

Excellence in Quality

MELWA strives to deliver unparalleled quality throughout its processes, which has resulted in high credibility across all sectors. Product quality is achieved through utilization of advanced manufacturing processes, advanced monitoring & testing procedures and equipment at every stage of the production cycle. Adhering with international & local standards (SLS Certification & British Standards), the entire production process from raw material to the finished product is checked to ensure excellence within the line of products and services.

High quality prime billets are imported from premium manufacturers inclusive of recognised multinationals. Recognised for its intense quality procedures, MELWA uses only prime billets for production of sustainable steel bars where all products are strictly tested in advance testing laboratories to ensure quality is controlled throughout the manufacturing process. Continuous R & D allows for MELWA to be innovative and set quality standards as a market leader.

The entire process is aligned as per SLS products certification for the QST Reinforcement steel bars (All profiles 8mm - 40mm), ISO 9001-2015 (Quality Management systems), ISO 14001-2015 (Environmental Management Systems) and OHSAS 18001-2007 (Occupational, Health and Safety Management Systems) with frequent process audits.

The MELWA Group has also been awarded the Certificate of Corporate Platinum Membership by the prestigious Green Building Council of Sri Lanka and ISO 14001-2015 Environment Management Systems Certificate for its commitment to sustainability and green building practices that set the stage for effective environmental protection initiatives.

Value Added Solutions

Technical expertise — MELWA embraces the different skills in this changing market and comprises of a team of expertise that allows customers to consult in purchasing the most suitable product for their needs. Engineers are made available for site visits for technical assistance and consultation. **Product customisation** — MELWA goes above and beyond in order to ensure complete customer satisfaction with availability of product customization in terms of lengths and bar bending. **Integrated system** — MELWA practices internationally acclaimed quality and safety standards as well as work practices throughout its processes. This is reflected with the achievement of OHSAS 18001 occupational, health and safety management system. Sourcing of high quality Re -bars, which is cut to special lengths and bent in site on customer requirements, are monitored and tracked with advanced technological systems, enhancing customer needs. **Lab Testing** — MELWA provides extra quality assurance through independent lab testing followed by free delivery island wide. **Lead time** — Shorter lead time to manufacture and supply.

MELWA[®] PROJECTS

COMMITTED IN SETTING INDUSTRY STANDARDS
QUALITY YOU DESERVE AND DEPENDABILITY YOU CAN COUNT ON

MELWA ENSURES TO RAISE SAFETY AND QUALITY LEVELS OF THE PRODUCTS TO MEET WORLD CLASS STANDARDS EFFICIENTLY TO BECOME A MARKET LEADER IN THE INTERNATIONAL STEEL INDUSTRY.

BELOW ARE SOME OF OUR LANDMARK DEVELOPMENT PROJECTS .



ALTAIR

PORT CITY



SHANGRI-LA

ASTORIA



KATUNAYAKE - COLOMBO EXPRESSWAY

CINNAMON LIFE



COLOMBO CITY CENTER

SOUTHERN EXPRESSWAY

LOTUS TOWER



CAPITAL TWIN-PEAK

VELANA INTERNATIONAL
AIRPORT MALDIVES

CONRAD MALDIVES

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MELWA

QST Re-bars



Diameter (mm)

8mm QST
10mm QST
12mm QST
16mm QST
20mm QST
25mm QST
32mm QST
40mm QST

Standard Length

6m/12m

We Build a Sustainable Nation

MELWIRE ROLLING (PVT) LTD

Sri Lanka's Steel Giant with a Global Reach

Melwire Rolling – Sri Lanka's premium steel manufacturer has been revolutionising the Sri Lankan infrastructural landscape since inception in 2002. A 100% Sri Lankan owned family business that is dedicated to provide quality steel products, whilst steering ahead as a major player in the Sri Lankan economy. Operating under the brand name – MELWA, the company plays a major role in supplying to the construction and infrastructural industry, whilst being the most sought after brand by reputed local and international companies in and around South Asia.

2007 saw the setup of the second plant to cater to the rising demand of the country. TMT technology was introduced in 2011-12 with the launch of QST – RB 500 Re Bars / wire rods for the first time in Sri Lanka at the Block Mill facility as an import replacement for the country which is currently the most widely used around the world. In 2016 the fast growing infrastructural landscape resulted in the introduction of GI pipes and box bars manufacturing. The factories located in the suburbs of Colombo, in Ekala, Ja-ela has a production capacity of over 500,000 MT per year and a plant facility expanding over 50 acres. As industry leaders, Melwire expanded with a first of its kind - state of the art plant (Danieli – Italy) in 2018, encompassed with ultra-modern technologies to manufacture some of the most demanded products used across the world today.

Equipped with industry sought after technologies and cutting edge manufacturing capabilities, the Melwire group remains in the forefront. The portfolio comprises a diversified range of infrastructural steel units which contributes and strengthens the construction industry for infrastructural growth by raising the standards in par with international levels.

Leadership, Innovation, sustainability and quality are the core values that Melwire is built on, just like the strength of its steel the company operates in full force to be in the forefront of the advancing steel industry in Sri Lanka, making it the largest steel manufacturer and market leader.

SPECIFICATIONS

MELWA QST Rebars Specification

Products	Mass Per Meter (kg/m)			Lower Yield Strength (Min)	Elongation (Min)
	Min	Average	Max		
8 mm QST	0.372	0.395	0.418	500 MPa	14%
10 mm QST	0.589	0.616	0.643	500 MPa	14%
12 mm QST	0.849	0.888	0.927	500 MPa	14%
16 mm QST	1.509	1.58	1.651	500 MPa	14%
20 mm QST	2.359	2.47	2.581	500 MPa	14%
25 mm QST	3.677	3.85	4.023	500 MPa	14%
32 mm QST	6.027	6.31	6.593	500 MPa	14%
40 mm QST	9.417	9.86	10.303	500 MPa	14%

Rib Geometry (mm)

Products	Height of Transverse Rib	Height of Longitudinal Rib	Rib Spacing	Transverse Rib Inclination
	Min (0.05D)	Min - Max (0.05D - 0.10D)	Min - Max (0.50D - 0.70D)	
8 mm QST	0.40	0.40 - 0.80	4.0 - 5.6	65° (60° - 70°)
10 mm QST	0.50	0.50 - 1.00	5.0 - 7.0	
12 mm QST	0.60	0.60 - 1.20	6.0 - 8.4	
16 mm QST	0.80	0.80 - 1.60	8.0 - 11.2	
20 mm QST	1.00	1.00 - 2.00	10.0 - 14.0	
25 mm QST	1.25	1.25 - 2.50	12.5 - 17.5	
32 mm QST	1.60	1.60 - 3.20	16.0 - 22.4	
40 mm QST	2.00	2.00 - 4.00	20.0 - 28.0	

Mechanical Properties of MELWA QST Rebar

Lower Yield Strength (min)	Elongation at Fracture (min)	Stress Ratio (min)
500 N/mm ²	14%	1.08

Chemical Compositions of MELWA QST Rebars

Element	Billet Analysis	Product Analysis
Carbon	0.220% [max]	0.240% [max]
Sulphur	0.050% [max]	0.055% [max]
Phosphorous	0.050% [max]	0.055% [max]
Nitrogen	0.012% [max]	0.014% [max]
Copper	0.800% [max]	0.850% [max]
Carbon Equivalent	0.500% [max]	0.520% [max]

MELWA QST Rebar Products Size Chart

Size	NO. of Bars per MT [6m Length]	Bars Per Ton [12m]
8 mm	415 - 420	200 - 224
10 mm	270 - 275	130 - 141
12 mm	180 - 185	90 - 98
16 mm	105 - 107	51 - 55
20 mm	66 - 67	33 - 35
25 mm	43	21 - 22
32 mm	26	13
40 mm	17	8

MELWA assures that its continuous dedication for product portfolio improvement at cost effective prices allows for clients to choose the most suitable material to meet their specific requirements.

QST Re-bars are popularly used in the construction industry for concrete reinforcement. They are manufactured with cutting edge technologies. The design standards exceed expectations with a grade RB500 and produced under BS certification (BS 4449) in accordance with ISO 1786.

Greater Strength — produced to be stronger than conventional steel bars resulting in lesser quantities being used saving up to 19% of usage. Its added strength makes it a favourite for larger concrete structures. (SLS 375-RB500 MPa grade)

Improved Ductility — allows workability at the construction site

Improved Bendability — Lana brittleness due to its low quantities of carbon, allowing that to withstand bending and re-bending without loss of strength

Earthquake Resistance — due to its flexible and added strength

Heat Resistance —with no change in strength up to 500°C and minimum change above 500°C -600°C, making it the most preferred choice for construction sites abiding by fire hazard safety measures.

Corrosion Resistance — due to the quality assurance during manufacturing. A protective oxide layer is formed on the bars making them more durable than CTD bars. Additionally, due to internal technical capabilities, corrosion resistance can be improved to suit the need of specific customer resistance by altering the chemical properties during production.

A TRUSTED BRAND MELWA

The MELWA brand is stamped across its wide portfolio of products which has made it the most established and preferred brand in the industry, Providing the assurance of high quality through its strength, safety and most importantly durability.

