

	CORPORATE PURCHASING SPECIFICATION			AA10508		
				Rev No.00		
				PREFACE SHEET		
Cold Rolled corrosion resistant plates of ASTM A588 GRADE-A						
FOR INTERNAL USE ONLY REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS						
Equivalent/Comparable Standards:						
International : ASTM A588 Grade-A						
User Plants and Replaced Plant Specifications/References:						
1) BAP Ranipet : TDC:RTA:404						
Revisions: BAP Ranipet TDC:RTA:404 elevated to Corporate				APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(S&GPS)		
Rev No.00	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 st Issue	
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Cold Rolled corrosion resistant plates of ASTM A588 GRADE-A

1 Scope

This Specification governs the requirements of cold rolled plates of ASTM A588 Grade-A and equivalent used in APH. Steel shall be in fully killed condition.

2 Chemical & Mechanical properties

2.1 Chemical (melt wise)

C	Mn	Si	P	S	Cu	Cr	Ni	V
0.19 max.	0.80-1.25	0.30-0.65	0.03 max	0.03 max	0.25-0.40	0.40-0.65	0.40 max	0.02-0.10

2.2 Mechanical properties

Yield point (MPa) (Min)	Tensile Strength (MPa) (Min)	% of Elongation (Min) 5.65 $\sqrt{S_0}$
≤ 16 thick	355	20
> 16 thick	345	
490-630		

2.3 Bend test shall be conducted

3 Supply conditions (Plates and sheets)

- 3.1 Tolerance for the plates is as per ASTM A6.
- 3.2 Tolerance for sheets on thickness is Plus 0.15 minus 0.00
- 3.3 The plates / sheets shall be free from scales and rust.
- 3.4 Plates thickness 12 mm and above shall be ultrasonically tested and accepted as per ASTM A435.

4 Packing and Preservation (for sheets / plates)

- 4.1 The sheets shall be coated with a coat of rust Preventive Fluid on both sides and polythene sheets (thickness more than 20 Microns) shall be wrapped over the sheet bundle, subsequently sheets shall be wrapped with Hessian cloth and suitable metal belt.
- 4.2 The plates shall be suitably bundled for withstanding the handlings during loading & unloading.

5 Identification

For plates the following details a, c, d are to be hard stamped and bordered with paint and b & e are to be painted.

- a) Vendor's Name
- b) P.O. No.
- c) Sheet No. / Plate No.
- d) Specification & Grade.
- e) Net Weight

Revisions:

BAP Ranipet TDC:RTA:404 elevated to Corporate

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(S&GPS)

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**6 Test certificate**

6.1 The TC shall be in English and containing the following details

- 2) PO No.
- 3) Specification and grade
- 4) Nominal thickness and width
- 5) Chemical composition – melt wise.
- 6) Mechanical properties – melt wise / HT batch wise
- 7) Gross and net weight

6.2 BHEL reserves the right to carry out test and reject the items wherever non-conformance to the contract is noticed.

7 REFERRED STANDARDS (Latest Publications Including Amendments)

- 1) ASTM A6
- 2) ASTM A435