



SHREE
GLASS FIBER



RebarX
Rust Free. 2X Strength

TESTING OF GFRP REBARS





MATRIX TESTING & TECHNOLOGIES PVT.LTD.

(CALIBRATION DIVISION)

Accreditation No. NABL CC-3626

Address : Office No. 813, Eighth Floor, Rama Equator, Near Finolex Chowk, Pimpri, Pune - 411018, Maharashtra.

Mobile No.: +91 9112211910 | +91 9112211930 E mail id: info@matrixfie.com | calibration@matrixfie.com



CC-3626

CALIBRATION CERTIFICATE

ULR.No.	: CC36262600000137F	Certificate No.	: MATRIX/CAL/2025-26/01/17317
Discipline	: Mechanical Calibration	Group	: UTM, Tension Creep and Torsion Testing Machine
Certificate Issue Date	: 09.01.2026	Calibration Date	08.01.2026
		Next Date of Calibration	08.01.2027
			Page No. 1 of 2

Name of Customer: DEVICE UNDER CALIBRATION DETAILS

M/s. Credific Ventures Private Limited. 8B, 8C, Raneka Industries Lane, Adjacent to Nirvik Foods, Sector-3, Pithampur Industrial Area, Dhar, Pithampur III, Dhar, Madhya Pradesh 454774	Description - Universal (Uniaxial) Testing Machine					
	Mode	Compression	Reference Standard	IS 1828 (Part-1): 2022, ISO 7500 -1:2018		
	Max. Capacity	400 kN				
	Make	FIE	Calibration Procedure	M-WI-01-UTM-IS		
	Model	UTE 40	Calibrated By	Roshan Khodankar		
	Sr. No.	11/2025-7530	O.A. No.	11562		
	ID No.	---	Room temp.at time of calibration °C	Start	End	Mean
	Location on site	Lab		25.4	25.6	25.5
	Condition of the equipment at the time of calibration				Satisfactory	

Other Details of Machine:-

Description	Make / Model	Sr. No. / Id. No.	Capacity
Load Cell	N.A/N.A	N.A/N.A	N.A
Digital Indicator	N.A/N.A	N.A/N.A	

DETAILS OF FORCE PROVING INSTRUMENT USED FOR CALIBRATION

Load Cell Make/Model/Capacity	EPOCH/LSE-14(H2)/100kN	PT.LTD/LPCH 100000 kg/1000kN
Load Cell Sr.No./Readout Sr.No.	30108/MP/DI/30108	0547010/MP/DI/0547010
Load Cell ID.No./Readout ID.No.	MP/LC/100kN/MP/DI/100kN	MP/LC/100T/MP/DI/100T
Cal Certificate No. &	FRI/01/25/16526	FRI/03/25/16742
Calibration Cert. Date.	14-01-2025	07-03-2025
Calibration Cert. due on	14-03-2027	07-05-2027
U.I.M at 95% C.L.	± 0.23 %	± 0.16 %
Traceability to National Standards	Fie Research Institute, Ichalkaranji	Fie Research Institute, Ichalkaranji
Calibrated at temp.	24°C	24°C

All measurement results are traceable to the international system of units (SI), ensured by comparison, directly or indirectly with National or International standards through unbroken chain of calibration.

Contd... page no.02

Calibrated By

Roshanik

Mr.Roshan Khodankar
Calibration Engineer



Authorized By

Mr. Kiran Thorat
Quality Manager

MF-38/1



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CC-3626

CALIBRATION CERTIFICATE

ULR.No.	: CC362626000000137F	Certificate No.	: MATRIX/CAL/2025-26/01/17317
Discipline	: Mechanical Calibration	Group	: UTM, Tension Creep and Torsion Testing Machine
Certificate Issue Date	: 09.01.2026	Calibration Date	08.01.2026
		Next Date of Calibration	08.01.2027
		Page No.	2 of 2

CALIBRATION RESULTS

Force Proving Instrument Used	Applied Force In kN	Standard Instrument Reading (Div / count)	Temp. Corrected Std. Reading (Div)	Observed Readings (Div / count)			Average (Div / count)	Relative Indication Error 'q' (%)				Actual Force in (kN)	Relative Repeatability Error 'b' (%)	Expanded Uncertainty (%) ($\pm$)
				1	2	3		(q ₁)	(q ₂)	(q ₃)	Avg. (q)			
				0°	120°	240°								

Range : 0 - 400 kN Certified Range: 8 - 400 kN L.C. : 0.01 kN Temp °C: 25.5

100kN Load Cell	8	6422	—	6427	6432	6439	6432.7	0.08	0.16	0.26	0.17	8.01	0.19	0.28
	10	8030	—	8036	8048	8052	8045.3	0.07	0.22	0.27	0.19	10.02	0.20	0.28
	20	16029	—	16039	16046	16059	16048.0	0.06	0.11	0.19	0.12	20.02	0.12	0.26
	40	32003	—	32053	32061	32082	32065.3	0.16	0.18	0.25	0.19	40.08	0.09	0.24
	60	47982	—	48134	48116	48124	48124.7	0.32	0.28	0.30	0.30	60.18	0.04	0.24
	80	63991	—	64018	64053	64127	64066.0	0.04	0.10	0.21	0.12	80.09	0.17	0.26
	100	79989	—	80013	80119	80224	80118.7	0.03	0.16	0.29	0.16	100.16	0.26	0.22
1000 kN Load Cell	100	5050	—	5062	5067	5071	5066.7	0.24	0.34	0.42	0.33	100.33	0.18	0.18
	200	10143	—	10166	10127	10202	10165.0	0.23	-0.16	0.58	0.22	200.43	0.74	0.46
	300	15249	—	15265	15290	15297	15284.0	0.10	0.27	0.31	0.23	300.69	0.21	0.20
	400	20374	—	20486	20431	20447	20454.7	0.55	0.28	0.36	0.40	401.58	0.27	0.22

Max. observed reading on removal of force (F_{10}): 0.01 kN Max. Zero Error (f_0): 0.00 %

Max. Relative Resolution (a): 0.13 %

Maximum Expanded Uncertainty ± 0.46 %

Maximum expanded uncertainty at 95.45% confidence level with coverage factor $k = 2$.

Classification of the machine as per Clause No. 7 (Table-2) of IS 1828 (Part-1): 2022, ISO 7500 -1:2018

Class of Machine Range	Maximum Permissible Values in %			
	Relative Error			
	Indication (q)	Repeatability (b)	Zero (fo)	Relative Resolution (a)
1	± 1.0	1.0	± 0.1	0.5
2	± 2.0	2.0	± 0.2	1
3	± 3.0	3.0	± 0.3	1.5

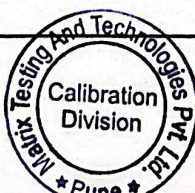
Remark Class of Machine: Class - 1

1. This machine has been verified and the relative errors found within limits.

Calibrated By

Roshanik

Mr.Roshan Khodankar
Calibration Engineer



Authorized By

Mr. Kiran Thorat

Quality Manager

— END OF CERTIFICATE —

MF-38/1

Website : www.matrixtest.in | www.matrixmachines.net

 ACROPOLIS Enlightening Wisdom	ACROPOLIS TESTING AND ANALYTICAL LABORATORY [Run by: Teach for India Education and Research Samiti] Mangaliya Square, Indore-Dewas Bypass, Indore. M.P. 0731-4730000,014	Page No. 1 of 1

TEST REPORT			
Service Request No:02/26/ATAL/AITR		Report No : 006/26/ATAL/AITR	
Customer Name : Kapil Agrawal			
Address : Credific Venture Pvt. Ltd. 8B, 8C Sector-3 Industrial Area, Pithampur, Indore, M.P.			
Sample Details	: 6mm	Date & Time of Sample Receipt	: 02-01-2026
Laboratory ID	: MTL-08	Sample Condition	: Good
Sample Type	: GFRP Bar	Quantity of Sample Received	: 3 bars
Sample Received in	: Sealed Pack	Test Start – End Date	: 07-01-2026 to 16-01-2026
Mode of Disposal	: 30 Days	Report Generated Date	: 20-01-2026
Make	: RebarX		

S. No.	TEST NAME	Specified Requirements (As per IRC 137-2022)	RESULTS	Test Standard
1.	Glass Fibre Content %	≥70%	72.2%	ASTM D 2584
2.	Ultimate Tensile Load, kN	27min	36.28 kN	ASTM D 7205
3.	Cross Section Area, mm2	30 Min 55 Max	34.26mm2	ASTM D 7205
4.	Ultimate Tensile Strength, N/mm2	Not Specified	1058.8 N/mm2	ASTM D 7205
5.	Ultimate Tensile Strain, %	≥1.1 %	1.27%	ASTM D 7205
6.	Transverse Shear Strength, Mpa	>152 Mpa	165 Mpa	ASTM D 7617
7.	Bond Strength, Mpa	≥7.6 Mpa	8.2 Mpa	ASTM D 7913
8.	Water Absorption % i. Short Term (24h @50°C) ii. Long Term (Full Saturation @ 50°C)	≤ 0.25 ≤ 1.0 (42 days)	0.22 Awaited	ASTM D 570

Test Performed  Testing Engineer	Result Checked and Verified By  (Prof. Jayant Awasthy) Technical Manager	 Authorized Signature  Director
* End of the Test Report * The results relate only to the items tested This test report shall not be reproduced except in full, without written approval from the ATAL laboratory.		

 ACROPOLIS Enlightening Wisdom	ACROPOLIS TESTING AND ANALYTICAL LABORATORY [Run by: Teach for India Education and Research Samiti] Mangaliya Square, Indore-Dewas Bypass, Indore. M.P. 0731-4730000,014	Page No. 1 of 1

TEST REPORT			
Service Request No:02/26/ATAL/AITR		Report No : 007/26/ATAL/AITR	
Customer Name : Kapil Agrawal			
Address : Credific Venture Pvt. Ltd. 8B, 8C Sector-3 Industrial Area, Pithampur, Indore, M.P.			
Sample Details	: 8mm	Date & Time of Sample Receipt	: 02-01-2026
Laboratory ID	: MTL-08	Sample Condition	: Good
Sample Type	: GFRP Bar	Quantity of Sample Received	: 3 bars
Sample Received in	: Sealed Pack	Test Start – End Date	: 07-01-2026 to 16-01-2026
Mode of Disposal	: 30 Days	Report Generated Date	: 20-01-2026
Make	: RebarX		

S. No.	TEST NAME	Specified Requirements (As per IRC 137-2022)	RESULTS	Test Standard
1.	Glass Fibre Content %	≥70%	76.9%	ASTM D 2584
2.	Ultimate Tensile Load, kN	Not Specified	42.13 kN	ASTM D 7205
3.	Cross Section Area, mm ²	Not Specified	46.02mm ²	ASTM D 7205
4.	Ultimate Tensile Strength, N/mm ²	Not Specified	915.7 N/mm ²	ASTM D 7205
5.	Ultimate Tensile Strain, %	≥1.1 %	2.01%	ASTM D 7205
6.	Transverse Shear Strength, Mpa	>152 Mpa	182 Mpa	ASTM D 7617
7.	Bond Strength, Mpa	≥7.6 Mpa	8.4 Mpa	ASTM D 7913
8.	Water Absorption %			ASTM D 570
	i. Short Term (24h @50°C)	≤ 0.25	0.04	
	ii. Long Term (Full Saturation @ 50°C)	≤ 1.0 (42 days)	Awaited	

Test Performed  Testing Engineer	Result Checked and Verified By  (Prof. Jayant Awasthy) Technical Manager	 Authorized Signature (Dr. Sharad Naik) Director Laboratories
* End of the Test Report * The results relate only to the items tested This test report shall not be reproduced except in full, without written approval from the ATAL laboratory.		

TEST REPORT

Service Request No:02/26/ATAL/AITR

Report No : 008/26/ATAL/AITR

Customer Name : Kapil Agrawal

Address : Credific Venture Pvt. Ltd. 8B, 8C Sector-3 Industrial Area, Pithampur, Indore, M.P.

Sample Details	: 10mm	Date & Time of Sample Receipt	: 02-01-2026
Laboratory ID	: MTL-08	Sample Condition	: Good
Sample Type	: GFRP Bar	Quantity of Sample Received	: 3 bars
Sample Received in	: Sealed Pack	Test Start – End Date	: 07-01-2026 to 16-01-2026
Mode of Disposal	: 30 Days	Report Generated Date	: 20-01-2026
Make	: RebarX		

S. No.	TEST NAME	Specified Requirements (As per IRC 137-2022)	RESULTS	Test Standard
1.	Glass Fibre Content %	≥70%	72.5%	ASTM D 2584
2.	Ultimate Tensile Load, kN	59 Min.	81.2 kN	ASTM D 7205
3.	Cross Section Area, mm ²	67 Min 104 Max	78.32mm ²	ASTM D 7205
4.	Ultimate Tensile Strength, N/mm ²	Not Specified	1036.9 N/mm ²	ASTM D 7205
5.	Ultimate Tensile Strain, %	≥1.1 %	2.4%	ASTM D 7205
6.	Transverse Shear Strength, Mpa	>152 Mpa	169 Mpa	ASTM D 7617
7.	Alkali Resistance Test %	≥80% of Initial UTS force (90 days at 60°C)	Awaited	ASTM D 7705

Test Performed

Testing Engineer

Result Checked and Verified By

 (Prof. Jayant Awasthy)
 Technical Manager


* End of the Test Report *

The results relate only to the items tested

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Credific Ventures Pvt. Ltd.
8B-C, Sector-3, Industrial Area, Pithampur, Indore

Test Certificate

File Name : Rebar X R2 8mm

Date : 27-01-2026

Tested For : self

Address : Pithampur

Sample ID. : Round bar

Batch No. : 1

Heat No. : FIE-001

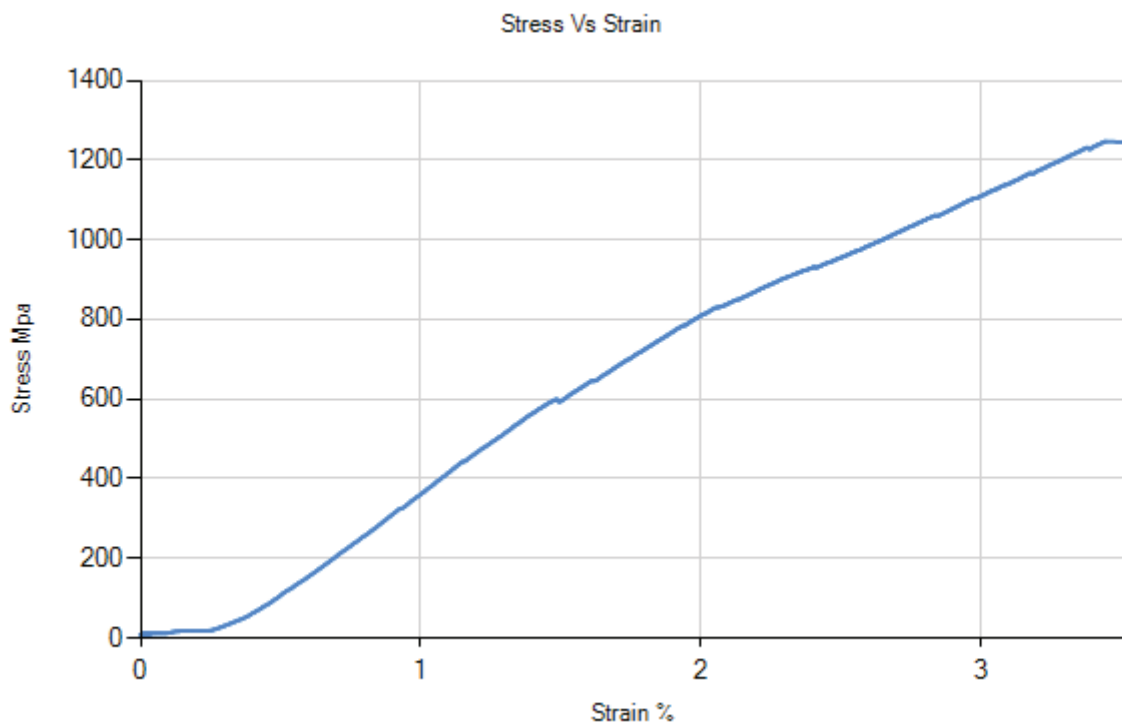
Test Method : Load rate 20kN/min, CHT rate-10mm/min

Test Type : Tension Test

Sample No: 1

Sample Type	Round Solid	Max. Load (Fmax)	62.664 kN
Outer Dia.	8 mm	Disp. at Fmax	25.84 mm
		Max. Disp.	26.4 mm
		Tensile Strength	1246.673 Mpa
Initial G.L.	750 mm	Yield Load	61.872 kN
Initial Area	50.265 mm ²	Yield Strength	1230.916 Mpa
		Elongation	3.52 %
		Red. In Area	100 %
		UTS/YS Ratio	1.01
		YS/UTS Ratio	0.99

Note:- Yield calculated from graph



Tested by

Witness by

Approved by

Machine : FIE make Universal Testing Machine Model:- UTE-40

SL. No. : 11/2025-7530



Credific Ventures Pvt. Ltd.
8B-C, Sector-3, Industrial Area, Pithampur, Indore

Test Certificate

File Name : Rebar X R2 10mm

Date : 27-01-2026

Tested For : self

Address : Pithampur

Sample ID. : Round bar

Batch No. : 1

Heat No. : FIE-001

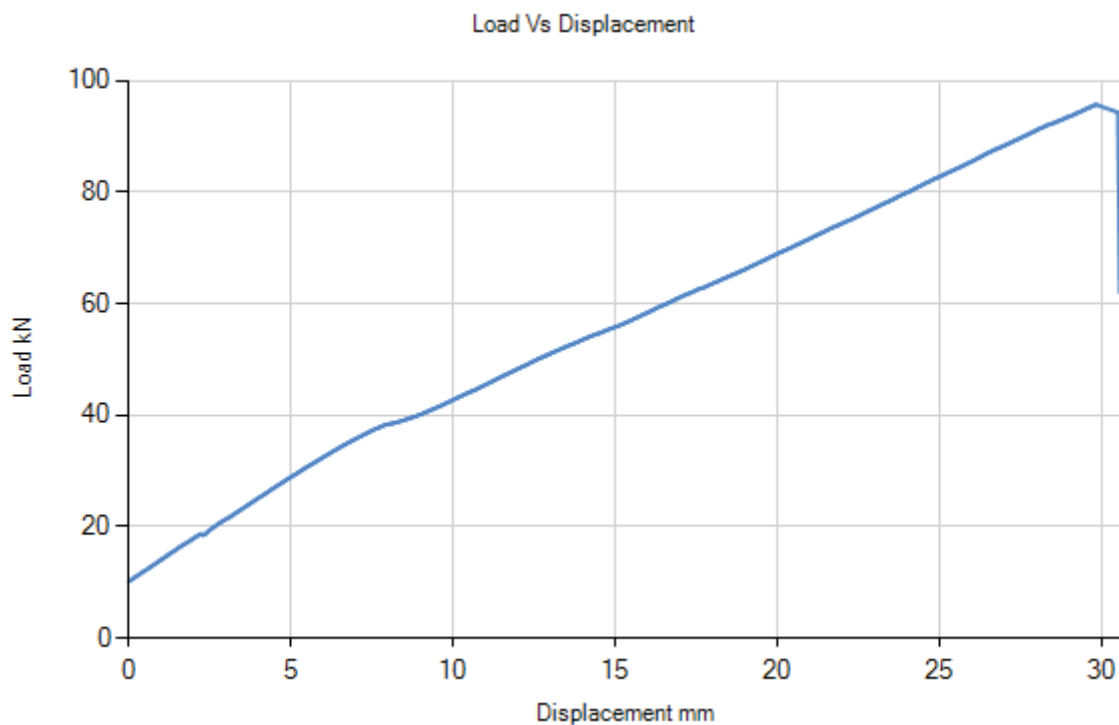
Test Method : Load rate 20kN/min, CHT rate-10mm/min

Test Type : Tension Test

Sample No: 1

Sample Type	Round Solid	Max. Load (Fmax)	95.664 kN
Outer Dia.	10 mm	Disp. at Fmax	29.82 mm
		Max. Disp.	30.55 mm
		Tensile Strength	1218.029 Mpa
Initial G.L.	850 mm	Yield Load	0 kN
Initial Area	78.54 mm ²	Yield Strength	0 Mpa
		Elongation	3.59 %
		Red. In Area	100 %
		UTS/YS Ratio	0
		YS/UTS Ratio	0

Note:- Yield calculated from graph



Tested by

Witness by

Approved by

Machine : FIE make Universal Testing Machine Model:- UTE-40

SL. No. : 11/2025-7530

