



COMPLETE TEST CERTIFICATE

कोड सं/QR Code
: **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 मुहरबंद 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 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.
l) 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

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001287F, TC1313725500001571F

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)/25/7155_1

एस.आर.एफ. संख्या/SRF Number:
NTH(SR)/M(L)/25/7155

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

कोड सं/QR Code
: 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 मुहरबंद 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)
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.
l) 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

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001287F

Section Report No. : 25ME940EN_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 8mm as "JPR TMT BARS 550D ISI 8 677573".
5.	व्यावर्त 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 26.1°C
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 12:51 PM

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



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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001287F

Section Report No. : 25ME940EN_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
1	9.2 (4)	Tensile Strength (up to 12 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/mm ²	717.5
2	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/mm ²	632.9
3	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	15.4
5	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	0.363	-	kg/m	0.384
6	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	No rupture or cracks visible on bent portion.
7	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	-	%	10
8	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	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

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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)

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725500001571F

Section Report No. : 25CH98A1N_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. | Not Applicable |
| 2. | परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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. | सम्बद्ध मानक / कार्य निर्देशों 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. | व्यावृत्त 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 | - |
| 7. | पर्यावरण की स्थिति/Environmental Conditions | - |
| 8. | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. | कैलिब्रेशन स्थल/Site of Calibration | - |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement | - |

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

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Testing/Calibration)



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National Test House (SR), Chennai
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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
1	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.	-	0.04	perce nt by mass	0.017
3	4.2 (4)	Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998).	Chemical Composition, % by mass.	-	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

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Testing/Calibration)



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National Test House (SR), Chennai
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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

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Testing/Calibration)



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National Test House (SR), Chennai
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Tharamani, Chennai - 600113, Tamilnadu



Section Certificate No. : 25CH98A1N_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

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

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Testing/Calibration)



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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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.36
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	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)
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Tharamani, Chennai - 600113, Tamilnadu



Section Certificate No. : 25CH98A1N_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

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National Test House (SR), Chennai
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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)/25/7164_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 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 concrete reinforcement - Specification (Fourth Revision)
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.
l) अनुभाग कोड/Section Code	:	25CHC31DN (Pages:6), 25MEBE1CN (Pages:3)
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CHC31DN_1, 25MEBE1CN_1
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

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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 विवरण/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	:	Physical and Chemical Test.
l) अनुभाग कोड/Section Code	:	25CHC31DN (Pages:6), 25MEBE1CN (Pages:3)_NABL
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CHC31DN_1, 25MEBE1CN_1_NABL
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001288F

Section Report No. : 25MEBE1CN_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 10mm as "JPR TMT BARS 550D ISI 10 677573".
5.	व्यावर्त 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 26.1°C
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)
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TC-13137



ULR : TC1313725700001288F

Section Report No. : 25MEBE1CN_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
1	9.2 (4)	Tensile Strength (up to 12 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/mm ²	699.3
2	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/mm ²	587.5
3	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	18.1
5	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	0.568	-	kg/m	0.588
6	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	No rupture or cracks visible on bent portion
7	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	-	%	8.2
8	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	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)
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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)

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TC-13137



ULR : TC1313725500001572F

Section Report No. : 25CHC31DN_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. | Not Applicable |
| 2. परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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. सम्बद्ध मानक / कार्य निर्देशों 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. व्यावर्त 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 | - |
| 7. पर्यावरण की स्थिति/Environmental Conditions | - |
| 8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. कैलिब्रेशन स्थल/Site of Calibration | - |
| 10. मापन का पता लगाने की क्षमता/Traceability of Measurement | - |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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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
1	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.	-	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.	-	0.04	perce nt by mass	0.022

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

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OIC Testing/Calibration Chemical (General, Standard,
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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)

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Tharamani, Chennai - 600113, Tamilnadu



Section Certificate No. : 25CHC31DN_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

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

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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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.50
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	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,
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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.

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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:
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 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 concrete reinforcement - Specification (Fourth Revision)
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.
l) अनुभाग कोड/Section Code	:	25CHFB6AN (Pages:6), 25MEF66AN (Pages:3)
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CHFB6AN_1, 25MEF66AN_1
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

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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 विवरण/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.
l) 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	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

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

Signature Not Verified

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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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 12mm as "JPR TMT BARS 550D ISI 12 677573".
5.	व्यावर्त 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 26.1°C
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 13:05 PM

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kpelangovan@nth.go
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Testing/Calibration)



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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001289F

Section Report No. : 25MEF66AN_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
1	9.2 (4)	Tensile Strength (up to 12 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/mm ²	725.2
2	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/mm ²	631.5
3	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	14.8
5	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	0.835	-	kg/m	0.859
6	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	No rupture or cracks visible on bent portion
7	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	-	%	7.5
8	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	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)
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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)

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TC-13137



ULR : TC1313725500001573F

Section Report No. : 25CHFB6AN_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावृत्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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TC-13137



ULR : TC1313725500001573F

Section Report No. : 25CHFB6AN_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
1	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	0.20
2	4.2 (3)	Sulphur, % by mass (As per ASTM E 415-21/ IS 8811: 1998).	Chemical Composition, % by mass.	-	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.	-	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)

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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)

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Tharamani, Chennai - 600113, Tamilnadu



Section Certificate No. : 25CHFB6AN_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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Section Report No. : 25CHFB6AN_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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.45
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	0.075	perce nt by mass	0.046

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

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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.

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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/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 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 concrete reinforcement - Specification (Fourth Revision)
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.
l) 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.

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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 विवरण/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
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.
l) अनुभाग कोड/Section Code	:	25CH24A0N (Pages:6), 25ME1ED9N (Pages:3)_NABL
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CH24A0N_1, 25ME1ED9N_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 18:13 PM

Signature Not Verified

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

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001292F

Section Report No. : 25ME1ED9N_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 16mm as "JPR TMT BARS 550D ISI 16 677573".
5.	व्यावर्त 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 26.1°C
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 14:43 PM

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



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TC-13137



ULR : TC1313725700001292F

Section Report No. : 25ME1ED9N_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
1	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/ mm ²	602.1
2	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	15.0
4	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	1.49	-	kg/m	1.52
5	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	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	-	%	7
7	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	No rupture or cracks visible on rebent portion.
8	9.2 (5)	Tensile Strength (16 to 28 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/ mm ²	684.2

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

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

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TC-13137



ULR : TC1313725500001574F

Section Report No. : 25CH24A0N_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावृत्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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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
1	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.	-	0.04	perce nt by mass	0.012
3	4.2 (4)	Phosphorus, % by mass (As per ASTM E 415-21/ IS 8811: 1998).	Chemical Composition, % by mass.	-	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)

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TC-13137



ULR : TC1313725500001574F

Section Report No. : 25CH24A0N_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)

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Tharamani, Chennai - 600113, Tamilnadu



Section Certificate No. : 25CH24A0N_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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Section Report No. : 25CH24A0N_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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.35
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	0.075	perce nt by mass	0.029

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

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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.

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COMPLETE TEST CERTIFICATE

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 विवरण/Description of Nomenclature	:	JPR TMT Bar of Nominal size 20mm
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 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.
l) 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.

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TC-13137



ULR : TC1313725700001290F, TC1313725500001575F

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)/25/7154_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 विवरण/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
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.
l) अनुभाग कोड/Section Code	:	25CH4E05N (Pages:6), 25ME48F5N (Pages:3)_NABL
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CH4E05N_1, 25ME48F5N_1_NABL
n) प्रमाणपत्र का प्रकार/Certificate Type	:	New
o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.	:	
p) टिप्पणी/Remarks	:	Test Report Uploaded.

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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001290F

Section Report No. : 25ME48F5N_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 20mm as "JPR TMT BARS 550D ISI 20 677573".
5.	व्यावर्त 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 26.1°C
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 13:19 PM

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



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Tharamani, Chennai - 600113, Tamilnadu



TC-13137



ULR : TC1313725700001290F

Section Report No. : 25ME48F5N_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
1	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/ mm ²	601.9
2	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	17.6
4	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	2.37	-	kg/m	2.42
5	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	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	-	%	9.5
7	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	No rupture or cracks visible on rebent portion.
8	9.2 (5)	Tensile Strength (16 to 28 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/ mm ²	685

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

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

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TC-13137



ULR : TC1313725500001575F

Section Report No. : 25CH4E05N_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. | Not Applicable |
| 2. परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रती 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. सम्बद्ध मानक / कार्य निर्देशों 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. व्यावर्त 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 | - |
| 7. पर्यावरण की स्थिति/Environmental Conditions | - |
| 8. उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used | Optical Emission Spectrometer (OES) |
| 9. कैलिब्रेशन स्थल/Site of Calibration | - |
| 10. मापन का पता लगाने की क्षमता/Traceability of Measurement | - |

Veerapandian Sivanandham
OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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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
1	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.	-	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.	-	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,
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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)

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Section Certificate No. : 25CH4E05N_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

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OIC Testing/Calibration Chemical (General, Standard, Metal, Oil Fuel)
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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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.38
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	0.075	perce nt by mass	0.040

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

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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.

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COMPLETE TEST CERTIFICATE

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) नामपद्धति का विवरण/Description of Nomenclature	:	JPR TMT Bar of Nominal size 25mm
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 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.
l) अनुभाग कोड/Section Code	:	25CH7E87N (Pages:6), 25ME7981N (Pages:3)
m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.	:	25CH7E87N_1, 25ME7981N_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 18:15 PM

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TC-13137



ULR : TC1313725700001291F, TC1313725500001576F

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)/25/7172_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) नामपद्धति का विवरण/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 Information / Expiry Date, If any	:	Physical and Chemical Test.
l) 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.

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TC-13137



ULR : TC1313725700001291F

Section Report No. : 25ME7981N_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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	Embossed on each sample of HSD Steel bar of nominal size 25mm as "JPR TMT BARS 550D ISI 25 677573".
5.	व्यावर्त 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 26.1°C
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)
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TC-13137



ULR : TC1313725700001291F

Section Report No. : 25ME7981N_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
1	9.2	Yield Stress/ 0.2 % Proof Stress. N/mm ² -- IS 1608 (Part 1): 2022.	Mechanical Test	550.0	-	N/ mm ²	616.1
2	9.2 (1)	TS/ YS Ratio - (IS 1786: 2008/ IS 1608 (Part 1): 2022).	Tensile Test	1.08	-	-	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	-	%	17.4
4	7.2	Mass per metre run, kg/m - IS 1786: 2008	Mass per metre run	3.7	-	kg/m	3.81
5	9.3	Bend test - IS 1599: 2023.	Bend Test to 180 degree bend	-	-	-	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	-	%	8.2
7	9.4	Rebend test (0 - 28 mm) - IS 1786: 2008	Rebend test to 135 / 157.5 degree bend	-	-	-	No rupture or cracks visible on rebent portion.
8	9.2 (5)	Tensile Strength (16 to 28 mm), N/mm ² - IS 1608 (Part 1): 2022.	Tensile Test	600.0	-	N/ mm ²	737.7

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Section Report No. : 25ME7981N_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.

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TC-13137



ULR : TC1313725500001576F

Section Report No. : 25CH7E87N_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.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रती 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावृत्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

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TC-13137



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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
1	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.	-	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.	-	0.04	perce nt by mass	0.017

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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.

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Section Certificate No. : 25CH7E87N_1

IS 1786 (2008)

PART B. SUPPLEMENTARY INFORMATION

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 प्रसि 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.	सम्बद्ध मानक / कार्य निर्देशों 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.	व्यावर्त 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	-
7.	पर्यावरण की स्थिति/Environmental Conditions	-
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	Optical Emission Spectrometer (OES)
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

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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
1	4.2 (1)	Carbon Equivalent (CE), , % by mass.	Chemical Composition, % by mass.	-	0.61	perce nt by mass.	0.43
2	4.2 (5)	Sulphur+ Phosphorus, % by mass.	Chemical Composition, % by mass.	-	0.075	perce nt by mass	0.030

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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

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