

22

1. Enquiry items along with quantities:

It. no	Size & Item description	Technical requirements	No. of plates	Qty in MT
1	40 mm Tk X 2500 mm W X 10000 mm LG	Carbon steel plates as per ASTM A 516 Gr. 70 with additional & mandatory technical requirements as per sl.no. 2 below.	1	7.85
2	36 mm Tk X 2500 mm W X 10000 mm LG		3	21.195
3	16 mm Tk X 2500 mm W X 5000 mm LG		6	9.42
4	12 mm Tk X 2500 mm W X 5000 mm LG		18	21.204
5	110 mm Tk X 2600 mm W X 2600 mm LG		1	5.838
TOTAL			29	65.507

Above quantities are subject to variation per lot, per item and on overall basis: +10% / -0%.

2. Mandatory technical requirements:

Requirements	Standard	Applicable for thickness of plates
Condition	Normalized	For all items
Thickness & size	As per items in table at sl.no. 2 above.	For all items
Dimensions and tolerances	ASTM A 20 / A 20M	For all items
Charpy V – notch impact test on longitudinal specimen	ASTM A 20 / A 20M • For thicknesses upto 125 mm – At temperature specified in table A2.15.	For all items
Vacuum treatment	SA 516 Gr 70 / SA 20	For all items
Bend test	As per IBR regulation- 19(cold bending through 180° around mandrel whose radius shall be equal to 1.5 times the plate thickness.)	For all items
Certification	Original co-related test certificates in IBR form IV shall be required	For 40 mm tk, 36 mm tk & 110 mm tk.
Ultrasonic testing	ASTM A578 / A578M (acceptance level shall be B)	For all items
Inspection documents as per results of tests for: • Chemical analysis • Mechanical properties • Heat Treatment • NDT • Impact testing (longitudinal)	As per SA 516 Gr. 70 / SA 20 and relevant standards as applicable.	For all items

ABOVE TECHNICAL REQUIREMENTS OF EACH ENQUIRY ITEM ARE TO BE NECESSARILY ACCEPTED BY THE BIDDERS FOR THEIR OFFERS TO BE CONSIDERED TECHNICALLY ACCEPTABLE, FAILING WHICH OFFERS SHALL BE REJECTED.