

Inauguration of the country's largest steel plant

The Advent of Xtreme 500 Steel



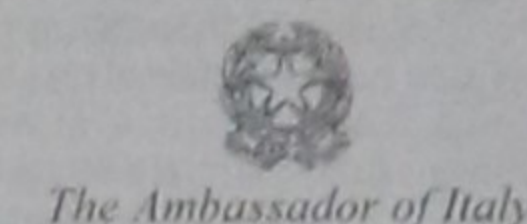
Message

It is indeed a source of great satisfaction to learn that one of our leading industrial groups has undertaken setting up the largest ever 375,000 tons per annum rolling mill in our country, supplied by Danieli Italy, a world famous machinery manufacturer. We sincerely hope that with the increased capacity, the market will stabilize and our country will now get increased supply of quality deformed steel bars.

The Government encourages the private sector to come forward with more such huge plants, and sincerely hope, that our country will progress with such huge investments in the steel sector. We wish all the best to this prestigious group who has been in the steel business since 1952, and we acknowledge their contribution to the national exchequer as being the largest.

Dr. Hossain Zillur Rahman
Adviser, Ministry of Commerce & Ministry of Education
Govt of the Peoples' Republic of Bangladesh

Message



The Ambassador of Italy

I congratulate BSRM for the inauguration of their new rolling mill plant.

I am confident, the technology provided by DANIELI, a world leading manufacturer in the field of machinery for the iron & steel industry, would contribute to make this new venture a big success.

This new plant will greatly benefit the construction industry as well as the Bangladeshi economy and I am very pleased that an Italian industry would be part of it.

In fact, Italy has a long tradition of manufacturing world class equipment and machinery for the iron & steel industry, and I praise BSRM for choosing Italian technology for this prestigious project to which I also wish them best of luck.

Itala Maria OCCHI
Ambassador of Italy to Bangladesh



Message

I am extremely pleased to note that BSRM has commenced production of a new type of high strength bar which has yield strength of 500 Mpa and is easily weldable as well. It is expected that this new type of rebar will translate into cost saving for the construction industry.

We congratulate BSRM on this landmark achievement, and trust their new project will go a long way in meeting the demand for quality rebars at affordable prices for home building.

Mr. Tanveerul Haque Probal
President
Real Estate and Housing Association of Bangladesh (REHAB)



Message

It is with a sense of pleasure and pride that we welcome the advent of Xtreme 500 reinforcing steel. The Construction Industry has long felt the need for a higher strength rebar over conventional Grade 60 bars.

With the spiraling costs of steel and other construction materials, it is a national priority to achieve further economies and cost reductions in construction materials.

In this context, we congratulate BSRM on its bold venture in setting up a world class rolling mill to manufacture the next generation of reinforcing steel.

I wish BSRM Steels Ltd. all the best and expect the plant to be prosperous in its challenge to meet the country's demand for new generation steel at affordable prices.

Engr. Syed Mosharraf Hossain
President
Bangladesh Association of Construction Industry (BACI)



A DREAM REALISED

Once a fallow land, the 11 acre premises were transformed into a state-of-the-art fully automated steel rolling plant capable of producing 3.75 lac tons of 500 grade deformed bars annually, using the most updated technology and machinery from world leaders in steel manufacturing. Operation of the rolling mills including all auxiliary units are fully computerized with Siemens S-7-400/300 PLC System. Automation and electrical systems interfaces are designed to properly handle sequences, and control loops and interlocks of the process equipment. Total mill operation is controlled from the Main and Finish Pulpits equipped with the most advanced Human-Machine-Interface (HMI). Wide use of window based, intuitive graphical interface to visualize the process and equipment ensures reliability, user-friendliness and ease of maintenance.

Manual material handling during operation and maintenance have been kept to a minimum level in order to safeguard life and property from the red hot steel bars moving at very high speed. Remote controlled overhead cranes are continuously used for billets, finished goods and equipment handling. Even the mill scales are cleaned automatically from the collection pits at regular intervals. Robotic facilities are incorporated for speedy and accurate assembly and disassembly during roll maintenance. Automatic bundling and wire binding machines controlled from the Finish Pulpit are the essential facilities of the mill to ensure speedy delivery of the finished product. This advanced design concept, so far adapted by only few steel mills in this region, offers tremendous operational and maintenance advantages over traditionally designed rolling mills. The plant started trial production from the 4th of March, 2008, just over 22 months after the first RCC pile was driven on the 27th of April 2006. The production trials started from the 4th of March, 2008, and the

plant is now undergoing commercial production. The salient construction statistics of the project are sited below:

Excavation of unusable soil:	57,500 cubic meter
Sand filling:	96,000 cubic meter
Cast in situ RCC piles (500-600 mm dia):	1400 nos
Total RCC work:	17,500 cubic meter

Pre Engineered Factory Building:

Total steel weight:	3,500 Metric Tons
Total machinery installed:	2,600 Metric Tons
Total piping installed:	14.5 Kilometers
Total cabling laid:	2.00 Kilometers

Many local and international agencies were involved in the supply, construction, installation and commissioning processes of this project. BSE Germany, DANIELI Italy, BENDOTTI Italy, KONE Cranes Finland, Herkules Germany, Ingersoll Rand USA, PEB Steel Vietnam, Abdul Monem Construction, Nekan Alliance PEB, Bidco, Heidelberg Cement, Bureau Veritas, EISB, AEDL, BIDCO, BFEW, IES, M/S Korban Ali, Young Engineers, BIDCO Associates, Bangladesh Steel Fabrication, Business King, Allied Enterprise, BOC, Avery Scales, Concord Ready Mix, Western Marine, NALCO, FOSROC, Sika, SWC, CIBA, Bangladesh Consultants Ltd, and Engineering Services are some of the companies who contributed with their applaudable services in their respective areas. For many of the local companies it was a challenge and a rare opportunity to enter the heavy industrial construction field and accomplish the challenging job in quick time.

Timely and successful completion of the project, a rare event in this part of the world, may be mostly attributed

to the strict adherence to standard project management practices. Each of the major areas of activity were detailed out, planned and monitored by a highly experienced and fully committed project management team, together with the technology supplier's specialists. Extensive site meetings and periodical progress review meetings were amongst the practices followed, which helped in enforcing timely and pre-emptive measures in tackling critical issues.

BSRM now produces deformed bars which have strength of over 500MPa or 72,500 PSI and elongation of minimum 14%, branded Xtreme. Typical Grade 60 bars have yield strength of only 415MPa or 60,000 PSI, and elongation requirement of minimum 9%. The new Xtreme bars are specially water treated through a sophisticated QTBT process which gives it unique characteristics of higher strength, better bendability, more elongation, and easier weldability compared to Grade 60 bars. There are guaranteed savings of 15% in steel quantity in any building construction. With today's high prices of steel in the world market, 15% savings on steel is a significant motivator for everyone to only use this steel in their construction projects. BSRM is proud to present this next generation Xtreme bars for the first time in Bangladesh, and continues to act on its motto of **building the nation since 1952.**

Continuous guidance and support received from our reverend Chairman and Managing Director helped us and everybody associated with the project to work with the highest team morale and the fullest commitment. Timely actions at every stage of work was given the highest priority and we tried our best to follow the Chairman's usual cautionary note: "If it is possible to do something today, why wait till tomorrow; let us do it one month ahead."



BSRM Steels in operation