MILL'S QUALITY CERTIFICATES

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L/C NO (P/O NO) : 1103051406

COMMODITY : 577.245MT SQUARE AND RECTANGULAR PRIME STEEL PIPES/GRADE:ASTM A 500B. AS PER FOLLOWING BREAKDOWN

CUSTOMER : DUFERCO SA

SPECIFICATION : ASTM A500 GR.B

TYPE OF PIPE END	DIMENSION (OUTDIA.×THICK.×LENGTH)	QUAN-TITY	WEIGHT	HYDRO-STATIC TEST		HEAT-NO.	PHYSICAL PROPERTIES			CHEMICAL COMPOSITION																	IMPACT TEST (0 ℃)		REMARK
				Kg/㎠ PSI	※5		YIELD STREN-GTH	TENSILE STRENGTH B ※6	TENSILE STRENGTH W ※7	(EL)		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Nb	V	Ti	B	HARDNESS	Ceq	ENERGY	SHEAR-VALUE	(HARDNESS)
※1	※2 ※3 ※4						PSI			%	※8	×100			×1000		×100			×1000					HV	×1000	JOULE	%	
BPE	NB 10"X10" X 0.313" X 40'	148	108,445			SR26884	49,587	71,045		24	H	18	2	30	14	3													
	TOTAL	148	108,445																										

※9 P. S. A	※10 VISUAL & DIMENSION TEST	※11 FLATTENING (B) TEST	※12 WELD DUCTILITY TEST	※13 NONDESTRUCTIVE TEST (U.T)	※14 DRIFT TEST	※15 FLARING TEST	※16 CRUSH TEST	※17 REVERSE FLATTENING TEST
	GOOD							

NOTE 1 ※1 Type of pipe End

BPE :Black Plain End Square-cut	GPE :Galvanized Plain End Square-cut
BPEB :Black Plain End Beveled	GPEB :Galvanized Plain End Beveled
BTC :Black Threaded & Coupled	GTC :Galvanized Threaded & Coupled
BVJ :Black Victaulic Joint	GVJ :Galvanized Victaulic Joint
ETC :Enameled Threaded & Coupled	

※ 2 NB:Norminal Bore, OD:Outside Diameter
※ 3 Unit (M:mm, I:Inch)
※ 4 Unit (M:Meter, F:Feet, I:Inch)
※ 5 G:Good
※ 6 Base Metal
※ 7 W : Weld Part
※ 8 H:Heat (Ladle) Analysis , P:Product Analyics
※ 9 POST SEAM ANNEALING
※10 Visual & Dimension Test
※11 Flattening or Bending Test
※12 Weld Ductility Test
※13 Nondestructive Test
※14 Drift Test
※15 Flaring Test
※16 Crush Test
※17 Reverse Flattening Test

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HISTEEL CO., LTD

SUPERVISOR

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN ACCEPED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER

K. UM / PRESIDENT

INSPECTION MANAGER