JAPAN INTERNATIONAL COOPERATION AGENCY P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan.

C/Nos.	Description of Goods		Quantity		ight i	Measure- ment	
C/NOS.		Description of Goods		net	gross	ment	
	TECHNIC	AL EQUIPMENT OF J.I.C.A.					
	MATTOT	LS FOR JAPAN-SAUDI ARABIA					
		H PROJECT OF SEA WATER					
•	DESALIN	ATION					
./no.w.1		·					
/NO.M-1 CRATE)		•					
ALS STORY			٠	(Kgs)	(Kgs)	(M3)	
TEM NO	SK-001		1 pc	17,000	23,200	162.697	
k s ver		7600x4500x3800					
/NO.M-2					1	-	
CASE)		·					
TEM NO.	GV 201	Boiler Unit	l pc	2,000	3,000	18.870	
-001	2W-001	1700x3300x2400	, pc	,,		(18.296)	
in the second							
/NO.M-3 CASE)	ŕ	·				:	
TEM NO.	-		,				
-001	SM-002	Oil Boost Pump Set 900x1390x580	1 pc	240	550	3.844	
· #	-003	Chiminey \$300x1000	6 pcs				
er .	-004	Chiminey Top 6545x525	l pc				
ų	-005	Softner Resin 210x260x400	l pc				
		210x260x400 10L			•		
11	-006		l pc			-	
45		3/4B R-125 70x45					
11	-007	Lift Check Valve	l pc				
į		3/4B F-150 65x35				·	
11	-008	Feed Water Pump	1 pc				
		KMB15060 200V 1.5KW 245x360x200					
i		0022006264			Ì		
11	-009	Ignition Transformer G-7023-YC 87x155x95	l pc				
ì	•	G-7023-1C 87X133X93				į.	
11	-010	•	l pc				
		LK 230 100x100x150					
		- to be cont	inued -		}	1	

JAPAN INTERNATIONAL COOPERATION AGENCY

C/Nos.		Description of Goods	Quantity	Wei	ght	Measure-
O/1100.		Description of Goods	Quantity	net	gross	ment
101/11/A				(Kgs)	(Kgs)	(M ³)
TEM NO. -001	SM-011	Flame Eye P930-05 55x44	l pc			
n	-012	Mechanical Sheel KMB15060 \$45x25	l pc			
n .	-013	Oil Pump E6MA-100-4 100x122x170	1 pc	Task tip		, x.,
	-014	Pressure Switch FNS-C110N 1/4F PT 49x80x103	l pc			
ff	-015	Steam Pressure Gauge 3/8B DU \$100 0 - 20K	1 pc			
	-016	Oil Solenoid Valve 122K 63 75x51x80	1 pc			
11	-017	Fuse UCl 5A \$15x50L	10 pcs			
11	-018	Level Gauge Glass Gasket 17x34x280	2 pcs			
1)	-019	Nozzle 6.0G 60° PL 34x16	4 pcs			
!!	-020	Nozzle 4.5G 60° PL 34x16	2 pcs		·	-
u ·	-021	Ignition Rod ER-B010 120L	l pc			
·· ~	-022	Oil Thermometer 644° PT 1/4°	1 pe			
**	-023	Oil Pressure Gauge 1/4B ø60 0-30K	1 pc			
19	-024	Thermostat 17101 19x43x22	1 pc			
17	-025	Oil Heater Thermo TO-101B 37x45x63	l pc			
	-026	Float Lees Switch 61-F-GP-B 38x50x84	1 pc			

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3) K

				Wei	ight	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
ITEM NO. B-001	SM-027	Oil Heater	1 pc	(Kgs)	(Kgs)	(M3)
		S-K20 68x78x90	-			
21	-029	Electrode E3 $\phi 6 \times 323 L$	2 pcs		,	
IJ	-30	Auxiliary Relay AP3125 21x24x34	1 pc		i Garage State of the	
11	-031	Timer Relay AD-1175 22x28x55	l pc			
H	-032	Timer Relay 200-M-20 (30)-4BFP1 33x85x35	l pc			
11	-033	Electromagnetic Contactor (Feed Water Pump) MSO-AlORM 6.5A 70x54x100	1 pc			
н	-034	Electromagnetic Contactor (Burnermotor) MSO-K2OSR 15A 90x71x120	1 pc	7.00		
11	-035	Electromagnetic Contactor (0il Pump) MSO-AlORM 2.1A 70x54x100	1 pc			
<u>.</u> 11	-036	Power Switch ASN-320 36x40x76	1 pc			
11	-037	Control Switch ASN-201S 36x40x99	1 pc			
t	038	Power Lamp AH30-ZMWM ø40x54L	1 pc			
11	-039	Burner Alarm Lamp AH30-ZMRM ø41x54L	1 pc			
11	-040	Burner Lamp AH30-ZMGM ø41x54L	1 pc			
	-041	Samson Controller SC-G200 138x185x69	l pc			
11	-042	Electrode Holder BS-1 L=100	2 pcs.			
		- to be con	inued -			

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C/Nos.		Description of Goods	Quantity	Wei	ght	Measure-
C/1408.		Description of Goods	& dunitity	net	gross	ment
ITEM NO. 3-001	SK-043	Electroce El ø6x103L	2 pcs	(Kgs)	(Kgs)	(M ³)
u	-044	Electrode E2 ø6x173L	2 pcs			
tt	-045	Adiabatic Material 650x400x10	l pc			÷
11	-046	Tool Box 360x200x75	1 pc			-
. H	-047	Anchor Bolts and Nuts (Boiler Unit Base) M20x250L L-Type	6 sets			
п	-048	Anchor Bolts & Nuts (Oil Boost Pump Set) M10x125L L-Type	4 sets			
n	-049	Wire (for Oil Boost pump Set) \$460x100	1 pc			
***	-050	Water Hardness Check Reagent 95x¢23 / 57x¢70	l set			
ń	-051	Hose Pump 290xø45	l pc	·		·
C/NO.M-4 (CASE)						
TEM NO. 3-001	SM-028	Samcleam K100 350x260x310	24 pcs	480	610	1.280
C/NO.M-5 (CASE)						
TEM NO. 2-001	HM-01	Pump & Motor & Base 1007x790x380	l set	460	620	2.228
U	-02	Spare Parts (for trial run) Gland Packing 47.5x¢65	2 sets			·
II	-03	Spare Parts (for a year) Gland Packing 47.5x¢65	2 sets			
		- to be cont	inued -		:	

Weight Measure-Quantity C/Nos. Description of Goods ment net gross (8M)(Kgs) (Kgs) ITEM NO. P-001 HM-04 Spare Parts (for a year) 2 pcs Gasket (for Casing) ø218xø209x1t -05 Spare Parts (for fear) 2 pcs Gasket (for Sleeve) ø34xø24x0.8t P-002 HM-11 Pump & Motor & Base 1 set 951x790x405 -12 Spare Parts (for trial run) 2 sets . Gladn Packing 47.5x665 2 sets -13 Spare Parts (for a year) Gland Packing 47.5x665 Spare Parts (for a year) Gasket (for Casing) -14 2 pcs 6273x6264x1.0t -1.5Spare Parts (for a year) 2 pcs Gasket (for Sleeve) \$34x\$24x0.8t P-003 HM-21 Pump & Motor & Base 1 set 1007x790x380 -22 Spare Parts (for trial run) 2 sets Gland Packing 47.5xø65 Spare Parts (for a year) -23 2 sets Gland Packing 47.5x\$65 -24 Spare Parts (for a year) 2 pcs Gasket (for Casing) ø218xø209x1.0t -25 Spare Parts (for a year) 2 pcs Gasket (for Sleeve) \$34x\$24x0.8t - to be continued -

JAPAN INTERNATIONAL COOPERATION AGENCY

COVer		Description of Cond-	O. antita	Wei	ight	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
/NO.M-6 CASE)				(Kgs)	(Kgs)	(M3)
TEM NO.						
-010	SK-002	Compressor Unit 3000x1900x900	1 pc	900	1,350	8,272
	·		į.		-	į
/NO.M-7 SKID)						
rem no.						the service of
-002	SK-014	Deaerator 6340L	l pc	1,700	1,790	6.873 (6.359)
/NO.M-8			•			
KID)						
TEM NO.	SK-015	Decarbonator 3900L	1 pc	600	660	2.719 (2.480)
'NO.M-9 SKID)						
rem no.					}	
-007	SK-017	0il Tank 3490x62340	1 pc	2,400	2,560	24.121 (23.373)
			-			
'NO.M-10 SKID)	-					••
TEM NO.	SK-018	Water Tank 2506xø1640	l pc	1,100	1,180	9.580
	•			1.		(9.307)
/NO.M-11						[*
ASE)						\$ 25 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	SK-034	Gasket for Water Tank Asbestos	3 pcs	1,200	1,320	1.728
	-035	Gasket for Water Tank (Level Gauge)	2 pcs			
		\$\delta 100x\delta 28x1.5 Asbestos				
		and the second of the second o	.			
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(7) K P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan. Weight Measure-Quantity: Description of Goods C/Nos. ment net gross (KM) (Kgs) (Kgs) Bolt & Nuts for: ITEM NO. 8 sets M20-100 SK-036 Vapor Inlet of Deaerator M20x100 SS41+Galvanize 16 sets -037Vent Line Valve -145 (BW-412, BW-413) M20x145 SS41+Galvanize 8 sets Vent Line of Deaerator -90 -038 M20x90 SS41+Galvanize 8 sets Vent Line of Deaerator -95 -039Inlet of E-001 M20x95 SS41+Galvanize 8 sets SK-053 Service Water Line M16 - 65SS41+Galvanize M16x65 Water Tank (T-006) 4 sets -054 M16-80 Over Flow Line SS41+Galvanize M16x80 16 sets Flash Tank Level Controller -055 M16-70 SS41+Galvanize M16x70 Decarbonator Level Controller 16 sets -056 M16 - 75M16x75 SS41+Galvanize 16 sets Deaerator Level Controller -057 M16 - 75M16x75 SS41+Galvanize Brine Heater Level Controller 8 sets -058 M16 .0 M16x70 SS41+Galvanize 8 sets -059 Evaporator Level Controller M16-70M16x70 SS41+Galvanize 8 sets M20-145 -060 Spare SS41+Galvanize M20x145 -061 Spare 4 sets M16 - 80M16x80 SNB7, S45C Galvanize M16-70 -062 Spare 8 sets M16x70 SS41+Galvanize -063 M12-60 Spare 8 sets M12x60 SS41+Galvanize - to be continued -

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C101-	}	Description of Oas de	0	Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
ITEM NO. M16-75	SK-064	Spare M16x75 SS41+Galvanize	4 sets	(Kgs)	(Kgs)	(M3)
M16~140	-065	Spare . M16x140 SS41+Galvanize	4 sets			
M12-120	-066	Spare M12x120 SS41-Galvanize	4 sets			
M16-65	-067	Make Up Line 80A Decarbonator Inlet M16x65 SS41+Galvanize	24 sets		٠	
M16-130	SK-040	Sea Water Line BV-101 M16x130 SS41+Galvanize	8 sets			
M16-80	-041	MP-Steam Line M16x80 SNB7, S45C Galvanize	12 sets		-	. -
M12-65	-042	20A MP-Drain Trap Line M12x65 SNB7, S45C Galvanize	24 sets			-
M16-65	-043	Oil Booster Pump Outlet Line M16x65 SS41+Galvanize	12 sets			
M16-70	-044	Oil Booster Pump Inlet Line M16x70 SS41+Galvanize	12 sets			
M12-60	-045	T-006 Inlet M12x60 SS41+Galvanize	12 sets			-
M16-70		Boiler Inlet T-006 Outlet M16x70 SS41+Galvanize	8 sets			
M12-60	-047	T-006 Outlet Drain M12x60 SS41+Galvanize	4 sets			
M16-70	-048	Blow Line of Boiler M16x70 SS41+Galvanize	4 sets			
1 1 1 1 1 1 1 1 1						
		- to be con	inued -			-

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C/N-a		Description of Goods	Quantity	Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
ITEM NO. M12-60	SK-049	Blow Line of Boiler M12x60 SS41+Galvanize	4 sets	(Kgs)	(Kgs)	(M ₃)
м16-65	-050	Blow Line of Boiler Ml6x65 SS41+Galvanize	. 4 sets			
M16-80	-051	Safety Valve M16x80 SNB7, S45C Galvanize	4 sets			· · · · · · · · · · · · · · · · · · ·
		Gaivantze				
M12-55	-052	Instrument Air Line M12x55 SS41+Galvanize	4 sets			
M16-60	-068	Make Up Line 50A Decarbonator Inlet M16x60 SS41+Galvanize	32 sets			•
м16-65	-069	Make Up Line 65A Decarbonator Inlet M16x65 SS41+Galvanize	4 sets			
м16-65	-070	Sea Water Line 100A-SW-002-CL2 M16x65 SS41+Galvanize	8 sets			
M16-65	-071	Over Flow Line of Decarbonator M16x65 SS41+Galvanize	8 sets			
M12-45	-072	Distillate Line XV-402 Discharge M12x45 SS41+Galvanize	4 sets			
м16-55	-073	Evaporator Drain Line 50A-PD-003-CG3 (2/2)	4 sets			
•		M16x55 SS41+Galvanize				
M12-45	-074	Pump Drain Line 20A-PD-001-CG3 (2/2 M12x45 SS41+Galvanize	4 sets			
M12-45	-075	Ball Cleaning Line Drain 25A-BR-006 & 007-CN1 M12x45 SS41+Galvanize	8 sets			
		THE COLUMN TO TH				
•		- to be co	ondinued -			

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(10) K

C/Nos.		Description of Goods	Quantity	We	ight	Measure-
			Q Landson	net	gross	ment
ITEM NO.				(Kgs)	(Kgs)	(M ³)
M16-50	SK-076	Acid Cleaning Line Drain 40A-AC-003-CL3 Ml6x50 SS41+Galvanize	4 sets			
		IIIUNDU DO41.GAIVAMIZE				
M12-45	-077	Drain Trap Drain 25A-MP-003-CG4	8 sets		·	
		M12x45 SS41+Galvanize				1
M16-50	-078	Make Up Pump Outlet Line Drain	4 sets		-	
		50A-SW-008-CN1 M16x50 SS41+Galvanize				
M12-45	-079	Distillate Flash Tank Inlet Drain 25A-PW-003-CS2	4 sets			
•		M12x45 SS41+Galvanize				
M12-45	SK-080	Distillate Pump Suction Drain 25A-PW-001-CS2 M12x45 SS41+Galvanize	4 sets			
					[
M16-50	-081	Make Up Line Drain 65A-SW-006-CN1 M16x50 SS41+Galvanize	4 sets			
м16-50	-082	T-002 Drian M16x50 SS41+Galvanize	4 sets			·
M12~55	-083	T-001, 005, 003 Drain M12x45 SS41+Galvanize	12 sets			
M16-50	-084	Acid Cleaning Line Drain 40A-AC-003-CL3 M16x50 SS41+Galvanize	4 sets			
м16-50	-085	T-004 Drain Line M16x50 SS41+Galvanize	4 sets			
M16-55	-096	T-004 Drain Line M16x55 SS41+Galvanize	4 sets			
M12-45	-087	Ball Cleaning Collector Vent Line	4 sets			
		M12x45 SS41+Galvanize				
		- to be cor	itinued -	:		

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(-11-)K

ON		Description of Co. de	Onentity	Wei	ght	Measur
C/Nos.		Description of Goods	Quantity	net	gross	ment
ITEM NO.				(Kgs)	(Kgs)	(M ³)
M16-50	SK-088		4 sets			
		M16x50 SS41+Galvanize			. "	
116-65	-089	Make Up Line 65A	20 sets			
		Deaerator Inlet	A GOLD			•
		M16x65 SS41+Galvanize				
116-60	-090	Make Up Line 50A	8 sets			
		Deaerator Inlet		•:		•
		M16x60 SS41+Galvanize			1	
116-50	-091	Make Up Line 25A	8 sets		•	
110 30		Deaerator Inlet				
		M16x50 SS41+Galvanize			•	
116-65	-092	Make Up Line 65A	4 sets			
110-03	-032	Deaerator Outlet				
		M16x65 SS41+Galvanize				
W. C. CO	002	Blow Down Line	4 sets			
M16-60	-093	P-001 Outlet	4 3000			
		M16x60 S\$41+Galvanize				
	00/	T' con de la com	4 sets			1
116-60	-094	Ejector Condenser Outlet Sea Water	4 SELS			
		M16x60 SS41+Galvanize				
			10			
48-35	-095	Decarbonator Blower M8x35 SS41+Galvanize	10 sets			
		MOX33 3341 Galvanize				1
416-65 .	-096		8 sets			
•		M16x65 SS41+Galvanize				
M12-45	-097	Spare	8 sets			
		M12x45 SS41+Galvanize	l			
	000	S	8 sets			
M16-55	-098	Spare . M16x55 SS41+Galvanize	0 3663			
м16-50	-099	Piping Support (PS-228)	8 sets			
		M16x50 SS41+Galvanize				
		. •				:
					}	
		- to be con	ntinued -			
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(12).K

0.01	The second se				W	eight	Measure-
C/Nos.		Descripti	on of Goods	Quantity	net	gross	ment
ITEM NO. B3/4-U-Bolt	U-Bolt & SK-100		r: ø10x75x40 SS41+Galvanize	6 sets	(Kgs)	(Kgs)	(M ³)
B2-U-Bolt	-101	Piping '	ø10x107.5x75 SS41+Galvanize	4 sets	·		
B1-1/4- U-Bolt	-102	Piping	∮10x90x55 SS41+Galvanize	2 sets			
Bl-U-Bolt	-103	Piping	∮10x82.5x45 SS41+Galvanize	3 sets			
Bl-1/2- U-Bolt	-104	Piping	∮10x95x60 SS41+Galvanize	2 sets			
B1/2-U-Bolt	-105	Piping	<pre>\$10x67.5x35 SS41+Galvanize</pre>	18 sets			- -
M20-400 -Anc		Skid of M20x400	Desalination SS41	14 sets			
M20-315 -Anc		0il Tank M20x315		4 sets			,
M20-315 -Anc		Water Ta M20x315		4 sets	•		
M16-315 -Anc	-109	Piping M16x315	SS41	8 sets			
M12-200 -Anc		Piping M12x200	SS41	40 sets			
	Gasket i	or:	在最大的基础。				
·	MS-001		ow of Decarbonator 0x1.5 EPT	2 pcs			
	-002	Distilla XV-402 1 \$100x\$28	ump	1 pc			
	-003		or Drain Line lxl.5 V#1500	1 pc			
			- to be con	ntinued -		-	

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(13)K

C/Nos.	}	Description of Goods	Quantity	Wei	<u> </u>	Measure-
C/1408.		Description of Goods	Quinvity	net	gross	ment
	Gasket	for:		(Kgs)	(Kgs)	(м ³)
	พร-004	Pump Drain Line 20A-PD-001-CG3 \$100x\$28x1.5 V\$1500	l pc		•	
	-005	Ball Cleaning Line Drain 25A-BR-006 & 7-CNl \$95x\$22x1.5 V#1500	2 pcs			
	-006	Acid Cleaning Line Drain 40A-AC-003-CL3 \$125x\$34x1.5 EPT	1 pc			
	007	Drain Trap Drain 25A-MP-003-CG4 \$100x\$28x1.5 V#1500	2 pcs			
	-008	Make Up Pump Outlet Line Drain 50A-PW-003-CS2 \$125x\$34x1.5 EPT	1 pc			
	-009	Distillate Flash Tank Inlet Drian 25A-PW-003-CS2 \$95x\$22x1.5 EPT	l pc			. 1 1
	-010	Distillate Pump Suction Drain 25A-PW-001-CS2 \$\phi100x\$\phi28x1.5 EPT	l pc			1
	-011	Make Up Line Drian 65A-SW-006-CN1 \$125x\$34x1.5 EPT	l pc			
	-012	T-002 Drain \$125x\$34x1.5 EPT	l pc			
	-013	T-001, 005, 003 Drain \$100x\$28x1.5 EFT	3 pcs		 	
	-014	Acid Cleaning Line Drain 40A-AC-003-CL3 \$125x\$34x1.5 EPT	l pc		 	
			tinued ~			

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(14) <u>K</u>

C/Nos.	Description of Goods		Quantity	Wei	gnt	Measure-	
				net	gross	ment	
	Gasket	for:		(Kgs)	(Kgs)	(M3)	
		T-004 Drain	l pc				
•		\$155x\$61x1.5 EPT	1 20				
			_				
	-016	T-004 Drain \$125x\$34x1.5 EPT	l pc			·	
		AISOVADAVITO FILI					
į	-017		l pc			. '	
	ı	Vent					
		VILLOUAC				·	
	-018		1 pc				
	-	100A-SW-001-CL2					
	•	φ125xφ34x1.5 EPT					
	-019	Vent Line of Flash Tank	7 pcs	ļ.			
		\$250x\$141x1.5 V#1500AC					
	-020	Vent Line of Deaerator	4 pcs				
	-020	6250x6141x1.5 V#1500AC	4 pcs				
	-021		2 pcs				
		\$210x\$115x1.5 EPT					
	-022	Make Up Line 80A	3 pcs				
		Decarbonator Inlet		1			
	٠	∮185x∮90x1.5 EPT					
	-023	Make Up Line 50A	8 pcs				
		Decarbonator Inlet					
		ø155xø61x1.5 EPT					
	-024	Make Up Line 65A	l pc				
		Decarbonator Inelt				1	
٠.		φ175xφ77x1.5 EPT					
	-025	Sea Water Line 100A	1 pc	1 .			
		100A-SW-002-CL2	- F-				
		\$210x\$115x1.5 EPT					
	-026	Make Up Line	5 pcs		*		
	020	Deserator Inlet	J PCJ	1			
	· . .	\$175x\$77x1.5 EPT					
	027	Make Un Line	2				
	-027	Make Up Line Deaerator Inlet	2 pcs				
		ø155xø61x1.5 EPT		1 1 1 1 1 1			
,			1	1	1	1	

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		lg., Shinjuku-ku, Tokyo, Japan.		Wa	ight	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
	Gasket	for:		(Kgs)	(Kgs)	(M ³)
	MS-028	Make Up Line Deaerator Inlet ø125xø34x1.5 EPT .	2 pcs			
	-029	Make Up Line Deaerator Outlet \$175x\$677x1.5 EPT	l pc			
•	-030	Blow Down Line P-001 Outlet \$155x\$61x1.5 EPT	1 pc			
	-031	Ejector Condenser Outlet Sea Water Ø140xø49xl.5 EPT	1 pc			
	-032	Oil Booster Pump Outlet Line \$125x\$34x1.5 V#1500	3 pcs			
	-033	Oil Booster Pump Inlet Line \$155x\$61x1.5 V\$1500	2 pcs			
	-034	Oil Booster Pump Inlet Line \$140x\$\psi49x1.5 V#1500	1 pc			
	-035	Distillate Line T-006 Inlet ø100xø28x1.5 EPT	3 pcs			
	-036	T-006 Outlet Boiler Inlet \$\\$0155x\phi61x1.5 EPT\$	1 pc			
	-037	T-006 Outlet Boiler Inlet ø140xø49x1.5 EPT	l pc			
	-038	T-006 Outlet Boiler Inlet \$100x\$\psi28x1.5 EPT	1 pc			
	-039	Blow Line of Boiler \$\phi\$135x\$\phi\$43x1.5 V\$\psi\$1500	l pc			

- to be continued -

CANGO	Description of Goods	Decide the second	Onombitu	We	Weight	
C/Nos.		Description of Goods	Quantity	net	gross	ment
	Gasket	for:		(Kgs)	(Kgs)	(M ₃)
		Blow Line of Boiler \$125x\$34x1.5 V#1500	l pc			
	-041	Blow Line of Boiler \$100x\$\delta 28x1.5 V#1500	l pc			
	-042	Safety Valve \$\delta 140x \delta 49x1.5 \text{V}\$#1500	l pc			
	-043	Instrument Air Line \$95x\$22x1.5 V#1500	l pc			
	-044	Service Water Line \$125x\$34x1.5 V#1500	2 pcs			
	-045	Water Tank Over Flow Line \$155x\$61x1.5 V#1500	2 pcs			
	-046	Decarbonator Level Controlle \$\phi 140x \phi 49x1.5 EPT	4 pcs			
	-047	Flash Tank Level Controller \$140x\$\phi49x1.5 EPT	2 pcs			
	-048	Decarbonator Blower \$290x\$216x1.5 V#1500AC	2 pcs			
	-049	Decarbonator Level Controlle \$140x\$\phi49x1.5 EPT	2 pcs		-	
	-050	Brine Heater Level Controlle \$140x\$\phi49x1.5 \ \text{V\$\#1500}	er 2 pcs			
•	-051	Evaporator Level Controller \$140x\$\delta49x1.5 EPT	2 pcs		-	
	-060	Spare	1 pc			
	-061	Spare ø100xø28x1.5 EPT	3 pcs			
	-062	Spare	3 pcs			
		Spare	3 pcs			
	-064		3 pcs			
	-065		J pour	-		

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~~.	D 12 20 1	Duantitie	Wei	ght	Measure-	
C/Nos.	Description of Goods	Quantity	net	gross	ment	
	Gasket for:		(Kgs)	(Kgs)	(M ₃)	
	MS-066 Spare \$175x\$77x1.5 EN	PT 3 pcs				
,						
	·	Ì				
	-068 Spare \$125x\$35x1.5 E					
	-069 Spare	1500 2 pcs				
	-070 Spare ø100xø28x1.5 V#1	1500 2 pcs	4			
	-071 Spare ø125xø35x1.5 V#1	1500 2 pcs				
	-072 Spare Ø140xØ49x1.5 V#1	1500 2 pcs				
	-073 Spare øl55xø61x1.5 V#1	1500 2 pcs				
	-074 Spare ø135xø43x1.5 V#1	L500 2 pcs				
	-075 Spare \$125x\$34x1.5 V#1					
	-076 Spare Ø140xØ49x1.5 V#7					
		• 1				
	•		1			
	~078 Spare Ø155xØ6lx1.5 V#		·			
	-052 MP-Steam Line 50A ∮104	l pc	. !	, /·		
	~053 " 40A ∮89	l pc	. ;	-		
-	-054 " 20A ∮62	6 pcs				
	-055 °° 32A ∮84	1 pc				
	-056 Spare 50A Ø104	l pc	3			
i	-057 Spare . 40A ∮89	l pc				
İ	-058 Spare 32A ∮84	l pc				
•	-059 Spare 20A ¢62	2 pcs				
	-079 Spare 25A \$74	2 pcs			1	
	-019 space 23A \$14	2 pcs				
			17.7			
	- to 1	be continued -			:	

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(18)K

ON	Description of Coods			O	Wei	ght	Measure-	
C/Nos.		Description of Goods	1	Quantity	net	gross	ment	
				· · · · · · · · · · · · · · · · · · ·	(Kgs)	(Kgs)	(M ³)	
	Gasket					·		
	MS-080	Spare 25A \$74	1	3 pcs		·		
	-081	Spare 20A \$63		3 pcs				
				•				
	Gasket	for: (Spare)	·					
	DI-004	Vent Line		8 pcs				
		\$\phi 250\times \phi 141\times 1.5 V\psi 1500 E	/C					
	-005			10 pcs	i	•	•	
		<i>ϕ</i> 155x <i>ϕ</i> 61x1.5 EPT				· I		
•	-006	Make-Up Line		5 pcs				
		φ175xφ77x1.5 EPT		•				
	-007	Make-Up Line	Ì	2 pcs				
	00,	\$185x\$90x1.5 EPT		_ PC0			•	
	-008	Piping	EPT	2 pcs				
	-000	LIPING MSIONMITONS 1	21.1	Z pcs			÷	
	-009	Piping \(\phi 100 \times \phi 28 \times 1.5 \)	-	5 pcs				
		EPT & Asbestos						
	-010	Piping \$125x\$34x1.5		5 pcs	 			
		Asbestos		2 pcs				
	-011		.				• •	
		EPT	l	3 pcs				
		Asbestos		1 pc				
	-012	Piping		_				
		EPT Asbestos	ſ	2 pcs 1 pc				
			ĺ	1 pç				
	-013			1 pc			•	
		Asbestos	l	•	-			
	-014		[2 pcs		,		
		Asbestos	ŀ					
			}					
		4	į					
						-		
	1		ļ				·	
			. [
		= t	o be co	ntinued -] . !	
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JAPAN INTERNATIONAL COOPERATION AGENCY

).К (19 P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan. Weight Measure-Quantity Description of Goods C/Nos. ment gross net (M^3) (Kgs) (Kgs) Bolt & Nut for: (Spare) 10 sets Evaporator (Sight Glass) SK-111 M16-65 M16x65 SS41 (1 6 sets (Man Hole) M20-60 -112 SS41+Galvanize M20x60 6 secs (St'g No.1-4 -113 M16-60 Water Box) SS316 M16x60 4 sets (St'g No.5,6 M20 -65 -114 Water Box) M20x65 SUS316 6 sets (Sc'g No.1-4 M20-125 -115 Water Box) M20x125 SS41+Galvanize -116 11 4 sets (St'g No.5, 6 M22-125 Water Box) M22x125 SS41+Galvanize 2 sets M20-125 (St'g No.1-4 Water Box) S541+Galvanize M20x125 2 sets (St'g No.5, 6 -118M22-125 M22x125 SS41+Galvanize Bolt for: (Spare) 5 pcs M12-26-Cu SK-119 Evaporator (Brine Beffle) M12x26 90/10 Cu-Ni 3 pcs (Demister) M12-18-Cu -12090/10 Cu-Ni M12x18 (Air Vent) 2 pcs M10-27-Cu -121 M10x27 90/10 Cu-Ni

- to be condinued -

C/Nos.		Description of Goods	Quantity	Weight		Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
	Bolt & 1	Nut for: (Spare)		(Kgs)	(Kgs)	(M ³)	
M12-35	SK-122	Evaporator (St'g No.1-5 Brine Orifice) M12x35	2 sets			٠	
116-40	-123		2 sets				
	Gasket	for: (Spare)	,		į		
		Evaporator (St'gono.1-4 Water Box) \$526x\$408x3	4 pcs				
	-125	Evaporator (St'g No.1-4 Water Box) \$\delta 365x\delta 262x3	4 pcs				
	-126	Evaporator (St'g No.5, 6 Water Box) \$686x\$558x3	2 pcs				
	-127	Evaporator (St'g No.5, 6 Water Box) \$526x\$416x3	2 pcs				
	Gasket	for:					
		Evaporator (Sight Glass) \$\delta 145x \delta 114x3 EPT	6 pcs				
	-129	Evaporator (St'g No.1-4 Water Box) ø526xø408x3	4 pcs				
	-130	Evaporator (St'g No.5, 6 Water Box) ø686xø558x3	2 pcs		•		
	-131	Gasket for Evaporator (Man Hole) \$525x\$405x3	6 pcs				
					·		
		- to be con	inued -				

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21) K

~			Quantity	We	ight	Measure-
C/Nos.		Description of Goods	Anguette	net	gross	ment
	Bolt &	Nut for: (Spare)		(Kgs)	(Kgs)	(M3)
M16-70	SK-132	Brine Heater (Water Box) Ml6x70 SS41+Galvanize	2 sets			
м16-105	-133	Brine Heater (Water Box) M16x105 SS41+Galvanize	2 sets			! !
M8-40-SUS	-134	Brine Heater (Protecting Plate) M8x40 SUS316	5 sets			
M10-25-SUS	-135	Brine Heater (Protecting Plate) M10x25 SUS316	2 sets	•:	·	٧.
M10-45-SUS	-136	Brine Heater (Protecting Plate) M10x45 SUS316	2 sets			
М16-95	-137	Ejector Condenser (Water Box) M16x95 SUS304	2 sets			
M16-105	-138	Brine Heater (Water Box) M16x105 SS41+Galvanize	2 sets			
	~139	Plain Washer for Brine Heater (Protecting Plate) (Spare) \$21x\$11x2 SUS304	3 pcs			
	-140	Spring Washer for Brine Heater (Protecting Plate) (Spare) \$\delta 18.4x\psi 14.2x2.5 SUS304	3 pcs			
	-141	Spring Washer for Brine Heater (Protecting Plate) \$15.4x\$8.2x2 SUS304	5 pcs			
	-142	Plain Washer for Brine Heater (Protecting Plate) ø17xø9x1.6 SUS304	5 pcs			
	Gasket	for: (Spare)		,		
:	SK-143	Brine Heater (Water Box) \$420x\$300x10	l pc			
	-144	Brine Heater (Water Box) \$\delta 420x \delta 300x17	l pc			
		- to be ed	ntinued -			
					J ·	I

C/Nos.	Description of Goods		Quantity	We	Measure-	
		ground of Goods	Quantity	net	gross	ment
į	Gasket i	for: (Spare)		(Kgs)	(Kgs)	(M3)
	SK-145	Brine Heater (Water Box) \$420x\$300x17	l pc			
	SK-146	Gasket for Ejector Condenser (Water Box) \$\delta 310x\delta 216x3	1 pc			
	SK-147	Gasket for Ejector Condenser \$310x\$\psi 216x22	l pc			
·	Bolt & A	Nut for: (Spare)				
M16-65-SUS		Decarbonator (Nozzle) M16x65 SUS316	2 sets			
M16-65-SUS	-149	Deaerator (Nozzle) M16x65 SUS316	2 sets			·
M20-70	-150	Deaerator (Man Hole) M20x70 SS41+Galvanize	2 sets			
M22-80	-151	Deaerator, Decarbonator (250A Flange) M22x80 SS41+Galvanize	6 sets	•		! !
j	Gasket f	for: (Spare)			·	
		Flash Tank (Shell Flange) \$570x\$\phi450x3 Neoprene	1 pc		į	:
	-153	Decarbonator (Shell Flange) \$605x\$457x3	1 pc			
		Decarbonator (250A Flange) \$400x\$\delta 268x3	1 pc			
		Decarbonator (300A Flange) 6445x6318x3	l pc			
		Deaerator (Shell Flange) \$770x\$\oldsymbol{\phi}600x3	l pc			5 5
		Deaerator (250A Flange) \$\dphi400\times\delta^267\times^3\$	1 рс			
			·	į		
		- to be cont	inued -			

P.O. Box 21			Wei	gnt	Measure-	
C/Nos.	Description	n of Goods	Quantity	net	gross	ment
TO SERVICE AND THE PARTY OF THE	Gasket for: (Spa	ra)		(Kgs)	(Kgs)	(M ³)
	SK-158 Decarbona d155xd61x	tor (Nozzle)	l pc			
	-159 Deaerator ø155xø61x	(Nozzle)	l pc			
	-160 Deaerator \$250x\$140		1 pc			
	-161 Deaerator \$570x\$457	(Man Hole) .	1 pc			
	Bolt & Nut for:	(Spare)		!		
420-85	SK-162 Ball Clea M20x85	ning Collector SS41+Galvanize	2 sess			
120-95	-163 Ball Clea M20x85	ning Collector SS41+Galvanize	2 sets			
116-70	-164 Ball Clea M16x70	ning Stringer SS41	· 2 sets			141
	Gasket for: (Sp	are)				٠.,
L50A	SK-165 Ball Clea ø280xø165		1 pc			
150Å	-166 Ball Clea \$280x\$165		2 pcs			
LOOA	-167 Ball Clea ø210xø114	ning Strainer xl	l pc		.* •	
L00A	-168 Ball Clea \$\phi^2 10\times 661\times	ning Strainer I	l pc		· · · · · · · · · · · · · · · · · · ·	·
			·			
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		٠.			,	
		- to be co	<u> </u>	•		

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CI/NT-		Description of Goods	Quantity	Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
	Orifice	for		(Kgs)	(Kgs)	(M ³)
OR-001	***************************************	Vent Line (to last st'g from Deserator) ø185x6t	l pc			
11	-302	Decarbonator Over Flow Line \$130x\$40x6t	1 pc			
11		Vent Line (to last st'g from Deaerator) ø185x6t	l pc		ۀ	
•	Bolt &	Nut for:			i	
	Constru	ection on theSkid			ļ	
M20-190	SK-008	Deaeracor M20x190 SS41	4 sets			
M16-60	-009	Decarbonator M20x60 SS41	8 sets			
M20 - 90	-010	Lifting Device M20x90 SS41	40 sets			
M16-35	-011	Ladder M16x35 SS41	8 sets			
M16-35	-012	Platform ofDeaerator M16x35 SS41	20 secs			•
M16-40	-013	Stair Way M16x40 SS41	4 sets			
	Bolt &	Nut for:			1	
M16-55	SK-027	Oil Tank for Air Vent Oil Inlet Drain Heater	28 sets			
		M16x55 SS41				
M16-55	-028	Water Tank for Air Vent Over Flow & Drain M16x55 SS41	16 sets			
M12-45	-029	Water Tank for Level Gauge M12x45 SS41	8 sets			·
: :	,					
• .		- to be con	inued -			

JAPAN INTERNATIONAL COOPERATION AGENCY P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan.

25) K

OW	Description of Goods		Quantity	Weig		Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
				(Kgs)	(Kgs)	(M3)	
	Bolt &	Nut for:					
B1-1/2- U-Bolt	SK-030	011 Tank for 40A 95x60x\$10 SS41	2 sets				
	-031	Oil Tank for 50A 107.5x75xø10 SS41	2 sets				
	Gasket	for: (Spare)					
	SK-032	0il Tank (for Man Hole) ø605xø450x3 Asbestos	1 pc		٠.	• •	
	-033	Oil Tank (for Man Hole) ∮540x∮400x3 Asbestos	l pc				
T-006	SK-024	Flange for Water Tank \$155x\$120x16 JIS 10K 50A	l pc				
	-025	Gasket for Oil Tank for Air Vent Oil Inlet Drain ∮155x∮6lxl.5 Asbestos 50A	5 pcs				
	-026	Gasket for Oil Tank for Heater Conn. \$200x\$114x1.5 100A	l pc	*			
r-007	SK-169	Guide Pipe for Oil Tank 300x40A SGP+Galvanize	2 pcs		,	. '	
11	-171	Union for Oil Tank SS41+Galvanize 40A	l pc				
ff	-20	Piping for Oil Tank 200x100x155ø	1 pc	•			
SP001	SK-016	Spray Nozzle for Deaerator & Decarbonator	2 pcs				
	1	210x205 for 8T/H FRP					
120-65	DI-001	Bolt & Nut for Vent Line (including spare) M20x65 (125A)	25 sets				
		- to be c	ontinued -	- 			

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(26) [(

C/Nos.		Description of Goods	Quantity	Wei	ght	Measure-
0/1103.		Description of Goods	Quantity	net	gross	ment
	Gasket	for: (Spare)		(Kgs)	(Kgs)	(M3)
ช20-70		Bolt & Nut for Vent Line (including spare) M20x70 (125A)	10 sets			
M20-140	-003	Bolt & Nurs for Spare M20x140	15 sets			
C/NO.M-12 (CASE)						
ITEM NO. SK-201	E-1301	MSF Control Panel 2000x1400x1200	1 pc	1,800	2,250	7.089 (6.855)
-202	E-1302	MS7 Motor Control Center 2000x700x400	l pc			
-203	E-1305	Fuse Element Cellolite Type NC-1 1A	6 pcs			
-204	E-1306	Fuse Element Callolite Type NC-1 5A	1 pc			
-205	E-1307	Fuse Case Cellolite Type NC-1 AC500V 30A	l pc			
-206	E-1308	Lamp E-12 18V 2W	20 pcs			
- 207	E-1309	Indicating Lamp AL48-1122 AC110V	2 pcs			
-208	E-1310	Push Button Switch ABN-120-Y Yellow "la"	1 pc		• :	
-209	E-1311	Push Button Switch ABN-101-B	1 pc	·		
		ABN-101-G	1 pc			
		ABN-110-R	1 pc			
-210	E-1312	Snap Switch WD1211 15A 250V	2 pcs			
		- to be con	dinued -			:

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(% 27) K

OAI		Description of Goods	Quantity	We	ight -	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
				(Kgs)	(Kgs)	(M ₃)	
SK-211	E-1313	Select Switch ASN15S	1 pc				
-212	E-1314	Aux. Relay MK3P Coil AC110V	9 pcs				
		Coil DC24V	1 pc				
-213	E-1315	Fuse Holder F4000 250V 10A	3 pcs				
-214	E-1316	Fuse F-7161 AC125V 1A	10 pcs	*-			
-215	E-1317	Fuse Element Cellolite Type NC-1 10A	1 pc	1. 1			
-216	E-1318	Indicating Lamp SL48-2122 AC110V Green, Red	2 pcs				
-217	E-1319	Cable CVV2 30 (8m)	1 pc				
-218	E-1320	Cable CVV8 2 (8m)	l pc] :		
-300	E-1303	Anchor Bolt M12x150	10 pcs				
-301	E-1304	Accessory for Recorder	8 pcs	,			
C/NO.M-13							
(CASE)							
ITEM NO. SK-001	E-1001	Cable CV 600V 38	40 M	960	1,180	3.038	
-002	-1002	Cable CV 600V 14	60 M				
-003	-1003	" " 5.5 [□]	60 M				
-004	-1004	" " 3.5 ^{CJ}	200 M				
-005	-1005	" " 2 ⁰	70 M				
-006	-1006	Cable CVV 600V 2	150 M				
-007	-1007	Cable CVV-S 600V 2	200 M				
-008	-1008	Cable " " 2 ^[]	700 હ	1			
		- to be co	ntinued -				

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(28) K

C/Nos.	Description of Goods			Quant	-it-v	Wei	Measure-		
C/Nos.		rvescription or v	300us		Quant	ur A	net	gross	ment
TEM NO.							(Kgs)	(Kgs)	(M ³)
K-009	E-1009 C	able CVV-S	60V	2	120 M	í			
-010	-1010 C	able IV		3.5	100 1	1			
-011	-1011 T	erminal Lug		38-10	10 p	ocs			
-012	-1012 T	erminal Lug		14-8	10 p	ocs			
-013	-1013 T	erminal Lug		5.5 - 6	20 p	ocs		e e	
~014	-1014	n n		.5.5-5	100 p	ocs	·		
-015	-1015	in u		2-4	220 g	ocs		·	
-016	-1016 C	able Tag			400 g	ocs			
-022	-1022 N	ormal Bend	54A		12 [ocs			
-023	-1023 N	ormal Bend	42A		3 1	ocs		·	·
-024	-1024	n R	36A		3 1	ocs			
-025	-1025 C	oupling	54A		10 1	ocs			
-026	-1026	tt	42A		5 1	pcs			:
-027	-1027	**	36A		5 (pcs	·		
-028	-1028	tt	28A		30 1	pcs			
- 029	-1029	tt	22A		22 [pcs	W.,		
-030	-1030 B	ushing	54A		15 1	pcs		٠	
-031	-1031	tt.	42A		10 [pcs			•
-032	-1032	111	36A		10 1	pcs			÷
-033	-1033	. tt	28A		35 1	pcs			
-034	-1034	II	22A		20 1	pcs	İ	·	•
-035	-1035 L	ock Nut	54A		25 1	pcs			
-036	-1036	. n	42A		20 1	pcs	· -		
-037	-1037		36A		20	pcs		·	
			• • • • • • • • • • • • • • • • • • •	to be cor	ndinued	~	•		

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(29) K

AAT.		Description of Cond-	Ougnetier	Wei	ght	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
SK-038	E-1038	Lock Nut 28A	40 pcs	(Kgs)	(Kgs)	(M ₃)	
-039	-1039	" 22A	40 pcs				
-040	-1040	Flexible Tube 36Ax1000L	1 pc			• •	
-041	-1041	" 28Ax700L	5 pcs		:	v To the second of	
-042	-1042	" 22Ax500L	10 pcs				
-043	1043	" 16Ax500L	37 pcs			•	
-044	-1044	Pull Box 400x300x100 Hot Dep Galvanize	1 pc				
-045	-1045	Pull Box 300x300x100 Hot Dip Galvanize	2 pcs				
-046	-1046	Vinyl Tape	40 pcs				
-047	-1047	U-Type Bolt & Nuts 54A SUS304	40 sets				
-048	-1048	U-Type Bolt & Nuts 42A SUS304	12 sets				
-049	-1049	U-Type Bolt & Nuts 36A SUS304	12 sets				
-050	-1050	U-Type Bolt & Nuts 28A SUS304	30 sets				
-051	-1051	U-Type Bolt & Nuts 22A SUS304	100 sets	,	• '		
-053	-1053	Welding Rod BlO	20 kgs				
-054	-1054	Roval	3 kgs				
-055	-1055	Union Coupling 54A	12 pcs				
_056	-1056	42A	3 pcs		ا		
-057	-1057	" 36A	3 pcs			re .	
		- to be	continued -				

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(30) [

C/Nos.	Description of Goods			1 6	Quantity	We	Measure-	
O/1104.		Description of OC		1 9	edancie y	net	gross	ment
: -						(Kgs)	(Kgs)	(M ₃)
K-058	E-1058	Union Coupling	28A		6 pcs			
-059	-1059		22A		8 pcs			
-060	-1060	Tee Universal	54A		4 pcs			
-061	-1061	It	42A		2 pcs			
-062	-1062	tr	36A		6 pcs			
-063	-1063	11	28A ·	s	10 pcs			
-064	-1064	Flow Universal	54A		8 pcs			
-065	-1065	n	42A		3 pcs			
-06ó	-1066	Elbow Universa	L 36A		6 pcs			
-067	-1067	16	28A	,	10 pcs			
-068	-1068	11	22A		16 pcs		İ	
-069	-1069	Bolt & Nuts M	3x15 SUS304		20 sets			
-070	-1070		3x20 \$US304		60 sats			
-071		Wire Marker A			24 pcs		-	
-072	-1072		- 9 2 th		10 pcs		<u> </u> 	
-073	-1073		30		12 pcs		:	
-074	-1074	11	14 ^m		12 pcs			
		11	5.5 ^a					
-075	-1075	n .	3.5 ⁿ		20 pcs			
~076	-1076		3.5 2 ⁿ		64 pcs		-	
- 077	-1077	11	-	4	40 pcs			
-078	-1078	4	L -1/4		4 pcs			
-079	-1079	. " l	1/2x1		2 pcs		-	
-080	-1080	1-1	L/4x1		12 pcs			
-081	-1081	<i>ii</i> 1-1	L/4x3/4		18 pcs			
••			- to be c	ontir	ued =			

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·			0 134	Wei	ght	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
-,-,-	 			(Kgs)	(Kgs)	(M ₃)	
SK-082	E-1082	Adapter 1x3/4	16 pcs				
-085	-1085	Flange SUS316 JIS10K FF1"x1/2 (RF)	2 pcs				
-086	-1086	Flange SUS316 JIS10K 1/2 (RF)	6 pcs				
-087	-1087	Male Connector .	46 pcs			• .	
-088	-1088	Femals Connector	10 pcs				
-089	-1089	Union Tee	5 pcs				
-090	-1090	U-Type Bolt & Nuts 3/8 SUS304	10 pcs				
-091	-1091	U-Type Bolt & Nuts 1/2 SUS304	. 50 sets				
-092	-1092	Socket 1/2PF SUS316	5 pcs				
-093	-1093	Valve JIS10K 1/2PF SUS316	12 pcs				
-096	-1096	Socket 1/2 FCMB-W	5 pcs				
-097	-1097	Elbow 1/2 FCMB-W	35 pcs				
~098	-1098	Tee 1/2 FCMB-W	16 pcs				
-099	-1099	Union 1/2 FCMB-W	6 pes			Ţ,	
-100	-1100	Reducer 1/2x1/4 FCMB-W	14 pcs		·		
-101	-1101	Control Copper Tube 6/4x1c	50 M				
-102	-1102	Half Union 6/4 x 1/4PT	22 pcs				
-103	-1103	Vinyl Cap Ø6	25 pcs				
-104	-1104	Seal Tape 5M	10 pcs				
-105	-1105	Vinyl Bar 1M	10 pcs				
		- to be co	ntinued -				

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(32) K

C/Nos.	Description of Goods			Quantity	Wei	Measure-	
Ottags.	<u> </u>	reserring Or		equation (net	gross	ment
		• .			(Kgs)	(Kgs)	(M^3)
SK-106	E-1106	Plug 1/2	FCMB-W	6 pcs	•		
-107	-1107	Nipple 1/2	FC7/B-W	40 pcs	İ		•
-108	-1108	Nipple 1/4	FCMB-W	15 pcs		·	
C/NO.M-14 (CRATE)							٠
LTEM NO.						0.650	2 051
SM-017	E-1017	Conduit Pipe	54A	16 pcs	2,400	2,650	3.951
-018	-1013	"	42A	6 pcs			
-019	-1019	II .	36A	6 pcs			
-020	-1020	11	28A	25 pcs			•
-021	-1021	n	22A	38 pcs			•
-052	-1052	Steel Angle 5x40x5500L Hor Dep Galv	ranize	20 pcs			
-094	-1094	Stanchion 2Bx1500L Gal	vanize	12 pcs			
-095	-1095	Pipe 1/2x55	OOL SGP-W	5 pcs			
C/NO.M-15							
(CASE)	INS-1	MG Pipe Cove	r 15Ax25cx1000	8 pcs	460	1,100	11.979
	-2	. 11	20Ax25cx1000	27 pcs			
	-3	11	25Ax25cx1000	71 pcs			
	-4	Ħ	32Ax25cx1000	4 pcs			
	-5	n	40Ax25cx1000	23 pcs			
	-6	u	50Ax25tx1000	47 pcs			
	-7	n	100Ax25tx1000	3 pcs			
	-8	Ħ	150Ax50ex1000	2 pcs			
			- to be con	rinued -			
	1				}	1	

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O OT		Description of Canda	Quantity	Wei	ght	Measure-	
C/Nos.		Description of Goods	Angumy	net	gross	ment	
				(Kgs)	(Kgs)	(M ₃)	
	INS-9	MG Pipe Cover 200Ax25tx1000	3 pcs				
	-10	, " 300Ax50tx1000	3 pcs		į.		
	-11	MG Wired Blanket #1 500x25tx5000	3 pcs				
	-12	MG Wired Blanket #1 500x50tx4000	24 pcs				
	-13	MG Felt #1 605x25tx910	63 Sh.	*			
	-14	" 605x50tx910	8 Sh.	1		<u> </u>	
	-31	MG Lath Board #1 605x50tx910	46 Sh.				
				.		: 	
C/NO.M-16 (SKID)					•		
LI-001	SK-003	Lifting Device for Water Box	l pc	450 ,	490	16.928 (15.750)	
C/NO.M-17 (SKID)							
TEM NO.	SK-005	Stair Way 2125x760	l pc	220	250	3.513	
						(3.235	
C/NO.M-18 (SMID)							
ITEM NO. L1-003	SK-006	Ladder 4100x750	1 pc	120	150	1.886 (1.679	
C/NO.M-19							
(SKID) ITEM NO.	•	· · · · · · · · · · · · · · · · · · ·					
.1-004	SK-007	Platform for Deaerator 1810x30	1 pc	150	200	7.013	
		1010000			• •		
		- to be cont	inued -		·		
		- to be cont	radea -				

JAPAN INTERNATIONAL COOPERATION AGENCY

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C/Nos.		Description (CC)		We	ight	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
C/NO.M-20 (CRATE)				(Kgs)	(Kgs)	(M3)	
TEM NO. ST-50A	SK-304	Prefab Piping of Steam Line 50A-MP-001-CG4 Carbon Steel 111x76	l pc	2,300	2,630	6.231 (5.778)	
	-305	5109x350	l pc				
11	~306	720x76	1 pc				
11	-307	" " " 1704x116	1 pc				
T-20A	-308	Prefab Piping of Steam Line Carbon Steel 161	1 pc				
11	-309	n 141x38	l pc				
<i>t</i> :	-310	n n n 211x82x38	l pc	•			
11	-311	" " " " " " " " " " " " " " " " " " "	l pc				
11	-312	100x38	l pc				
u	-313	393	l pc				
	-314	Prehab Piping of Steam Line 161x38	l pc				
н .	-315	200x63.6	l pc				
n	-316	161x464	1 pc				
		- to be con	ntinued -				

o ot		Description of Goods			Wei	Measure-		
C/Nos.		Description of C	roods	Quantity	net	gross	ment	
	<u> </u>				(Kgs)	(Kgs)	(M3)	
TEM NO.	CV . 217	Prefab Piping	of Oil Tina	1 pc				
IL-25A	38-317	25A-F0-001-CG	3		į			
		Caroon Steel	562x202x99	ļ			į	
**	-318	11	II .	1 pc			1	
			1762x38			į		
11	-319	11	n	l pc				
			8 50x38					
11	-320	ti	11	l pc				
	320		1812x38			·		
		(with Blind F	lange)	1				
11	-321	rt .	12	1 pc				
			2862x712				ret .	
H ·	-322	н	íī	l pc				
			1680x199x38					
)IL-50A	-323	II .	11	1 pc				
		•	789	- -				
11	-324	Prefab Piping	of Oil Line	1 pc	,			
		Carbon Steel	150	1	1			
2W-20A	SK-325	Prefab Piping	of Product	l pc				
		Water Line 20	A-PW-002-CS2					
		SUS316	149x38				٠.	
í1	-326	†f	(70.70	l pc				
			479x38					
ĮĪ	-327	ti ,	11	l pc				
			1584×150×38					
11	-328	н .	If .	l pc				
			3528					
H	-329	71	11	l pc				
			534x99					
		•	•	1			·	
•								
	-					٠.		
			- to be cor	tinued -		-		
							,	
	1			1	1			

OBL		Danishuane	. A	Weig	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment
TEM NO. T-50A	SK-330	Prefab Piping of Water Tank Outlet Line SUS316 403x149	l pc	(Kgs)	(Kgs)	(M ³)
u	-331	" " 1318×76	l pc			
11	-332	u u 2013x76	1 pc			
н .	-333	u u 430x255	l pc		٥	
(t	-334	u 222x99	1:pc			
BD-32A	SK-335	Prefab Piping of Boiler Drain Line STPG38 1214	l pc			
	-336	308x47.6	l pc			
3D~20A	-337	1236	l pc			
11	-338	" 330x38	l pc			·
D-25A	SK-339	Prefab Piping of Boiler Drain Line Carbon Steel 1326	l pc	·		·
11	-340	" " 395x38	l pc		,	
W-40A	SK-341	Safety Valve OUtlet Piping Carbon Steel 1073	1 pc			
f1	-341A	150	l pc			
2-25A	SK-352	Pipe 25A 3m SGP+Galvanize	l pc			
-15A	-353	Pipe 15A Total 40m SGP+Galvanize	8 pcs		į	
·		- to be c	ontinued -			

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Ж P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan. Weight Measure-Quantity Description of Goods C/Nos. ment net gross (Kgs) (M^3) (Kgs) ITEM NO. 1 pc SK-354 Pipe 50AxSch90 3m STPG38 P-50A l pc Pipe 40AxSch90 3m -40A -335 1 pc -356 Pipè 32AxSch80 2m -32A -357 Pipe 25AxSch80 4m 1 pc -25A 1 pc -358 Pipe 20AxSch80 Sm -20A 1 pc -359 Pipe 20AxSch40 5m SUS316 -20A 1 pc Pipe 40AxSch40 1m -40A -360 1 oc Pipe 50AxSch20S 2m -361 -50A 1 pc -362 Pipe 15AxSch40 3m -15A Vent Line 125A-VE-004-CS2 1 pc SK-373 VE-125A 429Ax923 125A-VE-004-CS2 1 pc -374 1350x637 125A-VE-003-CS2 -375 1 pc -125A 2712x525 125A-VE-003-CS2 1 pc -376 1650x512 Over Flow Line of 1 pc SK-377 Decarbonator STPG 38 92x47.3 80A -378 Over Flow Line of I pc Decarbonator STPG 38 248.7x114.3 80A 1 pc 1 pc -3791694.7 80A -381-1 Pump Line of Product 1 pc Water Line (XV-402) STPG38 864x562 20A 1 pc -382-1 Evaporator Drain Line 50A-PD-003-CG3(2/2) STPG38 480x199 50A 1 pc -384-1 Pump Drain Line 20A-PD-001-CG3 (2/2) STPG38 464x199 20A 1 pc -381-2 Ball Cleaning Line Drain 25A-BR-007-CN1 STPG38 461x199 15A - to be condinued

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C/Nos.	Description of Goods	Quantity	Weight		Measure-	
O/NOS,	Description of Goods	Quantity	net	gross	ment	
	SK-382-2 Ball Cleaning Line Drain 25A-BR-006-CN1 STPG38 461x199 15A	l pc	(Kgs)	(Kgs)	(M ³)	
:	-383-2 Acid Cleaning Line Drian 40A-AC-003-CL3 STPG38 722x467 25A	l pc				
	-384-2 Drain Trap Drain 25A-MP-003-CG4 (1/2) STPG38 500x280 20A	l pc				
	-385 Drain Trap Drain 25A-MP-003-CG4 (1/2) STPG38 330x290 20A	1 pc -				
	-386 Make-Up Pump Outlet Line Drain STPG38 522x467 25A	l pc				
	-387 Distillate Flash Tank Inlet Drain 25A-PW-003-CS2 STPG38 867x511 15A	1 pc				
	-388 Distillate Pump Suction Drain 25A-PW-001-CS2 STPG38 564x99 20A	1 pc				
	-389-1 T-002 Drain SUS316 655 25A	l pc				
	-389-2 Make-Up Line Drain 65A-SW-006-CN1 STPG38 438x99 25A	1 рс				
	-389-3 T-001 Drain STPG38 687x212x150 20A	. 1 pc	,			
	-390 T-005 Drain STPG38 987 20A	l pc				
	-391 T-003 Drain STPG38 987 20A	1 pc				
	-393 T-004 Drian Line STPG38 2170x675 50A	1 pc				
	- to be cont	inued -				

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	1		Oughtitu	Wei	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment
	SK-394	Ball Cleaning Collector Vent Line	l pc	(Kgs)	(Kgs)	(M3)
	205	STPG38 1611x200 15A	l no			
	-395	Sea Water Line Drain 100A-SW-001-CL2 STPG38 570x457 25A	l pc			·
	-396	Blow Down Line P-001 Outlet 50A-BR-002-CN1 90/10 Cu-Ni 749x530 50A	l pc	•		
	-397	Ejector Condenser Outlet Sea Water 90/10 Cu-Ni 1100x600 40A	l pc			
	-398	Make-Up Line 65A-SW-006-CN1 90/10 Cu-Ni 756x618 50A	l pc		·	-
	-399	1353x281x375	l pc			
	-400	3737x163	l pc	•		
	-401	580x299x340	1 pc			
	-402	Make-Up Line on the Skid 50A-SW-005-CL (1/2) STPG38+Rubber Lining 150 80A/50A	1 pc	:		
	-403	" . " 260x130 50A	l pc			
	-404	140×140 50A	l pc			
	-405	" " 140x140 50A	l pc			
	-406	260x130 50A	1 pc		·	
	-407	" 150 65A/50A	1 pc			
		- to be con	tinued -			

CATos	Description of Goods	Quantity	Wei	ght	Measure-	
C/Nos.	Description of Goods	Quantity	net	gross	ment	
	SK-408-1 Sea Water Line on the S 100A-SW-002-CL2 (2/2) STPG38+Rubber Lining	Skid 1 pc	(Kgs)	(Kgs)	(M ₃)	
	-408-2 " 557x300	l pc				
	DI-318 Pipe 90/10 Cu-Ni 5m 15A 2.6m	2 pcs 1 pc		;		
	-319 Pipe 4.58m 20A	l pc				
	-320 Pipe 5m 25A 2.27m	3 pcs 1 pc		• أ		
2	-321 Pipe 1.13m 125A SUS316	l pc				
	-322 Pipe 0.78m 65A 90/10 Cu-Ni	1 pc		•		
	-323 Pipe 3m 50A	l pc			-	
	-323-1 Pipe 1.62m 40A	1 pc				
T-006	SK-023 Piping for Water Tank 2050x425/250	l pc				
т-007	SK-172 Guide Pipe for Oil Tank 2000x40A SPG+Galv.	1 pc				
L-50x50x6	SK-429 Angle for Piping Support SS41 5000L	2 pcs				
L-150x75 x6.5/10	-430 Channel for Piping Suppor SS41 3000L	rt l pc				
L-100x50 x5/7.5	-431 Channel for Piping Suppor SS41 3000L	rt l pc				
L-75x75x6	-432 Angle for Piping Support SS41 3000L	1 pc				
	SK-435 Pipe SUS316 20A Sch40 5m	3 pcs				
	- to be	continued -				

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		A	Wei	ght	Measure-
C/Nos.	Description of Goods	Quantity	net	gross	ment
	DI-356 Pipe Stainless Steel lm 25A	l pc	(Kgs)	(Kgs)	(M ³)
T-007	SK-019 Piping for Oil Tanl 1850x150/150	l pc			
	SK-363-1 Evaporator Drain Line 50A-PD-003-CG3 (2/2) 480x76 50A	l pc	·		
					* .
C/NO.M-21 (CASE)					
ITEM NO. SK-219	MSF-20 T/D DOT-201 Control Unit 320x120x240 DOT-301	2 pcs	230	610	5.336
-220	" Holder 100x100x145/689	2 pcs			
-221	" Sensor \$40x214x+10M	2 pcs			•
-222	" Hood 350x175	2 pcs			
-223	" U-Volt & Nuts	8 sets	•		
-224	" Fixture 10cm	4 pcs			
-225	" Flow Meter 320x695	2 pcs			
-226	" Fuse 30x φ6	2 pcs			
-227	TI-103,104,105,106 TI-394,305,306,307 Thermo Meter 0-100°C L=150 SUS316	8 pcs	3		
-228	TI-503,504,505,506 Thermo Meter 0-100°C L=200 SUS316	4 pcs			
-229	TI-308,309 Thermo Meter 0-150°C L=150 SUS316	2 pcs			
-230	TI-501,502 Thermo Meter o-150°C L=200 SUS316	2 pcs			
	- to be cont	inued -			

C/Nos.	Description of Goods	Quantity	We	eight	Measure-	
0,1.50;	20045	4422	net	gross	ment	
			(Kgs)	(Kgs)	(M ₃)	
ITEM NO. SK-231	TI-601 Thermo Meter 0-300°C L=200 SUS304	l pc				
-232	TE-101,102,201 301,302,303 Resistance Bulb	6 pcs	7			
	L=400/ SUS316					
-233	TE-602 Resistance Bulb L=350/ =150 SUS304	l pc				
-234	PT-506 Pressure Transmitter 210x108/678 Type: F3C10WEZ-100Y	1 pc		-		
-235	PT-605 Pressure Transmitter 210x108/ø78 Type: FBC20WEZ-100Y	1 pc				
-236	PT-606 Pressure Transmitter 210x108/ø78 Type: FBC10WEZ-100Y	l pc	· .			
-237	PT-506,605,606 Oval Flange (with Packing Bolt) 62x26/ø10 Type: FFP3AW01-Y	3 pcs				
-238	FT-101,201,301,401,601 Diff. Pressure Transmicter! 108/ø78 Type: FFC34WEZ-100Y	5 pcs				
- 239	FT-101,201,301,401,601			•		
	Equalizing Valve (with Packing Bolt) 242x98 Type: FFN3AWOZ-Y	5 pcs				
-240	FT-101,201,301,401,601 Oval Flange	10 pcs				
	(with Packing Bolt) 62:26/ø10 Type: FFP3AW01-Y					
	- to be cont	inued =				
			•			

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And the state of t		0	Wei	ght	Measure-
C/Nos.	Description of Goods	Quantity	net	gross	ment
			(Kgs)	(Kgs)	(M ³)
TEM NO. 3K-241	PHT-201,301 PH Sensor PH8ERG-05-TN 170x386 Cable Length 5m	2 pcs			
-242	PHT-201,301 Flow-Through Type Holder PH8HF-PP-J10 250x150	2 pcs		·	
-243 ·	PHT-201,301 PH Transmitter PH8FTG-M-01 200x200x150	0 2 pcs			
-244	PHT-201,301 Accessory PH8AX. P*A 200x200x200	2 pcs		·	
-245	CT-401 S/A Cell Salinometer Transmitter 8531-1001-R41 125x370x150	l pc			
-247	FIS-102 Flow Meter with Switch 750xø140	l pc			
-248	FIS-801,802 Flow Meter with Switch 400x0100	2 pcs			
-249	FI-803,804 Flow Meter 400x6100	2 pcs			
-250	LIC-201,401,601 Level Controller 775L	3 pcs			
-251	LT-202,507 Level Transmitter 775L	2 pcs			
	;				
		*			
	- to be cont	inued -			

C/Nos.		Description of Goods	Quantity	Wei	ght	Measure-	
071103.				net	gross	ment	
/NO.M-22 CASE)	:			(Kgs)	(Kgs)	(M ³)	
TEM NO. S-225	D1-324	Piping Support on the Si 700x286x50	kid l pc	770	940	2.187	
S-226	DI-325	" " 456x50x50	l pc				
rs-227	D1-326	505x50x50	l pc				
PS-227	DI~326	600x50x50	l pc				
25-228	DI-327	" " 335x63x63	1 pc				
'S → 109	DI-328	" " " " " " " " " " " " " " " " " " "	l pc				
'S~106	DI-329	" " 285×100×50	l pc				
'S~104	DI-330	" " " " 140x100x50	l pc				
PS-113	DI-331	" " 203x150x50	l pc				
,	DI-334	U Bolt for Piping on th 20A 10&	e Skid 2 pcs		 - -	1.	
	DI-355	" " " " 15A 10¢	5 pcs				
	DI-336	25A 10€	3 pcs	3		;	
	DI-337	и п 80A 12d	3 pcs		.*		
·	DI-339	" " 50A 10€	3 pcs		÷		
	DI-340	125A 16¢	1 pc	·		·	
		- to b	e continued -				

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Description of Goods			Quantity		Weight		Measure	
				Quantity		net	gross	ment
						(Kgs)	(Kgs)	(M3)
SK-410	Pipe Support 250x50x50	SS41		2	pcs ·			
SK-411	ii 150x150x50	SS41		1	рc	.		
SK-412	150x100x50	S341		3	pcs			
SK-413	" 150x100x50	SS41		1	рc			
SK-414	" 200x100x80			5	pcs	.	<u>.</u>	· · · · · · · · · · · · · · · · · · ·
SK-414	n 50x50x20			10	pcs			
SK-416	9 200x100x80		• .	ŧ.				
SK-416	50x50x20			2	pcs			
SK-417	" 200x178x55			1	рc			
SK-418	" 2150x200x200			1	рс			
SK-418	u 200x100x80			1	pc			
SK-418	50x50x20			2	pcs	•		
SK-419	" 200x100x80			1	pc .			
SK-419	275×350×50			1	pc .			3
SK-419	50x50x20	•		2	pcs			
SK-420	" 200x100x80			1	рс			
		_	o be cont	ļ			· 	
	SK-411 SK-412 SK-413 SK-414 SK-414 SK-416 SK-416 SK-416 SK-417 SK-418 SK-418 SK-419 SK-419 SK-419	SK-410 Pipe Support 250x50x50 SK-411	SK-410 Pipe Support SS41 250x50x50 SK-411 " S541 150x150x50 SK-412 " S341 150x100x50 SK-413 " SS41 150x100x50 SK-414 " 200x100x30 SK-414 " 200x100x30 SK-416 " 200x100x30 SK-416 " 200x100x30 SK-417 " 200x178x55 SK-418 " 2150x200x200 SK-418 " 200x100x80 SK-419 " 200x100x80 SK-419 " 275x350x50 SK-419 " 275x350x50 SK-419 " 275x350x50 SK-419 " 200x100x80 SK-419 " 275x350x50 SK-419 " 200x100x80	SK-410 Pipe Support SS41 250x50x50 SK-411	SK-410 Pipe Support SS41 250x50x50 SK-411	SK-410 Pipe Support 250x50x50 2 pcs SK-411 " SS41 1 pc 150x150x50 1 pc SK-412 " SS41 3 pcs 150x100x50 1 pc SK-413 " S541 1 pc SK-414 " 50x100x50 10 pcs SK-414 " 10 pcs 10 pcs SK-416 " 200x100x80 1 pc SK-416 " 200x178x55 1 pc SK-417 " 1 pc SK-418 " 1 pc SK-419 " 1 pc SK-419 " 200x100x80 SK-419 " 275x350x50 SK-419 " 275x350x20 SK-419 " 275x350x20 SK-419 " 2 pcs SK-410 " 2 pcs SK-410 " 2 pcs	Description of Goods Quantity net	Description of Goods

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C/Nos.		Description of Goods	Quantity	Wei	ght	Measure- ment	
C/1105.		Description of Goods	Admitty	net	gross		
ITEM NO.				(Kgs)	(Kgs)	(M ³)	
PS-15	SK-420	Pipe Support 50x50x20	2 pcs				
PS-15	SK-421	" \$\$41 450x75x75	l pc		٠		
PS-16	SK-422	200x100x80	2 pcs				
PS-16	SK-422	50x50x20	4 pcs				
PS-16	SK-423	600x75x75	l pc				
PS-17	SK-424	" \$\$41 187x150x55	l pc				
PS-18 '	SK-425	SS41 420x278x55	1 pc		·	·	
PS-20	SX-426	" SS41 400x300x200	l pc				
PS-21	SK-427	" SS41 400x300x100	l pc				
PS-22/37	SK-428	" \$\$41 75x50x50	16 pcs				
L1- 002	SK-004	Lifting Device for Water Box 1950L	4 pcs				
PS-07/11	SK-415	Pipe Support 200x100x50	5 pcs	4.		•	
7/NO.M-23 (CASE)					·		
ITEM NO. LOK-25A	SK-342	Flange JIS 10K 25A FF SCD'D SS41+Galv.	2 pcs	350	450	1.210	
LOK-15A	-343	" JIS10K 15A FF SCD'D SS41+Galv.	2 pcs				
	<u> </u>				•	· 	
		- to be cont	nued -				
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		D		Quantity	Wei	Measure-	
C/Nos.		Description of	of Goods	Quantity	net	gross	ment
ITEM NO. IOK-100A	SK-344	Flange JIS	10K 100A FF.SO	l pc	(Kgs)	(Kgs)	(M3)
LOK-50A	-345	JIS SS41	10K 50A FF.S0	2 pcs			
10K-40A	-346	JIS	10K 40A FF.SO	l pc			
10K-32A	-347	" JIS SS41	10K 32A FF.SO	1 pc			•
10K-25A	-348	" JIS SS41	10K 25A FF.SO	2 pcs			•
10K-20A	-349	" JIS SS41	10K 20A FF.SO	2 pes			
10K-20A	-350	" JIS SUS 316	10K 20A FF.SO	2 pcs			
OK-15A	-351	" JIS SUS 316	10K 15A FF.SO	2 pcs			
25A-90°	SK-363	Elbow 25A	FCMB.Galv.	6 pcs			
£5 A−90 °	-364	" 15A	5 T	15 pcs			
60A-90°	-365		STPT38 5x76.2	l pc			ar e
40A-90°	-366		STPT38 6x67.2	2 pcs			
32 A- 90°	-367		STPT38 7x47.6	l pc			
?5A-90°	-368	" 25A	STPT38	3 pcs			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
20A-90°	-369	" 20A	11	3 pcs			
20A-90°	-370	" 20A	SUS316	2 pcs			
L5A-90°	-371	15A	11	2 pcs			
J-15A	-372		642x27x17 . Galv.	6 pcs			
			- to be c	ontinued -	** .		

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C/Nos.		Description of Goods	Quantity	Wei	Measure-	
O/1103,		Description of Goods	Augustra	net	gross	ment
	SK-409	Mixing Chamber 400 80A FRP	2 pcs	(Kgs)	(Kgs)	(M3)
	DI~301	Flange 25A JIS 10K SO.RF SUS316	5 pcs			
	-302	" 20A JIS 10K SO.KF SUS316	5 pcs			
	-303	" 25A JIS 10K SO.FF & RF SS41	5 pcs			
	-304	" 20A JIS 10K SO.RF SS41	3 pcs			
	-305	Elbow 25A SPTP38	3 pcs			
	-306	" 50A "	2 pcs			
	-307	" 20A S25C	3 pcs		,	
	-308	Pipe 80AxSch40 0.5m STPG38	1 pc			
	-309	Boss 90/10 Cu-Ni 70LxPT1/2	1 pc	•	-	
	-310	" 90/10 Cu-Ni PT3/4 120L 100L	l pc l pc			
	-311	Flange 15A KOS 10K SO.FF 90/10 Cu-Ni	14 pcs			
	-312	" 90/10 Cu-Ni 20A JIS 10K SO.FF	8 pcs		-	
	-313	" 90/10 Cu-Ni 25A JIS 10K SO.FF	8 pcs	:	·	
	-314	" 50A JIS 10K SO.FF SS41+90/10 Cu-Ni DEPO	1 pc			
	-315	Elbow 90/10 Cu-Ni 15A	10 pcs			
	-316	" 20A	3 pcs			
	-317	" " 25A	17 pcs			
		- to be cont	inued -			

	}	00.1	Overtity	Wei	ght	Measure
C/Nos.		Description of Goods	Quantity	net	gross	ment
		`		(Kgs)	(Kgs)	(M3)
200x200x16	SK-433	Plate for Spare 200x200x16t SS41	2 pcs			
	-434	Piping for Sea Water Line 300/100A Rubber Lining	l pc			
	-448	Back Pressure Valve	l pc			
	-449	Flange JIS 10K 50AxPT1-1/2 SUS316	l pc			٠.
	DI-353	Nut M8x6.5 SS41 for Stud Bolt of Insulation (Spare)	20 pcs			
	-354	Flange JIS 10K 100A FF. \$210x18	2 pcs	+		
	-355	Coupling 25Ax15A SUS316	l pc			
	SK-436	Flange JIS 10K 20A FF SUS316	6 pcs			
	-437	Elbow SW 20A Sch40 SUS316	10 pcs			
•	-438	Tee SW 20A Sch40 SUS316	2 pcs			
	-439	Reducer SA 25Ax15A Sch40 SUS316	l pc			
	-440	Blind Flange JIS 10K 20A FF. SUS316	l pc		-	
•	-441	Tee PT1/2 x PT1/2 SUS316	4 pcs		- ,	: 1
	-442	Nipple PT1/2 SUS316	8 pcs			
	-443	Bolt & Nut M12x45 SS4l+Galv.	36 sets	,		
	-444	U Bolt & Nut 20A M10 SS41+Galv.	8 sets			
	-445	Gasket \$100x\$28x1.5 EPT	10 pcs		·÷	
		- to be cor	tinued -			

(1/37	:	December in a Constant	0	Wei	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment
	SK-446	U Bolt & Nut 100A M12x130 SS41+Galv.	2 sets	(Kgs)	(Kgs)	(M3)
	-447	U Bolt & Nut 50A M10x75 SS41+Galv.	2 sets			
	-450	Socket for Spray Nozzel 28x28 SUS304	l pc			
	-451	Spray Nozzle 28x16 SUS304	l pc			ė
-ù01	SK-238	LPG Regulator for Boiler Type L-20 180L	1 pc			
	-239	Regulator and Bomb for PT3/8 Connection 55L	l pc			
u	-240	Connection between LPG- Regulator and Bomb for NPT3/8 Connection 55L	1 pc			
n ·	-241	Connection between Rubber House and Boiler 80L PT1/2	l pc	•		
tt	-242	Rubber Hose for Boiler 4m	l pc			
LINER-001	SK-410	Liner Plate for Desalination Skid 9tx100x300 SS41	20 pcs			
-002	-411	Liner Place for Water Tank 9tx100x200 SS41	4 pcs			
-003	-412	Liner Place for Oil Tank 9tx100x200 SS41	6 pcs	:	-	
-004	-413	Liner Plate for Boiler 9cx100x150 SS41	8 pcs			
-005	-414	Liner Place for Piping 9cx50x150 SS41	50 pcs		:	
-006	-415	Liner Plate for Adjustment 1.2tx100x300 SS41	10 pcs			
1 - 1	:	- to be cont	inued -		ļ	

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Name of the Owner, where the Owner, which the Owner, whic			Ounation	We	ight	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
The same that th				(Kgs)	(Kgs)	(M3)	
LINER-007	SK-416	Liner Plate for Adjustment 1.6tx100x300 SS41	10 pcs				
-008	-417	Liner Place for Adjustment 2.0tx100x300 SS41	10 pcs				
-009	-418	Liner Place for Pump 0.1tx300x300 Cupper	l pc				
-010	-419	Liner Place for Pump 0.1tx300x300 SUS304	1 pc	•			
-011	-420	Liner Plate for Pump 0.2tx300x300 Cupper	l pc				
-012	-421	Liner Place for Pump 0.2cx300x300 SUS304	l pc				
-013	-422	Liner Place for Pump 0.5tx300x300 Cupper	l pc				
-014	-423	Liner Place for Pump 0.5cm390m300 SUS304	1 pc				
-015	-424	Liner Place for Pump 0.05tx300x300 SUS304	1 pc				
P-001	HM-06	Coupling Bolt (including spares)	16 pcs				
- 002	HW-16		16 pcs				
-003	HM-26	"	16 pcs				
C/NO.M-24 (CASE)	FS-001	Element fo Y-Type Strainer Spare PVC 10K 50A	l pc	410	590	2.336	
	FS-002	Gasket for Y-Type Strainer Spare PVC 10K 50A	1 pc				
	FS-003	Element for BC Duplex Strainer Spare	l pc				
	FS-004	"O" Ring for BC Duplex Strainer Spare	l pc				
		- to be co	ntinued -				

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VMc~		Description of Goods	Quantity	Wei	ght	Measure
C/Nos.		Description of group	Ansamm	net	gross	ment
	FS-005	Element for Y-Type Strainer Spare SCS13 10K 15A	2 pcs	(Kgs)	(Kgs)	(M3)
	FS-006	Gasket for Y-Type Strainer Spare SCS13 10K 15A	2 pcs			
	FS-007	Element for Y-Type Strainer Spare FCMB 10K 25A	2 pcs			
ė	FS-008	Gasket for Y-Type Strainer Spare FCMB 10K 25A	2 pcs			
v	FS-009	Spring for Safety Valve Spare 40A 1.8 KG/cm ²	1 pč		. :	
	FS-010	" Spare l"x19x1" 1 KG/cm ²	l pc			
	FS-011	Diaphragm Valve Spare 10K 25A FC/HRL/EPT	1 pc			-
	FS-012	10K 25A FC/HRL/CR	1 pc			
	FS-013	10K 20A FC/HRL/CR	2 pcs			
	FS-014	10K 15A FC/HRL/CR	3 pcs			
	FS-015	Ball Valve Spare SCS14 10K 50A	1 pc			
	FS-016	" Spare SCS14 10K 25A	4 pcs			
	FS-017	" Spare SCS14 10K 30A	l pc			
	FS-018	" Spare SCS14 10K 3/4PT	2 pcs			
	FS-019	" Spare SCS14 10K 1/2PT	2 pcs			
	FS-020	" Spare BC6 10K 1/2PT	2 pcs	· :		
•		- to be con	inued -			
v						·

OAT		Decementian of Goods	Quantity	Wei	ght	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
			•	(Kgs)	(Kgs)	(M ³)	
ļ	FS-021	Ball Valve Spare	l pc			į ·	
		BC6 10K 3/8PT					
	FS-022		l pc			1	
·		BC6 10K 1/4PT				<u> </u>	
	FS-023	Glove Valve Spare	1 pc				
		SCS14 10K 50A RF				į	
	FS-024	" Spare	l pc			<u> </u>	
		SCS14 10K 25A RF				,	
ļ	FS-025	" Spare	l pc			ė	
.		SCS14 10K 15A RF	, pc			ļ 	
į	DO 006		3				
ļ	FS-026	" Spare SCS14 10K 1/2PT	2 pcs	1		}	
į			_				
	FS-027	Gate Valve Spare FCMB 10K 25A FF	l pc				
	FS-028	" Spare	l pc				
		FCMB 10K 25A FF			i		
-	FS-029		·1 pc				
		FCMB 10K 3/4PT					
	FS-030	Glove Valve Spare	2 pcs		£.	ļ	
		FCMB 10K 1/2PT					
	FS-031	Diaphragm Valve	4 pcs				
		10K 40A FF FC/CRL/CR					
	FS-032	· tr	l pc				
		10K 50A FF FC/CRL/CR					
	FS~033	Ball Valve	2 pcs				
	10.000	10K 3/4 PT SCS14	L pcs				
U-601	ምሮ - ሰባ/						
V-601 V-901/904	FS-034	Gate Valve 10K 50A FF FCMB	5 pcs				
	me 65.						
	FS-035	10K 32A FF FMMB	1 pc		etta en j		
	FS-036	IOV 20A EE ECMB	1 pc				
		10K 20A FF FCMB					
		- to be a	ontinued -				
		to be t	O'LLINGU				

C/Nos.		Description of Goods	Quantity	Weight		Measure	
Q/1103.		Description of Goods	Accentate?	net	gross	ment	
TTEM NO. 5V-601 5V-901/904	FS-037	Globe Valve 10K 1/2PT SCS14	5 pcs	(Kgs)	(Kgs)	(M ₃	
	FS-038	Ball Valve 10K 40A FF SCS14	1 pc				
T-601	TL-001	Steam Trap for MP Line	1 pc				
sv-101	DI-341	Butterfly Valve JIS 10K 100A FC20+NBR/SCS14	l pc		i		
3A-104	DI-342	Ball Valve JIS 10K 50A RF SCS14/SUS316	j pc				
3A-202	DI-343	" JIS 10K 50A RF SCS14/SUS316	l pc				
3V-412	DI-344	Butterfly Valve JIS 10K 125A FC20+NBR/SCS14	l pc				
v-413	DI-345	" JIS 10K 125A FC20+NBR/SCS14	l pc				
	DI~345-	-i Handle for Ball Valve	69 pcs				
800 - v	DI-346	Gate Valve FCMB JIS 10K PT3/4	l pc				
	DI-347	Diaphragm Valve JIS 10K 20A FF FC20/HRL/CR	2 pcs				
	DI-348	Ball Valve JIS 10K PT1/2 SCS14/SUS316	3 pcs				
A-203	DI-349	" JIS 10K 65A RF SCS14/SUS316	l pc	•	•		
	DI-350	Globe Valve JIS 10K PT1/2 FCMB	l pc				
	DI-351		l pc				
	DI-352	Globe Valve JIS 10K 20A FF FCMB	1 pc				
		- to be cont	inued -				
ar in		LO DE COME					

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		¥ ,
55)	K

			0	Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
2/22 2 25		•		(Kgs)	(Kgs)	(M ³)
C/NO.M-25 (CASE)	INS-15	Stainless Wire #18	500 MT	970	1,170	2.554
		Silicon Shealant 330cc/cartridge 300x50	69 pcs	·		
	-17	Aluminium Pipe Cover 50Ax25x950	46 pcs	·		
	-18	40Ax25x950	20 pcs			•
	-19	300Ax50x950	4 pcs			
	-20	15Ax25x950	9 pcs			
	-21	" " " " " " " " " " " " " " " " " " "	28 pcs			
	-22	25Ax25x950	74 pcs			
	-23	32Ax25x950	2 pcs			
	-24	" " 100Ax25x950	3 pcs			
	-25	Aluminium Sheet 2000x1000x0.4t	32 Sh.			: .
	-26	Aluminium Sheet 2000x1000x0.3t	48 Sh.			
	-27	Bolt, 2-Nut & 2-Washer M8x65 SUS				
	-28	Bolt, Nut & 2-Washer M4x40 SUS	2,400 sets			1. 31.
	-29	Bolt, Nut & 2-Washer M4x65 SUS	730 sets			
		- to be o	continued -	* .		
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C/N _m o		Description of Goods	Quantity	Weight		Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
- ,	INS-30	Tapping Screw M4x13 SUS	500 pcs	(kgs)	(Kgs)	(M ₃)	
	-32	Corking Gun	l pc				
	-33	Beading Machine	l pc				
	-34	Screw Bar	2 pcs .				
	-35	Scriber	l pç		:		
	o −36	Electric Power Drill 100V	1 pc				
	-37	Pliers (Curbed) 60W	2 pcs	;			
	-38	Pliers (Flat) 30W	2 pcs				
	-39	Pliers (Sharp Pointed) 240L	l pc				
	-40	Wooden Clapper	l pc		, A		
	-41	Curling Roller	l pc				
	-42	Snips (Straight edge) 330L	2 pcs				
	-43	Snips (Curved edge) 270L	2 pcs				
	-44	Snips (Thrust) 210L	2 pcs	· .			
	45	Cutting Pliers	1 pc				
	-46	Hand Saw	1 pc				
	-47	Scissors for Cloth	2 pcs				
	-48	Hand Bender for Lock Seam	l pc				
:							
					·		
		- to be co	itinued -		1		

<u> </u>				Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
C/NO.M-26 (CASE)				(Kgs)	(Kgs)	(M3)
ITEM NO. P-005	04-01	Chemical Pump for Anti Scale Spare	1 pc	450	640	2.659
11	0Y-02	Diaphragm Spare	l pc			
11	04-03	· Valve Seac "	4 pcs			
ii S	0Y-04	Ball Valve "	4 pcs			•
4	OY-05	L-Wrench	l pc		-	·
P-006	0Y-10	Chemical Pump for Acid Spare	l pc			•
P-006	0Y-11	Diaphragm Spare	1 pc			
P-006	0Y-12	 Valve Seac Spare	4 pcs		-	
P-006	07-13	Ball Valve Spare	4 pcs		ļ	
P-006	OY-14	L-Wrench Spare	· l pc			
P-007	0Y-20	Chemical Pump for Sodium sulphite Spare	l pc			
P-007	OY-21	Diaphragm Spare	1 pc	:		
P-007	OY-22	Valve Seac Spare	4 pcs			
P-007	OY-23	Ball Valve Spare	4 pcs			
P-007	OY-24	L-Wrench Spare	1 pc			
P - 009	OY-31	Chemical Pump for Anti FOAM Spare	1 pc			
P-009	0Y-32	Diaphram Spare	1 pc			
P-009	OY-33	Valve Seat Spare	4 pcs			
P-009	0Y-34	Ball Valve Spare	4 pcs	:	·	
P-009	OY-35	L-Wrench Spare	l pc			
		- to be cont	inued -			

C/Nos.	Description of Goods	Quantity	We	ight	Measure-
V, 1.001	Description of Goods	* Adametey	net	gross	ment
ITEM NO.			(Kgs)	(Kgs)	(M3)
SK-254	LI-402 Tubular Level Gauge O. B,K SUS316 H=465	1 pc			
SK-255	LI-901 Level Gauge LTC-2110	l set			
SK-258	XV-202 Diaphragm Operated Control Valve 2-1/23	1 pc			
SK-268	PI-101,102,201,301,303,302,401,402, 501,603,604,803,804,805,001 Pressure Gauge PT1/2	15 pcs	ò		
•	PI-801 Pressure Gauge with Diaphra	gm 2 pcs			
	PI-802 Seal				
SK-269	Oil Heater 110V 3KW	1 pc			
в-001	SM-052 Eath Leakage Relay EG 103A	l pc		-	
11	-053 " EG 53A	l pc			
·	-054 " SG 33A	1 pc			
TT .	-055 " SG 33A	2 pcs			
C/NO.M-27 (CASE)					
ITEM NO. HEAT-001	SK-201 Tool Box	1 pc	80 :	200	1.506
IEAT-001	SK-202 Tube Expander & Handle	2 pcs			
HEAT-001	SK-203 Tube Cleaning Bar	4 sets			
HEAT-001	SK-204 Cleaning Piece	6 pcs			
ÆДТ-001	SK-205 Tube Cleaning Brush	20 pcs			
HEAT-001	SK-206 " "	10 pcs			
	- to be c	on inued -			

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~ ^ ^		Demintion of C = de	Quantity	Wei	ght	Measure-	
C/Nos.		Description of Goods	Quantity	net	gross	ment	
ITEM NO.				(Kgs)	(Kgs)	(M ³)	
HEAT-001	SK-207	Tube Cleaning Collar & Bol	t 2 sets				
HEAT-001	SK-208	n n	4 sets				
HEAT-001	SK-209	Bell Expand Tool	2 pcs				
HEAT-001	SK-210	Collapsing Tool	2 pcs				
IEAT-001	SK-211	Tube Push Out Tool .	2 pcs				
IF `~-001	SK-212	Drawing Tool for Tube	1 pc				
EAT-001	SK-213	Wood Plugs	30 pcs				
EAT-001	SK-214	Tube Inside Cutting Tool	l pc				
EAT-001	SK-215	Tube End Cutting Tool	l pc	-			
EAT-001	SK-216	Packing Insert Tool SS34	l pc				
EAT-001	SK-217	Packing Guide Tool SS34	l pc			,	
EAT-001	SK-218	Ferrule Setting Tool	l pc		,		
EAT-001	SK-219	Packing Taking Out Tool SW	2 l pc				
H-01	SM-001	Hand Operated Chain Hoist 1 ton	1 pc				
B-01	SM-002	Sceel Wire Rope 8¢ x 350L	2 pcs				
H-01	SM-003	" 8¢ x 1600L	l pc				
H-01	SM-004	" 8∉ x 850 L	l pc				
Ľ-01	SM~005	" 84 x 800L	2 pcs				
н-01	SM-006	" 8½ x 550L	1 pc				
H-01	SM-007	" 8é x 1300L	l pc				
H-01	SM-009	Shackles BD12	l pc				
н-01	SM-010	" BD14	1 pc				
		- to be co	ontinued -				

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C/Nos.		Description of Goods	Quantity	Weight		Measure-	
C/IVOS.	0.00	Description of Goods		net	gross	ment	
ITEM NO.	SM-011	Shackles BD8	l pc	(Kgs)	(Kgs)	(M3)	
CH-01	SM-012	" BD10	2 pcs				
J. VI			2 pc.				
		SPARE PARTS	•				
	SP1	Fuse Element NC-1 1A Cellolite Type	6 pcs				
	SP2	" NC-1 5A Cellolite Type	l pc				
	SP3	Fuse Case NC-1 AC500V Cellolite Type 30A	l pc	•			
	SP4	Lamp E-12 18V 2W	20 pcs				
	SP5	Indicating Lamp SL48-1122 AC110V	2 pcs		• ,		
	SP6	Push Button Switch ABN-120-Y	1 pc				
	SP7	ABN-101-B	1 pc	•	·		
	SP7	ABN-101-G	l pc				
	SP7	Push Button Switch ABN-110-R	l pc				
	SP8	Snap Switch WD1211 15A 250V	2 pcs				
. :	SP9	Select Switch ASN15S	l pc				
	SP10	Aux. Relay MK3P AC110V	9 pcs	<u>:</u>	. *.		
•	SP10	DC24V	1 pc				
	SP11	Fuse Holder F-4000 250V 10A	3 pcs				
	SP12	Fuse F-7161 AC125V 1A	10 pcs				
			: . · · ·				
		- to be cont	inued -				

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	D		Weig	ght	Measure-
C/Nos.	Description of Goods	Quantity	net	gross	ment
	•		(Kgs)	(Kgs)	(M3)
SP1	3 Fuse Element NC-1 10A Cellolite Type	l pc			
SP1	4 Indicating Lamp AC110V SL49-2122 Green, Red	2 pcs			
SP1	5 Gauge Glass LI-081, 802 Hard Glass	2 pcs			
SPI	6 " LI-803, 804 Hard Glass	2 pcs		ò	•
SPI	7 " LI-402 Hard Glass	l pc			
SPI	8 Gland Packing LI-801, 802, 803, 804, 402 VALQUA #7137	10 pcs			
SPI	9 DO Sensor Tip PVC	2 pcs		,	
SP2	O Fuse Glass	4 pcs			
SP2	l Seat Ring XV-101 BUNA.N	1 pc	,		
SP2	2 Gland P/K XV-201,203,301 302,601,602	8 pcs			
SP2	2 Gasket P/K XV-201,203,301 302,601,602	2 pcs		:	
SP2	3 Gland P/K XV-202	8 pcs			
SP2	3 Gasket P/K XV-202	2 pcs			
SP2	4 Gland P/K XV-401	8 pcs		,	
SP2	4 Gasket P/K XV-401	2 pcs			
SP2	5 Seat Ring XV-402	4 pcs			:
SP2	6 Electrode K9142TN	5 pcs	10 1 1	٠.	
SP2	7 Junction K9142TH	5 pcs			
SPZ	8 Buffer Powder K9120KA	5 pcs			
SP2	9 " K9120 XB	5 pcs		4	
	- to be co	ontinued -			

JAPAN INTERNATIONAL COOPERATION AGENCY

) K P.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan. (62 Weight Measure-C/Nos. Description of Goods Quantity ment gross net (Kgs) (Kgs) (M3)SP30 Buffer Powder K9120XC 5 pcs SP31 KCL Assy K9142UT 5 pcs SP32 Chart 12 pcs SP33 6 Point Painting Pad 3 pcs SP34 Fuse 2 pcs SP35 Oil 1 pc SP36 Chart 12 pcs SP37 Recording Pen, Red 4 pcs SP38 , Green 4 pcs **SP39** , Blue 4 pcs SP40 Spare Ink, Red 1 pc SP41 , Green 1 pc SP42 , Blue 1 pc SP43 Oil 1 pc SP44 Chart 12 pcs SP45 Recording Pen, Red 4 pcs SP46 , Green 4 pcs SP47 Spare Ink, Red 1 pc SP48 , Green 1 pc Oil SP49 1 pc SP50 Chart 12 pcs SP51 Recording Pen, Red 4 pcs SP52 Green 4 pcs. to be continued -

JAPAN INTERNATIONAL COOPERATION AGENCY

(63)KP.O. Box 216, Mitsui Bldg., Shinjuku-ku, Tokyo, Japan. Weight Measure-Quantity Description of Goods C/Nos. ment net gross (M3)(Kgs) (Kgs) 1 pc SP53 Spare Ink, Red , " , Green l pc SP54 SP55 Oil l pc 12 pcs SP56 Chart 4 pcs Recording Pen, Red SP57 " , Green 4 pcs SP58 l pc SP59 Spare Ink, Red " , Green SP60 1 pc SP61 0i1 1 pc. 12 pcs SP62 Chart Recording Pen, Red 4 pcs SP63 " , Green 4 pcs SP64 Spare Ink, Red 1 pc SP65 " , Green SP66 l pc Oil SP67 1 pc 12 pcs SP68 Chart SP69 Recording Pen, Red 4 pcs ", Green SP70 4 pcs " , Blue SP71 4 pcs SP72 Spare Ink, Red 1 pc SP73 , Green 1 pc SP74 , Blue 1 pc SP75 0i1 1 pc Thermo Meter 0-150°C SUS316 SP76 - to be continued -

JAPAN INTERNATIONAL COOPERATION AGENCY

C/Nos.	Description of Goods		Onomities	Weight		Measure-	
		Description of Goods	Quantity	net	gross	ment	
	SP78	Thermo Meter 0-100°C SUS316	1 pc	(Kgs)	(Kgs)	(M3)	
	SP79	" 0-100°C	1 pc				
	SP80	" 0-300°C sus304	l pc				
C/NO.M-28 (CASE)		•					
ITEM NO. FER-001	SK-220	Ferrule for Brine Heater 19x16.2 NBSB	12 pcs	260	360	1.232	
H	-221	Metalic Packing for Brine Heater \$20x4	24 pcs			•	
tt .	-222	Fiber Packing for Brine Heater \$\delta 20x4	48 pcs		·		
11	-223	O-Ring for Brine Heater \$20.96 x \$15.6	24 pcs				
11	-224	Blind Ferrule for Brine 19xM22x1.5	12 pcs				
	- 225	Fiber Packing for Brine Heater \$\phi 20x7\$	24 pcs				
V-001	SK-226	Blower for Decarbonator 300x6290/6240	l pc				
E-002	SK-227	Protecting Plate for Brine Heater 80x35x14 9% Ni-Fe	10 pcs	:			
: ; i	SK-228	Protecting Place for Brine Heater 120x70x14 9% Ni-Fe	8 pcs				
·	SK-228-	l Filling for Protecting Plate 300xø40 Silicon	2 pcs				
		JUUX94U SILICON					

			0	Wei	ght	Measure-
C/Nos.		Description of Goods	Quantity	net	gross	ment
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				(Kgs)	(Kgs)	(M3)
E-002	SK-228-2	Gun for Filling 350L	1 pc			
GLA-01	-229	Sight Glass for Evaporator \$145x12t	4 pcs			
CLA-02	-230	Sight Glass for Strainer of Ball Cleaning	2 pcs			
TUB-01	SK-231	Titanium Tube for Brine Heater TTH35W 1912x0.5t	l pc	-	i	
u	-232	Titanium Tube for Brine Heater TTH35W 1912x0.3t	6 pcs			
:1	-233	Titanium Tube for Brine Gr-12 1912x0.5t	6 pcs			
TUB-02	SK-234	Alumi-Brass Tube C6872T-O 970x1.0t	12 pcs			
33	-235	Alumi-Brass Tube C687T-0 731x1.0t	6 pcs	,		
31	-236	90/10 Cu-Ni Tube C7060T-0 970x1.0t	20 pcs			
11	-237	90/10 Cu-Ni Tube C8060T-0 731x1.0t	30 pcs			
	SK-243	Titanium Tube for Brine Heater TTH 35W 1912 0.5t	5 pcs			
	-244	Titanium Tube for Brine Heater TTH 35W 1912x0.45	6 pcs			
	-245	Titanium Tube for Ejector Condenser TTH 35W	2 pcs			
		1300x0.4t		1 1 1	i i	
	-246	Heat Resistant Spong Ball 14-S201-1 Ø14	500 pcs			
		- to be conti	nued -			
	1		•		1 .	

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( 66 )K

C/Nos.	Description of Goods		Quantity	Weight		Measure-	
C/Mos.		Description of	Coods	Anguitte	net	gross	ment
,					(Kgs)	(Kgs)	(M ³ )
	SK-247	Heat Resista 14.5-S202-1	nt Sponge Ball	500 pcs			
ļ	-248	Ball Gauge f 490(400)x490	for ∮14 14×100 (400)×50	1 pc			
,	-249	Ball Gauge f 490(400)x490	for \$14.5x100 (400)x30	l pc			
C/NO.M-29 (CASE)	SY_250	Daine Garage				120	
(CA3E)	38-230	Paint Cyanam	ird Heldoudd	2 pcs	100	130	0.211
	-252	" Micas	A	2 pcs			
a (no. v. 20						·	
CASE)	SK-253	CF Paint	<i>;</i>	1 pc	64	90	0.211
:			2.5PG 5/8.5 240x240x350				
	<b>-</b> 254	**	2.5G 8/2 240x240x350	l pc			
•	<b>~</b> 255	tf	7.5YR 7.5/5.5 240x240x350	1 pc			
	-256	u .	N-7 240x240x350	1 pc			
C/NO.M-31 (CASE)	SK~257	CR Paint Finish Coat	N-7	l pc	64	90	0.211
(4.10.11)			240x240x350				
, 	-258	H	2.5PG 5/8.5 240x240x350	l pc		,	
	-259	**	7.5YR 7.5/5.5 240x240x350	1 pc		. !	
	-260	. <b>11</b>	2.5G 8/2 240x240x350	l pc			
ļ							
			- to be con	tinued -			
	į.						

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C/Nos.		Description of Goods	Quantity	net	gross	ment
				(Kgs)	(Kgs)	(M3)
C/NO.M-32 (CASE)	SK-251	Paint Thinner A 240x240x350	l pc	30	60	0.211
	-261	Zinky 8500 Thinner	1 pc			
	4	240x240x350				
C/NO.M-33 (CASE)	SK-262	Nippe Zinky 8500 HB (Base) 240x240x350	l pc	25	60	0.211
	-263	Nippe Zinky 8500 HB (Catalyst) 135x80x230	l pc			
		2				
C/NO.M-34 (CASE)	E-1201	Cable CV 600V 4C-3.5sq	30 M	280	420	1.784
•	E-1202	" CVV 600V 2C-2sq	30 M			
	E-1203	" CVVs 600V 2C~2sq	150 M			
	E-1204	" CVVS 600V 3C-2sq	30 M		-	
	E-1208	Normal Bedn G-36	5 pcs			:
•,	E-1209	Coupling G-36	10 pcs	 		_
	E-1210	" G-54.	5 pcs			
	E-1211	Flexible Tube G-16 x 500L W.P. with Pipe-Con, Box Con.	3 pcs			
	E-1212	Bushing G-22	5 pcs			
	E-1213	" G~36	10 pcs			
	E-1214	" G-42	10 pcs			
		- to be co	ptinuad =			
		- to be co	incritined -			

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C/Nos.	Description of Goods	Quantity	<b>}</b>	ight	Measuremen	
	Bosci priori or oodd	quantity	net	gross		
	D 1015 D 1111		(Kgs)	(Kgs)	(M ³ )	
	E-1215 Bushing G-54	40 pcs				
	E-1216 Lock Nut G-22	5 pcs				
	E-1217 " G-28	30 pcs				
	E-1218 " G-36	10 pcs				
	E-1219 " G-43	10 pcs	[			
ó	E-1220 " G-54	60 pcs				
	E-1221 Pull Box 2.35 Galv.	11 pc		 		
	E-1222	2 pcs				
	E-1223 "	2 pcs				
	E-1224 Adaptor PF1/2 x PF3/4	<b>.</b>				
		45 pcs				
	113/4 1111	15 pcs				
	E-1226 " PF3/4 x PF1	5 pcs				
	E-1227 " PF 1 x PF1-1/2	2 pcs				
	E-1228 Circular Box G-22	5 pcs	<b>!</b>			
	E-1229 " G-28	10 pcs				
	E-1230 Terminal Lag 2-4¢	100 pcs				
	E-1231 U-Type Bolt & Nut	20 pcs				
	1" SUS304		1		<u> </u>	
	E-1232 " 1-1/4" SUS304	10 pcs	•			
	E-1233 "	10 pcs	]			
	1-1/2" SUS316	10 pcs				
	E-1234 "	10 pcs				
	2" SUS316		, ···			
	- to be co	ntinued -				

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69 ) K

P.O. Box					ight	( 09 )	
C/Nos.		Description of Goods	Quantity	net	gross	Measurement	
	E-1235	Bolt & Nut M8 x 15L SUS304	10 pcs	(Kgs)	(Kgs)	(M ₃ )	
	E-1236		20 pcs				
	E-1237	" M10 x 20L SUS304	20 pcs				
	E-1238	" M10 x 30L SUS304	20 pcs	, , , , , , , , , , , , , , , , , , ,			
	E-1239	Plug G-22	10 pcs	]			
	E-1240	Plug G-28	10 pcs	-			
	E-1241	Cable Band 100L	50 pcs		**		
	E-1242	Calking	5 kgs				
	E-1244	Flange 1" FF-1/2 PT	6 pcs	<u> </u>			
	E-1245	Valve SUS316 JIS 10K 1/2"-SW	2 pes		-		
	E-1246	Elbow SUS316 1/2" SW Sch40	5 pcs				
	E-1247	Bolt SS41 M12 x 40L	14 pcs	,			
	E-1248	" SS41 M12 x 45L	5 pcs				
	E-1249	" SS41 M16 x 50L	30 pcs				
٠	E-1250	Nut SS41 M16	30 pcs				
	E-1251	" SS41 M12	20 pcs				
	E-1252	Gasket 1/2" - 1.5t EPT Rubber	5 pcs				
	E-1253	" 1" - 1.5t EPT Rubber	9 pcs				
	E-1254	" 3/4" - 2.3t Teflon Covered Joint Sheet	2 pcs				
	E-1255	Welding Rod for SUS316	5 pcs			To provide the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
		- to be cont	inued -				
		20 33 0011					

C (N	7			We	ight		
C/Nos.		Description of Goods	Quantity	net	gross	Measurement	
· · · · · · · · · · · · · · · · · · ·	E-1256	Flange for PI-805	l pc	(Kgs)	(Kgs)	(M ³ )	
	E-1258	Union with Gasket 1/2" FCMB-W	ll pcs				
·	E-1259	Reducer 1/2 x 1/4 FCMB-W	4 pcs				
	E-1260	Valve BX JIS 10K 1/2PT	17 pcs	i	ļ		
5	E-1261	Half Union 1/4PT- 6/4¢ B:BM Ring	18 pcs				
	E-1262	PVC Cap for Half Union 1/4 - 6/4€	15 pcs				
	E-1263	Copper Tube 6/4¢ - 1c -PVC	15 pcs	·		[	
	E-1264	Long Nipple SGP-W 1/2" PT-PT 100L	6 pcs				
	E-1265	Seal Tape Teflon	20 pcs				
	E-1266	U-Bolt & Nut 1/2" SUS304	20 pcs	,			
	E-1267	Saddle for Tube for $12/10 c$ with Bolt & Nut	25 pcs				
	E-1268	PVC Cap for Telminal Lug for 2sq Blue	350 pcs				
	E-1269	Male Connector SUS316 1/2PT - 12/10¢	10 pcs				
				· }			
C/NO.M-35 (CASE)	E-1205	Conduit Pipe G-36 3660L Galva.	5 pcs	150	240	0.809	
	E-1206	G-42 3660L Galva.	3 pcs				
	E-1207		3 pcs				
		- to be conti	nued -				
	4						

C/Nos.	Description of Goods	Quantity		ight	Measurement	
	Description of Goods		net	gross		
			(Kgs)	(Kgs)	(M ₃ )	
	E-1243 Tube SUS316 12/10¢ 4000L	10 pcs				
	E-1257 Pipe SGP-W 1/2" 5500L	2 pcs				
	E-1257 Fifte 201-W 1/2 2000					
TEM NO. K-083	E-1083 Pipe SUS316 S/40 1/2"	10 м				
K-003	·		<b>.</b>	}		
K-084	E-1084 Tube SUS316 10 x 8	40 M				
				İ		
ð		Í				
/NO.M-36 CASE)	OM-1 Operation Manual VOL-I	3 sets	50	120	0.864	
	OM-2 Operation Manual VOL-II	3 sets				
	OM-3 Operation Manual VOL-III	] 3 sets				
-	OM-4 Final Drawing VOL-I	3 sets				
	OM-5 Final Drawing VOL-II	3 sets	1			
•	OM-6 Inspection Report	3 sets				
	OM-7 Erection Manual VOL-I	3 sets				
	OM-8 Erection Manual VOL-II	3 sets.				
tal:	Seventy Five(75) Packages.	15,739 pcs,	72,249Kgs	96,926kg	s 588.062 M	
		4,025.2 M,				
		3,949 Kgs, 4,896 sets				
		500 M,	{			
		197 sh, 45 L,				
		45 roll	8			
		36 shet	<u>ا</u> ,			
		33 cans	<b>,</b>	Ì		
		30 bags				
		21 pack 20 btls	ş,			
		& 1 drum				
	1	1				
	·				)	
			)			
			]			
			1			
	I	1	1	i .	1	

## APPENDIX - II

## 1 - EQUIPMENT REQUIRING A/C STORAGE

M - 31 M - 32 M - 33 M - 36

CI	ETAS	NO.
L	(A)	1
L	(A)	-2
L	(A)	3
Ĺ	(A)	-4
L	(A)	<b>~</b> 5
L	(A)	-7
L	(A)	-13
L	(A)	-14
L	(A)	-15
L	(A)	-16
L	(A)	-17
L	(B)	-1
L	(B)	-5
R	_	8
R		12
Ŕ		1 3
R		14
R	-	15
M	,,,,,	4
M		29
M		30

# II - EQUIPMENT TO BE KEPT UNDER SUNSHADE

```
CRATE NO
L(A) -6
L (A) -8 EXCEPT LA 2-1-1 A/C
                 LA 2-2-1 A/C
L (A) -9
                 LA 3-37-1 TO 11 A/C
L (A) -10
L (A) -11
L (A) -12
           EXCEPT LA 5-1-1, LA 3-2-1 A/C
L (A) -18
L (B) -2
L (B) -3
           EXCEPT LB 1-2-1,-2,-3, LB 1-5-1,-2,-3,-4
L (B) ~4
                  LB 1-17-1, LB1-18-1 TO 11 A/C
                  LB 1-4-6,-7,-8.
L (B) -6
      21
      26
```

# III - EQUIPMENT REQUIRING NO PROTECTION FROM SUN

CRATE NO.	CRATE NO.
R-1	M - 20
R - 2	M - 22
R - 3	M - 23
R - 4 EXCEPT R.O. Module A/C	M - 24
R - 5	M - 25
R-6	M - 27
R-7	M - 28
R - 10	M - 34
	м - 35
R - 11 EXCEPT J3-01, H2-147, H2-151, PR-8 A/C	
M - 1	
M - 2	
M-3	
м - 6	
M - 7	
M - 8	
м — 9	÷
M - 10	
M - 11	
M - 12 EXCEPT SK-201, -202 A/C.	-
M - 13	•
M - 14	
M - 15	
M - 16	
M - 17	
M - 18	
M - 19	

# APPENDIX - III

CRATE NO.	REMARKS		
LA - 1	-		
LA - 2	<del>-</del> .		
·	Following	Missing:	
	1.26.040	Ruber Tube for Vacuum	(2 pcs)
	.090	Fixed Apertube Assy	(1 set)
	.100	Oil filter for RP	(2 sets)
	.110	Display console	(l set)
	.120	Phot CRT unit	(1 set)
	.160	Ruber Tube for Vacuum	(2 pcs)
	.200	Screw	(4 pcs)
	2.26.010	2CH Spectrometer Assy	(1 set)
	1.28.	S-6582 Motor 2	(1 pc)
	1.29.	S-6583 Motor 3	(l pc)
	1.30.	S-6584 Motor 4	(1 pc)
	1.33.	Filament 10 pcs/set	(1 set)
	1.34.	Window	(1 pc)
	1.35	Window	(lpc)
	1.36	Photomur1	(lset)
	1.37	Scintillator	(lset)
LA - 3			
LA - 4		and the second second	
LA - 5	Requested	JICA for identification of	
	numbers or	the boxes in this crate.	
LA - 6		ua.	
LA - 7	Following	Missing:	
	LA 1-11-6	Fuse	(3 pcs)
	LA 1-11-13	Filter element (5 pcs/set	(2 sets)
IA - 8		-	
	Following	Missing:	
LA - 9	LA 2-6-2 I	Pilot lamp	(4 pcs)
	LA 2-6-3 H	Puse 10A	(2 pcs)

```
LA - 10
                Following Missing:
                LA 3-17 Micrometer all kinds
                                                       (8 pcs)
                LA 3-18 Adjustable tap wrench set
                                                       (5 pcs)
                LA 3-19 Electric soldering iron
                                                       (5 pcs)
                                                       (2 sets)
                LA 3-27 Wire stripper
                                                       (2 pcs)
                LA 3-35-3 Hose
LA - 11
LA - 12
LA - 13
                Following Missing:
                LA 1-4-4 Standard sample (polystyrene) (1 set)
                Following Missing:
LA - 14
                                                       (1 set)
                LA 1-2-14 Power supply unit
LA - 15
                Following Missing:
                                                     (1 set)
                IA 1-1-9 Glass nebulizer
                                                       (I set)
                LA 1-1-10 Glass chamber
                                                       (1 set)
                LA 1-1-12 Penley lamp
                                                       (1 set)
                LA 1-1-13 Input pipe
LA - 16
LA - 17
LA - 18
LB - 1
LB - 2
                water found in the polisher.
                LB 1-14-1 Head to be replaced.
LB - 3
LB - 4
                Following Missing:
                                                       (1 set)
                LB 1-8-7 Calibration specimen SS-G
                LB 1-8-9 Chart paper
                                                       (1 roll)
                LB 1-8-10 Lubriacant
                                                       (1 pc)
                                                       (1 set)
                LB 1-18-2 Standard Accessories
                     18-3 Comparison electrode
                                                       (1 pc)
                                                       (1 pc)
                     18-4 Pt electrode
                                                        (3 pcs)
                     18-5 Injector
                                                        (1 set)
                     18-7 Electrolyte cell
                     18-8 Thermometer 0-50°C
                                                        (1 pc)
                                                        (1 pc)
                     18-10 Kcl solution
                                                        (1 pc)
                     18-11 Electrolyte solution
```

```
(1 pc)
               LB 1-5-4 Stepdown transformer
                                                     (1 pc)
               LB 1-6-2 · Timer 690
                    6-4 Stemdown transformer
                                                     (1 pc)
                                                   (1 pc)
                    6-4 Color Analyzer
                                                     (1 pc)
                        Lens 50 mm
LB - 5
LB - 6
R - 1
R - 2
R - 3
R - 4
R - 5
               Following Missing:
               H 2-019 Level gauge for T-101 1450
               Following Missing:
R - 6
               H 2-021 (2 pcs) Level gauge for T-201 L1150 (1 pc)
               Following Missing:
R - 7
               H 2-022 (2pcs) Level guage for T-202 L100 (1 pc)
               One switch cover broken
R - 8
R - 9
R - 10
R - 11
               Following Missing:
               H 2-007 Anchor Bolt and nut MI6 x200L
                                                          (3 pcs)
                         " " " for each tank
                                                        (23 pcs)
                  -023
                  -029 Ball valve (P-102) 2-1/2 B-PVC-FF
                                                          (1 pc)
                                                         (1 pc)
                  -198 Gasket (G.C.) 206s 0.6t
                  -199 Gasket (S.C.) 201S 0.1t
                                                          (2 pcs)
                  -310 Level switch LSA-102-2850L
                                                          (1 pc)
                                   LSA-201-1450L
                                                         (1 pc)
                  -311
                         " LSA-301-1450L
                  -312
                                                          (1 pc)
               M5. O5 O-Ring SX-2 NBR
                 . 06 O-Ring SX-3 NBR
                 . 07 Fuse 5A glass
                 . 08 O-Ring G-30 viton
                                              (14 pcs)
R - 12
R - 13
R - 14
```

```
R - 15
M - 1
M - 2
M - 3
M - 4
M - 5
                Following Missing:
                HM - 02 spare parts
                                                  (2 sets)
                   - 03 spare parts
                                                  (2 sets)
                    - 22 spare parts
                                                  (2 sets)
                    - 23 spare parts
                                                  (2 sets)
                    - 24 spare parts
                                                  (2 sets)
                   - 25 spare parts
                                                  (2 sets)
M - 6
M - 7
M - 8
M - 9
M - 10
M - 11
M - 12
M - 13
M - 14
M - 15
M - 16
M - 17
M - 18
M - 19
M - 20
M - 21
                Following Missing:
                SK - 234 PT-506 pr.Transmitter
                                                  (1 pc)
                   - 237 PT-506, 605, 606
                                                  (3 pcs)
                          (oval flange)
                                                  (2 pcs)
                   - 241 pH-Sensor
M - 22
M - 23
M - 24
```

M - 25

```
Following Missing:
M - 26
                                                   (1 pc)
                 OY - 02 Diaphram spare
                                                   (4 pcs)
                    - 03
                          Valve seat
                                                   (4 pcs)
                           Ball valve
                    - 04
                                                   (1 pc)
                          L-wrench
                    - 05
                                                   (1 pc)
                          Diaphragm spare
                    - 11
                                                   (4 pcs)
                          Valve Seat
                    - 12
                                                   (4 pcs)
                    - 13
                          Ball Valve
                                                   (1 pc)
                          L-wrench
                    - 14
                                                   (1 pc)
                    - 21
                          Diaphragm
                                                   (1 pc)
                    - 22
                          Valve seat
                                                   (4 pcs)
                    - 23
                          Ball valve
                                                   (1 pc)
                    - 24
                          L-wrench
                                                   (1 pc)
                    - 32
                          Diaphragm
                                                   (4 pcs)
                    - 33
                          Valve seat
                                                   (4 pcs)
                    - 34
                          Ball valve
                                                   (1 pc)
                          L-wrench
                    - 35
                                                   (1 pc)
                 SK - 254 Tubular level gauge
M - 27
M - 28
M - 29
M - 30
M - 31
M - 32
M - 33
M - 34
M - 35
M - 36
```

1.2 First Mission for Modification of Record of Discussion (R/D)





العامة لتحلية المياه المالحة

#### Minutes of meeting between SWCC and JICA

A meeting was held between SWCC and the visiting JICA delegation. The meetings were held from 27-31 july 1985.

The agenda for the meeting is attached as appendix-I

The points mentioned in the agenda were discussed in detail and the following agreement was reached between SWCC and JICA delegation as follows:

#### Extensioin of Term of Cooperation 1.

As the R/D will expire in 1986 it was proposed by JICA to extend . the term of cooperation. SWCC has agreed in principle to extend the R/D as the activities under the R/D has not started yet. SWCC requested JICA to communicate officially with H.E. the governor concerning the extension. JICA has submitted a letter in this regard to H.E. The Governor on 31 July 1985.

#### Extablishment of JTT

SWCC has several times asked JICA to nominate a person to establish the JTT see minutes of meeting of 5 Aug. 1984, Nov. 20, 1984, 29 Aug. 1983 Now JICA has proposed to nominate a person in establishing the Further JICA has proposed to have two members of JTT instead of one as agreed in the R/D refer to Annex IV of R/D. One member of JTT will be for Research activities and the second

member will be for training activities. SWCC has agreed to have two members from JICA as JTT shown in "Staffing of Japanese experts in the project" Appendix-II and has asked JICA to communicate officially proposing an amendment to R/D Annex IV. JICA has submitted a letter in this regard to H.E. The Governor on 31 July 1985.

#### Nomination and Assignment of Personnel 3.

As this point is a repeatition of item 2 it was agreed to delete this item from the Agenda.

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) •	Attachs (	المرفقات (	Date (	 Rel التاريخ (	. (	رقم (

p. O. Boy 9089 Plyedh 11432 - Telev 20390772004017204699

الرياض - العليا - شارع التحلية - ت . Riyadh - Olia - Aliahleeh Street - Tel. 4632070/4631763/4631780 ٤٦٣٢٠٧٠/٤٦٣١٧٦٣/٤٦٣١٧٨٠ ص ب ١٦٨٥ الرياض ١١٤٣٢ - تلكر ١٦٠٠١ ١٠٠٠ ٢٠١٢ ١٠٠٠ ٢٦٠

# Kingdom of Saudi Arabia Saline Water Conversion Corp.



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#### Research

#### 1- Storage Condition of Plant and Research Equipment

The JICA delegation visited Medina-Yanbu desalination plant to inspect the storage of equipment sent by JICA for research activities on July 29.

SWCC enquired about the missing items from the equipment which were sent by JICA. JICA replied that the missing items will be sent to SWCC in the near future.

#### 2- Dispatch of Mr. Sakamoto

JICA has proposed the nomination of Mr. Sakamoto as a JTT member for research activities and he will be sent to SWCC by the end of 1985. SWCC has agreed to receive Mr. Sakamoto as JTT member and at that time will name a counterpart for Mr. Sakamoto.

Certain conditions were proposed by JICA to send Mr. Sakamoto which were amended and agreed by SWCC after discussion and are attached as Appendix-III.

#### Training

#### 1- Specification of Equipment For Training

JICA has submitted two sets of documents list attached as Appendix-IV which consist of specifications of training equipment and related documents.

SWCC will study these documents and notify JICA of their comments on them within three months from now.

#### 2- Master Plan and Tentative Schedule of Implementation

The minimum qualification of trainees for operation and maintenance courses will be high school graduates. The master plan and tentative schedule was discussed in detail for the implementation of the training activities. After discussions the proposed Master Plan and tentative schedule was modified it is attached as Appendix V. Training Department will review the Master Plan and respond accordingly.

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	الناريخ ( ) Date	رقم ( ) Ref.

# Kingdom of Saudi Arabia Saline Wateter Conversion Corp.



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## 3- Demarcation of Some Equipments between JICA and SWCC

JICA submitted the demarcation of equipments between SWCC and JICA. The document is attached as Appendix-VI. The proposed ratio of distribution between SWCC and JICA is 55% and 45%. As per R/D this should have been 61.4% and 38.6%.

SWCC requested JICA to assist in the procurement of equipment from Japan which are to be bought by SWCC. JICA will respond after consultations in Japan.

The following personnel from SWCC and JICA attended the meetings.

#### SWCC

Mr. Abdullah A. Al-Azzaz d

Mr. Moflih Al-Shaghathrah

Mr. Habeeb Mohammed Halaseli

Abdullah A. Al-Hussayen Deputy Governor (Acting) For Technical Affairs and Projects

#### JICA

#### Research

Mr. Hideki Nakamura H. Robert

Mr. Katsuhiki Ozawa Sum

#### Training

Mr. Kouichi Igarash

Mř. Kazuaki Hayashi

Mr. Keizo Orihashi K 100/101

Mr. Harno Suzuki Leader of JICA Mission for the Research Center

Mr. Hidetoshi Yaoi Leader of

JICA Mission for the Training Center

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Riyadh - Olia - Altahleeh Street - Tel, 4632070/4631763/4631780 P. O. Box 5968 Riyadh 11432 - Telex 200097/200401/204699 الرياض - السليا - شارع التحلية - ت ١١٤٧٠ / ٤٦٣١٧٦٢ / ٤٦٣١٤ و ٢٣٢٠ ٧٠ / ٤٦٣١٧٦ - تلكس ٩٦٧٠ . ١١٤٠٠ - ٢-٦٤-٣

# APPENDIX-I

AGENDA

This agenda is prepared by JICA for the smooth and fruitful discussions on the Technical Cooperation of Sea Water Desalination Project between the JICA mission and SWCC.

#### General_

- Proposal: Record of Discussions (12th January, 1982) shall be extended as per Article 15. of the R/O in this coming autumn between JICA and SWCC.
- 2. ESTABLISHMENT OF JOINT TECHNICAL TEAM (JTT)
- 3. MOMINATION AND ASSIGNMENT OF PERSONNEL

  Proposal: JICA and SWCC should nominate and assign personnel of the

  Project as stipulated in ANNEX IV of the R/D at least by
  the end of 1985.

#### Research

- 1. STORAGE CONDITION OF PLANT AND RESEARCH EQUIPMENT
- 2. DISPATCH OF MR. SAKAHOTO

Proposal: JICA will dispatch Mr. Sakamoto, a member of JTT, as soon as

possible on the condition that SWCC should fulfill some requests from JICA, which shall be submitted to SWCC in writting in the course of discussions.

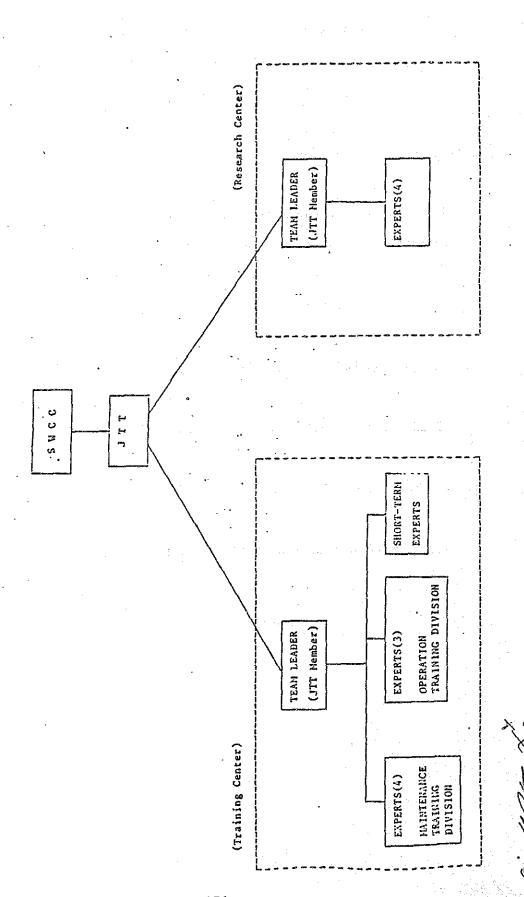
#### Training

- 1. SPECIFICATION OF EQUIPMENTS FOR TRAINING
  - Proposal: The JICA mission will explain the specification, which contributes to the designation and construction of Training

    Center building.
- 2. MASTER PLAN AND TENTATIVE SCHEDULE OF IMPLEMENTATION
- 3. DEHARCATION OF SOME EQUIPMENTS BETWEEN JICA AND SWCC
- 4. DEHARCATION OF EQUIPMENT INSTALLATION BETWEEN JICA AND SWCC
- 5. PROCUREMENT OF SOME EQUIPMENTS TO BE UNDERTAKEN BY SWCC



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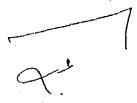
- 176 -

#### Appendix - III

# CONDITIONS OF DISPATCHING A MEMBER OF THE JOINT TECHNOAL TEAM (JTT) FROM JICA TO SWCC

In connection with dispatching a member of JTT to SWCC, JICA requests to SWCC to take the following measures until the both parties agree to the definition and function of JTT, and the comprehensive conditions for Japanese members (JTT members, researchers, engineers, and instructors) of the Project:

- (1) Providing suitable accommodation in Riyadh, as the main working place will be Riyadh until the completion of the laboratory building;
- (2) Providing a car with driver for official use;
- (3) Providing free medical treatment, hospitalization, and medicine at the government hospital when necessary;
- (4) Bearing the internal travel expenses;
- (5) Free use of office supplies, copying machine, and other SWCC'S facilities by the Japanese member;
- (6) Assigning a member (members) of JTT for the Project from SWCC side.



# APPENDIX - IV CONTENTS OF THE DOCUMENTS SUBMITTED TO SWCC TRAINING DEPARTMENT

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<u>No.</u>	Title	DMG. / DOCU. NO.	destrate.	Stance:
	SPECIFICATION OF THE EQUIPMENT PART.		A 4	(651)
2.	# PART • !	M 85-078(2/2)	A 4	(199)
3.	CATALOGUES OF THE EQUIPMENT	<b>#</b> 85-079	A - 4	(702)
4.	DRAWING OF THE EQUIPMENT	# 85-080	A - 3	( 34)
5.	UTILITY REQUIREMENT FOR TRAINING EQUIPMENT	Saj -t85105	A – 4	( 23)
6.	TRAINING EQUIPMENT HASTE WATER AND EXHAUST GASES	SAJ-T85107	A - 4	( 5)
7.	CONSUNABLES LIST	SAJ -T85108	A - 4	( 30)
8.	ESTIMATED MAN POWER AND CONSTRUCTION AIDS FOR EQUIPMENT INSTALLATION AND CONHISSIONING OF TRAINING CENTER	SAJ-T85109	A - 4	( 5)
9.	LIST OF RECOMMENDABLE FURNITURE FOR TRAINING CENTER		A - 4	( 21)

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# APPENDIX - Y

TRAINING MASTER PLAN

FOR

THE PROJECT

ON

SEA WATER DESALINATION TECHNOLOGY

TRAINING CENTER

SALINE WATER CONVERSION CORPORATION

## I. TRAINING COURSE

The training Center conducts seven (7) training courses with a batch of fifteen (15) trainees as shown in the following table.

Course	Training Course Tr	ainee/year
Maintenance Training Course	(1) Mechanical Maintenance Course	15
	(2) Piping Equipment Maintenance Course	15
	(3) Electrical Equipment Maintenance Course	15
	(4) Intrumentation Maintenance Course	15
Operation	(5) Boiler Plant Operation Course	15
Training Course	(6) Steam Turbine & Power Generator Operation Course	15
	(7) Desalination Plant Operation Course	15 .
	Total	105

## 2. TRAINING TERM

The training terms of each course are one (1) year.

# 3. INTAKE QUALIFICATION OF TRAINEE

## 3-1. Maintenance Training

The trainee should be those who graduated from high school and passed the entrance examination of the Training

Center,

#### 3-2. Operation Training

The trainee should be those who graduated from high school and passed the entrance examination of the Training Center.

#### 4. TRAINING TARGET

The targets of the each training course are mainly to provide the trainees the required knowledge and skills according to the curricula so as;

#### 4-1. Mechanical Maintenance Course

- (1) to maintain and adjust machines and equipment auch as turbine, blower, pumps, heat exchanger, etc.
- (2) to cut and repair parts of machines and equipment by machine tools.

#### 4-2. Piping Equipment Maintenance Course

- to cut, disassemble, assemble and inspect pipes, valves, pipe flanges, etc.
- (2) to weld pipes and repair.
- (3) to conduct non-destructive test.

## 4-3. Electric Equipment Maintenance Course

- (1) to conduct wiring installation and its check operation on switchboard and control panel.
- (2) to disassemble, assemble, repair and adjust electric equipment.

## 4-4. Instrumentation Maintenance Course

- (1) to conduct measurements by instruments.
- (2) to disassemble and assemble industrial instruments.
- (3) to repair and adjust industrial instruments.

## 4-5. Boiler Plant Operation Course

- (1) to operate boiler and to understand its principle.
- (2) to conduct daily maintenance and repair such as water

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treatment, scale gleaning and anti-rust measures.

- 4-6. Steam Turbine and Power Generator Operation Course
  - (1) to operate steam turbine and power generator based on their principles.
  - (2) to understand the structures of turbine and generator.
  - (3) to take countermeasures against emergencies and troubles.
- 4-7. Desalination Plant Operation Course
  - (1) to operate desalination plant.
  - (2) to understand the principles regarding desalination and water treatment such as the process of removal of minerals and organic materials from sea water.

#### 5. JAPANESE EXPERT

- 5-1. Team leader (JTT Member) (1 person)
- 5-2. Experts (7 persons)

  The experts in the fields of;
- (1) Maintenance Training Division
  - (i) Mechanical maintenance
  - (ii) Piping equipment maintenance
  - (iii) Electric equipment maintenance
  - (iv) Instrumentation maintenance
- (2) Operation Training Division
  - (i) Boiler plant operation
  - (ii) Steam turbine & power generator operation
  - (iii) Desalination plant operation

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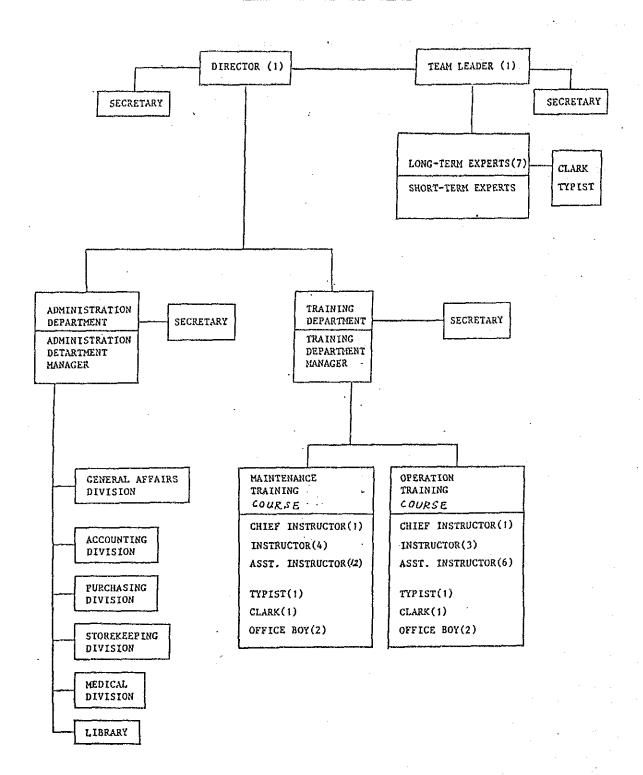
# 5-3. Short-Term Experts

The short-term experts may be dispatched when necessity arises, for the smooth implementation of the training.

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#### TRAINING CENTER ORGANIZATION



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# APPENDIX- V TENTATIVE SCHEDULE OF IMPLEMENTATION

Year Item	1985	1986	1987	1988	1989
Term of Co-operation		-4			
1. Team Leader 2. Experts (1) Maintenance course (2) Operation course		1/1			
Counterpart Training (1) Director (2) Instructor		1/4 6m	31/10		
Machinery and equipment from JICA		1			
Building construction	1/9	<del></del>	31/8		
Installation of machinery and equipment			1/9 30	/4	
Training course (1) Maintenance course			1/2		<del></del>
(2) Operation course		*	1/2		1
Assignment of SWCC staff (1) Director		1/1			1
(2) Instructors		1/3			
(3) Admin. staff		1/7			
Teaching material development	*	1/10 30/4	30/11		
Curriculum development	**				

^{*} JICA will submit to SWCC drafts of teaching material such as Text books, instruction manuals, job sheets and curriculum in six months after receiving comments on the equipment specifications from SWCC. SWCC will send comments in three months i.e. by Oct. 1985 and receive the drafts of teaching material by April 1986 for translation into Arabic.

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# APPENDIX - VI

# Course-wise Summary of Estimated Price

Basis of Estimation: Ex-Godown, Yokohama, JAPAN

Unit : US\$

Ex. Rate: #230/US\$

			ry. Mare : 4 cas, co a
CODE	Concerned Course	Estimated Price	Remarks
SW-1	Mechanical Maintenance	226,509	
SW-2	Piping Maintenance	214,126	
S W - 3	Electrical Maintenance	182,800	
SW-4	Instrumentation Maintenance	314,800	
	Sub-Total	938,235	
SW-5	Plant Operation	496,174	Mini Plant A, B
SW-6	Plant Operation	278,878	Plant Simulator
sw-7	Plant Operation	242,735	
SW-8	Audio-Visual Aids	128,000	Common for all courses
	Sub-Total	1,145,787	
(	rand Total	2,084,022	

llem	Unit	S W - 1	S W - 2	SW-3	S W - 4	S W - 5	3 W - 6	S W-7	S W - 8	10 2
Ex-Codoun Price	us 🕏	226,509	214,128	182,800	314,800	496,174	278,878	242,735	128,000	2,084,022
Packing Charge	*	1	·,	1	J	1	J	1	1	
Shipping Charge	*	2,139	1,826	1,826	1,828	6,522	130	3,443	783	18,495
(Approx. Gross Weight)	(MT.)	(NT.)( 20.14)	( 18.27 )	( 14.27 )	8.52 )	( 20.12 )	( 1.2)	1.5	4.8	(88.82
(Approx. Gross Heasurement)	)( ea )	( 123 )	( 105 )	( 105 )	( 105 )	( 375 )	( 7,5)	( 193 )	45	( 1058,5
FOR JAPAN	us \$	228,648	215,952	184,626	316,626	502,696	279,008	246,178	128,783	2,102,517
Estimaled Insurance	٠.	1,874	1,757	1.52	ω. Ω.	4,261	2,104	5,104	1,026	17,181
Estinated Ocean Freight	*	21,391	18,261	18,261	18,261	65,217	1,305	33,566	7,826	184,957
Estimated CIF YANBU	"	251,913	235,970	204,408	337,400	572,174	282,417	281,848	137,635	2,303,765

Note 1) Estimated Unit Rale: US\$174/m3 Ocean Freight



²⁾ Packing Charge is included in Ex-Godown Price 3) Exchange Rate: ¥230/US\$

2. LIST OF ADDITIONAL LABORATORY EQUIPMENT

2. LIST OF ADDITIONAL LABORATORY EQUIPMENT

No.	Equipment Name	Quantity	Remarks
<u> </u>	Ion Chromatograph (1) Measuring System (2) Recorder (3) Data Processor (4) Accessories and Spares	1 (1 set) (1) (1 set) (1 set)	These devices are used to conduct qualitative and quantitative analysis of positive and negative ions contained in seawater, concentrated seawater, produced water, waste water, etc. The results are employed in evaluating the MSF and RO processes for performance.
1-2	Total Organic Carbon Analyzer  (1) Measuring System  (2) Microsyringes (10, 50, 100 ml.; 3 each)  (3) Spares and Consumables	1 (1 set) (1 set) (1 set) (1 set)	This device is used to conduct quantitative analysis of total carbon and total organic carbon contained in seawater, concentrated seawater, produced water waste water, etc. The objective of the analysis is to measure the overall quantity of those pollutants such as oil that cause reverse osmosis membranes to clog and deteriorate as well as produce sludge and scale in evaporators.
1–3	Biological Microscope  (1) Measuring System  (2) Devices for Adjusting samples  (3) Consumables	1 (1 set) (1 set) (1 set)	These devices are used to observe microorganisms (planktons, bacteria, etc.) that exist in seawater and pretreated water for their effects on the pretreatment unit and reverse osmosis membranes.
1-4	High Performance Liquid Chromatograph (1) Measuring System (2) Data Processor (3) Columns and Fillers (4) Spares	1 (1 set) (1 set) (1 set) (1 set)	These devices are used to conduct component anaysis of organic chemicals such as descaling and coagulating agents in order to check their relationship with overall performance.

No	Equipment Name	Quantity	Remarks
1 55	Particle Counter (1) Measuring System (2) Measuring System	1 (1 set) (1 set)	This analyzer is used to count fine grains contained in seawater and pretreated water. Once the distribution of fine grains is found out, their effects on the pretreatment unit and reverse osmosis membranes are investigated.
1-6	Fouling Index Measuring Kit	l set	This kit is used to check the fouling index of the seawater introduced into the reverse osmosis process.
1-7	High-pressure Sterilizer	-	This device is used to sterilize instruments employed in bacterial test as well as to conduct chemical analysis at high temperatures.
1-8	Water Samplers	1 set	These samplers are used to count live germs that exist in seawater and pretreated water.
1-9	Jar Tester		This tester is used to test coagulating agents for coagulation capability.
1-10	Low-temperature Thermostatic Chamber	1	This device is equipped with an external circulating pump (2 m of head, 10 1/min. or more of flow rate) for analysis in general tests. The accuracy for temperature adjustment is within $\pm 0.05^{\circ}$ C, and the temperature distribution is $0.1^{\circ}$ C or less.
11-11	Cooler for Constant Temperature Water-bath.	park	This is an immersion-type chiller for use in general tests and analysis. The cooling capacity is 80 kcal/hr or more.

Equipment Name  Centrifugal Separator  Centrifugal Separator for use in general analysis. A total of 20 decanters (50 or 100 ml. each) are provided.  Shaker  I This is an oscillating type shaker for use in general analysis (in horizontal and vertical setups). A 60-
. 1 This is a general a general a each) are
1 This is analysis
minute timer is provided.
Reference Thermometer, made of glass, is used to calibrate other thermometers. (The thermometer is certified by the Measurement Laboratory of Japan.)
1 This is an aneroid barometer certified by the Meteorological Agency of Japan.
1 This machine is used to make ice for test purposes. The capacity is 50 to 100 kg of ice per day.
ium Instruments  1 set

