

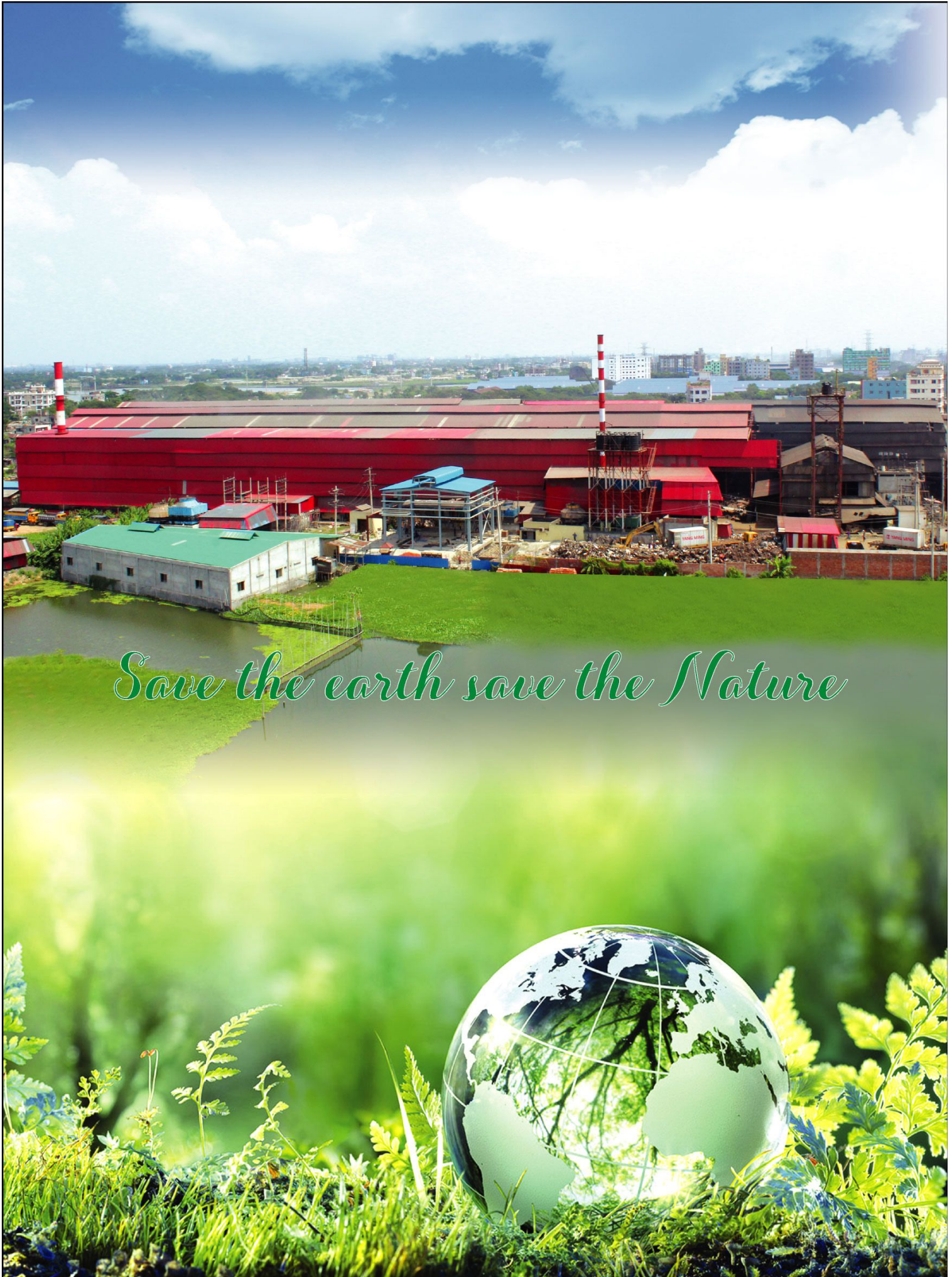


SS
SSRM
WHERE QUALITY COMES FIRST

C o r p o r a t e P r o f i l e



www.ssrn.com.bd



Save the earth save the Nature

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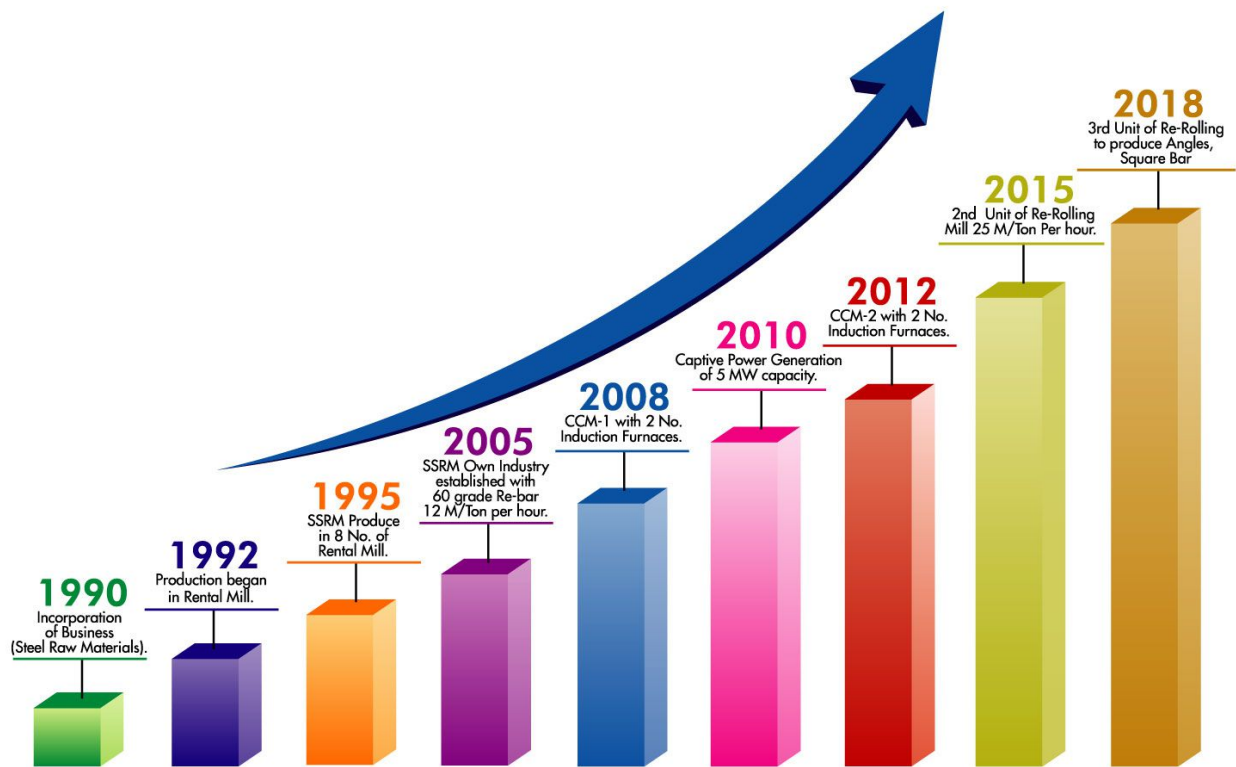


Shahriar steel Mills Ltd.

ISO 9001:2015 Certified company having near 3 (three) decades of experience exclusively in steel marketing and manufacturing. SSRM Playing a Significant role in the development of the country. Shahriar Steel Mills Ltd. fully automatic Integrated ECO-friendly steel plant equipped with state of the art technology and machineries installed to manufacture high strength TMT (thermo mechanically treated) Bar, 400/60 graded Re-Bar and also square Bar, Angles, Channels. The factory is located most closest to the capital city of Dhaka with an installed capacity of Re-Rolling mill 3,00,000 Metric tons and induction furnaces CCM having capacity to produce 3,00,000 Metric tons of MS billets per annum. SSRM have also own power plant of 5 MW generation capacity. SSRM owning to the strict quality control in line with each stage of production performed by experienced engineers & technicians. SSRM products meet the requirements of BSTI and other international Quality standards. SSRM is going to be the strongest Brand in the market for consistent quality, best commitment and high standard dedicated customer services.



Chronological Milestone of SSRM



Vision, Mission & Values

Vision

- Maintain our leadership position in the steel industry by producing the best quality steel products, continuously enhancing Customer satisfaction and becoming a reliable business partner of our customers and suppliers.
- Be an employer of choice, nurturing talent and developing future leaders of the organization.
- Protect the interest of our shareholders through sustainable growth and value creation.
- Support to the society through Corporate Social Responsibility initiatives.



Mission

With a mission to contribute to economic and to the structural development of Bangladesh, Shahriar Steel Mills Ltd. is putting its utmost effort in producing and marketing international quality steel products nationwide. Utilizing the state of the art and eco friendly technologies that will ensure long life customer Relationship.

Values

We are committed living by the following values in all areas and all levels of our business.

INTEGRITY | QUALITY | LEADERSHIP | COMMITMENT
VALUE TO THE CUSTOMER | SUSTAINABLE GROWTH





Chairman Information

SSRM began its journey under the leadership of Sheikh Masadul Alam. In 1992 it began as shahriar steel, Its operations as SSRM began in 2005. The current Managing Director of SSRM Sheikh Masadul Alam is the founder general secretary of the Steel Mills Owners Association; he also functions as the founder chairman of the Bangladesh Auto Re-Rolling and Steel Mills Association.

The perseverance and vision of the founder Sheikh Masadul Alam has been instrumental in overcoming challenges and in making SSRM the excellent Steel Mill it is today. Even though it began its operations at a rented facility, today the mill operates within a massive premise which is self owned. This factory which is the closest to the capital Dhaka has a daily production capacity of 10/12 tons per hour which has been increased to 30/35 tons per hour. Kepping in mind its contribution to the national economy, its social resposibility and in order to maintain its employment opportunity, SSRM has never compromise on quality. The core objective of production of SSRM remains to be able to provide top of the line deformed bars to its customers, at the most affordable price. SSRM is amongst the top five manufacturers of MS rod in the country, Sheikh Masadul Alam dreams of the day when SSRM will be recognized as the top manufacturer in the country. He would like to achieve this dream by 2020 which may include a new venturre.

**TECHNOLOGIES
WE ARE EXPERT WITH**

1. State-of-the-Art Technology.
2. 4 No's induction furnace.
3. 2 No's continous casting mechine (CCM) Plant.
4. Programmable Logic Control [PLC] technology.
5. Computer Numerical Control [CNC] based rib & notch cutting Technology.
6. Thermo Mechanical Treatment [TMT] technology.
7. Automatic walking beam Cooling Bed [ACB] technology.
8. Air polution control (APC) technology.
9. Physical lab with latest UTM Facilities.
10. Chemical lab with updated Spectrometer.

STEEL MELTING SHOP/ MS BILLET

Shahriar steel melting shop comprises with 4 Nos. Induction furnaces and Continuous casting machine (CCM) having Capacity to produce 3,00,000 metric Tons of MS Billets per annum has played a significant roll to back up our production of MS DEFORMED BARS at our rolling mills. Our steel melting shop directed by qualified personnel where efficient engineers and technicians working hard to achieve maximum production with ensuring quality by maintaining national & international standard. There is a chemical laboratory having facilities to analyze chemical composition of steel grades by most modern spectrometer and other sophisticated equipments to determine the percentage of Carbon, Manganese, Sulfur, Phosphorous and other elements. A purchaser has the opportunity to analysis the specimen from "shahriar Steel" to check the composition in accordance with standards. There is air pollution control (APC) plant inside the establishment. It removes hazardous particles from the smoke emits and keeps the environment sound and healthy. Also, maximum precaution for safety measure is strictly maintained in our plant.



Production Process



Melting



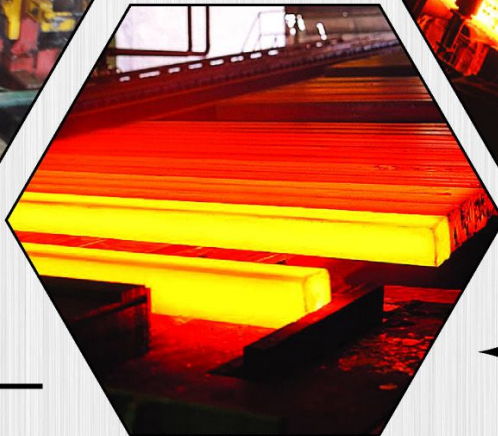
Quality Control in Lab



Rolling



CCM



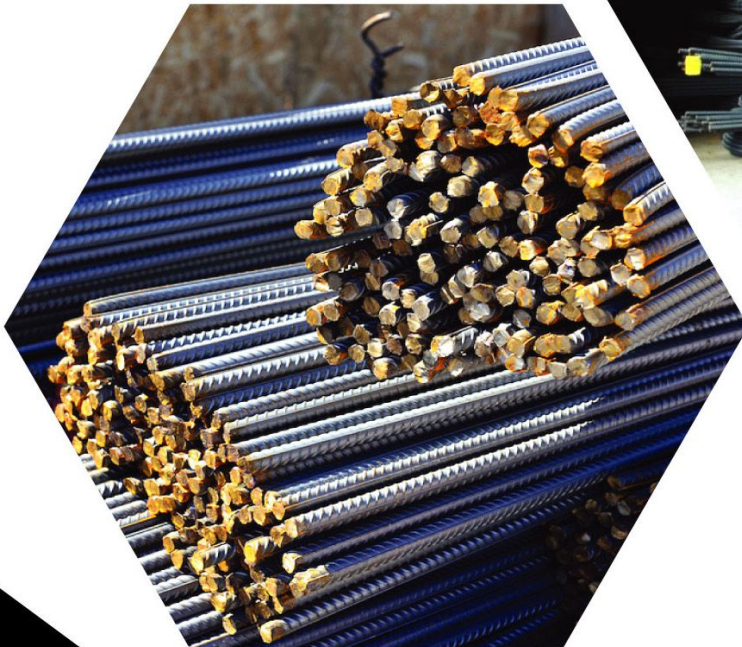
Hot Billet

MS Billet



Products

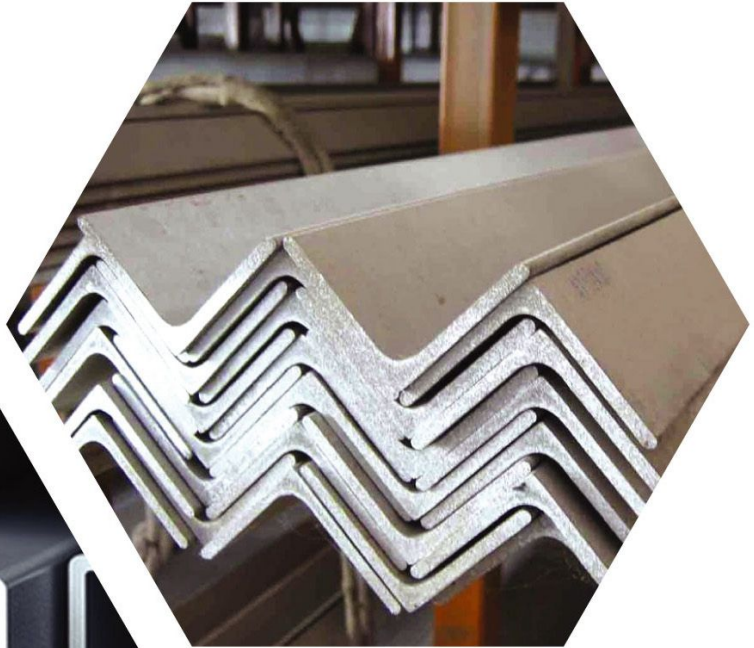
400/60G



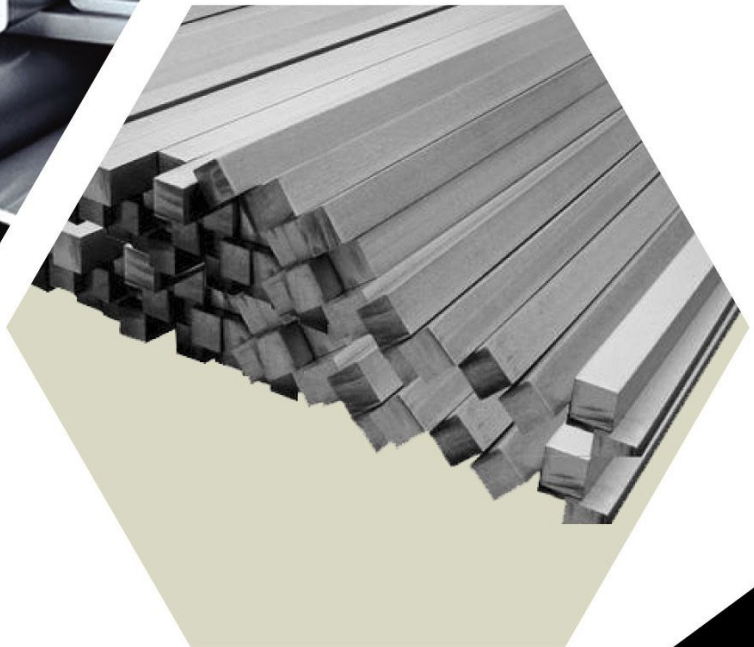
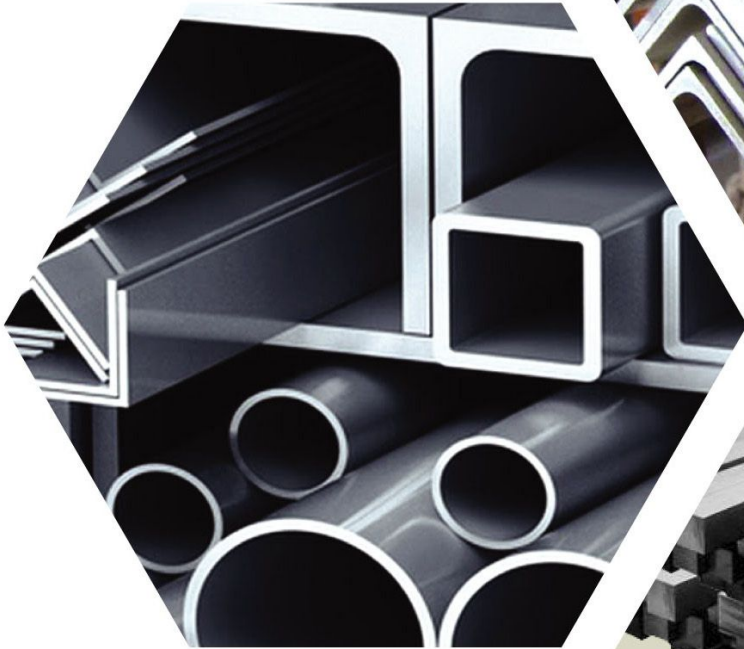
TMT 500W

Products

Angles

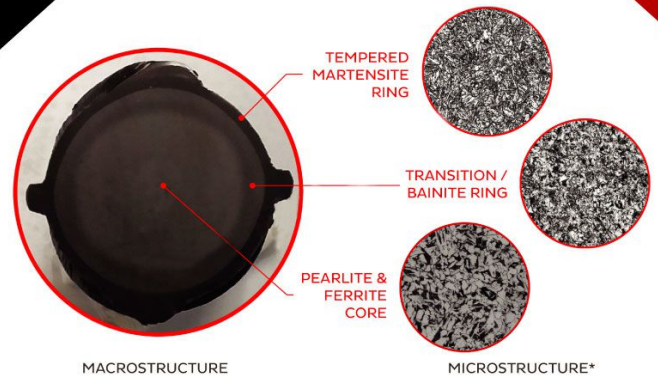


Channels



Square Bar

**SSRM TMT
500W**



QUENCHING & TEMPERING
structure of a quenched & tempered bar

Thermo mechanically treated steel known as a TMT steel can be introduced as a new-generation-high-strength steel having superior properties such as superior weld ability, high strength with ductility and bend ability meeting highest quality standards, at international level. Under thermo mechanical treatment (TMT) of bars, the steel bars are made to pass through a specially designed water cooling system where they are kept for such a period that the outer surface of bars becomes colder while the core remains hot. This creates a temperature gradient in the bars. When the bars are taken out of the cooling system, the heat flows from the core to the outer surface causing further tempering of steel bars thereby helping them in attaining higher yield strength without minimizing ductility.

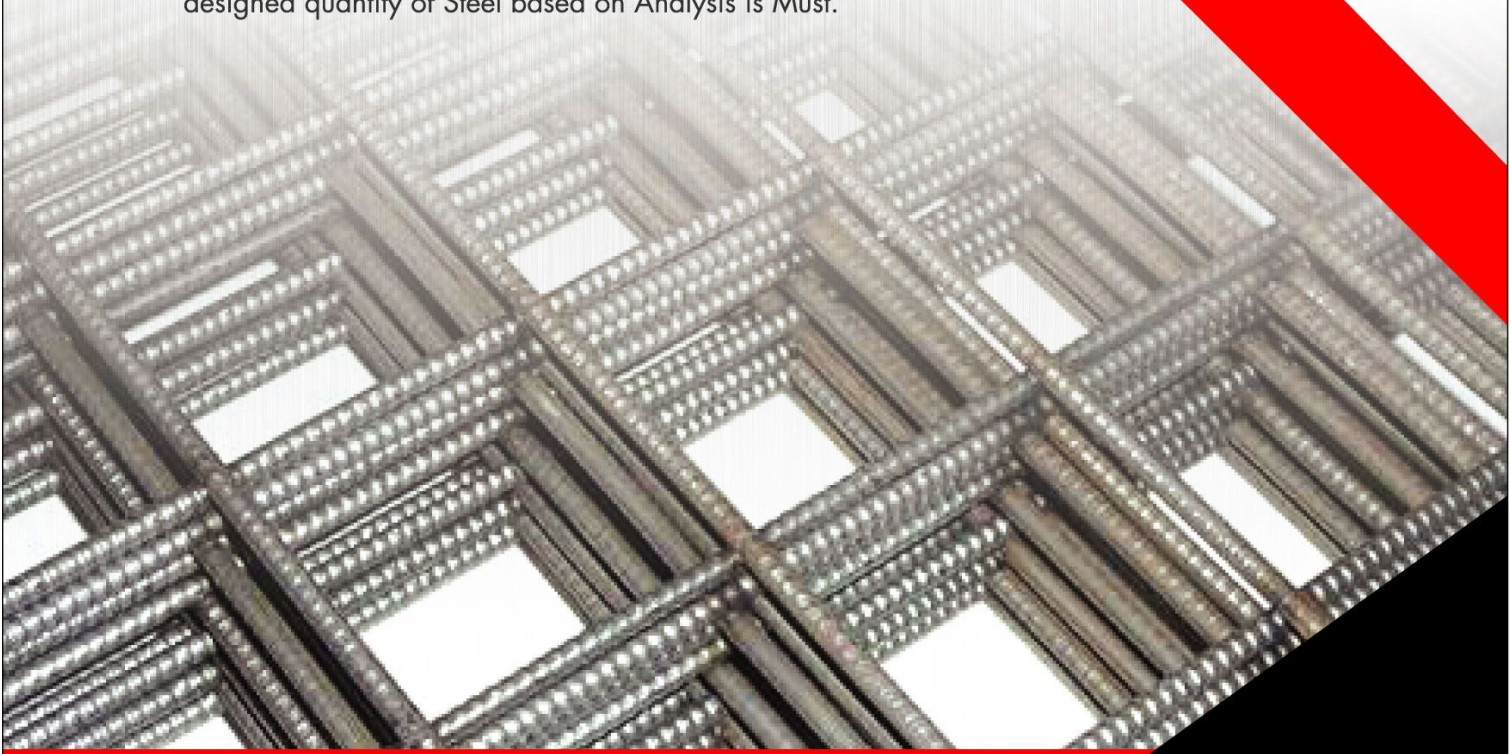
To decide the percentage of carbon content in steel has been a major challenge for the Engineers. While certain minimum carbon content in steel is essential to achieve the required strength, an excess of carbon content threatens its property of weld ability. In TMT bars, this problem has been eliminated. In these bars, the carbon content is restricted to 0.24% to attain weld ability and at the same time no strength is lost on this account. The joints can be welded by ordinary electrodes and no extra precautions are required.

Another advantage of TMT bars is their tough surface providing high yield strength and a soft core providing excellent ductility. Strength, weld ability and ductility are such properties which declare TMT steel highly economical and safe for use.

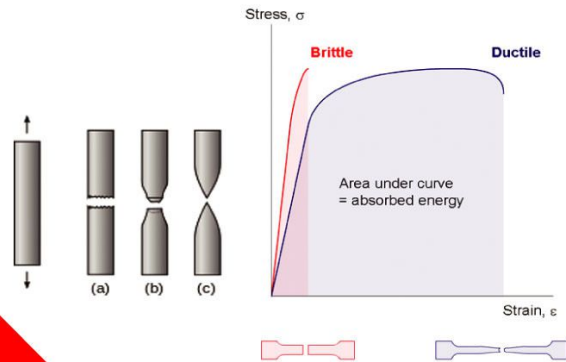
Why you Prefer SSRM TMT 500W

IMPORTANCE OF STEEL AS REINFORCEMENT

- Reinforces the Tension Capacity of the Concrete.
- Tensile Strength of Concrete is very low, So Reinforcement is Required to Resist Tensile Forces.
- Resist not only Tensile Forces but also the Compressive forces as in the case of Struts & Columns.
- It minimizes the Micro-Cracking due to Secondary Effects such as Shrinkage, Creep, Moisture & Thermal Variations.
- More Reinforcement doesn't mean more Strength hence proper designed quantity of Steel based on Analysis is Must.



Why you Prefer SSRM TMT 500W



Fire Resistance :

Withstand High Temperature up to 700°C.

Ductility :

Due to High Elongation & Ductility TMT bars are highly Seismic Resistant-Hence Preferred in Earthquake Zones- Guaranteed elongation well above 16% (Usually 20% - 30%)

Corrosion Resistance:

Chemical Composition along with TMT Process Avoids Torsional Residual Stresses in the Bar.

Bending :

Exhibits very high Bendability & Re-Bendability due to lower Carbon Content & Higher Elongation.

Weldability :

TMT Bars don't Suffer from loss of Strength due to Excellent Weldability. Weldability is Consistent. No Pre-heating or Post Heating is necessary during Welding.

Savings:

Saving of more than 15% in Steel Consumption.

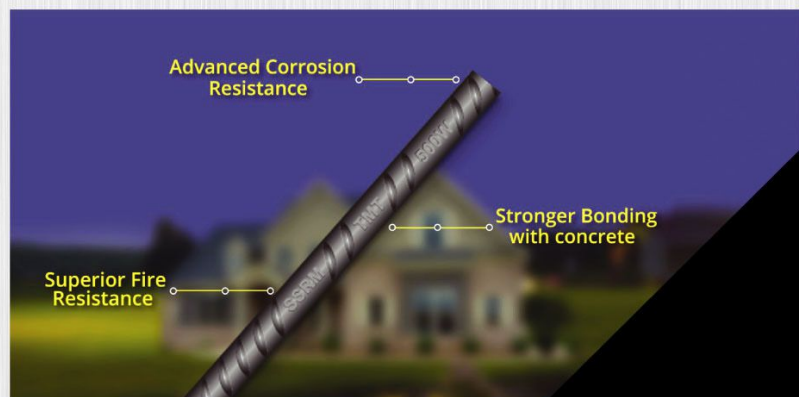
Consistency:

Superior product with Consistent Properties.

Immediate Delivery:

Possible to Dispatch Customers almost Immediately after rolling is Complete.

Others : Toughness, Hardness, Excellent Straightness, High Strength, High Fatigue Resistance on Dynamic Loading.



PRODUCT FEATURES



Product Standard

SSRM following BDS ISO 6935-2:2016 standard meticulously which is approved by BSTI. Moreover SSRM product also compliance with many international standards likes ASTM 615, ASTM 706, BS4449, DIN 488, GOST R 52544, IS 1786, GIS G 3112, AS/NZS 4671 etc.

Technical Specifications:

Deformed ribbed bars made from billets & complies with latest BDS ISO 6935-2:2016, ASTM A615 (G=60) & BDS ISO 6935(B400WR/RB400) standard requirements.

TMT 500W

Mechanical properties						
YS (Mpa)	UTS (Mpa)	T/Y	% Elongation	%A _{gt}		
500(Min.)	575(Min.)	1.15(Min.)	14(Min.)	7 (Min.)		
Chemical Properties						
%C	%Mn	%Si	%S	%P	%(S+P)	CEV
0.24 (Max.)	1.60(Max.)	0.60 (Max.)	0.05(Max.)	0.05(Max.)	0.10 (Max.)	0.52(Max.)

RB-400

Mechanical properties						
Y.S (Mpa)	UTS (Mpa)	% Elongation (GL: 5D)				
420 (Min.)	620(Min.)	14 (Min.)				
Chemical Properties						
%C	%Mn	%Si	%S	%P	%(S+P)	CEV
0.33 (Max.)	1.55(Max.)	0.55(Max.)	0.05(Max.)	0.05(Max.)	0.10 (Max.)	0.50 (Min.)

SSRM STANDARD FOR UNIT WEIGHT & ACTUAL DIAMETER

Nominal Diameter (mm)	Nominal Weight (Kg/m)	Tolerances	Cross Sectional Area (mm ²)	Unit Weight (Kg/m)			Actual Dia. (mm)		Approx. Length per MT	
				Minimum	Minimum	Average	Minimum	Minimum	Meter	Feet
8	0.395	±8	50.27	0.383	0.395	0.389	7.88	8.00	2571	8434
10	0.617	±6	78.54	0.598	0.617	0.608	9.85	10.00	1646	5401
12	0.888	±6	113.10	0.861	0.888	0.875	11.82	12.00	1144	3752
16	1.580	±5	201.06	1.548	1.580	1.564	15.85	16.00	639	2098
20	2.470	±5	314.16	2.421	2.467	2.444	19.82	20.00	409	1342
22	2.984	±4	380.13	2.924	2.984	2.954	21.78	22.00	339	1111
25	3.850	±4	490.88	3.773	3.853	3.813	24.74	25.00	262	860
28	4.840	±4	615.75	4.743	4.840	4.792	27.74	28.00	209	685
32	6.310	±4	804.25	6.184	6.310	6.247	31.67	32.00	160	525

How we maintain Our quality

- Confirm scrap as per scrap specifications. After receiving scrap measured the bulk density, melting time, tap to tap time, yield & chemistry.
- During melting, charge scrap as per charge mix. After min. 4 times checking & Chemical addition ensures the perfect chemistry of billets as per standard.
- During casting through CCM with PLC automation ensures billet Rhomboidity, straightness, angular twist, Chamber, Internal cracks etc. are within the standard.
- Rolling Mill charge the billets in re-heating furnace as per heat wise.
- Ensures quality of re-bars by testing in every 20 minutes interval & checking the Y.S, UTS, A5, Agt, bending & re-bending properties.
- Finally insert TAG in the bundle mentioning Date of production, Grade, Size, Standard, Bundle No., Bundle Weight, Heat no., Manufacturer name etc. to trace back.
- During delivery recheck the bundles again & confirmed.





BUET TESTED

Test Reports
SSRM TMT 500W



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)
DEPARTMENT OF CIVIL ENGINEERING
Mobile: 01819 557 964; PABX: 966 5650-80 Ext. 7226; www.buet.ac.bd/ce/
STRENGTH OF MATERIALS LABORATORY



TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)
Sent by: General Manager (Plant)
Shahriar Steel Mills Limited, Konopara, Jatrabari, Dhaka.
Project: NA
BRTC No.: 1101-91519/CE/19-20; Dt: 10/7/2019
Ref.: Letter: Dt: 10/7/2019
Date of Test: 13/7/2019
Contractor/supplier: -

Table with 18 columns: Sl. No., Frog Mark / Identification, Nominal dia., Actual dia., Mass Per Unit Length, Average Mass Per Unit Length, Yield or Proof Load, Yield or Proof Strength, Average Yield Strength, Tensile Load, Tensile Strength, Average Tensile Strength, Rm, Rp0.2, Total Elongation, Average Total Elongation, Bend Test, Re-bend Test.

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)
Nominal bar dia., mm: 8, 10, 12, 16, 20, 25, 28, 32, 40, 50
Nominal cross sectional area, sq.mm: 50.3, 78.5, 110.4, 201.1, 314.2, 491.0, 785.4, 1257.0, 1963.5
Nominal mass per Nominal, kg/m: 0.620, 0.920, 1.370, 2.460, 3.850, 5.950, 9.260, 14.100, 21.500

Table with 5 columns: Steel Grade, Yield Strength, Rp0.2, Rp0.01, and Elongation.

Authenticity of this page is verifiable from http://verify.ce.buet.ac.bd with the QR Code or ID



BTFCd548J

Countersigned by: Prof. Dr. Md. Abdul Jalil, Test-in-Charge, Dept. of Civil Engg., BUET

Test performed by: Dr. Mohammed Kabirul Islam, Professor, Dept. of Civil Engg.

Important Note: Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that the samples are sent in a secure and sealed cover/packet/container under the signature of a competent authority. In order to avoid fraudulent fabrication of test results, this report has been printed on a security paper. It is also recommended that the test results be collected by a duly authorized person.



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STRENGTH OF MATERIALS LABORATORY



TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)
Sent by: General Manager (Plant)
Shahriar Steel Mills Limited, Konopara, Jatrabari, Dhaka.
Project: NA
BRTC No.: 1101-91519/CE/19-20; Dt: 10/7/2019
Ref.: Letter: Dt: 10/7/2019
Date of Test: 13/7/2019
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Table with 18 columns: Sl. No., Frog Mark / Identification, Nominal dia., Actual dia., Mass Per Unit Length, Average Mass Per Unit Length, Yield or Proof Load, Yield or Proof Strength, Average Yield Strength, Tensile Load, Tensile Strength, Average Tensile Strength, Rm, Rp0.2, Total Elongation, Average Total Elongation, Bend Test, Re-bend Test.

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)
Nominal bar dia., mm: 8, 10, 12, 16, 20, 25, 28, 32, 40, 50
Nominal cross sectional area, sq.mm: 50.3, 78.5, 110.4, 201.1, 314.2, 491.0, 785.4, 1257.0, 1963.5
Nominal mass per Nominal, kg/m: 0.620, 0.920, 1.370, 2.460, 3.850, 5.950, 9.260, 14.100, 21.500

Table with 5 columns: Steel Grade, Yield Strength, Rp0.2, Rp0.01, and Elongation.

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Countersigned by: Prof. Dr. Md. Abdul Jalil, Test-in-Charge, Dept. of Civil Engg., BUET

Test performed by: Dr. Mohammed Kabirul Islam, Professor, Dept. of Civil Engg.

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Test Reports

SSRM RB 400



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STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]

Sent by: General Manager (Plant)
 Sharer Steel Mills Limited, Konapara, Jatrabari, Dhaka.
 Project: NA

BRTC No.: 1101-91519/ICE/19-20; Date: 10/7/2019

Ref.: Letter, Date: 10/7/2019
 Date of Test: 13/7/2019

Contractor/supplier: -

Samples were received in sealed condition.

Sl. No.	Frog Mark / Identification	Bar Desig./Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	TS/YS	Elongation (%)	Average Elongation (%)	Bend Test
		mm	mm	kg/m	kg/m	kN	MPa	MPa	kN	MPa	MPa		(G. length = 200 mm)		
1	SSRM RB 400	10	9.9	0.603		34.6	438	437	49.8	620	616		16		Satisfactory
2	SSRM RB 400	10	9.9	0.602	0.604	35.1	444	(63500 psi)	45.8	620	(89000 psi)	1.41	17	17	Satisfactory
3	SSRM RB 400	10	9.9	0.607		33.7	427		48	620			17		Satisfactory
1	SSRM RB 400	12	12.0	0.892		51.5	466	454	80.4	710	700		18		Satisfactory
2	SSRM RB 400	12	12.0	0.890	0.891	51.9	460	(66000 psi)	79.5	705	(101000 psi)	1.54	19	18	Satisfactory
3	SSRM RB 400	12	12.0	0.892		50.6	448		77.3	685			17		Satisfactory
1	SSRM RB 400	16	16.1	1.602		98.3	489	494	132	660	665		17		Satisfactory
2	SSRM RB 400	16	16.0	1.587	1.600	100	499	(71500 psi)	135	675	(96500 psi)	1.35	16	17	Satisfactory
3	SSRM RB 400	16	16.2	1.610		99.3	494		134	670			18		Satisfactory
1	SSRM RB 400	20	20.0	2.463		143	465	463	206	655	675		18		Satisfactory
2	SSRM RB 400	20	20.1	2.480	2.463	148	471	(67000 psi)	212	675	(97500 psi)	1.46	17	17	Satisfactory
3	SSRM RB 400	20	19.9	2.446		145	462		217	690			17		Satisfactory
1	SSRM RB 400	25	24.9	3.821		210	428	442	301	615	635		19		Satisfactory
2	SSRM RB 400	25	25.0	3.846	3.824	213	434	(64000 psi)	309	630	(92000 psi)	1.44	20	19	Satisfactory
3	SSRM RB 400	25	24.8	3.805		228	464		323	660			19		Satisfactory

ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1)

Bar Desig./Nominal dia., mm	10	12	16	20	25	32	38	45	50	60
Nominal area, sq. mm	79	113	201	314	380	491	616	804	1018	1257
Nominal weight, kg/m	0.617	0.888	1.578	2.466	3.853	4.834	6.313	7.99	9.865	15.41

Conversion factor: 10 MPa = 1.0 N/mm² = 145 psi

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S383LMDLJ

Countersigned by:
 Prof. Dr. Md. Abdul Jalil, Test-in-Charge
 Dept. of Civil Engg., BUET

Test performed by:
 Dr. Mohammed Kabirul Islam
 Professor, Dept. of Civil Engg.

BRTC 045660

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STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]

Sent by: General Manager (Plant)
 Sharer Steel Mills Limited, Konapara, Jatrabari, Dhaka.
 Project: NA

BRTC No.: 1101-91519/ICE/19-20; Date: 10/7/2019

Ref.: Letter, Date: 10/7/2019
 Date of Test: 13/7/2019

Contractor/supplier: -

Samples were received in sealed condition.

Sl. No.	Frog Mark / Identification	Bar Desig./Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	TS/YS	Elongation (%)	Average Elongation (%)	Bend Test
		mm	mm	kg/m	kg/m	kN	MPa	MPa	kN	MPa	MPa		(G. length = 200 mm)		
1	SSRM RB 400	32	32.1	6.368		396	493	492	519	645	645		21		Satisfactory
2	SSRM RB 400	32	32.0	6.331	6.349	389	484	(71500 psi)	509	635	(93500 psi)	1.31	20	21	Satisfactory
3	SSRM RB 400	32	32.1	6.349		401	499		527	655			22		Satisfactory

ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1)

Bar Desig./Nominal dia., mm	10	12	16	20	25	32	38	45	50	60
Nominal area, sq. mm	79	113	201	314	380	491	616	804	1018	1257
Nominal weight, kg/m	0.617	0.888	1.578	2.466	3.853	4.834	6.313	7.99	9.865	15.41

Conversion factor: 10 MPa = 1.0 N/mm² = 145 psi

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HA43g6FEZ

Countersigned by:
 Prof. Dr. Md. Abdul Jalil, Test-in-Charge
 Dept. of Civil Engg., BUET

Test performed by:
 Dr. Mohammed Kabirul Islam
 Professor, Dept. of Civil Engg.

BRTC 045673

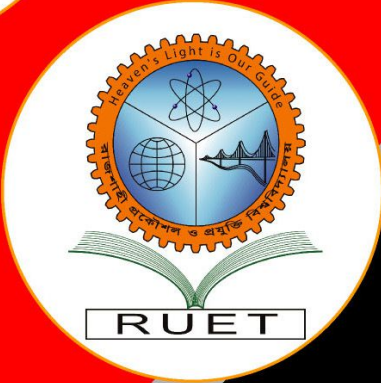
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CUSTOMER SERVICES

- Prompt uninterrupted smooth delivery via company own large no. of vehicle system with long vehicle.
- Quick technical support facilities by own qualified most professional technical support team.
- Product availability at satisfactory level.
- 24 hours stand by Hot line "customer care."
- To ensure loaded vehicle proper packed with Auto lock (sealed).



Our Certifications





SHAHRIAR STEEL MILLS LTD.

- 📍 Head Office & Factory
Konapara, Jatrabari, Dhaka-1362
- ✉ info@ssrm.com.bd
- ☎ +88 02 7559167, 7559602 7559222, 7559528
- 📞 +88 01976 280 140-144

