

National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

.......

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NTH(SR)/M(L)/25/7155_1

एस आर एफ. संख्या/SRF Number:

जारी होने की तिथि/Date of issue

कोड सं/OR Code

NTH(SR)/M(L)/25/7155

14 May, 2025

.....

: NTH250089670

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 मृहरबंद स्थिति/Sample Sealed Status

Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 8mm

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

IS 1786 (2008) - High strength deformed steel bars and wires for

concretere inforcement - Specification (Fourth Revision)

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

08 May, 2025

To: 14 May, 2025

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

j) परिमाण/Quantity

3.0 nos

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

Information / Expiry Date, If any

Physical and Chemical Test.

From: 09 May, 2025

I) अनुभाग कोड/Section Code

25CH98A1N (Pages:6), 25ME940EN (Pages:3)

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CH98A1N_1, 25ME940EN_1

n) प्रमाणपत्र का प्रकार/Certificate Type

New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D **OIC SAMPLE CELL** Signed on: 14 May, 2025 18:07 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Verified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration lates only to the sample/ items submitted. (SampleCell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





COMPLETE TEST CERTIFICATE

TC-13137

......

ULR: TC1313725700001287F, TC1313725500001571F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

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)/25/7155_1 NTH(SR)/M(L)/25/7155 14 May, 2025 : NTH250089670

a) जिसे जारी करना है/Issued To

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: 09 May, 2025 To: 14 May, 2025

j) परिमाण/Quantity : 3.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other : Physical and Chemical Test. Information / Expiry Date, If any

I) अनुभाग कोड/Section Code : 25CH98A1N (Pages:6), 25ME940EN (Pages:3) NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No. : 25CH98A1N 1, 25ME940EN 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type : New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No. :

p) टिप्पणी/**Remarks** : Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:07 PM

Signature Not Verified
1. The second Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an antu-cd on the governor of the continuous continuous

This is a Computer Generated Report.

End of Report



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001287F

Section Report No.: 25ME940EN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

नमना लेने की प्रक्रिया का संदर्भ, जहां लाग हो! Reference to sampling procedure, wherever applicable. Not 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.

Not Applicable

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

परीक्षण सामग्री की पहचान/identification of Test item

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

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

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.

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

7. पर्यावरण की स्थिति/Environmental Conditions Room Temperature 26.1ºC

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

Universal Testing Machine, 1000kN.

9. कैलिब्रेशन स्थल/Site of Calibration

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

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

(Reviewed & Approved by) Signed on: 14 May, 2025 12:51 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001287F

Section Report No.: 25ME940EN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| NABL C. TEST | RESULI | | | | | | |
|------------------|----------------------------------|--|---|--------------|--|-----------|--|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NET NETTON | 9.2 (4) | Tensile Strength (up to 12 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | , Huy, | N/ mm² | 717.5 |
| 2 | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm ² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | | N/ mm² | 632.9 |
| 3 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | or allell | <u>-</u> | 1.13 |
| 4 | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Sign Sign | % | 15.4 |
| 5 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 0.363 | T. Sir | kg/m | 0.384 |
| 6 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | ER HOL | ioner er | Agir S | No rupture or cracks visible on bent portion. |
| LEGINOUS CONTROL | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | LE HOUSE | % | 10 |
| 8 15 | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | MATH | on on the contract of the cont | LES Y | No rupture or cracks visible on rebent portion |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 12:51 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001287F

Section Report No.: 25ME940EN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 12:51 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001571F

Section Report No.: 25CH98A1N_1_NABL IS 1786 (2008)

| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 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 stated as "JPR TMT Bar of Nominal size 8mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | Strict Been and a series of the series of th |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | A Company of the Comp |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. 4 | कैलिब्रेशन स्थल/Site of Calibration | St. |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement | the time state that the same |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001571F

Section Report No.: 25CH98A1N 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 NATION | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | | 0.25 | perce nt by mass | 0.19 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | an and | 0.04 | perce nt by mass | 0.017 |
| ATTEN 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | Stringstern and | 0.04 | perce nt by mass | 0.017 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001571F

Section Report No.: 25CH98A1N_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



Section Certificate No.: 25CH98A1N_1 IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

मापन का पता लगाने की क्षमता/Traceability of Measurement

| 1.A.L | 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। | Not Applicable |
| | Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certificate, 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. | Not Applicable |
| 4. | परीक्षण सामग्री की पहचान/identification of Test item | One sample stated as "JPR TMT Bar of Nominal size 8mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | THE STATE OF |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | Elic Hell The Market |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | C. Strict Elegant Hamilet |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



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



Section Report No.: 25CH98A1N_1

IS 1786 (2008)

PART C. TEST RESULT

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|------------|----------------------------------|---|--|--------------|--------------|-------------------------|------------------------|
| TION THE | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | HATT | 0.61 | perce nt by mass. | 0.36 |
| NI NE ZONO | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>-</u> | 0.075 | perce nt by mass | 0.034 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



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

National Test House (SR), Chennai

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



Section Certificate No.: 25CH98A1N_1 IS 1786 (2008)

N 16 10 16 18 20 8

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 17:59 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

.......

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/OR Code

NTH(SR)/M(L)/25/7164_1

NTH(SR)/M(L)/25/7164

14 May, 2025

.....

: NTH250089671

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 मृहरबंद स्थिति/Sample Sealed Status

Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 10mm

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

IS 1786 (2008) - High strength deformed steel bars and wires for

concretere inforcement - Specification (Fourth Revision)

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

08 May, 2025

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

From: 09 May, 2025

To: 14 May, 2025

j) परिमाण/Quantity

Tests

3.0 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.

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

25CHC31DN (Pages:6), 25MEBE1CN (Pages:3)

25CHC31DN_1, 25MEBE1CN_1

n) प्रमाणपत्र का प्रकार/Certificate Type

New

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D **OIC SAMPLE CELL** Signed on: 14 May, 2025 18:08 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Verified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration lates only to the sample/ items submitted. (SampleCell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001288F, TC1313725500001572F

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)/25/7164_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7164

जारी होने की तिथि/Date of issue 14 May, 2025

कोड सं/QR Code : NTH250089671

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: 09 May, 2025 To: 14 May, 2025

j) परिमाण/Quantity

3.0 nos

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

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

: 25CHC31DN (Pages:6), 25MEBE1CN (Pages:3) NABL

The Les Mr. W. T.

25CHC31DN 1, 25MEBE1CN 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

Now

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

0.45

p) टिप्पणी/Remarks

: Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:08 PM

Signature Not Verified
1. The second Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an antu-cd on the governor of the continuous continuous

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001288F

Section Report No.: 25MEBE1CN_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

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

Not 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. Not Applicable

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.

Not Applicable

4. परीक्षण सामग्री की पहचान/identification of Test item

Embossed on each sample of HSD Steel bar of nominal size 10mm as "JPR TMT BARS 550D ISI 10 677573".

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

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.

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

NA NA

7. पर्यावरण की स्थिति/Environmental Conditions

Room Temperature 26.1ºC

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

Universal Testing Machine, 1000kN.

9. कैलिब्रेशन स्थल/Site of Calibration

NA

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

NA

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

(Reviewed & Approved by) Signed on: 14 May, 2025 12:56 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001288F

Section Report No.: 25MEBE1CN 1 NABL

t-----

IS 1786 (2008)

NABL C. TEST RESULT

| NADE C. 1231 | INESOLI | | | | | | |
|---------------|----------------------------------|--|---|--------------|--------------|-----------|--|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NATION NATION | 9.2 (4) | Tensile Strength (up to 12 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | HE | N/ mm² | 699.3 |
| 2 | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm ² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | | N/ mm² | 587.5 |
| 3 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | I III | - | 1.19 |
| 4 | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Street Pro | % | 18.1 |
| 5 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 0.568 | THE STATE OF | kg/m | 0.588 |
| 6 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | EL HO | ioner er | AN THE | No rupture or cracks visible on bent portion |
| HOU THE | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | LET HOLD | % | 8.2 |
| 8 45 | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | MATI | Thomas . | TES TEST | No rupture or cracks visible on rebent portion |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 12:56 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001288F

Section Report No.: 25MEBE1CN_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 12:56 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001572F

Section Report No.: 25CHC31DN 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 Stated as "JPR TMT Bar of Nominal size 10mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | C. Start Stage Water West |
| 7 . | पर्यावरण की स्थिति/Environmental Conditions | Alt River and Aller |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | S. Pr. Mar. State, Mar. Williams |
| 10 | मापन का पता लगाने की क्षमता/Traceability of Measurement | ion the state state state in |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001572F

Section Report No.: 25CHC31DN 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 |
|------------|----------------------------------|---|--|--------------|--------------|------------------------|------------------------|
| HET HETTON | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | <u> </u> | 0.25 | perce nt by mass | 0.22 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | ATT THE | 0.04 | perce nt by mass | 0.015 |
| 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | String Hall | 0.04 | perce nt by mass | 0.022 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001572F

Section Report No.: 25CHC31DN_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



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



Section Certificate No.: 25CHC31DN 1 IS 1786 (2008)

| 1.2 | 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 certificate, 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 Stated as "JPR TMT Bar of Nominal size 10mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | THE THE THE |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | THE STATE STATE AS A STATE OF THE STATE OF T |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | The State State of the little of the state o |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement | The State State of the West |

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



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



Section Report No.: 25CHC31DN 1

IS 1786 (2008)

| PART | C. | TEST | RESULT | |
|------|----|------|--------|--|
| | | | | |

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|----------|----------------------------------|---|--|--------------|--------------|-------------------------|------------------------|
| TION THE | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | HATT | 0.61 | perce nt by mass. | 0.50 |
| NIP 2010 | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>.</u> | 0.075 | perce nt by mass | 0.037 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



Section Certificate No.: 25CHC31DN 1 IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

> Veerapandian Sivanandham
> OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:02 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

.......

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NTH(SR)/M(L)/25/7153_1

एस आर एफ. संख्या/SRF Number:

जारी होने की तिथि/Date of issue

कोड सं/OR Code

NTH(SR)/M(L)/25/7153

14 May, 2025

.....

: NTH250089673

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 मृहरबंद स्थिति/Sample Sealed Status

Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 12mm

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

IS 1786 (2008) - High strength deformed steel bars and wires for

concretere inforcement - Specification (Fourth Revision)

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

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

08 May, 2025

From: 09 May, 2025

To: 14 May, 2025

Tests

3.0 nos

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

j) परिमाण/Quantity

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

25CHFB6AN (Pages:6), 25MEF66AN (Pages:3)

Information / Expiry Date, If any

25CHFB6AN_1, 25MEF66AN_1

n) प्रमाणपत्र का प्रकार/Certificate Type

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

New

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D **OIC SAMPLE CELL** Signed on: 14 May, 2025 18:09 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Verified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration lates only to the sample/ items submitted. (SampleCell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001289F, TC1313725500001573F

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)/25/7153_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7153 जारी होने की तिथि/Date of issue 14 May, 2025

कोड सं/QR Code : NTH250089673

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: 09 May, 2025 To: 14 May, 2025

j) परिमाण/Quantity

3.0 nos

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

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

25CHFB6AN (Pages:6), 25MEF66AN (Pages:3)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CHFB6AN 1, 25MEF66AN 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

Now

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

4

p) टिप्पणी/Remarks

: Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:09 PM

Signature Not Verified
1. The second Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an antu-cd on the governor of the continuous continuous

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001289F

Section Report No.: 25MEF66AN_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.
2. परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रपि हेत सहायक प्रलेख जैसे ग्राफ तालिका कित्र और

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.

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".

6//5/3".

IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.

NA NA

Room Temperature 26.1ºC

Universal Testing Machine, 1000kN.

NA NA

NA

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

(Reviewed & Approved by) Signed on: 14 May, 2025 13:05 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001289F

Section Report No.: 25MEF66AN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| NADL C. 1E3 | I KESULI | | | | | | |
|--------------|----------------------------------|--|---|--------------|--------------|-----------|--|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NET NETTON | 9.2 (4) | Tensile Strength (up to 12 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | HU | N/ mm² | 725.2 |
| 2 | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | | N/ mm² | 631.5 |
| ATTEN 3 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | AL ALEI | - | 1.15 |
| 4 | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Tring the | % | 14.8 |
| 5 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 0.835 | To Tale | kg/m | 0.859 |
| 6 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | EL HO | ioner er | ANT ANT A | No rupture or cracks visible on bent portion |
| HOLEST HOUSE | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | EST HOLD | % | 7.5 |
| 8 | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | MATIN | OTIONALLY | TEST | No rupture or cracks visible on rebent portion. |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 13:05 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001289F

Section Report No.: 25MEF66AN 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 13:05 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001573F

Section Report No.: 25CHFB6AN 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 Stated as "JPR TMT Bar of Nominal size 12mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | C. Sept. State Sta |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | The Alter Additional of the Control |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. 🛆 | कैलिब्रेशन स्थल/Site of Calibration | S. P. Sept May Harry Sept. 11 July 1881 |
| 10 | मापन का पना लगाने की शमना/Traceability of Measurement | O' at all out the way to |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001573F

Section Report No.: 25CHFB6AN 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| AV 2V | Z*9F*********************************** | | | | | | |
|------------|---|---|--|--------------|--------------|------------------------|------------------------|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NET NATION | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | <u>-</u> | 0.25 | perce nt by mass | 0.20 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | ATT THE | 0.04 | perce nt by mass | 0.021 |
| 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | String Table | 0.04 | perce nt by mass | 0.025 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001573F

Section Report No.: 25CHFB6AN_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



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



Section Certificate No.: 25CHFB6AN 1 IS 1786 (2008)

| 1,5 | 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 certificate, if any. | Not Applicable |
| 3. | र 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 Stated as "JPR TMT Bar of Nominal size 12mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | Elegan de la companya |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | THE STATE OF THE S |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | AND SERVED SERVED AND AND AND AND AND AND AND AND AND AN |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement | Agri Mar Mar Mar Mar Mar |

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



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



Section Report No.: 25CHFB6AN 1

IS 1786 (2008)

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|--------|----------------------------------|---------------------------------------|--|--------------|--------------|-------------------------|------------------------|
| TION 1 | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | Harry | 0.61 | perce nt by mass. | 0.45 |
| 2 2 01 | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>-</u> | 0.075 | perce nt by mass | 0.046 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



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

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



Section Certificate No.: 25CHFB6AN 1 IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

> Veerapandian Sivanandham
> OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:05 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NTH(SR)/M(L)/25/7165_1

एस आर एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7165

जारी होने की तिथि/Date of issue 14 May, 2025

कोड सं/OR Code : NTH250089675

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 मृहरबंद स्थिति/Sample Sealed Status

Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 16mm

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

IS 1786 (2008) - High strength deformed steel bars and wires for

concretere inforcement - Specification (Fourth Revision)

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

08 May, 2025

To: 14 May, 2025

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

3.0 nos

j) परिमाण/Quantity

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

Physical and Chemical Test.

From: 09 May, 2025

I) अनुभाग कोड/Section Code

25CH24A0N (Pages:6), 25ME1ED9N (Pages:3)

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CH24A0N_1, 25ME1ED9N_1

n) प्रमाणपत्र का प्रकार/Certificate Type

New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D **OIC SAMPLE CELL** Signed on: 14 May, 2025 18:13 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Verified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration lates only to the sample/ items submitted. (SampleCell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001292F, TC1313725500001574F

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)/25/7165_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7165 जारी होने की तिथि/Date of issue 14 May, 2025

कोड सं/QR Code : NTH250089675

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: 09 May, 2025 To: 14 May, 2025

i) परिमाण/Quantity

3.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any Physical and Chemical Test.

I) अनुभाग कोड/Section Code

: 25CH24A0N (Pages:6), 25ME1ED9N (Pages:3) NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

25CH24A0N 1, 25ME1ED9N 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

Now

2 10

p) टिप्पणी/Remarks

: Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:13 PM

Signature Not Verified
1. The second Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an antu-cd on the governor of the continuous continuous

This is a Computer Generated Report.

End of Report



National Test House (SR), Chennai

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





Not Applicable

TC-13137

ULR: TC1313725700001292F

Section Report No.: 25ME1ED9N_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 प्रपि हेत सहायक प्रलेख जैसे ग्राफ तालिका चित्र और

परीक्षण रिपोर्ट् से संबंधित मापून 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 16mm as "JPR TMT BARS 550D ISI 16

677573". अव्यावद्रत की प्राणाली की पहचान/Method(s) used for Test IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4,

July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.

नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant
 पर्यावरण की स्थिति/Environmental Conditions
 Room Temperature 26.1ºC

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

9. कैलिब्रेशन स्थल/Site of Calibration

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

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

(Reviewed & Approved by) Signed on: 14 May, 2025 14:43 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001292F

Section Report No.: 25ME1ED9N 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| NADL C. 1E3 | KESULI | | | | | | |
|---|----------------------------------|--|---|--------------|-------------------|-------------------|--|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NET HETTOR | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm ² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | Hay | N/ mm² | 602.1 |
| 2 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | - | dy. | 1.14 |
| 3 | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Ash and | % | 15.0 |
| 4 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 1.49 | MI TELE | kg/m | 1.52 |
| Fit 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | Jee J | A STATE | A ARIGHAY Also | No rupture or cracks visible on bent portion. |
| 6 | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | st horse Honse | % | THE STATE OF THE PARTY OF THE P |
| 7,00 | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | ONATIONALT | TEST | KHONER | No rupture or cracks visible on rebent portion. |
| Charles & San February | 9.2 (5) | Tensile Strength (16 to 28 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | TIONAL T | N/ mm² | 684.2 |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 14:43 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001292F

Section Report No.: 25ME1ED9N_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 14:43 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001574F

Section Report No.: 25CH24A0N 1 NABL IS 1786 (2008)

| 1. N | 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 Stated as "JPR TMT Bar of Nominal size 16mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | Start Referration of |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | The River of the Party of the P |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | AL THE THE WAY WELL TO THE |
| 10 | मापन का पना लगाने की शमना/Traceability of Measurement | |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001574F

Section Report No.: 25CH24A0N 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 |
|---------------|----------------------------------|---|--|---|--------------|------------------------|------------------------|
| , Hall Hallow | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | - - | 0.25 | perce nt by mass | 0.16 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | ar arei | 0.04 | perce nt by mass | 0.012 |
| ATTEN 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | Stirt de la | 0.04 | perce nt by mass | 0.017 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001574F

Section Report No. : 25CH24A0N_1_NABLIS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



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



Section Certificate No.: 25CH24A0N 1 IS 1786 (2008)

मापन का पता लगाने की क्षमता/Traceability of Measurement

| 1. ² | 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 certificate, 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 Stated as "JPR TMT Bar of Nominal size 16mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | etrizii ilei |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | te status stilet v |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | String Step, Hall Toll |

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



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



Section Report No.: 25CH24A0N 1

IS 1786 (2008)

| PART (| C. TE | ST R | ESUL | T |
|--------|-------|------|------|---|
|--------|-------|------|------|---|

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|----------------------|----------------------------------|---|--|--------------|--------------|-------------------------|------------------------|
| TION 1 | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | -4121, | 0.61 | perce nt by mass. | 0.35 |
| NAME OF THE PARTY OF | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>-</u> | 0.075 | perce nt by mass | 0.029 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



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

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



Section Certificate No.: 25CH24A0N 1 IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

> Veerapandian Sivanandham
> OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:07 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NTH(SR)/M(L)/25/7154_1

एस आर एफ. संख्या/SRF Number:

जारी होने की तिथि/Date of issue

कोड सं/OR Code

NTH(SR)/M(L)/25/7154

14 May, 2025

......

: NTH250089676

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 मृहरबंद स्थिति/Sample Sealed Status

Not Sealed

e) परीक्षण सामग्री का विवरण/Description of Test item

JPR TMT Fe 550D Grade

f) नामपद्धति का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 20mm

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

any)

From: 09 May, 2025

IS 1786 (2008) - High strength deformed steel bars and wires for concretere inforcement - Specification (Fourth Revision)

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

08 May, 2025

To: 14 May, 2025

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

j) परिमाण/Quantity

3.0 nos

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

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

25CH4E05N (Pages:6), 25ME48F5N (Pages:3)

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

25CH4E05N_1, 25ME48F5N_1

n) प्रमाणपत्र का प्रकार/Certificate Type

New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D **OIC SAMPLE CELL** Signed on: 14 May, 2025 18:14 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Verified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration hates only to the sample/ items submitted. (SampleCell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001290F, TC1313725500001575F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

L. Vin The

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NABL/NTH(SR)/M(L)/25/7154_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7154 जारी होने की तिथि/Date of issue 14 May, 2025

कोड सं/QR Code : NTH250089676

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: 09 May, 2025 To: 14 May, 2025

i) परिमाण/Quantity

3.0 nos

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

6

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

25CH4E05N (Pages:6), 25ME48F5N (Pages:3) NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

25CH4E05N 1, 25ME48F5N 1 NABL

n) प्रमाणपत्र का प्रकार/Certificate Type

Now

- 08°

p) टिप्पणी/Remarks

: Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:14 PM

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

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001290F

Section Report No.: 25ME48F5N_1_NABL IS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

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

Not Applicable

Not 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.
- Not Applicable
- 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

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

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

- IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.
- 6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

NA NA

7. पर्यावरण की स्थिति/Environmental Conditions

Room Temperature 26.1ºC

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

Universal Testing Machine, 1000kN.

9. कैलिब्रेशन स्थल/Site of Calibration

NA NA

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

NA

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

(Reviewed & Approved by) Signed on: 14 May, 2025 13:19 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001290F

Section Report No.: 25ME48F5N 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| NABL C. TEST | RESULI | | | | | | |
|---------------|----------------------------------|--|---|--------------|---------------------|-----------|---|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NATION NATION | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm ² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | HE | N/ mm² | 601.9 |
| 2 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | - | Apr. | 1.14 |
| | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Terral and a | % | 17.6 |
| 4 d 2 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 2.37 | H. L. Ele | kg/m | 2.42 |
| 5 200 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | Jek W | ANT ANT | A ARAGAN | No rupture or cracks visible on bent portion. |
| 6 | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | st tolist solist | % | 9.5 |
| FELL STON | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | ONIONAL T | TEST | KHOUSE | No rupture or cracks visible on rebent portion. |
| 8 | 9.2 (5) | Tensile Strength (16 to 28 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | TIONAL T | N/ mm² | 685 |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 13:19 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001290F

Section Report No.: 25ME48F5N 1 NABL

IS 1786 (2008)

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 13:19 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001575F

Section Report No.: 25CH4E05N 1 NABL IS 1786 (2008)

| 1. N | 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 Stated as "JPR TMT Bar of Nominal size 20mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | Start Referration of |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | The River of the Party of the P |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | AL THE THE WAY WELL TO THE |
| 10 | मापन का पता लगाने की शमता/Traceability of Measurement | |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001575F

Section Report No.: 25CH4E05N 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 NATION | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | <u>-</u> | 0.25 | perce nt by mass | 0.19 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | ATT THE | 0.04 | perce nt by mass | 0.022 |
| 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | String right | 0.04 | perce nt by mass | 0.018 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001575F

Section Report No.: 25CH4E05N_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



Section Certificate No.: 25CH4E05N_1 IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

मापन का पता लगाने की क्षमता/Traceability of Measurement

| Ç, | ļ. ^{p.} | नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो! Reference to sampling procedure, wherever applicable. | Not Applicable |
|------------|------------------|---|--|
| NAP. | PIOT | 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 certificate, if any. | Not Applicable |
| 3 | 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 |
| S 4 | 1. | परीक्षण सामग्री की पहचान/identification of Test item | One sample Stated as "JPR TMT Bar of Nominal size 20mm" |
| Ø. | 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| _ | 5. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | The state of the s |
| TO . | 7. | पर्यावरण की स्थिति/Environmental Conditions | d different with the state of t |
| 8 | 3. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| × | 9. | कैलिब्रेशन स्थल/Site of Calibration | AND SELECT STATE OF THE SELECT SERVICES |
| | | | |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



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



Section Report No.: 25CH4E05N 1

IS 1786 (2008)

| PART | C. | TEST | RESULT | |
|------|----|------|--------|--|
| | | | | |

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|-----------|----------------------------------|---------------------------------------|--|--------------|--------------|-------------------------|------------------------|
| TION 1.1. | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | - Hall | 0.61 | perce nt by mass. | 0.38 |
| NIP 2 | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>-</u> | 0.075 | perce nt by mass | 0.040 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



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

National Test House (SR), Chennai

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



Section Certificate No.: 25CH4E05N_1 IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:10 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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



PART A. PARTICULARS OF SAMPLE SUBMITTED

.......

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No: NTH(SR)/M(L)/25/7172_1

एस.आर.एफ. संख्या/SRF Number: NTH(SR)/M(L)/25/7172 जारी होने की तिथि/Date of issue 14 May, 2025 कोड सं/QR Code : NTH250089677

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) नामपद्धित का विवरण/Description of Nomenclature

JPR TMT Bar of Nominal size 25mm

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

IS 1786 (2008)

any)

IS 1786 (2008) - High strength deformed steel bars and wires for concretere inforcement - Specification (Fourth Revision)

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

. 08 May, 2025

i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests J. 187 169 1

70

From: 09 May, 2025 To: 14 May, 2025

j) परिमाण/Quantity

: 3.0 nos

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

Physical and Chemical Test.

I) अनुभाग कोड/Section Code

: 25CH7E87N (Pages:6), 25ME7981N (Pages:3)

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

: 25CH7E87N_1, 25ME7981N_1

n) प्रमाणपत्र का प्रकार/Certificate Type

: New

Sho

p) टिप्पणी/Remarks

Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:15 PM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an Signature Nots Varified been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration antucchie in the sample items submitted. (Sample Cell)

This is a Computer Generated Report.



National Test House (SR), Chennai

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





COMPLETE TEST CERTIFICATE

TC-13137

ULR: TC1313725700001291F, TC1313725500001576F

NABL A. PARTICULARS OF SAMPLE SUBMITTED

भाग 'अ' जमा किये गये नमूने का विवरण

EARLS OF SAMELE SOBIMITIES

The state of the s

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)/25/7172 1 NTH(SR)/M(L)/25/7172 1 14 May, 2025 : NTH250089677

a) जिसे जारी करना है/Issued To

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) नामपद्धित का विवरणा/Description of Nomenclature : JPR TMT Bar of Nominal size 25mm

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: 09 May, 2025 To: 14 May, 2025

j) परिमाण/Quantity : 3.0 nos

k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other . Physical and Chemical Test.

Information / Expiry Date, If any

I) अनुभाग कोड/Section Code : 25CH7E87N (Pages:6), 25ME7981N (Pages:3)_NABL

m) अनुभव प्रमाणपत्र संख्या/Section Certificate No. 25CH7E87N_1, 25ME7981N_1_NABL

n) प्रमाणपत्र का प्रकार/Certificate Type : New

o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.

p) टिप्पणी/**Remarks** : Test Report Uploaded.

Antu C D OIC SAMPLE CELL Signed on: 14 May, 2025 18:15 PM

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

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001291F

Section Report No. : 25ME7981N_1_NABLIS 1786 (2008)

NABL B. SUPPLEMENTARY INFORMATION

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

Not 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. Not Applicable

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.

Not Applicable

4. परीक्षण सामग्री की पहचान/identification of Test item

Embossed on each sample of HSD Steel bar of nominal size 25mm as "JPR TMT BARS 550D ISI 25 677573".

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

- IS 1786: 2008 (Reaffirmed 2018), Amendment No. 4, July 2019, IS 1608 (Part 1):2022 & IS 1599:2023.
- 6. नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant

_ NA

7. पर्यावरण की स्थिति/Environmental Conditions

Room Temperature 26.1ºC

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

Universal Testing Machine, 1000kN.

9. कैलिब्रेशन स्थल/Site of Calibration

NA

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

NA

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

(Reviewed & Approved by) Signed on: 14 May, 2025 13:30 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725700001291F

Section Report No.: 25ME7981N 1 NABL

IS 1786 (2008)

NABL C. TEST RESULT

| NADL C. TEST | KESULI | | | | | | |
|--------------|----------------------------------|--|---|--------------|--|---------------------|---|
| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
| NP1 NATION | 9.2 | Yield Stress/ 0.2 % Proof Stress. N/mm ² IS 1608 (Part 1): 2022. | Mechanical Test | 550.0 | Hali | N/ mm² | 616.1 |
| 2 | 9.2 (1) | TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022). | Tensile Test | 1.08 | - | dig. | 1.20 |
| 3 | 9.2 (2) | Elongation Percent on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 14.5 | Sept The | % | 17.4 |
| 4 | 7.2 | Mass per metre run, kg/m - IS 1786: 2008 | Mass per metre run | 3.7 | KI TETE | kg/m | 3.81 |
| 5.20 | 9.3 | Bend test - IS 1599: 2023. | Bend Test to 180 degree bend | Jee W | A STATE OF THE STA | A PERSONAL SERVICES | No rupture or cracks visible on bent portion. |
| 6 | 9.2 (3) | Total Elongation at Maximum Force on gauge length of 5.65 Square Root of Crosss- Sectional Area, % - IS 1608 (Part 1): 2022. | Mechanical Test | 5.0 | st kolist strolist | % | 8.2 |
| FEST 7,100 | 9.4 | Rebend test (0 - 28 mm) - IS 1786: 2008 | Rebend test to 135 / 157.5 degree bend | ONA TONAL | TEST | KHOUSE | No rupture or cracks visible on rebent portion. |
| Service 8 | 9.2 (5) | Tensile Strength (16 to 28 mm), N/mm² - IS 1608 (Part 1): 2022. | Tensile Test | 600.0 | TICHAL T | N/ mm² | 737.7 |

Projjwal Banerjee Lab Sc. Testing/Calibration Mechanical (Testing/ Calibration)

K P Elangovan
OIC Testing/Calibration Mechanical (Testing/Calibration)
(Reviewed & Approved by)
Signed on: 14 May, 2025 13:30 PM

This is a Computer Generated Report.

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



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725700001291F

IS 1786 (2008)

Section Report No.: 25ME7981N_1_NABL

Part D.

REMARKS

In respect of tests 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: 14 May, 2025 13:30 PM

This is a Computer Generated Report.

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



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





TC-13137

ULR: TC1313725500001576F

Section Report No.: 25CH7E87N 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 Stated as "JPR TMT Bar of Nominal size 25mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | A State and an inter- |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | Ett Little State Tile. |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. 🛆 | कैलिब्रेशन स्थल/Site of Calibration | to the state of th |
| 10 | मापन का पता लगाने की शमता/Traceability of Measurement | at the set the set of |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.



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





TC-13137

ULR: TC1313725500001576F

Section Report No.: 25CH7E87N 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 NATION | 4.2 (2) | Carbon, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | | 0.25 | perce nt by mass | 0.22 |
| 2 | 4.2 (3) | Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | ATT THE THE | 0.04 | perce nt by mass | 0.013 |
| 3 | 4.2 (4) | Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998). | Chemical Composition, % by mass. | State of the State of | 0.04 | perce nt by mass | 0.017 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard,

Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.



National Test House (SR), Chennai

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





TC-13137

ULR: TC1313725500001576F

Section Report No.: 25CH7E87N_1_NABL IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.



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



IS 1786 (2008) Section Certificate No.: 25CH7E87N_1

| 1.2 | 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 certificate, 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 Stated as "JPR TMT Bar of Nominal size 25mm" |
| 5. | व्यावद्रत की प्राणाली की पहचान/Method(s) used for Test | On the lines of IS 8811 |
| 6. | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant | Star, at all life have still a |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | THE STATE OF THE S |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | AND SHIPE SHIPE HAND TO |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement | The State State of the West of the State of |

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
(Reviewed & Approved by)
Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.



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



Section Report No.: 25CH7E87N 1

IS 1786 (2008)

PART C. TEST RESULT

| S.No. | Clause No Table No. Sl. No | Parameter - Method of test | Test Description | Min Limit | Max Limit | Unit | Result/ Observation |
|-------------|----------------------------------|---|--|--------------|--------------|-------------------------|------------------------|
| TION THE | 4.2 (1) | Carbon Equivalent (CE), , % by mass. | Chemical Composition, % by mass. | HATT | 0.61 | perce nt by mass. | 0.43 |
| NI PER STOR | 4.2 (5) | Sulphur+ Phosphorus, % by mass. | Chemical Composition, % by mass. | <u>.</u> | 0.075 | perce nt by mass | 0.030 |

SOUMIK DHAR Lab Sc. Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)

(Reviewed & Approved by)
Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.



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

National Test House (SR), Chennai

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



Section Certificate No.: 25CH7E87N_1 IS 1786 (2008)

Part D.

REMARKS

In respect of tests carried out, the sample meets the chemical requirements of IS 1786: 2008 (RA 2018), read with amendment no.4, July2019 specification for High Strength Deformed Steel Bars and Wires for Concrete Reinforcement for Fe 550D grade.

Notes

(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)Disclaimer: Conformity statement is based on the limiting values of the product specification of the tested parameters without considering the Measurement Uncertainty.

Veerapandian Sivanandham OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel) (Reviewed & Approved by) Signed on: 14 May, 2025 18:13 PM

This is a Computer Generated Report.