MILL'S QUALITY CERTIFICATES

SeAH SeAH Steel Corp.
(주)세아제강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 CERTIFICATE NO.	E200709-0077-002313(5002028)
제품명 COMMODITY	E.R.W STEEL PIPE
제품규격 SPECIFICATION	API 5LB PSL1/ASTM A53B(2006)
발급일자 DATE OF ISSUE	2007.08.31
계약서번호 L/C No. (P/O No.)	PLESA
수요가 CUSTOMER	DUFERCO SA
주문자 SHIPPER	SEAH STEEL CORPORATION

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문치수 ORDER SIZE			수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
43	C732858 (SIH7201190)	BBE	24 "	X 0.500 "	X 6.120 M	24	146.880 M	27.475	PO.NO :1103054906
44	C722902 (SIH7231230)	BBE	20 "	X 0.500 "	X 6.120 M	35	214.200 M	33.227	
45	C713877 (SIH7231240)	BBE	20 "	X 0.500 "	X 6.120 M	1	6.120 M	0.949	
46	C722904 (SIH7231250)	BBE	20 "	X 0.500 "	X 6.120 M	17	104.040 M	16.139	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	HYDROSTATIC TEST RESULT	N.D.T U	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM	BENDING	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S	알칼리 ALK	DESIG	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ	DIR	TENSILE TEST (Gage Length : 50mm) TENSILE STRENGTH	YIELD STRENGTH	E.L	IMPACT TEST (℃) ENERGY	SHEAR AREA	HARDNESS TEST	HEAT TREATMENT SN	PROTECTIVE COATING & LINING THICKNESS	P.H
																					2		3		2	2	2	2	3											
				*2					GAUSS	*3							*4	*5	*6					*7						*8	*9	psi	psi	*10 %	Joule	%		*11		
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80											
																			MIN													60000	35000							
43	C732858	880	G	G	G	G			G										H	18	2	79	15	7																
	(SIH7201190)																		P	17	1	79	15	6	1	1	1	1	1		T	70690	48780	37				G		
																			P	17	3	78	13	7	1	2	3	1	1		W	70974								
44	C722902	1050	G	G	G	G			G										H	17	2	82	20	10																
	(SIH7231230)																		P	17	2	82	22	10	1	1	1	1	2		T	70690	49070	38				G		
																			P	17	3	81	21	11	2	1	1	1	1		W	71543								
45	C713877	1050	G	G	G	G			G										H	15	3	77	20	8																
	(SIH7231240)																		P	15	4	77	20	7	1	1	1	1	2		T	70830	51200	40				G		
																			P	16	3	77	18	9	1	1	1	1	2		W	71828								
46	C722904	1050	G	G	G	G			G										H	16	1	73	18	9																
	(SIH7231250)																		P	15	2	74	17	10	2	2	1	1	1		T	69260	46650	39				G		
																			P	16	TR	74	16	10	1	2	1	1	1		W	67561								

NOTE *1 ~ *12 : Refer To The Attached Section Designation

OTHER

Surveyor :

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.
- THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.

J. E. KIM