



TEST CERTIFICATE FOR HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT

Certificate No.: 100078007

C Date: 20.05.2022

Client: M/s. SHIVOM CONSTRUCTION COMPANY

Address: BHADRAJGA, MANDAL, SHIVPUR, BHADRAJGA, PADDAR

Address: BHADRAJGA, MANDAL, SHIVPUR, BHADRAJGA, PADDAR

Address: BHADRAJGA, MANDAL, SHIVPUR, BHADRAJGA, PADDAR

ISO 9001:2015 CERTIFIED COMPANY
IATF 16949:2016 CERTIFIED COMPANY

Address: No. 1, 2007792

Phone: No. 1, 2007792

Phone: No. 1, 2007792

Supply Condition: ISI India

ISI India

"We certify that the material described below fully conforms to IS- 1786-2008, Chemical composition and mechanical properties of the product as stated in accordance with the Scheme of Testing and Inspection contained and attached with the document for ISI Certification Marks License No. CMIL - 5553903 are as indicated against each item No.
(PLEASE REFER TO IS 1786:2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS)"

Material: TMT Bar / GRADE: F550D / Size: 8.00 mm Dia

Heat No.	No. of Samples	Brand/ W/M/T	Date of testing	Chemical Composition						Mechanical Properties									
				% C	% S	% P	% S+P	N (ppm)	CE	Wt% (kg/m ²)	0.2% Proof Stress N/mm ² Min	0.2% Proof Stress N/mm ² Max	Tensile strength N/mm ²	% El.	Yield Ratio	% Total Elongation at Max Load	Reduct. of Area	Impact	Charpy
A-10078	1	1	20.05.2022	0.22	0.01	0.015	0.025	18	0.34	0.70	550.0	550.0	670.0	22.0	1.00	14.0	40.0	10.0	10.0
Total	1	1	20.05.2022																

Product ID

Brand No

* Report Validity: 120 & 120 months

Note: 1. The above samples have been tested at temp.: At ambient temperature, 2. Uncertainty percentage: 0.01, 3. The results relate only to the items tested, 4. This certificate shall not be reproduced in part or full without written permission of the Management, 5. Samples drawn by us (Sampling procedure): 2 samples to be tested for less than 100 TON heat and 3 samples to be tested for more than 100 TON heat, 6. All tests are performed as per proper standards, 7. Fe, Cu, Al, Ni, N, B, O are not in our scope for chemical parameters and 0.2% Proof test, 0.4% at max. force, Impact test, Microstructure, Macro test are not in our scope for mechanical parameters.

The material supplied conforms to the standard rolling and manufacturing.

Remarks:

Test Methods: Tensile Test IS: 1698, Bend Test IS: 1598, Re-bar Test IS: 1786, Chemical Composition IS: 8811 / IS: 11353.

Dispatch: Address No.: 2007792

Track / Wagon No.: 20001A20022

(Signature)

TEST CERTIFICATE FOR HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT

Test Certificate No.: 0000416678

TC Date : 20.05.2022

To: M/s. SHIVOM CONSTRUCTION COMPANY
 NIKATDURGA MANDIR, SHIVPUR SHAHBAIGANI PADARI
 BAJAR GORAKHPUR, GORAKHPUR, PIN-273014 Uttar Pradesh

Process Route: BF-EAF-LRF-CCM-IRM

ISO 9001 : 2015 CERTIFIED COMPANY
 IAF 16949:2016 CERTIFIED COMPANY

Delivery No.: 12007792

Purchase Order No.: 10

Purchase Order Date : 19.05.2022

Supply Condition: As Rolled

De-Oxidation Killed

"We certify that the material described below fully conforms to IS: 1786-2008. Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of Testing and Inspection contained and attached with the document for ISI Certification Marks License No. CM/L - 5550868 are as indicated against each Heat No.
 (PLEASE REFER TO IS 1786-2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS)"

Material - TMT Bar / GRADE - FE550D / Size - 10.00 mm Dia

General Information				Chemical Composition						Mechanical Properties								
Heat No.	No. of Bundles	Bundle Wt(MT)	Date of testing	% C	% S	% P	% S+P	N (ppm)	CE	W/mtr (kg/mtr)	0.2% Proof Stress N/mm2 Min	0.2% Proof Stress N/mm2 Max	Tensile strength N/mm2	% EL	TS/YS Ratio	% Total Elongation at Max load	Bend test	Rebound test
A2187C	1	2.980 (17.05.2022)		0.22	0.012	0.001	0.051	54	0.321	0.585	585.5	590.0	607.2	19.7	1.151	8.8	120°	120°
Total	1	2.980																

Product ID																		
Bundle No																		
A2187C	007																	

* Input Billet Size : 145 X 145 mm2

Note :- 1. The above sample(s) have been tested at temp.: At ambient temperature, 2. Uncertainty percentage : 0.03, 3. The results relate only to the items tested, 4. This certificate shall not be reproduced in part or full without written permission of the Management, 5. Sample(s) drawn by us (Sampling procedure : 2 samples to be tested for less than 100 TON heat and 3 samples to be tested for more than 100 TON heat), 6. All tests are performed as per proper standards. 7. Zr, Cu, As, Sb, N, H, O are not in our scope for chemical parameters and 0.2% Proof test, % El at max. force, Impact test, Microstructure, Macro test are not in our scope for mechanical parameters.
 The material supplied conforms to the standard rolling and macro tolerances.

Remarks:

Test Methods : Tensile Test-IS 1608, Bend Test-IS 1599, Re-bend Test-IS 1786, Chemical Composition IS 8811 / IS 6 1253.

Dispatch Advice No. : 72057792

Truck / Wagon No. : JH02A29322

Sgt. Kumar

Format No. S-140-02 03/V NO. 01

Prepared By: MKTG_BAR
 Preparation Date & Time : 20.05.2022 14:52:36
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Authorized Signatory: *[Signature]*
 For: Jindal Steel & Power Ltd



TEST CERTIFICATE FOR HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT

Test Certificate No.: **SPCC/16040**
By Date: **20.05.2022**
To: **M. SHIVAM CONSTRUCTION COMPANY**
NOKATTA NGA MANDIR, SHIVPUR, SHAHIBAGANJ, PADARI
BALAKRISHNA, R. GORAKHPUR, PIN- 271014, Uttar Pradesh
Process Known: **BF-EAF-LRF-CCM 88M**

ISO 9001 : 2015 CERTIFIED COMPANY
IATF 16949:2016 CERTIFIED COMPANY

Delivery No.: **172001702**
Purchase Order No.: **172001702**
Purchase Order Date: **19.05.2022**
Supply Condition: **As Order**

De-Oxidation Killed

"We certify that the material described below fully conforms to IS- 1786-2008. Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of Testing and inspection contained and attached with the document for ISI Certification Marks License No. CML - 5550868 are as indicated against each Heat No.
(PLEASE REFER TO IS 1786-2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS.)"

Material: **TMT Bar / GRADE - FE550D / Size - 12.00 mm Dia**

Material - TMT Bar / GRADE - FE540D / Size - 12.00 mm dia				Chemical Composition						Mechanical Properties								
Heat No.	No. of Bundles	Bundle Wt(MT)	Date of testing	% C	% S	% P	% S+P	N (ppm)	CE	Wt/mtr (kg/mtr)	0.2% Proof Stress N/mm2 Min	0.2% Proof Stress N/mm2 Max	Tensile strength N/mm2	% EL	TS/YS Ratio	% Total Elongation at Max load	Bend test	Rebound test
A21447C	1	6.739	21.04.2022	0.22	0.016	0.002	0.018	54	0.365	0.990	565.0	602.0	681.0	18.1	1.024	8.7	180°	ASTM A631 (IS 1786-2008)
Total	1	6.739																
Product ID																		
Heat No		Bundle No																
A21437C	041	043																

* Input Billet Size : 165 X 165 mm²

Note: 1. The above sample(s) has/have been tested at temp.: At ambient temperature, 2. Uncertainty percentage: ± 0.05 , 3. The results relate only to the items tested, 4. This certificate shall not be reproduced in part or full without written permission of the Management, 5. Sample(s) drawn by us (Sampling procedure: 2 samples to be tested for less than 100 TON heat and 3 samples to be tested for more than 100 TON heat), 6. All tests are performed as per proper standards, 7. Zr, Ca, As, Sn, N, H, O are not in our scope for chemical parameters and 0.2% Proof test, % El at max. force, Impact test, Microstructure, Macro test are not in our scope for mechanical parameters.
The material supplied conforms to the standard rolling and mass tolerances

Remarks:

Test Methods: Tensile Test-IS 1608, Bend Test-IS 1599, Re-bend Test-IS 1786, Chemical Composition-IS 8811 / JIS G 1253.
Dispatch Advice No.: 72657792
Truck / Wagon No.: JH02A29322

Authorized Signatory: *[Signature]*
For Jindal Steel & Power Ltd.

TEST CERTIFICATE FOR HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT

STEEL & POWER LTD
 BAFALU, PATNA
 PIN-851001, INDIA
 Mob No: 919711192007
 Email ID: spc@steelpowerltd.com



Test Certificate No.: 0000439960

TC Date: 20.05.2022

To: M/s SHIVOM CONSTRUCTION COMPANY

NIKATDURGA MANDIR SHIVPUR SHAIBAGANI PADARI
 BAJARGORAKHPUR, GORAKHPUR, PIN-273014, Uttar Pradesh

Process Route: BF-EAF-LRF-CCM-DRM

ISO 9001 : 2015 CERTIFIED COMPANY
 IATF 16949:2016 CERTIFIED COMPANY

Delivery No.: 17001794

Purchase Order No.: 1700

Purchase Order Date: 13.05.2022

Supply Condition: As Rolled

De Oxidation: Killed

"We certify that the material described below fully conforms to IS: 1786-2008, Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of Testing and Inspection contained and attached with the document for ISI Certification Marks License No. CML-5550868 are as indicated against each Heat No (PLEASE REFER TO IS 1786-2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS)"

Material - TMT Bar / GRADE - FE550D / Size - 16.00 mm Dia

Heat No.	No. of Bundles	Bundle Wt(MT)	Date of testing	Chemical Composition						Mechanical Properties								
				% C	% S	% P	% S+P	N (ppm)	CE	W/mtr (kg/mtr)	0.2% Proof Stress N/mm2 Min	0.2% Proof Stress N/mm2 Max	Tensile strength N/mm2	% El.	TSYS Ratio	% Total Elongation at Max load	Bend test	Rebound test
B21425C	2	7.439	02/04/2022	0.23	0.015	0.009	0.009	32	0.361	1.548	575.0	595.0	690.0	19.8	1.187	8.4	SATISFACTORY	SATISFACTORY
B21426C	1	2.667	02/04/2022	0.22	0.015	0.009	0.009	56	0.342	1.564	570.0	590.0	672.5	19.6	1.189	8.7	SATISFACTORY	SATISFACTORY
B21445C	1	3.901	02/04/2022	0.22	0.018	0.009	0.009	60	0.730	1.548	570.0	604.0	671.0	19.5	1.188	8.7	SATISFACTORY	SATISFACTORY
Total	4	14.007																

Heat No	Product ID																
B21425C	047	050															
B21426C	018																
B21445C	001																

* Input Billet Size : 165 X 165 mm²

Note : 1. The above sample(s) has/have been tested at temp.: At ambient temperature, 2. Uncertainty percentage : xxx, 3. The results relate only to the items tested, 4. This certificate shall not be reproduced in part or full without written permission of the Management, 5. Sample(s) drawn by us (Sampling procedure : 2 samples to be tested for less than 100 TON heat and 3 samples to be tested for more than 100 TON heat), 6. All tests are performed as per proper standards, 7. Zr, Ca, As, Sb, N, H, O are not in our scope for chemical parameters and 0.2% Proof test, % El at max. force, Impact test, Microstructure, Macro test are not in our scope for mechanical parameters.

The material supplied conforms to the standard rolling and mass tolerances

Remarks:

Test Methods : Tensile Test-IS 1608, Bend Test-IS 1599, Re-bend Test-IS 1786, Chemical Composition-IS 8811 / JIS G 1253.
 Dispatch Advice No.: 72057792
 Truck / Wagon No.: JH02AZ9322

Sgt
 (Sgt Kurian)

Form No. S-10P-02 REV NO. 01

Prepared By: MKTG_BAR
 Preparation Date & Time : 20.05.2022 14:53:09
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Authorized Signatory (Quality Assurance)
 For, Jindal Steel & Power Ltd

TEST CERTIFICATE FOR HIGH STRENGTH DEFORMED STEEL BARS AND WIRES FOR CONCRETE REINFORCEMENT

Test Certificate No.: 00004799-1

TC Date: 20/05/2022

To: M/s SHIVOM CONSTRUCTION COMPANY

NIKATDURGA MANDIR, SHIVPUR, SHAHBAIGANI PADARI

BAJAJ, GORAKHPUR, GORAKHPUR, PIN-273014, Uttar Pradesh

Process Route: BF-EAF-LRF-CCM-BRM

ISO 9001 : 2015 CERTIFIED COMPANY
IATF 16949:2016 CERTIFIED COMPANY

Delivery No.: 17207792

Purchase Order No.: po

Purchase Order Date: 18/05/2021

Supply Condition: As Rolled

De-Oxidation: Killed

"We certify that the material described below fully conforms to IS: 1786-2008. Chemical composition and mechanical properties of the product as tested in accordance with the Scheme of Testing and inspection contained and attached with the document for ISI Certification Marks License No. CM/L - 5550858 are as indicated against each Heat No. (PLEASE REFER TO IS 1786-2008 FOR DETAILS OF SPECIFICATION REQUIREMENTS)"

Material - TMT Bar / GRADE - FE550D / Size - 20.00 mm Dia

Material Properties				Chemical Composition						Mechanical Properties								
Heat No.	No. of Bundles	Bundle Wt(MT)	Date of testing	% C	% S	% P	% S+P	N (ppm)	CE	W/mtr (kg/mtr)	0.2% Proof Stress N/mm2 Min	0.2% Proof Stress N/mm2 Max	Tensile strength N/mm2	% EL	TS/YS Ratio	% Total Elongation at Max load	Bend test	Rebar test
B0179C	1	11.414	11/03/2022	0.22	0.018	0.007	0.04	59	0.239	2.453	572.0	586.0	670.0	18.2	1.127	4.1	5ATBFACTORY	5ATBFACTORY
Total	1	11.414																
Product ID																		
Bundle No																		
B0179C	045	045	057															

* Input Billet Size : 165 X 165 mm2

Note: 1. The above sample(s) has/have been tested at temp.: At ambient temperature, 2. Uncertainty percentage: < 0.5%, 3. The results relate only to the items tested, 4. This certificate shall not be reproduced in part or full without written permission of the Management, 5. Sample(s) drawn by us (Sampling procedure: 2 samples to be tested for less than 100 TON heat and 3 samples to be tested for more than 100 TON heat), 6. All tests are performed as per proper standards, 7. Zr, Cu, As, Sn, N, H, O are not in our scope for chemical parameters and 0.2% Proof test, % El at max. force, Impact test, Microstructure, Macro test are not in our scope for mechanical parameters.

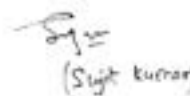
The material supplied conforms to the standard rolling and mass tolerances

Remarks:

Test Methods: Tensile Test-IS 1608, Bend Test-IS 1599, Re-bend Test-IS 1786, Chemical Composition-IS 8811 / IS 6 1253.

Dispatch Advice No.: 7207792

Truck / Wagon No.: J1902A29322


 Sunit Kumar