

ENLISTMENT & CERTIFICATION

CUSTOMER SATISFACTION
IS OUR FIRST PRIORITY



Country's Strongest Steel



rrmsteel.com.bd



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[RRM STEEL](https://www.youtube.com/RRMSTEEL)

দেশের সবচেয়ে শক্তিশালী স্টিল



RRM
STEEL



জাতীয় ও আন্তর্জাতিক মান নিয়ন্ত্রণকারী
প্রতিষ্ঠান কর্তৃক অনুমোদিত স্টিল

আর আর এম স্টিল



RRM // GOLD // B500 DWR //

A Concern of RRM GROUP

■ THE RANI RE-ROLLING MILLS LTD. ■ THE RANI CONCAST STEEL MILLS LTD.

CORPORATE OFFICE: PLOT-44, PROGOTI SHORONI, MAIN ROAD, BLOCK-J, BARIDHARA, DHAKA-1212, BANGLADESH. Call: 01777758190

FACTORY: ROAD- 21, PLOT- 32, SHYAMPUR KADAMTALI, INDUSTRIAL AREA, DHAKA -1204, BANGLADESH. Call: 01777758100

With strong mission and vision leadership of Sumon Chowdhury-the Chairman of **RRM Group** is on the thruway of expansion and growth undertaking extensive Research & Development segment to understand the measures of the current market, entered into the fully automatic steel industry with clear objectives and a significant business plan.

In 1997 the founder of The Rani Re-Rolling Mills “RRM” Al Hajj Abul Bashar started his first integrated re-rolling plant in Shyampur Kadamtali, Industrial Area, Dhaka, Bangladesh to manufacture structural section Angles, Z-bars. And gradually it has achieved customer satisfaction in Bangladesh steel market.

In the year of 2003 Al hajj Abul Bashar, Founder of The Rani Re Rolling Mills“RRM” suddenly became ill. During that time he became unable to perform for all company affairs. In that situation, his elder son Sumon Chowdhury took over the overall responsibility and expanded the business with corporate formation and added two more business wings. The Rani Concast Steel Mills Ltd in the year 2005 and Wafeeqa Real Estate Limited in the year of 2011.

With timely growth He experienced the present market, analyzed the future business prospect and implement the latest upgraded technology in steel manufacturing sector for the first time in Bangladesh and established a new modern steel plant, which is more productive, produces accurate sized and weighted products (a very crucial feature for steel products) and environment friendly.

Continuing further expansion with necessary research and development, the Group expanded various business wings in different sectors viz;

1. The Rani Re-rolling Mills Ltd.
2. The Rani Concast Steel Mills Ltd.
3. RRM Alloy Steel Industries Limited
4. RRM Mega Constructions Limited
5. Wafeeqa Real Estate Limited
6. Schematics Limited

RRM has embarked upon a series of initiatives aimed at increasing its production capacity, the ongoing modernization and technically advanced expansion projects are designed like international steel organization. More than 1000 employees are working together to take our organization in the peak of success.

Riding on the growth landscape, RRM has visualized a multi business strategy for a successful entry into the different sector of steel industry and achieving phenomenal growth in every year.

The Company is also prepared to leverage International network resources and committed to achieve a renowned position in the steel industry as well as International markets. RRM is enriched with qualified and experienced business executives, foreign skilled engineer and technical hands, to meet the expectation of our stakeholders across the Country.

RRM firmly believes in growing and achieving new height of success. We are the proud manufacturer of best quality steel in the nation and wish to establish our milestone in the infrastructural map of Bangladesh. Our strong determinations to grow and maintain high quality standard steel product has won many accolades. RRM strives to maintain a respectable position in the steel industry of Bangladesh.



RRM Corporate Profile

The Rani Re-Rolling Mills Ltd. (RRM) is imbued with a forward looking vision to acquire a global perspective and become a first rate business conglomerate.

RRM has a track record in manufacturing of mild steel structural Re-bars and Wire products in Bangladesh since decades.

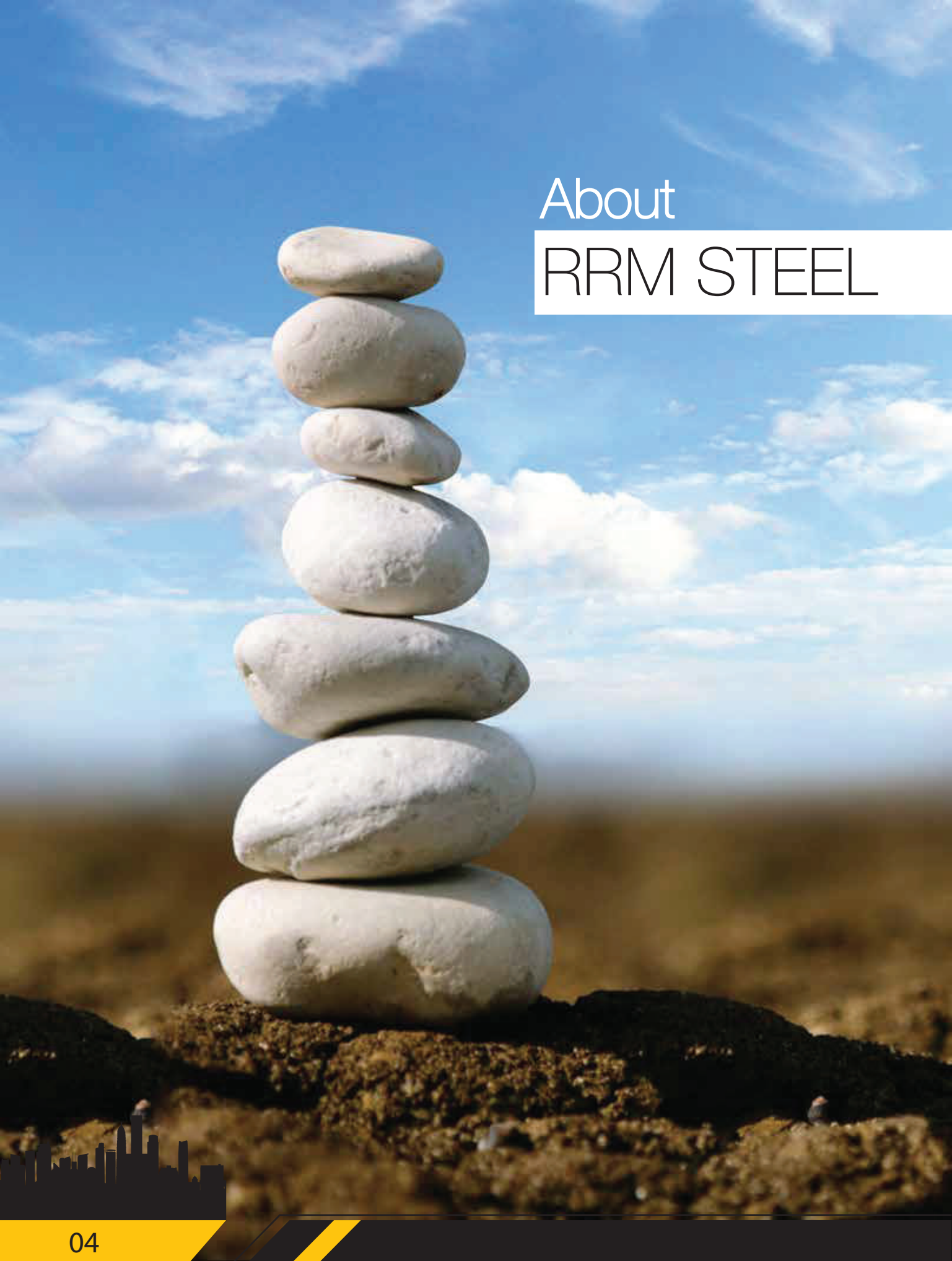
With 25 years of experience in the steel manufacturing industry, RRM has a strong reputation history in adding value to its customer and dealer relationships maintaining standard quality product with exact section weight, accurate shape and timely delivery.

Our core philosophy is to produce safe, environment friendly and sustainable steel to our loyal customers and safety is the top priority in our works. Additionally, the pursuit of business excellence is our standard norms and significant focus on innovations, continuous research & development is our standard practice on national interest.

For the development of any modern economy, steel is vital and is considered to be the backbone of human civilization. The Steel industry is an established and growing industry in Bangladesh.

RRM has been endowed to expand the unparalleled faith of people. ‘Strength & Safety’ is the ultimate motto of the company. Our products are being used at Govt. sector, real estate, and concrete roads, fly over & bridge etc. Nationwide.

RRM is manufacturing High Quality international Standard TMT bar in brand name of “RRM GOLD B420DWR, RRM GOLD B500CWR, RRM GOLD B500DWR” We want to achieve our long term goal rather than short term goal by implementing new technologies, developing new products and attributes.



About

RRM STEEL



RRM
STEEL

দৃঢ়তার
উৎকর্ষে
অবিচল

RRM GOLD
B420 DWR

60 GRADE

RRM GOLD
B500 CWR
RRM GOLD
B500 DWR

75 GRADE

দেশের সবচেয়ে শক্তিশালী স্টিল



আমরা জানি আপনার
মঠিক প্রয়োজন



www.rrmsteel.com.bd



Al Hajj Abul Bashar

Founder - The Rani Re-Rolling Mills (RRM)

MESSAGE from Founder of RRM

As a development-driven company, “The Rani Re-Rolling Mills Ltd.”, the steel manufacturing wing of RRM GROUP is characterized by its ability to create and develop steel industry opportunities. From the establishment period since last 25 years, RRM is optimizing its operations through quality based management and implementing new technologies. Further, to our successful historical milestones, starting from the promotion of an extensive supply platform for steel products, to the acquisition and then the expansion of Bangladeshi domestic market. RRM has been committed to deliver steel solutions characterized by our corporate heritage: outstanding professional expertise and absolute transparency.

Furthermore, sustainable economic growth is taking place in our country. So, it is expected that a booming construction period will be experienced in steel market during the next few years. We took a challenging and strategic decision to develop our corporate identity by entering directly into the steel industry. Our aim is to install high quality standard machines which will reduce the energy cost and environment friendly. Finally, our factory seeks to provide the best quality TMT bars to meet all the needs of the clients. RRM asserts our exclusive product “**RRM GOLD B420DWR, RRM GOLD B500CWR, RRM GOLD B500DWR**” is the best ever steel in Bangladesh. Though RRM is facing high competitions and challenges in the domestic market, we are determined to establish RRM as a market leader in the steel industry in Bangladesh.





Dr. Sumon Chowdhury

Chairman - RRM Group

Vice President

Bangladesh Steel Manufacturers' Association

MESSAGE from Chairman of RRM Group

Since 1997, RRM Steel producing Steel Rebar (60G & 75G) in Bangladesh. This business has succeeded enough to create new horizons for both our own staffs and the communities.

However, we have been able to achieve good market reputation by our loyal clients, dealers & well-wishers through using high-tech machineries, fully automated manufacturing system, international standards chemical & Physical Lab. With a primary focus on quality of our product, our R & D team have been able to continuously improve and enhance our performance.

We are pleased to say that we have flourished in our role as a pioneer and rapidly establishing the company as the ideal partner to many prestigious projects of this country. Today, we are creating for the enormous majority of local market demand.

We are excited to see what challenges and achievements lie ahead for RRM Steel's future. I am confident that with our state-of-the-art production process, team of dedicated professionals, Management, safety and environmental efforts, as well as experience engineering team. We will not only continue to maintain our leadership in the market, but become a successful player in the Nation.

Furthermore, I would like to place on record my appreciation to all RRM Steel Family, for their dedication and excellent contribution. I would like to thank my father, Md. Al-hajj Abul Bashar (The Founder chairman of RRM Group), and thanks to my younger brother Shuvo Chowdhury (Managing Director of the RRM Group) for their enormous contributions of the companies.

Last but not the least, as an existing or potential customer, your unstinted support is highly valued as we continue to grow and participate in the development of the steel industry in Bangladesh.”





Shuvo Chowdhury

Managing Director - RRM Group

Managing Director - The Rani Concast Steel Mills Ltd.

Deputy Managing Director- The Rani Re-Rolling Mills Ltd.



MESSAGE from Managing Director of RRM Group

I personally believe, TRUST is more important than anything in today's market. Wherever RRM operates, we make sure to conduct our business in a mannerly way reflecting our company's policy and ethics. We have been serving as a trusted infrastructure partner of Bangladesh for the past 3 decades. Throughout our business journey we have successfully established our organization's high reputation. Thanks to the Founder Chairman of RRM Steel (Late Al-Haj Abul Bashar), my father who began the journey of this business while having an enormous vision for this company. Through his principles and skills, we were able to come this far.

Our organization always strive to go for efficiency. Whether it's our product, factory, customers or any other vital area. Thus, we care more about the ones that are connected with our business. The complexity of business in a monopolistic competition market is to provide better to our end users than our competitors. As year by year the market keeps getting saturated, it becomes more challenging for us. And that makes us push ourselves even more to discover our maximum skills. Moreover, we love creating opportunities for customers, business partners, employees and anyone related to our business because this builds a strong and long lasting relationship of GIVE&TAKE.

Ever since I have joined this business (2015), I've taught myself to bring out the best in me. While maintaining the principle and ethics of this company, I have contributed my maximum output for the betterment of this company, which certainly has given a good result to our organization. Despite, our business facing lot of obstacles and road blocks, I was able to conclude to every problem which tried to hold the company backwards. Just like I mentioned above, I do not like to play with other people's TRUST. And that's one of my own principles that have got me this far. Through my business journey, I've seen ups and down. Learned a lot about people and my surroundings, internally and externally that were unfavorable for this organization. This experience of mine taught me a lot about business life, which I can say is worth millions. I am truly happy and proud of how much this company has achieved and makes me even more proud that it has numerous of my contributions.

Lastly, I would like to thank my brother (Sumon Chowdhury) Chairman of RRM Steel for believing in me and giving me the chance to prove myself. His sacrifices and hard work held up the company in the absence of our father. I admire his dynamic and innovative skills. Moreover, I would also like to thank some of my fellow members of RRM Family, business partners and customers for maintaining a powerful and healthy environment for the welfare of this reputed and esteemed organization.



RRM
STEEL



Rani Chowdhury

Director - RRM Group



MESSAGE from Director of RRM Group

RRM Steel family has strongly strived towards their goal. In the past twenty-five years, RRM Steel effectively overcame the market challenges and stayed ahead in the national industry by focusing on the areas such as improvement of industrial layout, adjustment of product, optimization of cost performance, technological innovation, and overall competitiveness.

We have also achieved advances in the development of technological innovation systems and intensified our R&D inputs and efforts, producing fruitful R&D achievements and thus providing strong support for the Company's efforts to sustain its competitive edge.

Though we are producing our Steel Bar by using Direct Hot Technology (DHR) which is sustainable for the environment and we continue to advance our environmental-friendly management strategy and become a driver of the green industry chain.

However, RRM Steel has reached a new level of success with fully automatic technology and Total Quality Management ISO 9001:2015 to deliver the highest quality ASTM, BS & BDS ISO standard approved TMT bars. Our organization's belief in quality, transparency, advanced technology, and a capable skilled force has led us to stay committed to our promise of delivering our best and will continue to be the central dynamic force in everything we do.

I would like to thank my father Abul Bashar & my elder brother Mr. Sumon Chowdhury, Chairman of RRM Group, and Mr. Shuvo Chowdhury, Managing Director of RRM Group for their huge contributions to the development of this industry.

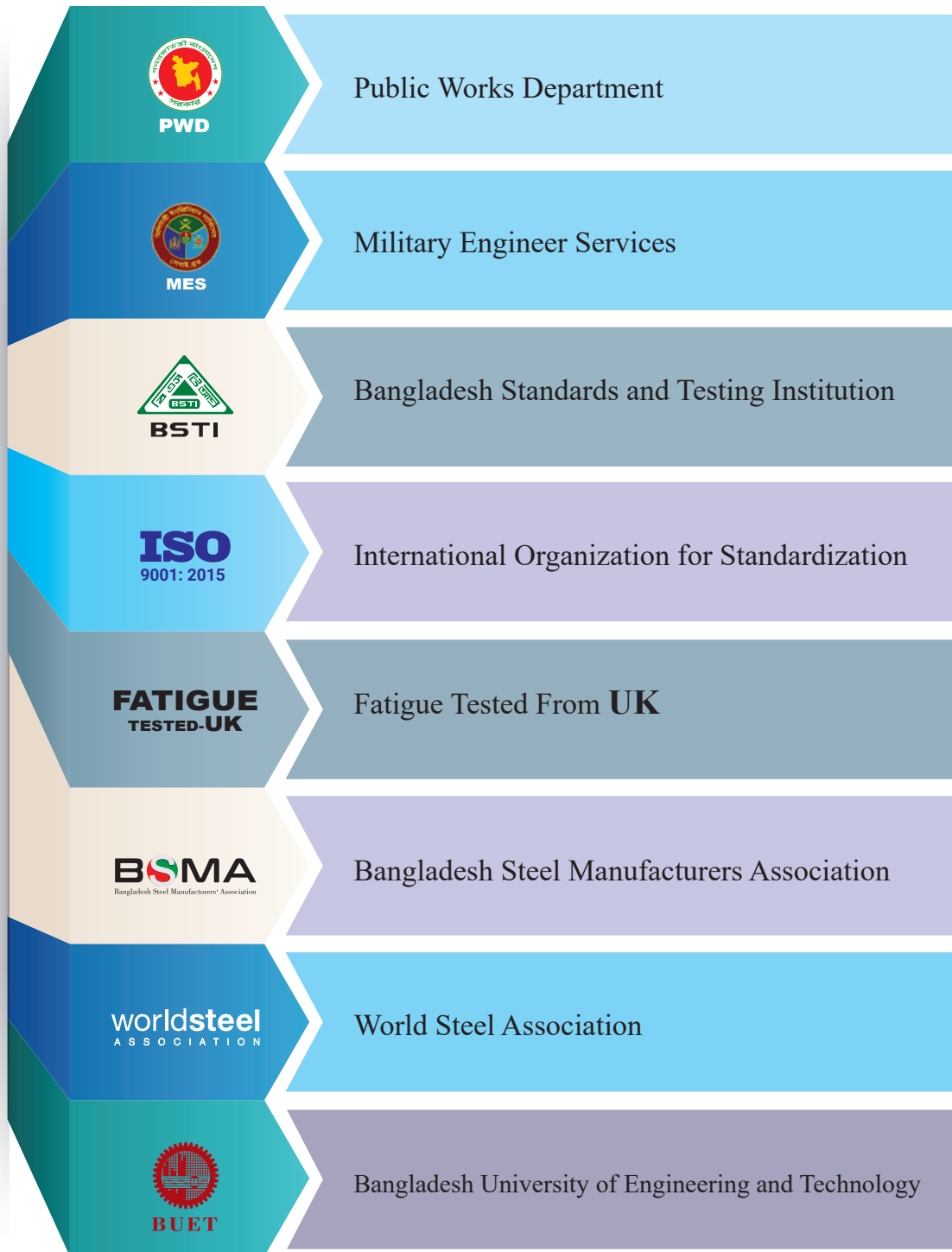
Our product is uniquely designed to meet a specific need that confirms our commitment to excellence, and our core values of **Integrity, Honesty, and Quality Orientation** assure that RRM Steel is always, **a pleasure to do business with.** We are your **Trusted, Steel manufacturer.** Through **Knowledge, Efficiency, Innovation, and Reliability,** we constantly seek to achieve cost-effectiveness, product quality, and fast delivery.

Finally, I believe RRM Steel is at a very important inflection point in its history and has the opportunity to create substantial long-term value for the stakeholders. Become a strategic supplier and vital value chain partner of our customers.

We look forward to doing business with you.



ENLISTMENT & CERTIFICATION





Enlisted Certificate of PWD

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
প্রধান প্রকৌশলীর কার্যালয়
গণপূর্ত অধিদপ্তর
পূর্ত ভবন, সেগুনবাগিচা, ঢাকা।
ফোন ও ফ্যাক্স : ৯৫৫০৫০৭।

স্মারক নং: ২৫.৩৬.০০০০.৩৩২.৫১.০০২.২১/

তারিখ: -০১-১৪২৮ বঙ্গাব্দ
-০৫-২০২১ খ্রিষ্টাব্দ

গণপূর্ত অধিদপ্তরের সিভিউল অব রেটস (সিভিল ওয়ার্কস) এর USER GUIDE তালিকায় অন্তর্ভুক্তির প্রত্যয়নপত্র।

এতদ্বারা দি রানী রি-রোলিং মিলস্ লিঃ, রোড-২১, প্লট-৩২, শ্যামপুর, কদমতলী ইন্ডাস্ট্রিয়াল এরিয়া, ঢাকা-১২০৪।

e-TIN : TIN: 611339761271, Taxes Circle-277, Taxes Zone-13, Dhaka.
VAT Registration No : BIN: 001403103
BSTI-License No : CM-19124/G-18/2020
Factory Address : শ্যামপুর, কদমতলী ইন্ডাস্ট্রিয়াল এরিয়া, ঢাকা-১২০৪।

কর্তৃক

BSTI কর্তৃক Steel for the reinforcement of concrete (Ribbed bar) এর জন্য নির্ধারিত কোড BDS ISO 6935-2:2016 এর মান ভিত্তিক উৎপাদিত ও বিপণনকৃত "RRM RANI" ব্র্যান্ড গণপূর্ত অধিদপ্তরের সিভিউল অব রেটস-২০১৮ এর "Name of the Material Brand as User Guide" তালিকায় অন্তর্ভুক্ত করা হলো।

তবে

- এই তালিকাভুক্তি ব্যবহারকারীকে বা ব্যবহারের অনুমতি প্রদানের কর্তৃপক্ষকে গুণগত মান পরীক্ষার জন্য প্রয়োজনীয় ল্যাবরেটরী টেস্ট করা হতে অব্যাহতি দেয় না। অর্থাৎ উক্ত পণ্য কোন প্রকল্পে ব্যবহারের আগে এর গুণগত মান পরীক্ষার জন্য প্রয়োজনীয় টেস্ট করতে হবে।
- অব্যাহত গুণগত মান রক্ষণ ও হলফনামার শর্তসমূহ পালন সন্তোষজনক হওয়ার শর্তে বছর বছর নবায়নযোগ্য।
- তালিকাভুক্ত কর্তৃপক্ষ কর্তৃক বর্ণিত সামগ্রীর মান পরীক্ষা করানোর ক্ষেত্রে তাঁর নিঃশর্ত সহায়তা প্রদান ও সমুদয় খরচ বহন করতে হবে।
- দি রানী রি-রোলিং মিলস্ লিঃ কর্তৃক উৎপাদিত "RRM RANI" ব্র্যান্ড Steel for the reinforcement of concrete (Ribbed bar) এর Standard নিয়ন্ত্রণের ক্ষেত্রে BSTI হতে সময় সময় যে সব পরিবর্তন আনা হবে তা বাধ্যতামূলকভাবে প্রযোজ্য হবে।

স্বাক্ষরিত/-
০৪/০৫/২০২১
(মোঃ শফিকুল ইসলাম)
অতিরিক্ত প্রধান প্রকৌশলী (পওনিপ্র)
ও
আহবায়ক
SoR প্রণয়ন কমিটি, ঢাকা।

স্মারক নং: ২৫.৩৬.০০০০.৩৩২.৫১.০০২.২১/৬৭(১৬)

তারিখ: ২১-০১-১৪২৮ বঙ্গাব্দ
০৪-০৫-২০২১ খ্রিষ্টাব্দ

অনুলিপি সদয় অবগতি ও প্রয়োজনীয় ব্যবস্থার জন্য প্রেরণ করা হলো-

- অতিরিক্ত প্রধান প্রকৌশলী (সওস)/(যাছা উইং)/(মেট্রোপলিটন)/(ই/এম-পিএন্ডডি)/ঢাকা/চট্টগ্রাম/রাজশাহী/খুলনা/সিলেট/বরিশাল/রংপুর/ময়মনসিংহ/গোপালগঞ্জ, গণপূর্ত অধিদপ্তর (তাকে নির্দেশ ক্রমে অধীনস্থ সকল দপ্তরকে অবহিতকরণের নির্দেশ প্রদানের জন্য)।
- প্রধান প্রকৌশলী মহোদয়ের স্টাফ অফিসার (নির্বাহী প্রকৌশলী), গণপূর্ত অধিদপ্তর, পূর্ত ভবন, ঢাকা।
- ব্যবস্থাপনা পরিচালক, দি রানী রি-রোলিং মিলস্ লিঃ, রোড-২১, প্লট-৩২, শ্যামপুর, কদমতলী ইন্ডাস্ট্রিয়াল এরিয়া, ঢাকা-১২০৪।
- অফিস কপি।

(মোঃ ইমদাদুল হক)
নির্বাহী প্রকৌশলী
গণপূর্ত ডিজাইন বিভাগ-২
ও
সদস্য সচিব
SoR প্রণয়ন কমিটি, ঢাকা।

04/05/2021





Enlisted Certificate of MES

সীমিত

সেনা সদর
ই ইন সি'র শাখা
পূর্ত পরিদপ্তর
ঢাকা সেনানিবাস
ফোন : সামরিক : ৮৭১১১১১ বার্ষিক ২৮৭২
বেসামরিক : ৯৮৩২৮৭২

২৫ মাঘ ১৪২৭
০৮ ফেব্রুয়ারি ২০২১

২৩.০১.৯০১.০৫৬.০৮.০৭৬.০৮২. ০৮.০২.২১.৩৭

দি রানী রি-রোলিং মিলস লিঃ এর উৎপাদিত "স্টীল" এমইএস-এ ব্যবহার এবং চূড়ান্ত অনুমোদন/ সিডিউলভুক্ত করণ প্রসংগে

বরাত :

ক। পূর্ত পরিদপ্তর পত্র নং-৮০০/পলিসি/২/০৩/ই-৮ তারিখ ১৭-১০-২০০৬ (নীতিমালা ২০০৬)।

খ। দি রানী রি-রোলিং মিলস লিঃ এর আবেদন পত্র নং-আরআরএম-০৭/২০১৯/১ তারিখ ০৭-০৮-২০১৯।

১। বরাত 'খ' এর আলোকে বরাত 'ক' এর নীতিমালা অনুসরণ করে সার্বিক বিদ্যমান সংশ্লিষ্ট জনক বিবেচিত হওয়ায় দি রানী রি-রোলিং মিলস লিঃ এর উৎপাদিত "স্টীল" এমইএস এ ব্যবহার এবং চূড়ান্ত অনুমোদন/সিডিউলে অন্তর্ভুক্ত করার জন্য ইইনসি মহোদয় সদয় সম্মতি জ্ঞাপন করেছেন। উল্লেখ্য যে, এমইএস সিডিউল অব রেইটস এর পরবর্তী সংস্করণ প্রকাশকালে উক্ত প্রতিষ্ঠানের উৎপাদিত দি রানী রি-রোলিং মিলস লিঃ এর নাম সিডিউলভুক্ত করা হবে।

২। আপনাদের অবগতি ও অধীনস্থ সকল ফরমেশনকে প্রয়োজনীয় কার্যক্রম গ্রহণের নির্দেশ প্রদান করতে অনুরোধ করা হলো।

মোহাম্মদ এমরান ইসলাম উইয়া
লোঃ কর্নেল
পক্ষে পূর্ত পরিচালক

বিতরণ :
বাহ্যিক :
কার্যক্রম :

পূর্ত পরিচালক ও প্রধান প্রকৌশলী (নৌ)
পূর্ত পরিচালক ও প্রধান প্রকৌশলী (বিমান)
(সজাপতি সিডিউল অব রেইটস)

অবগতি :

সিএমইএস (আর্মি) ঢাকা
সিএমইএস (আর্মি) সাজার
সিএমইএস (আর্মি) বগুড়া
সিএমইএস (আর্মি) চট্টগ্রাম
সিএমইএস (আর্মি) সিলেট
সিএমইএস (আর্মি) যশোর
সিএমইএস (নেভী) ঢাকা
সিএমইএস (নেভী) চট্টগ্রাম
সিএমইএস (বিমান) কুর্খিটোলা
সিএমইএস (বিমান) চট্টগ্রাম

অবগতি :

অফিস

দি রানী রি-রোলিং মিলস লিঃ
প্লট নং-৪৪, ব্লক-জে, প্রগতি স্বরনী, মেইন রোড,
মারিধারা, ঢাকা-১২১২।

আভ্যন্তরীণ :

কার্যক্রম :

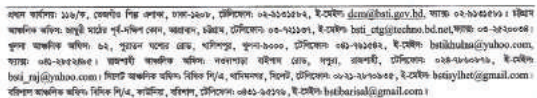
পূর্ত পরিচালক ও প্রধান প্রকৌশলী (আর্মি)

অবগতি :

ই-৩/ই-৪/ই-৬ শাখা (স্থানীয়)

সীমিত

D:\E-3 New 22-02-16\All Company Doc\All Company Ltr\The Rani Re-Rolling Mill-3473.pdf-1



নংলায়ী
দাখিল নম্বর ৩৯২৪ এর বরাবরে ফেসি ও পরিদর্শনের কর্মসূচী





Regulation No. 54-Law/2010 [(Clause 8(1))]

Bangladesh Standards and Testing Institution
(Management System Certification Wing)
116/A, Tejgaon Industrial Area, Dhaka-1208, Bangladesh

Certificate

This is to certify that
the Quality Management Systems (QMS) of
The Rani Re-Rolling Mills Ltd.
Factory: Road No: 21, Plot: 32, Shyampur, Kadamtali I/A, Dhaka 1204
Corporate office: Plot-44, block- J, Progati Sarani, Main Road, Baridhara,
Dhaka-1212, Bangladesh

has been assessed by MSC Wing under BSTI and Registered in compliance with

ISO 9001:2015

Scope of Certification :

Manufacturing of Steel Re-Bar "RRM Rani 400W Gold, RRM Rani TMT 500W Gold, RRM Rani B400 CWR, RRM Rani B400 DWR, RRM Rani B420 DWR".

Certificate No: **00071**

Date of Registration : **14.06.2020**
Date of Expiry : **13.06.2023**



(Engr. Shamim Ara Begum)
Director (Physical) and Head of MSC Wing

(Md. Muazzem Hossain)
Director General (Grade-1), BSTI



The conditions of the registration are specified in the registration document.
This certificate is the property of BSTI and must be returned on request.

Testing House: Kenfig Industrial Estate, Margam, Port Talbot, SA13 2PE, UK.
tel: +44 (0)1656 748 000 fax: +44 (0)1656 670 130
email: info@r-techservices.co.uk web: www.r-techservices.co.uk

R-TECH
SERVICES LIMITED

The Rani Re-rolling Mills Ltd.,
Plot 44, Block J,
Progoti Shoroni, Main Road,
Baridhara,
Dhaka-1212,
Bangladesh.

5th September 2016

Laboratory Test Report No. 160556

Client's order No. To be advised

Specimen identification

Twelve (12) off 16 mm Ø QST bar specimens to BS 4449:2005 grade B500C, approximately 1m in length.

Specimens identified during testing by laboratory numbering 160556/1/1 to 160556/1/12.

Date of test 17th July – 24th August 2016

Tests conducted

Fatigue test according to BS EN ISO 15630-1:2010 clause 8 with test conditions as specified in BS 4449:2005.

Fatigue test results

Specimen Identification	Bar ID No.	No of Cycles X10 ⁶	Frequency (Hz)	Position of Failure	Comments
160556/1/3	3	5.0	115	n/a	Test stopped at 5.0 x 10 ⁶ cycles
160556/1/5	5	5.0	112	n/a	Test stopped at 5.0 x 10 ⁶ cycles
160556/1/11	11	5.0	117	n/a	Test stopped at 5.0 x 10 ⁶ cycles
160556/1/12	12	5.0	103	n/a	Test stopped at 5.0 x 10 ⁶ cycles
160556/1/1	1	5.0	122	n/a	Test stopped at 5.0 x 10 ⁶ cycles

Statement of compliance

This batch of specimens complied with the requirements of BS 4449:2005 clause 7.2.4.

Test report authorised by:



R J Chiplen
Laboratory Manager

End of report

Report No. 160556
Page 1 of 1

Registered Office
22 Dany-Bryn Avenue, Radyr, Cardiff, CF15 8DD, UK



Company Registered No. 4547830
VAT Registration No. 800 7819 50



Bangladesh Steel Manufacturers' Association

T.O.L.No.: 11/2010, C.I.No.: TO-738/10

Akram Tower (11th Floor, Suite-09) 15/5, Bijoy Nagar, Dhaka-1000, Bangladesh, Tel:02-9351123,
Fax: 88-02-8391396, Web: www.bsma.com.bd, Email: info@bsma.com.bd

Serial No.: 0022

Member No.: 0022/2022

Date: 01.01.2022

Certificate of Membership

This is to certify that..... **The Rani Re-Rolling Mills Ltd.**

Plot# 32, Road# 21, Shampur, Kadamtali I/A, Dhaka.

is a bonafide member of
Bangladesh Steel Manufacturers' Association

This certificate is valid upto December 2022


Chairman


Secretary General

**WE ARE PROUD TO BE THE FIRST ASSOCIATE MEMBER OF
WORLD STEEL ASSOCIATION
FROM BANGLADESH**

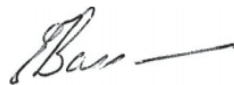
worldsteel
ASSOCIATION

Certificate of Membership
World Steel Association (worldsteel)

This is to certify that

The Rani Re-Rolling Mills Ltd.

is an Associate Member



Edwin Basson
Director General





Test Report- BUET

BUET



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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STRENGTH OF MATERIALS LABORATORY

1 of 2



TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RBM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtai Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1162-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter, Dt. 10/2/2022

Date of Test: 12/2/2022

Sl. No.	Frog Mark / Identification	Nominal dia. mm	Actual dia. mm	Mass Per Unit Length kg/m	Average Mass Per Unit Length kg/m	Yield or Proof Load kN	Yield or Proof Strength R_{eH} MPa	Average Yield Strength R_{eH} MPa	Tensile Load kN	Tensile Strength R_m MPa	Average Tensile Strength R_m MPa	R_{m}/R_{eH}	Total Elongation (%) (G length = 50)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
1	RRM GOLD B420 DWR	25	25.4	3.972	3.975	220	440	447	351	715	715	1.60	22	23	Satisfactory	Satisfactory
2	RRM GOLD B420 DWR	25	25.4	3.972	3.975	219	447	447	350	715	715	1.60	23	23	Satisfactory	Satisfactory
3	RRM GOLD B420 DWR	25	25.4	3.960	3.975	218	445	447	350	715	715	1.60	23	23	Satisfactory	Satisfactory
4	RRM GOLD B420 DWR	20	20.2	2.517	2.519	139	444	444	222	705	710	1.60	24	24	Satisfactory	Satisfactory
5	RRM GOLD B420 DWR	20	20.2	2.521	2.519	139	444	444	223	710	710	1.60	24	24	Satisfactory	Satisfactory
6	RRM GOLD B420 DWR	20	20.2	2.518	2.519	139	444	444	223	710	710	1.60	25	25	Satisfactory	Satisfactory
7	RRM GOLD B420 DWR	16	16.2	1.517	1.517	88.6	446	446	141	705	705	1.58	19	20	Satisfactory	Satisfactory
8	RRM GOLD B420 DWR	16	16.1	1.606	1.610	88.6	446	446	141	705	705	1.58	19	20	Satisfactory	Satisfactory
9	RRM GOLD B420 DWR	16	16.1	1.608	1.610	88.6	446	446	142	710	710	1.58	20	20	Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia. mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq mm	28.3	50.3	78.5	113	154	201	314	381	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.385	0.616	0.887	1.21	1.58	2.46	2.98	3.85	4.91	6.31	9.87

Permissible deviation, %

±2mm dia. bar is not covered in BDS ISO 6935-2:2016. Its properties are derived following the principle used for other bar sizes.

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

Steel Grade	Yield Strength, R_{eH} MPa	Tensile Strength, R_m MPa	Elongation, % (G length = 50)
B490C-R	490	730	23
B490C-WR	490	730	23
B500C-R	500	755	24
B500C-WR	500	755	24
B420C-R	420	635	22
B420C-WR	420	635	22
B440C-R	440	660	23
B440C-WR	440	660	23
B460C-R	460	685	24
B460C-WR	460	685	24

Counter signed by:
Prof. Dr. A. B. M. Badruzzaman, Test-In-Charge
Dept. of Civil Engg., BUET



dFE859JPS

Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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.



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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STRENGTH OF MATERIALS LABORATORY

2 of 2



TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RBM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtai Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1162-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter, Dt. 10/2/2022

Date of Test: 12/2/2022

Sl. No.	Frog Mark / Identification	Nominal dia. mm	Actual dia. mm	Mass Per Unit Length kg/m	Average Mass Per Unit Length kg/m	Yield or Proof Load kN	Yield or Proof Strength R_{eH} MPa	Average Yield Strength R_{eH} MPa	Tensile Load kN	Tensile Strength R_m MPa	Average Tensile Strength R_m MPa	R_{m}/R_{eH}	Total Elongation (%) (G length = 50)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
1	RRM GOLD B420 DWR	12	12.2	0.925	0.928	51.7	457	457	82.3	730	730	1.57	23	23	Satisfactory	Satisfactory
2	RRM GOLD B420 DWR	12	12.3	0.926	0.928	52.5	465	464	82.7	730	730	1.57	23	23	Satisfactory	Satisfactory
3	RRM GOLD B420 DWR	12	12.3	0.934	0.928	53	469	469	82.7	730	730	1.57	23	23	Satisfactory	Satisfactory
4	RRM GOLD B420 DWR	10	10.2	0.637	0.636	36.3	460	460	56.5	715	715	1.56	24	24	Satisfactory	Satisfactory
5	RRM GOLD B420 DWR	10	10.1	0.634	0.636	36.3	460	460	56.9	720	715	1.56	26	26	Satisfactory	Satisfactory
6	RRM GOLD B420 DWR	10	10.2	0.636	0.636	36.9	454	454	56.5	715	715	1.56	22	22	Satisfactory	Satisfactory
7	RRM GOLD B420 DWR	8	8.2	0.414	0.415	21.9	435	435	38.5	765	770	1.75	28	27	Satisfactory	Satisfactory
8	RRM GOLD B420 DWR	8	8.2	0.415	0.415	22.3	444	441	39	775	775	1.75	28	27	Satisfactory	Satisfactory
9	RRM GOLD B420 DWR	8	8.2	0.415	0.415	22.3	444	441	39	775	775	1.75	25	25	Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia. mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq mm	28.3	50.3	78.5	113	154	201	314	381	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.385	0.616	0.887	1.21	1.58	2.46	2.98	3.85	4.91	6.31	9.87

Permissible deviation, %

±2mm dia. bar is not covered in BDS ISO 6935-2:2016. Its properties are derived following the principle used for other bar sizes.

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

Steel Grade	Yield Strength, R_{eH} MPa	Tensile Strength, R_m MPa	Elongation, % (G length = 50)
B490C-R	490	730	23
B490C-WR	490	730	23
B500C-R	500	755	24
B500C-WR	500	755	24
B420C-R	420	635	22
B420C-WR	420	635	22
B440C-R	440	660	23
B440C-WR	440	660	23
B460C-R	460	685	24
B460C-WR	460	685	24

Counter signed by:
Prof. Dr. A. B. M. Badruzzaman, Test-In-Charge
Dept. of Civil Engg., BUET



L3PKnQJRD

Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

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STRENGTH OF MATERIALS LABORATORY

1 of 2



TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RRM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtali Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1102-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter; Dt. 10/2/2022

Date of Test: 12/2/2022

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	R_{eH}/R_{mH}	Total Elongation (%)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
		mm	mm	kg/m	kg/m	kN	MPa	MPa	kN	MPa	MPa		(3 length = 5d)	(%)		
1	RRM GOLD B500 CWR	25	25.2	3.927	3.928	274	560	565	348	705	710	1.26	21	21	Satisfactory	Satisfactory
2	RRM GOLD B500 CWR	25	25.3	3.934	3.928	281	570	565	353	726	710	1.26	21	21	Satisfactory	Satisfactory
3	RRM GOLD B500 CWR	25	25.2	3.922	3.928	278	565	565	344	700	710	1.26	21	21	Satisfactory	Satisfactory
4	RRM GOLD B500 CWR	20	20.3	2.536	2.531	170	540	540	213	686	675	1.25	23	23	Satisfactory	Satisfactory
5	RRM GOLD B500 CWR	20	20.2	2.525	2.531	166	530	540	210	665	675	1.25	23	23	Satisfactory	Satisfactory
6	RRM GOLD B500 CWR	20	20.3	2.533	2.531	172	545	540	212	675	675	1.25	24	24	Satisfactory	Satisfactory
7	RRM GOLD B500 CWR	16	16.2	1.613	1.616	109	545	555	131	655	675	1.22	18	18	Satisfactory	Satisfactory
8	RRM GOLD B500 CWR	16	16.2	1.611	1.616	110	550	555	135	675	675	1.22	18	18	Satisfactory	Satisfactory
9	RRM GOLD B500 CWR	16	16.2	1.623	1.616	113	565	555	139	695	675	1.22	18	18	Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia., mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq mm	28.3	50.3	78.5	113	154	201	314	387	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.385	0.616	0.887	1.21	1.58	2.46	3.78	4.84	6.31	9.87	15.42
unit length	Permissible deviation, %	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8

*20mm dia. bar is not covered in BDS ISO 6935-2:2016. Its properties are derived following the principle used for other bar sizes.

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

BDS ISO 6935-2 Tensile Requirements for Common Steel Grades

Steel Grade	Yield Strength, R_{eH} , MPa	Tensile Strength, R_{mH} , MPa	Elongation, % (min.)
Grade	Min.	Max.	Total
B400C-R	400	—	1.15
B400CWR	400	—	1.15
B500C-R	500	—	1.15
B500CWR	500	—	1.15
B600C-R	600	—	1.15
B600CWR	600	—	1.15
B400CWR	400	1.23 R_{eH} (min.)	1.15
B400CWR	400	1.3 R_{eH} (min.)	1.25
B400CWR	400	1.3 R_{eH} (min.)	1.25
B500CWR	500	1.3 R_{eH} (min.)	1.25

Counter signed by:
Prof. Dr. A. B. M. Badruzzaman, Test-in-Charge
Dept. of Civil Engg., BUET



E428QNDWg

Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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STRENGTH OF MATERIALS LABORATORY

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TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RRM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtali Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1102-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter; Dt. 10/2/2022

Date of Test: 12/2/2022

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	R_{eH}/R_{mH}	Total Elongation (%)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
		mm	mm	kg/m	kg/m	kN	MPa	MPa	kN	MPa	MPa		(3 length = 5d)	(%)		
1	RRM B500 CWR	12	12.2	0.911	0.908	63	560	535	73.2	645	630	1.18	25	23	Satisfactory	Satisfactory
2	RRM B500 CWR	12	12.2	0.911	0.908	61	540	535	72.1	640	630	1.18	23	23	Satisfactory	Satisfactory
3	RRM B500 CWR	12	12.1	0.903	0.908	57	505	535	66.1	616	630	1.18	22	23	Satisfactory	Satisfactory
4	RRM B500 CWR	10	10.2	0.635	0.635	41.8	530	530	52.9	676	670	1.26	24	23	Satisfactory	Satisfactory
5	RRM B500 CWR	10	10.2	0.635	0.635	41.8	530	530	52.9	676	670	1.26	24	23	Satisfactory	Satisfactory
6	RRM B500 CWR	10	10.1	0.634	0.635	41.8	530	530	52.9	676	670	1.26	24	23	Satisfactory	Satisfactory
7	RRM B500 CWR	8	8.2	0.419	0.419	28.6	570	565	33.7	676	665	1.18	25	24	Satisfactory	Satisfactory
8	RRM B500 CWR	8	8.2	0.417	0.419	28.6	570	565	33.7	676	665	1.18	25	24	Satisfactory	Satisfactory
9	RRM B500 CWR	8	8.2	0.420	0.419	27.6	550	565	32.7	656	665	1.18	25	24	Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia., mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq mm	28.3	50.3	78.5	113	154	201	314	387	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.385	0.616	0.887	1.21	1.58	2.46	3.78	4.84	6.31	9.87	15.42
unit length	Permissible deviation, %	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8	±8

*20mm dia. bar is not covered in BDS ISO 6935-2:2016. Its properties are derived following the principle used for other bar sizes.

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

BDS ISO 6935-2 Tensile Requirements for Common Steel Grades

Steel Grade	Yield Strength, R_{eH} , MPa	Tensile Strength, R_{mH} , MPa	Elongation, % (min.)
Grade	Min.	Max.	Total
B400C-R	400	—	1.15
B400CWR	400	—	1.15
B500C-R	500	—	1.15
B500CWR	500	—	1.15
B600C-R	600	—	1.15
B600CWR	600	—	1.15
B400CWR	400	1.23 R_{eH} (min.)	1.15
B400CWR	400	1.3 R_{eH} (min.)	1.25
B400CWR	400	1.3 R_{eH} (min.)	1.25
B500CWR	500	1.3 R_{eH} (min.)	1.25

Counter signed by:
Prof. Dr. A. B. M. Badruzzaman, Test-in-Charge
Dept. of Civil Engg., BUET



hKh8PLQNr

Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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.



RRM
STEEL



Test Report- BUET



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: (8802) - 55167100, 55167228-57 Ext. 7226, Info: <http://brc.ce.buet.ac.bd/#home>, Report verification: <http://verify.ce.buet.ac.bd>

STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RRM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtali Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1102-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter: Dt. 10/2/2022

Date of Test: 12/2/2022

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	R_{m}/R_{el}	Total Elongation (%)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
1	RRM GOLD B500 DWR	25	25.3	3.949		259	530		355	725			21		Satisfactory	Satisfactory
2	RRM GOLD B500 DWR	25	25.3	3.954	3.962	266	540	540	361	735	735	1.36	20	20	Satisfactory	Satisfactory
3	RRM GOLD B500 DWR	25	25.4	3.962		271	550		364	740			20		Satisfactory	Satisfactory
4	RRM GOLD B500 DWR	20	20.2	2.516		173	550		244	760			24		Satisfactory	Satisfactory
5	RRM GOLD B500 DWR	20	20.2	2.525	2.517	178	565	565	248	750	785	1.39	23	24	Satisfactory	Satisfactory
6	RRM GOLD B500 DWR	20	20.2	2.510		180	575		248	790			24		Satisfactory	Satisfactory
7	RRM GOLD B500 DWR	16	16.1	1.591		113	565		139	695			18		Satisfactory	Satisfactory
8	RRM GOLD B500 DWR	16	16.2	1.620	1.600	109	545	555	141	705	700	1.26	19	18	Satisfactory	Satisfactory
9	RRM GOLD B500 DWR	16	16.1	1.590		110	550		141	705			18		Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia., mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq.mm	28.3	50.3	78.5	113	154	201	314	380	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.395	0.616	0.887	1.21	1.58	2.46	3.38	4.35	5.31	7.87	12.42

Permissible deviation, %

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

BDS ISO 6935-2 Tensile Requirements for Common Steel Grades

Steel Grade	Yield Strength, R_{el} (MPa)	Max.	Min.	Elongation, % (min.)	Total	A R_{m}
B400C-R	400	—	1.15	14	7	—
B400CWR	400	—	1.15	14	7	—
B500C-R	500	—	1.15	14	7	—
B500CWR	500	—	1.15	14	7	—
B600C-R	600	—	1.15	10	7	—
B600CWR	450	1.25 R_{m} (min.)	1.15	—	7.5	—
B420CWR	400	1.3 R_{m} (min.)	1.25	17	8	—
B420CWR	420	1.3 R_{m} (min.)	1.25	16	8	—
B500CWR	500	1.3 R_{m} (min.)	1.25	13	8	—

Countersigned by:
Prof. Dr. A. B. M. Badruzzaman, Test-in-Charge
Dept. of Civil Engg., BUET



43C5NSZHT

Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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/package/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.



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: (8802) - 55167100, 55167228-57 Ext. 7226, Info: <http://brc.ce.buet.ac.bd/#home>, Report verification: <http://verify.ce.buet.ac.bd>

STRENGTH OF MATERIALS LABORATORY

TEST OF DEFORMED M.S. BARS (BDS ISO 6935-2:2016)

Sent by: Mr. Shaon Das, Sr. Manager (QC&A)

RRM Steel, (Factory: Plot-32, Road-21, Shyampur, Kadamtali Industrial Area, Dhaka).

Project: Quality Control Test.

BRTC No.: 1102-53908/CE/21-22; Dt. 10/2/2022

Ref.: Letter: Dt. 10/2/2022

Date of Test: 12/2/2022

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	R_{m}/R_{el}	Total Elongation (%)	Average Total Elongation (%)	Bend Test (Separate samples)	Rebend Test (Separate samples)
1	RRM B500 DWR	12	12.3	0.929		61	540		89.3	790			23		Satisfactory	Satisfactory
2	RRM B500 DWR	12	12.2	0.922	0.924	60	530	535	88.3	780	790	1.48	18	—	Satisfactory	Satisfactory
3	RRM B500 DWR	12	12.2	0.922		61	540		89.3	790			18		Satisfactory	Satisfactory
4	RRM B500 DWR	10	10.2	0.645		44.8	565		64	810			22		Satisfactory	Satisfactory
5	RRM B500 DWR	10	10.2	0.641	0.644	42.8	540	560	62	785	800	1.43	20	21	Satisfactory	Satisfactory
6	RRM B500 DWR	10	10.2	0.645		44.8	565		64	810			20		Satisfactory	Satisfactory
7	RRM B500 DWR	8	8.3	0.423		31.7	630		43.8	870			25		Satisfactory	Satisfactory
8	RRM B500 DWR	8	8.3	0.422	0.423	26.6	530	—	39.8	790	815	—	20	—	Satisfactory	Satisfactory
9	RRM B500 DWR	8	8.3	0.423		26.6	530		39.8	790			23		Satisfactory	Satisfactory

BDS ISO 6935-2:2016 Weight Requirements, Nominal Area etc. (Table 2)

Nominal bar dia., mm	6	8	10	12	14	16	20	25	28	32	40	50
Nominal cross sectional area, sq.mm	28.3	50.3	78.5	113	154	201	314	380	491	616	804	1257
Nominal mass per unit length, kg/m	0.222	0.395	0.616	0.887	1.21	1.58	2.46	3.38	4.35	5.31	7.87	12.42

Permissible deviation, %

Actual diameter of bars are shown for informative purpose only. It is not a requirement of BDS ISO 6935-2:2016.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

BDS ISO 6935-2 Tensile Requirements for Common Steel Grades

Steel Grade	Yield Strength, R_{el} (MPa)	Max.	Min.	Elongation, % (min.)	Total	A R_{m}
B400C-R	400	—	1.15	14	7	—
B400CWR	400	—	1.15	14	7	—
B500C-R	500	—	1.15	14	7	—
B500CWR	500	—	1.15	14	7	—
B600C-R	600	—	1.15	10	7	—
B600CWR	450	1.25 R_{m} (min.)	1.15	—	7.5	—
B420CWR	400	1.3 R_{m} (min.)	1.25	17	8	—
B420CWR	420	1.3 R_{m} (min.)	1.25	16	8	—
B500CWR	500	1.3 R_{m} (min.)	1.25	13	8	—

Countersigned by:
Prof. Dr. A. B. M. Badruzzaman, Test-in-Charge
Dept. of Civil Engg., BUET



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Test performed by:
Dr. Abu Siddique
Professor, Dept. of Civil Engg., BUET

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Technical Specification of RRM GOLD B420DWR

Chemical Composition

Standard: BDS ISO 6935-2:2016

Chemical Composition based on Cast Analysis – in percentage by mass

Steel Grade	Carbon	Silicon	Manganese	Phosphorus	Sulfur	Nitrogen	Carbon Equivalent
As per Standard B420DWR (max. values of mass fraction)	0.30	0.55	1.50	0.04	0.04	0.012	0.56
RRM GOLD B420DWR	0.26-0.30	0.25-0.40	1.10-1.50	Max 0.04	Max 0.04	<0.012	0.56 (max)

Permissible Deviation (as per standard)

Chemical Composition based on product analysis – in percentage by mass

Elements	Specified maximum value in cast analysis	Permissible deviation in product analysis from the specified limits the cast analysis
Carbon	>0.25	+0.03
Silicon	≤0.60	+0.05
Manganese	≤1.65	+0.06
	>1.65	+0.08
Phosphorus	≤0.05	+0.008
Sulfur	≤0.05	+0.008
Nitrogen	≤0.012	+0.002
Carbon Equivalent (CEV)	0.56	+0.05

Carbon Equivalent, CEV is calculated according to formula below:

$$CEV = C + \frac{Mn}{6} + \frac{(Cr + V + Mo)}{5} + \frac{(Cu + Ni)}{15}$$

where C, Mn, Cr, V Mo, Cu and Ni are the mass fractions, expressed as percentages of the respective chemical elements of the steel.

Technical Specification of RRM GOLD B420DWR

Tensile Properties

Standard: BDS ISO 6935-2:2016

Yield strength and ductility properties based on elongation

Ductility Class	Steel Grade	Specified characteristic value of Upper Yield Strength R_{eH} (MPa)		Ductility Properties		
				Specified characteristic value of R_m/R_{eH}	Specified characteristic value of elongation %	
		Minimum	Maximum	Minimum	A Minimum	A_{gt} Minimum
D	B420DWR (as per standard)	420	$1.3 \times R_{eH}$ (min)	1.25	16*	8
D	RRM GOLD B420DWR	420	$1.3 \times R_{eH}$ (min)	1.25	16*	8

*In case of the bars with diameter 32mm or more in ductility class D, the minimum specified characteristic value for A may be decreased by 2% for each 3mm increase in diameter (as per standard).



Technical Specification of RRM GOLD B500CWR

Chemical Composition

Standard: BDS ISO 6935-2:2016

Chemical Composition based on Cast Analysis – in percentage by mass

Steel Grade	Carbon	Silicon	Manganese	Phosphorus	Sulfur	Nitrogen	Carbon Equivalent
As per Standard B500CWR (max. values of mass fraction)	0.22	0.60	1.60	0.05	0.05	0.012	0.50
RRM GOLD B500CWR	0.18-0.22	0.15-0.30	0.55-0.80	Max 0.05	Max 0.05	<0.012	0.50 (max)

Permissible Deviation (as per standard)

Chemical Composition based on product analysis – in percentage by mass

Elements	Specified maximum value in cast analysis	Permissible deviation in product analysis from the specified limits the cast analysis
Carbon	≤0.25	+0.02
Silicon	≤0.60	+0.05
Manganese	≤1.65	+0.06
	>1.65	+0.08
Phosphorus	≤0.05	+0.008
Sulfur	≤0.05	+0.008
Nitrogen	≤0.012	+0.002
Carbon Equivalent (CEV)	0.50	+0.05

Carbon Equivalent, CEV according to formula below:

$$CEV = C + \frac{Mn}{6} + \frac{(Cr + V + Mo)}{5} + \frac{(Cu + Ni)}{15}$$

where C, Mn, Cr, V Mo, Cu and Ni are the mass fractions, expressed as percentages of the respective chemical elements of the steel.

Technical Specification of RRM GOLD B500CWR

Tensile Properties

Standard: BDS ISO 6935-2:2016

Yield strength and ductility properties based on elongation

Ductility Class	Steel Grade	Specified characteristic value of Upper Yield Strength R_{eH} (MPa)		Ductility Properties		
				Specified characteristic value of R_m/R_{eH}	Specified characteristic value of elongation %	
		Minimum	Maximum	Minimum	A Minimum	A_{gt} Minimum
C	B500CWR (as per standard)	500	NIL	1.15	14	7
C	RRM GOLD B500CWR	500	NIL	1.15	14	7

Technical Specification of RRM GOLD B500DWR

Chemical Composition

Standard: BDS ISO 6935-2:2016

Chemical Composition based on Cast Analysis – in percentage by mass

Steel Grade	Carbon	Silicon	Manganese	Phosphorus	Sulfur	Nitrogen	Carbon Equivalent
As per Standard B500DWR (max. values of mass fraction)	0.32	0.55	1.80	0.04	0.04	0.012	0.61
RRM GOLD B500DWR	0.27-0.32	0.25-0.40	0.85-1.50	Max 0.04	Max 0.04	<0.012	0.61 (max)

Permissible Deviation (as per standard)

Chemical Composition based on product analysis – in percentage by mass

Elements	Specified maximum value in cast analysis	Permissible deviation in product analysis from the specified limits the cast analysis
Carbon	>0.25	+0.03
Silicon	≤0.60	+0.05
Manganese	≤1.65	+0.06
	>1.65	+0.08
Phosphorus	≤0.05	+0.008
Sulfur	≤0.05	+0.008
Nitrogen	≤0.012	+0.002
Carbon Equivalent (CEV)	0.61	+0.05

Carbon Equivalent, CEV is calculated according to formula below:

$$CEV = C + \frac{Mn}{6} + \frac{(Cr + V + Mo)}{5} + \frac{(Cu + Ni)}{15}$$

where C, Mn, Cr, V Mo, Cu and Ni are the mass fractions, expressed as percentages of the respective chemical elements of the steel.

Technical Specification of RRM GOLD B500DWR

Tensile Properties

Standard: BDS ISO 6935-2:2016

Yield strength and ductility properties based on elongation

Ductility Class	Steel Grade	Specified characteristic value of Upper Yield Strength R_{eH} (MPa)		Ductility Properties		
				Specified characteristic value of R_m/R_{eH}	Specified characteristic value of elongation %	
		Minimum	Maximum	Minimum	A Minimum	A_{gt} Minimum
D	B500DWR (as per standard)	500	$1.3 \times R_{eH}$ (min)	1.25	13*	8
D	RRM GOLD B500DWR	500	$1.3 \times R_{eH}$ (min)	1.25	13*	8

*In case of the bars with diameter 32mm or more in ductility class D, the minimum specified characteristic value for A may be decreased by 2% for each 3mm increase in diameter (as per standard).



Technical Specification of (RRM GOLD B420DWR, B500CWR, B500DWR)

Physical Properties of Rebar

Standard: BDS ISO 6935-2:2016

Cross Sectional Area and Masses (as per standard)

Dimensions, mass per unit length and permissible deviations

Nominal bar diameter (mm)	Nominal Cross-Sectional Area (mm ²)	Mass per Unit Length	
		Nominal Weight (kg/m)	Permissible Deviation %
8	50.3	0.395	±8
10	78.5	0.617	±6
12	113.0	0.888	±6
16	201.0	1.580	±5
20	314.0	2.470	±5
25	491.0	3.850	±4
32	804.0	6.310	±4

Cross Sectional Area and Masses (RRM GOLD B420DWR, B500CWR, B500DWR)

Dimensions, mass per unit length and permissible deviations

Nominal bar diameter (mm)	Nominal Cross-Sectional Area (mm ²)	Mass per Unit Length	
		Nominal Weight (kg/m)	Permissible Deviation %
8	50.3	0.395	±7
10	78.5	0.617	±6
12	113.0	0.888	±5
16	201.0	1.580	±4
20	314.0	2.470	±4
25	491.0	3.850	±3
32	804.0	6.310	±3

Direct Hot Rolling (DHR)

RRM Steel is The Pioneer of **DHR** in Bangladesh

Benefits of Direct Hot Charging:

- Environment Friendly
- Drives Down Green House Gas (GHG) emission.
- Saving Energy

To Build A Sustainable and Better World For Our Future Generation

Mill Test Certificate (MTC)

Without traceability there is no Quality Control. For traceability we maintain specific heat number for specific heat and generate real time Mill Test Certificate (MTC) Which helps us to improve our quality continuously. RRM STEEL ensures the maximum safety for the customers in this process. Following MTC certificates are examples of our product properties (B500CWR, B420DWR, B500DWR).



RRM GOLD rebars are ready for delivery with heat/batch number.



Mill Test Certificate (MTC)

RRM STEEL

Road #21, Plot #32, Shyampur, Kadamtali I/A, Dhaka-1204

Tel: +88-02-47440395

MILL TEST CERTIFICATE

Quality Control Department

Client/Project Name:

Invoice no.:

Frog Mark: RRM GOLD B420DWR

Transport no.: Dhaka Metro Dha-84-0160

TENSILE, BEND, RE-BEND TEST & CHEMICAL ANALYSIS OF M.S. DEFORMED BAR

Issue date: 19/03/2022

SL No.	Heat Number	Nominal Bar Diameter, D	Actual Diameter	Actual Mass Per Unit Length	Mechanical Properties								Chemical Properties (Product Analysis)								Remarks on Quality
					Yield or Proof Load	Yield or Proof Strength (YS)	Tensile Load	Tensile Strength (TS)	UTS/YS ratio	% Elongation after Fracture, A	Bend Test	Re-Bend Test	C	Si	Mn	P	S	Cu	CE		
		(mm)	(mm)	(kg/m)	(kN)	(MPa)	(kN)	(MPa)		(GL=5D)			%	%	%	%	%	%	%		
Requirement as per standard BDS ISO 6935-2:2016						Min. 420 Max. 546			1.25 Min.	16.0 Min			0.32 max.	0.60 max.	1.56 max.	0.048 max.	0.048 max.	0.30 max.	0.61 max.		
1	A12203043	8	7.95	0.390	23.2	461	32.8	652	1.41	24	OK	OK	0.30	0.32	1.21	0.043	0.038	0.16	0.53	passed	
2	A22203086	16	15.90	1.558	90.1	448	128.6	640	1.43	20	OK	OK	0.30	0.34	1.27	0.036	0.041	0.16	0.54	passed	
3	A32203058	20	19.88	2.436	143.4	457	207.9	662	1.45	21	OK	OK	0.31	0.33	1.31	0.031	0.037	0.14	0.56	passed	

This is to certify that Tensile properties, Bend, Re-Bend & Chemical Test results of above mentioned Rebars conform to the requirements of BDS ISO 6935-2:2016 (Grade B420DWR).

Strength is based on nominal cross-sectional area.	BDS ISO 6935-2:2016 (Tables - 2,8,9: Mass per unit length, Permissible Deviations and Mandrel Diameters used for Bend and Rebend Test)								
Conversion factor : 1 N/mm ² = 1 MPa = 145 psi = 10.197 kg/cm ²	Nominal Dia, D(mm)	8	10	12	16	20	25	28	32
	Nominal Mass Per Unit Length, (kg/m)	0.395	0.617	0.888	1.58	2.47	3.85	4.84	6.31
	Tolerance (%)	±8	±6	±6	±5	±5	±4	±4	±4
CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15	Mandrel Dia, (mm) for Bend Test	3D	3D	3D	3D	6D	6D	6D	6D
	Mandrel Dia, (mm) for Re-bend Test	5D	5D	5D	5D	8D	8D	10D	10D

Issued By:

Approved by:



Mill Test Certificate (MTC)

RRM STEEL

Road #21, Plot #32, Shyampur, Kadamtali I/A, Dhaka-1204

Tel: +88-02-47440395

MILL TEST CERTIFICATE

Quality Control Department

Client/Project Name:

Invoice no.:

Frog Mark: RRM GOLD B500CWR

Transport no.: Dhaka Metro Ta- 20-8312

TENSILE, BEND, RE-BEND TEST & CHEMICAL ANALYSIS OF M.S. DEFORMED BAR

Issue date: 25/03/2022

SL No.	Heat Number	Nominal Bar Diameter, D	Actual Diameter	Actual Mass Per Unit Length	Mechanical Properties								Chemical Properties (Product Analysis)								Remarks on Quality
					Yield or Proof Load	Yield or Proof Strength (YS)	Tensile Load	Tensile Strength (TS)	UTS/YS ratio	% Elongation after Fracture, A	Bend Test	Re-Bend Test	C	Si	Mn	P	S	Cu	CE		
		(mm)	(mm)	(kg/m)	(kN)	(MPa)	(kN)	(MPa)		(GL=5D)			%	%	%	%	%	%	%		
Requirement as per standard BDS ISO 6935-2:2016						500 Min.			1.15 Min.	14.0 Min.			0.24 max.	1.66 max.	0.65 max.	0.058 max.	0.058 max.	0.30 max.	0.55 max.		
1	A32203080	10	9.91	0.605	43.50	554	51.30	654	1.18	20	OK	OK	0.22	0.22	0.58	0.043	0.045	0.14	0.36	passed	
2	A22203111	12	11.95	0.880	63.30	560	74.20	656	1.17	20	OK	OK	0.19	0.20	0.56	0.045	0.048	0.13	0.33	passed	
3	A12203085	25	24.87	3.812	262.10	533	324.50	661	1.24	18	OK	OK	0.20	0.23	0.58	0.049	0.055	0.15	0.33	passed	

This is to certify that Tensile properties, Bend, Re-Bend & Chemical Test results of above mentioned Rebars conform to the requirements of BDS ISO 6935-2:2016 (Grade B500CWR).

Strength is based on nominal cross-sectional area. Conversion factor : 1 N/mm ² = 1 Mpa = 145 psi = 10.197 kg/cm ² CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15	BDS ISO 6935-2:2016 (Tables - 2,8,9: Mass per unit length, Permissible Deviations and Mandrel Diameters used for Bend and Rebend Test)								
	Nominal Dia, D (mm)	8	10	12	16	20	25	28	32
	Nominal Mass Per Unit Length, (kg/m)	0.395	0.617	0.888	1.58	2.47	3.85	4.84	6.31
	Tolerance (%)	±8	±6	±6	±5	±5	±4	±4	±4
	Mandrel Dia, (mm) for Bend Test	3D	3D	3D	3D	6D	6D	6D	6D
	Mandrel Dia, (mm) for Re-bend Test	5D	5D	5D	5D	8D	8D	10D	10D

Issued By:

Approved by:



Mill Test Certificate (MTC)

RRM STEEL

Road #21, Plot #32, Shyampur, Kadamtali I/A, Dhaka-1204

Tel: +88-02-47440395

MILL TEST CERTIFICATE

Quality Control Department

Client/Project Name:

Invoice no.:

Frog Mark: RRM GOLD B500DWR

Transport no.: Dhaka Metro Ta- 20-8313

TENSILE, BEND, RE-BEND TEST & CHEMICAL ANALYSIS OF M.S. DEFORMED BAR

Issue date: 12/03/2022

SL No.	Heat Number	Nominal Bar Diameter, D	Actual Diameter	Actual Mass Per Unit Length	Mechanical Properties								Chemical Properties (Product Analysis)								Remarks on Quality
					Yield or Proof Load	Yield or Proof Strength (YS)	Tensile Load	Tensile Strength (TS)	UTS/YS ratio	% Elongation after Fracture, A	Bend Test	Re-Bend Test	C	Si	Mn	P	S	Cu	CE		
		(mm)	(mm)	(kg/m)	(kN)	(MPa)	(kN)	(MPa)		(GL=5D)			%	%	%	%	%	%	%		
Requirement as per standard BDS ISO 6935-2:2016						Min. 500 Max. 650			1.25 Min.	13.0 Min.			0.34 max.	0.60 max.	1.88 max.	0.048 max.	0.048 max.	0.30 max.	0.66 max.		
1	A22202117	12	11.91	0.874	62.50	553	81.25	719	1.30	17	OK	OK	0.29	0.33	0.91	0.038	0.041	0.11	0.47	passed	
2	A32203019	20	19.93	2.449	178.04	567	230.50	734	1.29	19	OK	OK	0.31	0.29	0.87	0.040	0.032	0.14	0.48	passed	
3	A32203024	25	24.85	3.806	265.63	541	349.60	712	1.32	19	OK	OK	0.30	0.32	0.93	0.029	0.036	0.14	0.49	passed	

This is to certify that Tensile properties, Bend, Re-Bend & Chemical Test results of above mentioned Rebars conform to the requirements of BDS ISO 6935-2:2016 (Grade B500DWR).

Strength is based on nominal cross-sectional area. Conversion factor : 1 N/mm² = 1 MPa = 145 psi = 10.197 kg/cm² CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15	BDS ISO 6935-2:2016 (Tables - 2,8,9: Mass per unit length, Permissible Deviations and Mandrel Diameters used for Bend and Rebend Test)								
	Nominal Dia, D(mm)	8	10	12	16	20	25	28	32
	Nominal Mass Per Unit Length, (kg/m)	0.395	0.617	0.888	1.58	2.47	3.85	4.84	6.31
	Tolerance (%)	±8	±6	±6	±5	±5	±4	±4	±4
	Mandrel Dia, (mm) for Bend Test	3D	3D	3D	3D	6D	6D	6D	6D
	Mandrel Dia, (mm) for Re-bend Test	5D	5D	5D	5D	8D	8D	10D	10D

Issued By:

Approved by:

RRM CORPORATE CLIENTS



BASHUNDHARA GROUP

Bashundhara Group



Summit Group



Partexstar Group



Amber group



building technology & ideas



Asset Developments & Holdings Ltd.



Anontex Group



TK GROUP

TK Group of Industries



Toma Group



Shuchana Greehayon Ltd.



Unitech Group



Golden Future Properties Ltd



Fare Builders Ltd



AG properties Ltd (Ahsan Group)



Provita Group



Bangla Nfk Textiles Ltd



S.B.Group

SB Group

RAHMAT
GROUP

Rahmat Group

MASUD
GROUP

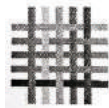
Masud Group



Euro Star Group



Rashni Polymer Fiber Ind. Ltd.



Dresden Textile Ltd.

RICO
TILE

Konica Commercials Ltd.



Hua Thai Ceramics Industries Ltd

RRM CORPORATE CLIENTS



Fortis Group



Pretty Group



Fakir Apparels Ltd



Nassa Holdings Ltd (Nassa Group)



Sepal Group



Star Pipes & Plastics Ltd



Techstar Technology Ltd



B H Builders Ltd



Rupayan Group



Ana Holdings Ltd



Doreen Group



SS Homes Limited



BNS Group



Japan Taguchi Construction co.ltd



Project Builders Ltd



Shuchana Development Ltd



Alif Group



Exin Group



Nova Holdings Ltd



Silver Trading Corporation



Ad Din Development Ltd



Swadesh Properties Ltd.



SF Design & Developments Ltd



NOMAN Group

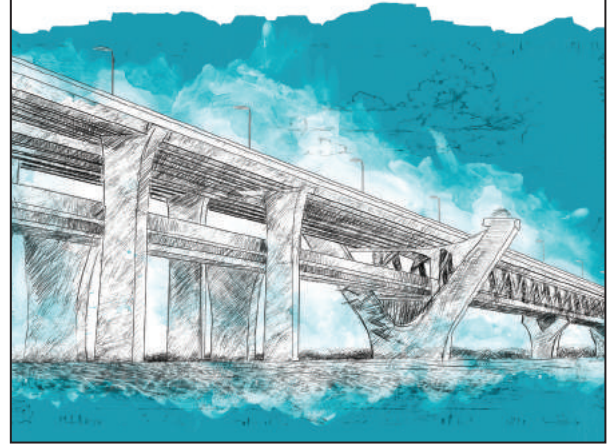
আগামী বাংলাদেশ আর স্বপ্ন নয়

আগামী বাংলাদেশ আমাদের কাছে দৃশ্যমান। উল্লেখযোগ্য সংখ্যায় অর্জন এবং সর্বস্তরে অগ্রগতি, উন্নয়নের এই ধারাকে করেছে আরো ত্বরান্বিত। বার্ষিক উৎপাদন থেকে শুরু করে আর্থ সামাজিক উন্নয়ন এবং স্থাপত্যের অভাবনীয় উৎকর্ষতায় বাংলাদেশ এখন সম্ভাবনাময় এবং প্রতিফলিতশীল দেশের একটি। আগামী ২০৫০ এর বৈশ্বিক অর্থনৈতিক প্রক্ষেপণে, অনুমান করা হয় যে বাংলাদেশ ২০৩০ সালের মধ্যে অস্ট্রেলিয়া, স্পেন, দক্ষিণ আফ্রিকা এবং মালয়েশিয়ার মতো দেশগুলোর অর্থনৈতিক প্রবৃদ্ধিকেও ছাড়িয়ে যেতে সক্ষম হবে এবং সম্ভাব্যভাবে বিশ্বের ২৮ তম বৃহত্তম অর্থনীতির মাইলফলক স্পর্শ করবে। উন্নয়নের এই যাত্রায় একাত্মতা ঘোষণা করলে নিরলস কাজ করে যাচ্ছে **RRM Group**।

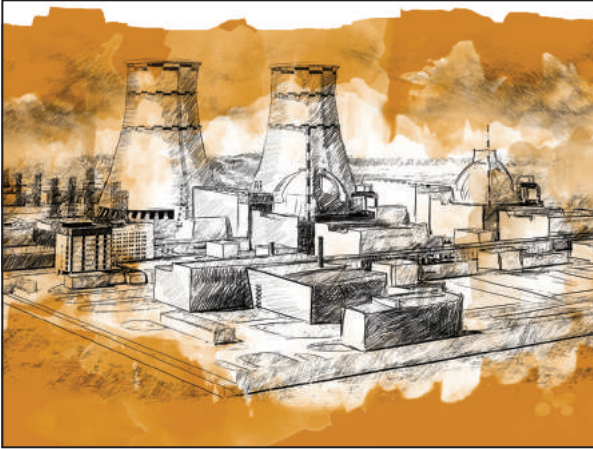
আগামী বাংলাদেশের সফলতার ভিত রচনা হবে শক্ত অবকাঠামোর উপর ভর করে আর শক্তিশালী অবকাঠামোর আস্থায় **RRM Steel** দেশের সেরা শক্তিশালী স্টিল।



ঢাকা মেট্রোরেল



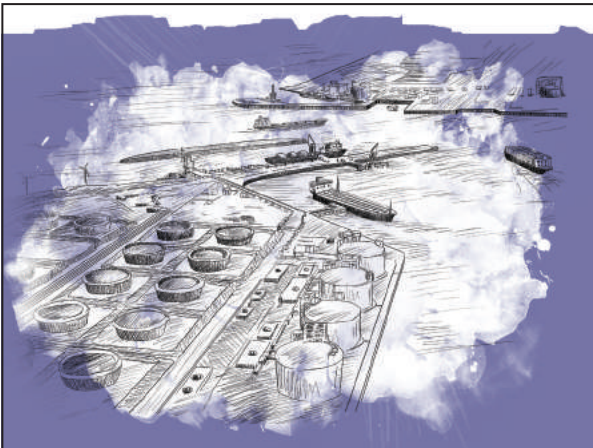
পদ্মা সেতু



রূপপুর পারমাণবিক বিদ্যুৎকেন্দ্র



পূর্বাচল এক্সপ্রেস হাইওয়ে



তরল প্রাকৃতিক গ্যাস টার্মিনাল



ঢাকা এলিভেটেড এক্সপ্রেসওয়ে

**দৃঢ়তা আর
আস্থার প্রতীক**

RRM GOLD B500 CWR
RRM GOLD B500 DWR
75 GRADE

**RRM
STEEL**

মজবুত কাঠামোর
স্থাপনা গড়ে
**প্রজন্ম
থেকে
প্রজন্মে**

RRM GOLD B420 DWR
60 GRADE

DHR
প্রযুক্তিতে তৈরি হচ্ছে
দেশের সবচেয়ে
শক্তিশালী স্টিল

প্লেইন বারের তুলনায়
ডিফর্মড বার
কংক্রিটের সাথে
মজবুত বন্ধন তৈরি করে

75 GRADE
RRM GOLD B500 CWR | RRM GOLD B500 DWR

শক্তিশালী ভবন তৈরীর
দৃঢ় আশ্বাস

60 GRADE
RRM GOLD B420 DWR

পরিবেশ বান্ধব স্টিল

**Green
STEEL**



**Production
Process**