



ME TESTING & CALIBRATION LABORATORY

(ISO 9001:2015, 14001:2015 Certified & NABL Accredited Lab.)

Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun-248171 (U.K.) India

Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

TEST REPORT

Description of Sample: TMT Steel Bar 10 mm dia. **Make** "SHYAM SEL" **ULR No.:** TC65752000001506F

Sample ID: 220520/05

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 28.5^o C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter Date: 22/05/2020

C.B. No.: 174/UDRP/AF/59(BR)

N.O.W.: Construction of 42 M Span Steel Truss Motor Bridge in Km-11

of Arakot Chinwa Balcha Motor Road in District Uttarkashi

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi (U.K.)

Date of Report: 27/05/2020

Date of Testing: 23-26/05/2020

Date of Receipt: 22/05/2020

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	10		
2.	Wt, kg/m	0.618	0.617 ± 7%	
3.	Tensile strength, N/mm ²	688.16	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1786-2008, Amd.2, Reaff:2018 IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	572.46	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.20	≥ 1.10	By Calculation
6.	Elongation, %	23.50	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.21	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.025	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.030	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.055	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

- The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
- Total liability of our Lab. is limited to the invoiced amount.
- Samples will be destroyed after 30 Days from the date of issue of test report.
- This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



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Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

TEST REPORT

Description of Sample: TMT Steel Bar 12 mm dia. **Make** "SHYAM SEL" **ULR No.:** TC65752000001507F
Sample ID: 220520/06 **Date of Report:** 27/05/2020
Sample Quantity: 3x1 mtr. **Date of Testing:** 23-26/05/2020
Sample Condition: Receipt as OK **Date of Receipt:** 22/05/2020
Sample Plan & Sampling Method: NA
Environment Condition (Temp. & Humidity): 29.1⁰C & NA
Addition to, Deviation or Exclusion from the Method: NA
Letter Date: 22/05/2020
C.B. No.: 174/UDRP/AF/59(BR)
N.O.W.: Construction of 42 M Span Steel Truss Motor Bridge in Km-11 of Arakot Chinwa Balcha Motor Road in District Uttarkashi

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi (U.K.).

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	12		
2.	Wt, kg/m	0.892	0.888 ± 5%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	656.46	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	544.32	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.21	≥ 1.10	By Calculation
6.	Elongation, %	21.60	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.19	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.027	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.031	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.058	0.075 Max.	By Calculation

Note: I. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

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- Total liability of our Lab. is limited to the mocest amount.
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TEST REPORT

Description of Sample: TMT Steel Bar 16 mm dia. Make "SHYAM SEL" ULR No.: TC657520000001508F

Sample ID: 220520/07

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 28.7^o C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter Date: 22/05/2020

C.B. No.: 174/UDRP/AF/59(BR)

N.O.W.: Construction of 42 M Span Steel Truss Motor Bridge in Km-11

of Arakot Chinwa Balcha Motor Road in District Uttarkashi

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi (U.K.).

Date of Report: 27/05/2020

Date of Testing: 23-26/05/2020

Date of Receipt: 22/05/2020

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	16		
2.	Wt, kg/m	1.586	1.58 ± 5%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	690.06	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	586.20	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.18	≥ 1.10	By Calculation
6.	Elongation, %	22.40	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.20	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.023	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.028	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.051	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

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TEST REPORT

Description of Sample: TMT Steel Bar 10 mm dia. Make "SHYAM SEL" ULR No.: TC65752000001509F

Sample ID: 220520/08

Date of Report: 27/05/2020

Sample Quantity: 3x1 mtr.

Date of Testing: 23-26/05/2020

Sample Condition: Receipt as OK

Date of Receipt: 22/05/2020

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 29.1^o C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter No.: 22/05/2020

C.B. No.: 176/UDRP/AF/64(BR)

N.O.W.: Construction of 48 M Span Steel Truss Motor Bridge over

Kamal River near Village Thalli at Sada Name -Tok in District Uttarkashi.

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi.

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	10		
2.	Wt, kg/m	0.620	0.617 ± 7%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	687.76	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	579.24	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.19	≥ 1.10	By Calculation
6.	Elongation, %	23.0	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.20	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.024	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.030	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.054	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

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TEST REPORT

Description of Sample: TMT Steel Bar 12 mm dia. Make "SHYAM SEL" ULR No.: TC657520000001510F

Sample ID: 220520/09

Sample Quantity: 3x1 mtr..

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 28.8° C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter No.: 22/05/2020

C.B. No.: 176/UDRP/AF/64(BR)

N.O.W.: Construction of 48 M Span Steel Truss Motor Bridge over Kamal River near Village Thalli at Sada Name -Tok in District Uttarkashi.

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi.

Date of Report: 27/05/2020

Date of Testing: 23-26/05/2020

Date of Receipt: 22/05/2020

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	12		
2.	Wt, kg/m	0.892	0.888 ± 5%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	665.54	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	549.30	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.21	≥ 1.10	By Calculation
6.	Elongation, %	22.10	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.17	0.25 Max.	IS: 228 (P-I)-1987, Reaff: 2018
2.	Sulphur as S, % w/w	0.022	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.029	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.051	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



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TEST REPORT

Description of Sample: TMT Steel Bar 16 mm dia. Make "SHYAM SEL" ULR No.: TC657520000001511F

Sample ID: 220520/10

Date of Report: 27/05/2020

Sample Quantity: 3x1 mtr.

Date of Testing: 23-26/05/2020

Sample Condition: Receipt as OK

Date of Receipt: 22/05/2020

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 29.2° C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter No.: 22/05/2020

C.B. No.: 176/UDRP/AF/64(BR)

N.O.W.: Construction of 48 M Span Steel Truss Motor Bridge over Kamal River near Village Thalli at Sada Name -Tok in District Uttarkashi.

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi.

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	16		
2.	Wt, kg/m	1.584	1.58 ± 5%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	694.40	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	586.56	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.18	≥ 1.10	By Calculation
6.	Elongation, %	23.70	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.18	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.026	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.028	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.054	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

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Mobile: +91 7535000490, 491 | Email: metclddn@gmail.com

TEST REPORT

Description of Sample: TMT Steel Bar 20 mm dia. Make "SHYAM SEL" ULR No.: TC657520000001512F

Sample ID: 220520/11

Date of Report: 27/05/2020

Sample Quantity: 3x1 mtr.

Date of Testing: 23-26/05/2020

Sample Condition: Receipt as OK

Date of Receipt: 22/05/2020

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 28.5° C & NA

Addition to, Deviation or Exclusion from the Method: NA

Letter No.: 22/05/2020

C.B. No.: 176/UDRP/AF/64(BR)

N.O.W.: Construction of 48 M Span Steel Truss Motor Bridge over Kamal River near Village Thalli at Sada Name -Tok in District Uttarkashi.

Issued To:

M/s Tons Builders,
Near Telephone Exchange,
Purola, Uttarkashi.

S. No.	Parameters	Test Value	Requirement as per IS-1786-2008 RA: 2018 (Fe-500D)	Method of test
I.	Physical Properties: -			
1.	Dia., mm	20		
2.	Wt, kg/m	2.472	2.47 ± 3%	IS: 1786-2008, Amd.2, Reaff:2018
3.	Tensile strength, N/mm ²	705.15	10% more than actual 0.2 % proof stress/ Yield stress but not less than 565 N/mm ²	IS: 1608-2005 Reaff: 2017
4.	Yield stress, N/mm ²	598.80	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/Y.S Ratio	1.18	≥ 1.10	By Calculation
6.	Elongation, %	22.50	16.0 Min.	IS: 1608-2005 Reaff: 2017
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1599-2019
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1786-2008 Amd.2, Reaff:2018
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.20	0.25 Max.	IS: 228 (P-I)-1987, Reaff. 2018
2.	Sulphur as S, % w/w	0.027	0.040 Max.	IS: 228 (P-IX)-1989 Reaff. 2014
3.	Phosphorous as P, % w/w	0.030	0.040 Max	IS: 228 (P-III)-1987 Reaff. 2018
4.	Sulphur + Phosphorous, % w/w	0.057	0.075 Max.	By Calculation

Note: 1. The Above Test refers only to the Items tested.

2. Statement of Conformity & Decision Rule (In case of Borderline): NA

3. Opinion & Interpretations: NA

*****End of Report*****



Reviewed & Authorised

- The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
- Total liability of our Lab. is limited to the invoiced amount.
- Samples will be destroyed after 90 Days from the date of issue of test report.
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