



Idma - 8mm Test Report



Idma Laboratories Limited (A Government Approved Test House)

Corporate Office : SCO-12, Madhya Marg, Sector-26, Chandigarh.
Tel: 5078023-24, 2790285, 2791308, Fax: 91-172-2793041, 2583587
Website: www.idmagroup.co.in E-mail : testing@idmagroup.co.in
Reg. Office & Lab: 391, Industrial Area Phase-I, Panchkula, Haryana.
Site Lab: Punjab Agri Food Parks Ltd., G.T Road, Sirhind, Punjab.



Certificate No.
T-0188

TEST CERTIFICATE

D.No. IL/D-3910 /08-09	Date: 20/12/08	Lab No.	241208L-A-01	Page-1/1	
Issued to:	Aar-Aar Casting Ltd. S.C.O. 814, IInd Floor, NAC Manimajra Chandigarh				
Type of Sample:	STEEL BARS				
Customer's Description of Sample:	TMT STEEL (dia-8 mm)				
Quantity:	1No (1meter)				
Packing & Markings:	Open: Mark-Amravati				
Mode of Receipt of Sample:	By Hand				
Work order No.:	Nil	Dated:	16.12.2008		
Date of Receipt of Sample:	24.12.2008	Period of Analysis:	01 day		
Testing Protocol:	IS: 1786-1985, R-2004 With Ad.2				
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A.	Physical Tests				
1.	Tensile strength	N/mm ²	518.03	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	418.41	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	32.5	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1998
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R 2004 Ad. 2

Opinion: The Submitted Sample of TMT STEEL (dia-8 mm) **Conforms** to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

Raw
Authorized Signatory
TMU/III



Idma - 10mm Test Report



Idma Laboratories Limited (A Government Approved Test House)

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Certificate No.
T-0187/188

TEST CERTIFICATE

D.No. IL/D-4776	/08-09	Date: (06-03-09)	Lab No.	060309L-A-01	Page-1/1
Issued to:		AAR AAR Castings Ltd. Vill. Jharmajri, Barotiwala Indl. Area, Baddi Distt. Solan (H.P.)			
Type of Sample:		STEEL BARS			
Customer's Description of Sample:		TMT STEEL BAR (dia-10 mm)			
Quantity:		1No (1meter)			
Packing & Markings:		Open: Mark-AMRAVATI TMT			
Mode of Receipt of Sample:		By Hand			
Work order No.:		Nil	Dated:	06.03.09	
Date of Receipt of Sample:		06.03.09	Period of Analysis:	01 day	
Testing Protocol:		IS: 1786-1985, R-2004 With Ad.2			
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A. Physical Tests					
1.	Tensile strength	N/mm ²	591.63	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	460.16	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	26.5	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1996
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R 2004 Ad. 2

Opinion: The Submitted Sample of TMT STEEL BAR (Ø -10 mm) **Conforms** to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

Authorized Signatory
TM IJH



Idma - 12mm Test Report



Idma Laboratories Limited (A Government Approved Test House)

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Site Lab: Punjab Agri Food Parks Ltd., G.T Road, Sirhind, Punjab.



Certificate No.
T-0187/188

TEST CERTIFICATE

D.No. IL/D- 4777	/08-09	Date: 06-03-09	Lab No.	080309L-A-02	Page-1/1
Issued to:		AAR AAR Castings Ltd. Vill. Jharmajri, Barotiwala Indl. Area, Baddi Distt. Solan (H.P.)			
Type of Sample:		STEEL BARS			
Customer's Description of Sample:		TMT STEEL BAR (dia-12 mm)			
Quantity:		1No (1meter)			
Packing & Markings:		Open: Mark-AMRAVATI TMT			
Mode of Receipt of Sample:		By Hand			
Work order No.:		Nil	Dated:	06.03.09	
Date of Receipt of Sample:		06.03.09	Period of Analysis:	01 day	
Testing Protocol:		IS: 1786-1985, R-2004 With Ad.2			
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A. Physical Tests					
1.	Tensile strength	N/mm ²	555.86	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	420.5	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	27.11	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1996
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R 2004 Ad. 2

Opinion: The Submitted Sample of TMT STEEL BAR (Ø -12 mm) **Conforms** to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

Authorized Signatory
TM IJ/HH



Idma - 16mm Test Report



Idma Laboratories Limited

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TEST CERTIFICATE

D.No. IL/D-3913 /08-09		Date: 30-12, 08	Lab No.	241208L-A-04	Page-1/1
Issued to:		Aar-Aar Casting Ltd. S.C.O. 814, IInd Floor, NAC Manimajra Chandigarh			
Type of Sample:		STEEL BARS			
Customer's Description of Sample:		TMT STEEL (dia-16 mm)			
Quantity:		1No (1meter)			
Packing & Markings:		Open: Mark-Amravati			
Mode of Receipt of Sample:		By Hand			
Work order No.:		Nil	Dated:	16.12.2008	
Date of Receipt of Sample:		24.12.2008	Period of Analysis:	01 day	
Testing Protocol:		IS: 1786-1985, R-2004 With Ad 2			
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A. Physical Tests					
1.	Tensile strength	N/mm ²	747.17	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	610.86	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	18.7	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1996
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R-2004 Ad. 2

Opinion: The Submitted Sample of TMT STEEL (dia-16 mm) Conforms to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

Signature
 Authorized Signatory
 TMI/II/III



Idma - 20mm Test Report



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Certificate No.
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TEST CERTIFICATE

D.No. IL/D3914 /08-09	Date: 30/12/08	Lab No.	241208L-A-06	Page-1/1	
Issued to:	Aar-Aar Casting Ltd. S.C.O. 814, IInd Floor, NAC Manimajra Chandigarh				
Type of Sample:	STEEL BARS				
Customer's Description of Sample:	TMT STEEL (dia-20 mm)				
Quantity:	1No (1meter)				
Packing & Markings:	Open: Mark-Amravati				
Mode of Receipt of Sample:	By Hand				
Work order No.:	Nil	Dated:	16.12.2008		
Date of Receipt of Sample:	24.12.2008	Period of Analysis:	01 day		
Testing Protocol:	IS: 1786-1985, R-2004 With Ad.2				
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A. Physical Tests					
1.	Tensile strength	N/mm ²	550.95	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	423.56	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	26.0	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1996
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R 2004 Ad. 2

Opinion: The Submitted Sample of TMT STEEL (dia-20 mm) **Conforms** to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

[Signature]
Authorized Signatory
TMI/NI/II



Idma - 25mm Test Report



Idma Laboratories Limited

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 Site Lab: Punjab Agri Food Parks Ltd., G.T Road, Sirhind, Punjab.



Certificate No.
T-0188

TEST CERTIFICATE

D.No. IL/D. 3915 /08-09	Date: 30.12.08	Lab No.	241208L-A-06	Page-1/1	
Issued to:	Aar-Aar Casting Ltd. S.C.O. 814, IInd Floor, NAC Manimajra Chandigarh				
Type of Sample:	STEEL BARS				
Customer's Description of Sample:	TMT STEEL (dia-25 mm)				
Quantity:	1No (1meter)				
Packing & Markings:	Open: Mark-Amravati				
Mode of Receipt of Sample:	By Hand				
Work order No.:	Nil	Dated:	16.12.2008		
Date of Receipt of Sample:	24.12.2008	Period of Analysis:	01 day		
Testing Protocol:	IS: 1786-1985, R-2004 With Ad.2				
S.No.	TEST	UNIT	RESULT	REQUIREMENTS	TEST METHOD
A. Physical Tests					
1.	Tensile strength	N/mm ²	526.60	Min. 485	IS: 1608-1995 R-2001 Ad.1
2.	Yield stress	N/mm ²	418.0	Min. 415	IS: 1608-1995 R-2001 Ad.1
3.	Elongation	%	24.0	Min. 14.5	IS: 1608-1995 R-2001 Ad.1
4.	Bend test	--	Complies	Sample shall not show any sign of transverse crack in the bent portion.	IS: 1599-1985 R-1996
5.	Rebend Test	--	Complies	Sample shall not show any sign of fracture in the bent portion.	IS: 1786-1985 R-2004 Ad.2

Opinion: The Submitted Sample of TMT STEEL (dia-25 mm) Conforms to BIS Specification No. IS: 1786-1985 R-2004 with Ad.2 for Fe- 415 grade with respect to the above tests.

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Authorized Signatory
 TMV/III