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MILL'S QUALITY CERTIFICATE

SeAH Steel Corp.
(주)세 아 제 강

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

증명서번호
CERTIFICATE NO. : E200704-0086-001171(5001422)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : API 5LB PSL1/ASTM A53B(2005)

발 급 일 자
DATE OF ISSUE : 2007.03.30

계 약 서 번 호
L/C No. (P/O No.) : 47LI-B82946-TLJY(1103049204)

수 요 가
CUSTOMER : DUFERCO SA

주 문 자
SHIPPER : SEAH STEEL CORPORATION

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
37	C730268 (SIH2081080)	BBE	20 " X 0.375 " X 6.120 M	70	428.400 M	50.029	* DESCRIPTIION OF GOODS : 1,408.552MT (+/- 10 PCT) CARBON STEEL PIPES WELDED / ASTM A53 B
38	C710218 (SIH2122020)	BBE	24 " X 0.250 " X 6.120 M	2	12.240 M	1.165	* STEEL GRADE : ASTM A53 B
39	C720192 (SIH2122040)	BBE	24 " X 0.250 " X 6.120 M	25	153.000 M	14.575	
40	C730182 (SIH2122050)	BBE	24 " X 0.250 " X 6.120 M	42	257.040 M	24.486	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	IMPACT TEST (℃) SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT SN *11	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80											
																			MIN												60000	35000							
37	C730268 (SIH2081Q80)	790	G	G	G	G			G										H	17	2	80	15	7															
																			P	16	1	81	14	9	1	2	2	1	2		T	72960	50060	36				G		
																			P	18	2	81	16	7	2	2	2	1	1		W	73819								
38	C710218 (SIH2122020)	440	G	G	G	G			G										H	16	1	76	15	8															
																			P	15	TR	77	14	7	2	3	3	1	1		T	70540	51770	37				G		
																			P	16	TR	75	16	7	2	2	2	1	1		W	69125								
39	C720192 (SIH2122040)	440	G	G	G	G			G										H	16	2	83	13	7															
																			P	16	3	84	14	5	3	3	1	1	2		T	74240	56460	41				G		
																			P	15	3	82	15	8	2	3	1	1	1		W	74530								
40	C730182 (SIH2122050)	440	G	G	G	G			G										H	17	2	76	17	10															
																			P	18	1	76	17	9	2	2	2	1	1		T	72960	55890	42				G		
																			P	16	3	75	19	12	2	2	2	1	1		W	72397								

COPY

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