Sur S	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10	. 2	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
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TC-13137

ULR: TC1313725600001442F

Section Report No.: 25CV2A32N_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
NAPT METICINA	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	Compressive strength of concrete cubes (Avg) after 28 days for 0 to 12 mm	20.0	30.0	MPa	28.0 (MPa)

......

SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil

S Murali OIC Testing/Calibration Civil (Reviewed & Approved by) Signed on: 17 Jun, 2025 10:43 AM

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TC-13137

ULR: TC1313725600001442F

Section Report No.: 25CV2A32N_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
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TC-13137

ULR: TC1313725700001384F

Section Report No.: 25ME0B8AN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

1. नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.

 परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो।
 Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धित से विचलन , यदि कोई हो।
 Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.

4. परीक्षण सामग्री की पहचान/identification of Test item

5. व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used

9. कैलिब्रेशन स्थल/Site of Calibration

10. मापन का पता लगाने की क्षमता/Traceability of Measurement

Not Applicable

Not Applicable

Not Applicable

Embossed on each sample of HSD Steel bar of nominal size 12mm as "JPR TMT BARS 550D ISI 12 677573".

011313

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 & IS 2770 (Part 1): 1967 (Reaffirmed

2022).

NA

Room Temperature 25.2ºC

Universal Testing Machine, 1000kN.

NA NA

NA

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:36 AM

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TC-13137

ULR: TC1313725700001384F

Section Report No.: 25ME0B8AN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
, Mediations,	5.7	M_Pull out test for 0 to 12 mm	M_Pull out test for 0 to 12 mm	-	- Hay	ello unu	Please Refer Annexure A

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:36 AM

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तारामणी, चेन्नई, तमिलनाडु — 600113 Tharamani, Chennai - 600113, Tamilnadu





Section Code: 25ME0B8AN ULR: TC1313725700001384F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 12 mm as "JPR TMT BARS 550D ISI 12 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 12 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.	Nature of tests	Observed Values		Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
18 ²⁷	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	St. 18 18 18 18 18 18 18 18 18 18 18 18 18
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.62	8.28	Charles The State of the State
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	677	79	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	5.79	11.57	STONE THE TEST HOUSE SEE THE STORE
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Eller Ere	100	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	6.46	12.30	Harten Ballet State Land House

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

kpelangovan@nth.go v.in-(OIC Testing/Calibration)

> Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



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TC-13137

ULR: TC1313725700001384F

Section Report No.: 25ME0B8AN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786 : 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
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TC-13137

ULR: TC1313725600001443F, TC1313725700001385F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7196_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7196 जारी होने की तिथि/Date of issue **21 Jun, 2025**

कोड सं/QR Code : NTH250089684

a) जिसे जारी करना है/Issued To

: JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) पता/Address

158,Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.

Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status

: Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/Description of Nomenclature

JPR TMT Bar of Nominal size 16mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)

IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item

08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests

From: 13 May, 2025 To: 21 Jun, 2025

j) परिमाण/Quantity

6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other

Information / Expiry Date, If any

Pull-Out Test.

I) अनुभाग कोड/Section Code

25CV4AB2N (Pages:3), 25ME43FAN (Pages:4)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CV4AB2N_1, 25ME43FAN_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

: New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

0.8

p) टिप्पणी/Remarks

Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:19 PM

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TC-13137

ULR: TC1313725600001443F

Section Report No.: 25CV4AB2N_1_NABL IS 1786 (2008)

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9.	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:45 AM

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TC-13137

ULR: TC1313725600001443F

Section Report No.: 25CV4AB2N_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
, Mailou	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	20.0	30.0	MPa	28.0 (MPa)

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SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:45 AM

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TC-13137

ULR: TC1313725600001443F

Section Report No.: 25CV4AB2N_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:45 AM

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5.

भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (द.क्षे.)

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TC-13137

ULR: TC1313725700001385F

Not Applicable

Section Report No.: 25ME43FAN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो!
Reference to sampling procedure, wherever applicable.
 परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और
 Not Applicable

/ अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

3. सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो।

Deviation from the test methods as prescribed in relevant ISS/Work

instruction, if any.

4. परीक्षण सामग्री की पहचान/identification of Test item Embossed on each sample of HSD Steel bar of

nominal size 16mm as "JPR TMT BARS 550D ISI 16 677573".

व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 & IS 2770 (Part 1) : 1967 (Reaffirmed 2022).

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions Room Temperature 25.2ºC

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used Universal Testing Machine, 1000kN.

9. वैलिब्रेशन स्थल/Site of Calibration NA

10. मापन का पता लगाने की क्षमता/Traceability of Measurement

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:42 AM

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TC-13137

ULR: TC1313725700001385F

Section Report No.: 25ME43FAN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
PIET STION	5.7	M_Pull out test for 16 to 40 mm	M_Pull out test for 16 to 40 mm_M	-	- May	etio <u>r</u> onal	Please Refer Annexure A

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:42 AM

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Section Code: 25ME43FAN ULR: TC1313725700001385F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 16 mm as "JPR TMT BARS 550D ISI 16 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 16 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.	Nature of tests	Observed Values		Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
1,270 (1,	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	St. 18 18 18 18 18 18 18 18 18 18 18 18 18
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.19	8.23	THOUGH A STATE THE SHEET HER
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	677	96	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	4.96	10.59	Stong of the state
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Alfan Tallan	113	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	5.54	11.13	Hart Children Take Land Land Land

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

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> Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



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TC-13137

ULR: TC1313725700001385F

Section Report No.: 25ME43FAN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786 : 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:42 AM

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TC-13137

.....

ULR: TC1313725600001444F, TC1313725700001386F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7161_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7161

जारी होने की तिथि/Date of issue 21 Jun, 2025 कोड सं/QR Code : NTH250089686

a) जिसे जारी करना है/Issued To

: JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) ਪਗ/Address

158,Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.

Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status

: Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/Description of Nomenclature

JPR TMT Bar of Nominal size 20mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)

IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item

08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests

From: 13 May, 2025

To: 21 Jun, 2025

i) परिमाण/Quantity

6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

• Pull-Out Test.

I) अनुभाग कोड/Section Code

: 25CV7022N (Pages:3), 25ME6AECN (Pages:4) NABL

The Mer Will Was to

: 25CV7022N_1, 25ME6AECN_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

Now

the title with the title the title

2 10

p) टिप्पणी/Remarks

: Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:19 PM

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TC-13137

ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL IS 1786 (2008)

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9.	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:46 AM

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TC-13137

ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
HETTON HETTON	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	20.0	30.0	MPa	28.0 (MPa)

.

SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:46 AM

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TC-13137

ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:46 AM

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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो!
Reference to sampling procedure, wherever applicable.
 परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और
 Not Applicable

/ अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

3. सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Not Applicable

Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.

परीक्षण सामग्री की पहचान/identification of Test item

Embossed on each sample of HSD Steel bar of nominal size 20mm as "JPR TMT BARS 550D ISI 20 677573".

5. व्यावद्भत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No.

व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 & IS 2770 (Part 1) : 1967 (Reaffirmed 2022).

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions Room Temperature 25.2ºC

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used Universal Testing Machine, 1000kN.

9. वैलिब्रेशन स्थल/Site of Calibration NA

10. मापन का पता लगाने की क्षमता/Traceability of Measurement

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:47 AM

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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation	
MEI CHOP	5.7	M_Pull out test for 16 to 40 mm	M_Pull out test for 16 to 40 mm_M	-	- Agg	ELION PARI	Please Refer Annexure A	

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 21 Jun, 2025 11:47 AM

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Section Code: 25ME6AECN ULR: TC1313725700001386F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 20 mm as "JPR TMT BARS 550D ISI 20 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 20 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.			rved Values	Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
1,210 (d. 2011)	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	St. 18 M. Million Black and Market
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.28	7.82	Charles and the state of the st
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	67/	83	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	5.25	10.61	STONAL LES ST. CO. LOUSE SE SELECTION
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Eller Erel	102	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	5.74	10.99	HERITAGE HELLER TO THE STATE OF

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

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> Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786 : 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
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TC-13137

ULR: TC1313725600001444F, TC1313725700001386F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7161_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7161 जारी होने की तिथि/Date of issue 21 Jun, 2025 कोड सं/QR Code : NTH250089686

a) जिसे जारी करना है/Issued To

: JEPPIAAR FURNACE AND STEELS PRIVATE LIMITED

b) पता/Address

158,Kunnavakkam Village, Panruti Post., Kanchipuram,

Kanchipuram, Tamil Nadu, India - 631604

c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.

Letter No.Nil Dated 29.04.2025

d) नमूना मुहरबंद स्थिति/Sample Sealed Status

: Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरणा/Description of Nomenclature

JPR TMT Bar of Nominal size 20mm

g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)

IS 1786 (2008)

h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item

08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests

From: 13 May, 2025

To: 21 Jun, 2025

i) परिमाण/Quantity

6.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any

. Pull-Out Test.

I) अनुभाग कोड/Section Code

: 25CV7022N (Pages:3), 25ME6AECN (Pages:4)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

: 25CV7022N_1, 25ME6AECN_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

: New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

_ 1/07

p) टिप्पणी/Remarks

: Report uploaded

Venkatesh V R OIC SAMPLE CELL Signed on: 21 Jun, 2025 12:19 PM

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TC-13137

ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL IS 1786 (2008)

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Not Applicable
3.	सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	One sample identified as per the test request
5.	व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test	IS 2770(1)
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	No sampling is done
7.	पर्यावरण की स्थिति/Environmental Conditions	IS 2770(1)
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	IS 1786:2008
9.	कैलिब्रेशन स्थल/Site of Calibration	NA NA
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	NA NA

S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:46 AM

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Signature Not Verified smurali@nth.gov.in-(OIC Testing/Calbration)



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TC-13137

ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
HETTON HETTON	5.7	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	Compressive strength of concrete cubes (Avg) after 28 days for 16 to 40 mm	20.0	30.0	MPa	28.0 (MPa)

.

SENTHIL KUMAR M Lab Sc. Testing/Calibration Civil S Murali
OIC Testing/Calibration Civil
(Reviewed & Approved by)
Signed on: 17 Jun, 2025 10:46 AM

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ULR: TC1313725600001444F

Section Report No.: 25CV7022N_1_NABL IS 1786 (2008)

Part D.

REMARKS

Please see the test results

Notes

Nil

S Murali
OIC Testing/Calibration Civil
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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो!
Reference to sampling procedure, wherever applicable.
 परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रप्ति हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और
 Not Applicable

/ अथवा फोटोग्राफ , यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.

3. सम्बध्द मानक / कार्य निर्देशो में निर्धारित परीक्षण पद्धति से विचलन , यदि कोई हो। Not Applicable

Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.

परीक्षण सामग्री की पहचान/identification of Test item

Embossed on each sample of HSD Steel bar of nominal size 20mm as "JPR TMT BARS 550D ISI 20 677573".

5. व्यावद्भत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No.

व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 & IS 2770 (Part 1) : 1967 (Reaffirmed 2022).

6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

7. पर्यावरण की स्थिति/Environmental Conditions Room Temperature 25.2ºC

8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used Universal Testing Machine, 1000kN.

9. वैलिब्रेशन स्थल/Site of Calibration NA

10. मापन का पता लगाने की क्षमता/Traceability of Measurement

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)

(Reviewed & Approved by) Signed on: 21 Jun, 2025 11:47 AM

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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation	
MEI CHOP	5.7	M_Pull out test for 16 to 40 mm	M_Pull out test for 16 to 40 mm_M	-	- Agg	ELION PARI	Please Refer Annexure A	

Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration)
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Section Code: 25ME6AECN ULR: TC1313725700001386F

Annexure - A

Page no.: 1 of 1

Identification Marks: Embossed on the sample of HSD Steel Bar of Nominal Size 20 mm as "JPR TMT BARS 550D ISI 20 677573".

As desired, the sample of "High Strength Deformed Steel Bar of nominal size 20 mm" has been tested as per IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

RESULTS OF TESTS:

Pull out test (Comparative bond strength test as per Cl. 5 of IS 1786:2008). Bond Stress (Average of 3 samples), in N/mm² at 28 days.

SI. No.			rved Values	Requirements of CI. 5 of IS 1786:2008, (RA 2018) Amendment No. 4, July 2019 for Grade Fe 550D
1,210 (d. 2011)	Pull out test. (As per Cl. 5)	Plain bar	HSD steel bar (TMT bar)	St. 18 M. Million Black and Market
1.1	Bond Stress at 0.025 mm slip. i. Bond Stress, N/mm²	4.28	7.82	Charles and the state of the st
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	67/	83	Bond Stress of deformed bar shall exceed minimum 40% against corresponding plain bar.
1.2	Bond Stress at 0.25 mm slip. i. Bond Stress, N/mm²	5.25	10.61	STONAL LES ST. CO. LOUSE SE SELECTION
	ii. Percentage increase in Bond Stress of deformed bar against corresponding plain bar, %.	Eller Erel	102	Bond Stress of deformed bar shall exceed minimum 80% against corresponding plain bar.
1.3	Bond Stress at Ultimate Failure. Bond Stress, N/mm²	5.74	10.99	HERITAGE HELLER TO THE STATE OF

Note: NA.

Remark: In respect of "Pull out Test" carried out, the sample meets the requirements of IS 1786:2008 (Reaffirmed 2018) Amendment No. 4, July 2019 for Grade Fe 550D.

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> Annam Ashok Lab Sc. Testing/Calibration Mechanical (Testing/Calibration)

K P Elangovan OIC Testing/Calibration Mechanical (Testing/Calibration) (Reviewed & Approved by)



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TC-13137

ULR: TC1313725700001386F

Section Report No.: 25ME6AECN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of "Pull Out Test" carried out, the sample meets the requirements of IS 1786 : 2008 (Reaffirmed 2018), Amendment No. 4, July 2019 for Grade Fe 550D.

Notes

Disclaimer: 1. The information / data provided by the customer is clearly identified in the Test Report. The laboratory is not responsible for the information / data provided by the customer. 2. Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

K P Elangovan
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