

Annexure-A**CARBON STEEL (SA-516 GRADE 70)**

Sr. #	Description	Material	Qty. (Nos.)	Wt.(Kg.) (Approx.)
1	Plate 35 x 1500 x 6000 mm	SA516-Gr. 70 as per attached specification No DNT003-SS001-MS-09/088 (Rev.0) (Annexure-C)	1	2476
2	Plate 105 x 1000 x 2000 mm		1	1650

Notes:**Total Wt. = 4126**

1. Mill Test Certificates having Chemical & Mechanical properties have to be supplied with plates as per attached Specification.
2. Heat Number, Material Grade, Size of plate and manufacturer's stamp should be marked / stenciled on the plates. Heat No. should match with relevant MTC.
3. Plates shall be accepted after testing at our works, if required.
4. $\pm 5\%$ variation in weight is allowed.
5. Please submit check list (**Annexure-B**) along with your quotation, after encircling either "Yes" or "No"

Annexure-B

Technical Check List

1- All the technical details i-e chemical composition, mechanical properties and testing requirements given in applicable specification DNT003-SS001-MS-09/ 088 at Annex-C, have been carefully read and understood.	Yes	No
2- Mill Test Certificates fulfilling all requirements of applicable material specification No. DNT003-SS001-MS-09/088 will be provided along with supply.	Yes	No
3- All the contents/results of MTCs i-e chemical composition, mechanical properties and testing requirements will be carefully checked and corrected, for complete compliance to applicable specification DNT003-SS001-MS-09/ 088 at Annex-C.	Yes	No
4- Manufacturer's name/logo, Heat Number, Material Grade and Size as per identification/markings requirements of applicable specification, will be present on the plates.	Yes	No
5- Marking contents of Plates mentioned at point no.4 above, will also be given in relevant MTCs and Heat Numbers marked on plates and MTC will essentially match.	Yes	No
6- The plates shall be uniform in quality and temper, smooth, commercially straight and free of injurious imperfections. No repair welding will be done.	Yes	No
7- The dimensions and quantity of offered plates is according to requirement, in case of alternate size/variation, same has been mentioned in quotation	Yes	No
8- We agree that the plates & their material grade will be examined / tested for final acceptance and verification at our laboratory. In case of rejection of material, supplier is bound to replace the stores at their own cost	Yes	No
9- We confirm that we/material manufacturer have sufficient QA/QC understanding for fulfilling all the essential requirements of applicable material specification regarding MTCs and overall quality of the plates to be supplied.	Yes	No

Note:

This check list must be submitted along with your quotation, after encircling either "Yes" or "No", otherwise the offer may not be entertained.

Material SpecificationNo. DNT003-SS001-MS-09/ 088Date: 20-11-2018 Rev. No. 0Page 1 of 1

Product : Carbon Steel Plates
Material : SA-516 / SA-516M Grade 70

Technical Requirements : The material supplied shall meet the general requirements of SA-20/ SA-20M.

Chemical Composition : As per Table-1 below

Thickness	C, max %	Mn, max %		P, max %	S, max %	Si, max %	
		Heat Analysis	Product Analysis			Heat Analysis	Product Analysis
12.5 mm & under	0.27	0.85-1.20	0.79-1.30	0.035	0.035	0.15-0.40	0.13-0.45
12.5 to 50 mm	0.28						
50 to 100 mm	0.30						

Tensile Requirements : Table 2, below

Tensile Strength	MPa	Yield Strength MPa (min)	Elongation in 50 mm, min %
485 - 620		260	21

Mill Test Reports :

- Mechanical test report for each lot of material from a specific heat.
- Chemical analysis report for each lot of material from a specific heat.

Quality :

The material shall be uniform in quality and temper, smooth, commercially straight and free of injurious imperfections. No repair welding is allowed.

Certification :

Products shall meet the requirements mentioned above and as given in the relevant section of ASME and ASTM Standard.

Marking :

The manufacturer's name or brand, the specification number and grade, heat number and size, schedule number etc., shall be legibly marked on each finished length.

Note :

All certificates must be in English language.