



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.:** TC657520000001506F

Sample ID: 220520/05

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 28.5°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.
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TEST REPORT

Description of Sample: TMT Steel Bar 12 mm dia. **Make** "SHYAM SEL" **ULR No.:** TC657520000001507F

Sample ID: 220520/06

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 29.1°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	12		
2.	Wt, kg/m	0.892	0.888 ± 5%	
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: 1786-2008, Amd.2, Reaff:2018
4.	Yield stress, N/mm ²	544.32	500 Min.	IS: 1608-2005 Reaff: 2017
5.	TS/YS Ratio	1.21	≥ 1.10	IS: 1608-2005 Reaff: 2017
6.	Elongation, %	21.60	16.0 Min.	By Calculation
7.	Bend test	Satisfactory	No transverse crack in the bend portion should occur	IS: 1608-2005 Reaff: 2017
8.	Rebend test	Satisfactory	No fracture in the bend portion should occur	IS: 1599-2019
II.	Chemical Properties: -			
1.	Carbon as C, % w/w	0.19	0.25 Max.	IS: 1786-2008 Amd.2, Reaff:2018
2.	Sulphur as S, % w/w	0.027	0.040 Max.	IS: 228 (P-I)-1987, Reaff. 2018
3.	Phosphorous as P, % w/w	0.031	0.040 Max	IS: 228 (P-IX)-1989 Reaff. 2014
4.	Sulphur + Phosphorous, % w/w	0.058	0.075 Max.	IS: 228 (P-III)-1987 Reaff. 2018
				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 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,
Purula, 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	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.: TC657520000001509F

Sample ID: 220520/08

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

Sample Plan & Sampling Method: NA

Environment Condition (Temp. & Humidity): 29.1°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,
Purula, 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*****



Reviewed & Authorised

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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*****

Calibration Laboratory
Technical Manager
Pavan Patel
Reviewed & Authorised

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TEST REPORT

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

Sample ID: 220520/11

Sample Quantity: 3x1 mtr.

Sample Condition: Receipt as OK

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.

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	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/YS 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

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