		HEIGHT : 6,800MM		
5F14	STEAM SUPER HEATER	VERTICAL CAPACITY : 6TON/HR PRESSURE : 30Kg/Cm^2 TEMP. : 300C HEATING AREA : 28M^2	1	
6F14	STEAM SUPER HEATER	VERTICAL CAPACITY : 6TON/HR PRESSURE : 30Kg/Cm^2 TEMP. : 300C HEATING AREA : 28M^2	1	
7F14	ECONOMIZER	HORIZONTAL HEATING AREA : 82M^2 DIA : 80MM LENGTH : 3,500MM TEMP. : 20C ROOF PIPE : 32	1	
8F14	ECONOMIZER	HORIZONTAL HEATING AREA : 82M^2 DIA : 80MM LENGTH : 3,500MM TEMP : 20C ROOF PIPE : 32	1	
9F14	FUEL OIL HEATER	HORIZONTAL DIA : 450MM LENGTH : 1,550MM	1	
10F14	FUEL OIL HEATER	HORIZONTAL DIA : 450MM LENGTH : 1,550MM	1	
11F14	FUEL OIL PUMP	GEAR TYPE MOTOR DIRECT DRIVEN CAPACITY : 1,100L/HR	1	MOTOR MISSING
12F14	FUEL OIL PUMP	GEAR TYPE MOTOR DIRECT DRIVEN CAPACITY : 1,100L/HR	1	MOTOR MISSING
13F14	FUEL OIL PUMP	GEAR TYPE MOTOR DIRECT DRIVEN CAPACITY : 1,100L/HR	1	MOTOR MISSING

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
14F14	FUEL OIL PUMP	GEAR TYPE MOTOR DIRECT DRIVEN CAPACITY : 1,100L/HR	1	MOTOR MISSING
	~~MOTOR (FOR 11F14 PUMP)~~	~~220V 60-1,750R.P.M. 1HP~~		~~MISSING~~
	~~MOTOR (FOR 12F14 PUMP)~~	~~220V 60-1,750R.P.M. 1HP~~		~~MISSING~~
	~~MOTOR (FOR 13F14 PUMP)~~	~~220V 60-1,750R.P.M. 1HP~~		~~MISSING~~
	~~MOTOR (FOR 14F14 PUMP)~~	~~220V 60-1,750R.P.M.1HP~~		~~MISSING~~
15F14	FUEL OIL BURNER ~~MOTOR~~ MOTOR	DIRECT DRIVEN DIA.: 500mm LENGTH : 150mm 3HP CAPACITY : 340L/HR	1	MOTOR MISSING
16F14	FUEL OIL BURNER ~~MOTOR~~ MOTOR	DIRECT DRIVEN DIA : 500mm LENGTH : 150mm CAPACITY : 340L/HR 3HP	1	DO.
17F14	FUEL OIL BURNER ~~MOTOR~~ MOTOR	DRIVEN DIA OF FAN : 500mm LENGTH : 150mm 3 HP CAPACITY : 340L/HR	1	DO.
18F14	FUEL OIL BURNER ~~MOTOR~~ MOTOR	DRIVEN DIA OF FAN : 500mm LENGTH : 150mm CAPACITY : 340L/HR	1	DO.
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP~~ ~~2POLES 3,500R.P.M.~~		~~MISSING~~
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP~~ ~~2POLES 3,500R.P.M.~~		~~MISSING~~
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP~~ ~~2POLES 3,500R.P.M.~~		MISSING

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16F14	FUEL OIL BURNER ~~MOTOR~~ *MOTOR*	DIRECT DRIVEN DIA : 500mm LENGTH : 150mm CAPACITY : 340L/HR 3HP	1	*DO.*
17F14	FUEL OIL BURNER ~~MOTOR~~ *MOTOR*	DRIVEN DIA OF FAN : 500mm LENGTH : 150mm 3 HP CAPACITY : 340L/HR	1	*DO.*
18F14	FUEL OIL BURNER ~~MOTOR~~ *MOTOR*	DRIVEN DIA OF FAN : 500mm LENGTH : 150mm CAPACITY : 340L/HR	1	*DO.*
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP 2POLES 3,500R.P.M.~~		MISSING
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP 2POLES 3,500R.P.M.~~		~~MISSING~~
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP 2POLES 3,500R.P.M.~~		MISSING
	~~MOTOR FOR BURNER~~	~~OPEN 220V 60-3HP 2POLES 3,500R.P.M.~~		MISSING
19F14	FEED WATER REGURATER	AUTOMATIC DIA OF PIPE : 100mm LENGTH : 3,000mm DIA OF REGURATER : 150mm	1	
20F14	FEED WATER REGURATER	AUTOMATIC DIA OF PIPE : 100mm LENGTH : 3,000mm DIA OF REGURATER : 150mm	1	
21F14	FEED WATER PUMP	MOTOR DRIVEN TURBINE 40HP HEAD : 340M;3,450R.P.M. CAPACITY : 168L/MIN	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
22F14	FEED WATER PUMP	MOTOR DRIVEN TURBINE 40HP HEAD : 340M : 3,450 R.P.M. CAPACITY : 168 L/MIN	1	
23F14	FEED WATER PUMP	STEAM DRIVEN SIMPLEX 210 x 150 x 450 mm PUMP CAPACITY : 10 TON/HR	1	
24F14	FEED WATER PUMP	STEAM DRIVEN SIMPLEX 210 x 150 x 450 mm PUMP CAPACITY : 10 TON/HR	1	CYLINDER BROKEN
25F14	FEED WATER PUMP	STEAM DRIVEN SIMPLEX 210 x 150 x 450 mm PUMP CAPACITY : 10 TON/HR	1	
26F14	FEED WATER PUMP	STEAM DRIVEN SIMPLEX 210 x 150 x 450 mm CAPACITY : 10 TON/HR	1	
27F14	FEED WATER PUMP	MOTOR DRIVEN TURBINE 40 HP 2,73M3/MIN	1	
28F14	FEED WATER PUMP	MOTOR DRIVEN TURBINE 40 HP 2.73 M3/MIN.	1	
29F14	MOTOR FOR PUMP	ENCLOSED TYPE 220 V 60-3 POLES 3 PHASE 3460 R.P.M. 40 HP	1	
30F14	MOTOR FOR PUMP	ENCLOSED TYPE 220 V 60-3 POLES 3 PHASE 3460 R.P.M. 40 HP	1	
~~31F14~~	~~TRANS.FORMER~~	~~OUT DOOR CAPACITY : 3 KV~~ ~~PRIMARY VOLT : 3450 V~~ ~~VOLTAGE : 210 V-110V~~	~~1~~	
ITEM No ~~None~~ 373	~~2 pcs of~~ STOP VALVES 5"	BODY : CAST STEEL FACE TO FACE : 420mm	2 2	
" 3740	~~3 pcs of~~ STOP VALVES 4"	BODY : CAST STEEL FACE TO FACE : 350mm	3 3	
" 374/	~~3 pcs of~~ SAFETY VALVES 3"	BODY : CAST STEEL	2 2	

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29F14	MOTOR FOR PUMP	ENCLOSED TYPE 220 V 60-3 POLES 3 PHASE 3460 R.P.M. 40 HP	1
30F14	MOTOR FOR PUMP	ENCLOSED TYPE 220 V 60-3 POLES 3 PHASE 3460 R.P.M. 40 HP	1
~~31F14~~	~~TRANS-FORMER~~	~~OUT DOOR CAPACITY : 3 KV~~ ~~PRIMARY VOLT : 3450 V~~ ~~VOLTAGE : 210 V-110V~~	~~1~~
ITEM No			
~~None~~ 3739	~~2 pcs of~~ STOP VALVES 5"	BODY : CAST STEEL FACE TO FACE : 420mm	2 2
" 3740	~~3 pcs of~~ STOP VALVES 4"	BODY : CAST STEEL FACE TO FACE : 350mm	3 3
" 3741	~~2 pcs of~~ SAFETY VALVES 3"	BODY : CAST STEEL	2 8
" 3742	~~2 pcs. of~~ AUTOMATIC 3" VALVE 3"	BODY : CAST IRON	2 8
" 3743	~~9 pcs of~~ SLUICE VALVES 3"	BODY : CAST IRON FACE TO FACE : 200mm	9 8
" 3744	~~2 pcs of~~ SLUICE VALVES 3"	BODY : CAST IRON FACE TO FACE : 175mm	7 ~~12~~
" 3745	~~2 pcs of~~ ANGLE VALVES 3"	BODY : CAST IRON FACE TO FACE : 330mm	7 8

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
~~None~~ ITEM No 3746	~~2 pcs. of~~ CONTROLL VALVES 2½"	BODY : CAST STEEL FACE TO FACE : ~~330~~ 325mm	2	
" 3747	~~4 pcs. of~~ STOP VALVES 2"	BODY : BRONZE FACE TO FACE : ~~325~~ 150mm	1/4	
" 3748	~~2 pcs. of~~ SLUICE VALVES 2"	BODY : CAST IRON FACE TO FACE : 120mm	2	
" 3749	~~7 pcs. of~~ STOP VALVES 2"	BODY : CAST STEEL	7	
" 3750	~~18 pcs. of~~ STOP VALVES 2"	BODY : CAST STEEL	18	
" 3751	~~4 pcs. of~~ RELEY VALVES 2"	BODY : CAST STEEL	4	
" 3752	~~12 pcs. of~~ STOP VALVES 1½"	BODY : BRONZE	13	
" 3753	~~9 pcs. of~~ STOP VALVES 1"	BODY : CAST STEEL FACE TO FACE : 140mm	9	
" 3754	~~8 pcs. of~~ ANGLE VALVES 1"	BODY : CAST IRON	8	
" 3755	~~4 pcs. of~~ ANGLE VALVES 3/4"	BODY : CAST IRON	4	
" 3756	~~4 pcs. of~~ STOP VALVES ½"	BODY : CAST STEEL FACE TO FACE : 135mm	4	
" 3757	PIPE (STEAM)	O.D. : 139mm TOTAL LENGTH : 18M	1	
" 3758	PIPE (STEAM)	O.D. : 109mm TOTAL LENGTH : 23M	1	
" 3759	PIPE (STEAM)	O.D. : 83mm TOTAL LENGTH : 42M	1	
" 3760	PIPE (WATER)	NOMINAL SIZE : 75mm TOTAL LENGTH : 30M	1	
" 3761	PIPE (STEAM)	O.D. : 58mm TOTAL LENGTH : 50M	1	
" 3762	PIPE (STEAM)	O.D. : 42mm TOTAL LENGTH : 55M	1	

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" 3755	~~4 pcs~~ ANGLE VALVES 3/4"	BODY	:	CAST IRON	4
" 3756	~~4 pcs~~ STOP VALVES ½"	BODY FACE TO FACE	: :	CAST STEEL 135mm	4
" 3757	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	139mm 18M	1
" 3758	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	109mm 23M	1
" 3759	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	83mm 42M	1
" 3760	PIPE (WATER)	NOMINAL SIZE TOTAL LENGTH	: :	75mm 30M	1
" 3761	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	58mm 50M	1
" 3762	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	42mm 55M	1
" 3763	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	32mm 30M	1
" 3764	PIPE (STEAM)	O.D. TOTAL LENGTH	: :	26mm 20M	1

~~Sub Total~~

~~Quantity 124~~

~~Items 56 59 66~~
~~124~~

Sub Total

Item 56 (124 Pieces)

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DUO-SOL EXTRACTION PLANT (15-5-6)

(EVALUATION SHEET NO. 463-513)

WORK

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
706 6(17)	STEAM TURBINE	NO OF NOZZLE : 2PCS. HORSE POWER : 40H.P. P.R.M. : 3500 DIA : 250mm. STEAM PRESS : 7KG/CM^2	1	
707 6(16)	STEAM TURBINE	DITTO	1	
6 (12)	STEAM TURBINE	2 STAGE HORSE POWER : 90 ~~10~~ H.P. R. P. M. : 3600 DIA : 250mm STEAM PRESS : 7KG/CM^2	1	
703 5(12)	PROPANE COMPRESSOR HORIZONTAL RECIPROCATING TYPE	75 HP 2 STAGE SINGLE CYLINDER LOW PRESS CYLINDER DIA : 250mm HEIGHT PRESS CYL DIA : 130mm STROKE : 280mm	1	
709 6(7)	PROPANE COMPRESSOR HORIZONTAL RECIPROCATING	DITTO	1	
710	PUMP FOR CRUDE CHARGE WORTHINGTON	STEAM DRIVEN, ~~WORTHINGTON~~ DUPLEX PUMP SIZE : 350X150X300 CAP. : 300 GAL/MIN.	1	
711	PUMP FOR CRUDE CHARGE WORTHINGTON	STEAM DRIVEN PUMP SIZE : 350X150X300 CAP. : 300 GAL/MIN	1	
712 6(3)	PUMP FOR PROPANE CHARGE	CAPACITY : 35 L/S. CENTRIFUGAL, 2 STAGE, MOTOR DRIVEN	1	
713	PUMP FOR PROPANE CHARGE	CENTRIFUGAL, 2 STAGE	1	

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709 5(12)	PROPANE COMPRESSOR HORIZONTAL RECIPROCATING TYPE	2 STAGE SINGLE CYLINDER LOW PRESS CYLINDER DIA : 250mm HEIGHT PRESS CYL DIA : 130mm STROKE : 280mm	1	
709 6(7)	PROPANE COMPRESSOR HORIZONTAL RECIPROCATING	DITTO	1	
710	PUMP FOR CRUDE CHARGE WORTHINGTON	DUPLEX STEAM DRIVEN, ~~WORTHINGTON~~ PUMP SIZE : 350X150X300 CAP. : 300 GAL/MIN.	1	
711	PUMP FOR CRUDE CHARGE WORTHINGTON	STEAM DRIVEN PUMP SIZE : 350X150X300 CAP. : 300 GAL/MIN	1	
712 6(3)	PUMP FOR PROPANE CHARGE	CAPACITY : 35 L/S. CENTRIFUGAL, 2 STAGE, MOTOR DRIVEN	1	
713 6(4)	PUMP FOR PROPANE CHARGE	CENTRIFUGAL, 2 STAGE MOTOR DRIVEN CAPACITY : 35 L/S	1	
6 (6)	PUMP FOR PROPANE UNLOADING	STEAM DRIVEN SIMPLEX PUMP SIZE : 250X170X300	1	
714 6(1)	PUMP FOR SELECT CHARGE	CENTRIFUGAL, 4 STAGS CAPACITY : 16.5L/MIN	1	
715 6(2)	PUMP FOR SELECT CHARGE	DITTO	1	
6 (5)	PUMP FOR SELECT UNLOADING	STEAM DRIVEN, WORTHINGTON ~~TYPE~~ PUMPSIZE : 230X130X250	1	
6 (75)	PUMP FOR EXTRACTOR CIRCULATING	CENTRIFUGAL, 1-STAGE CAPACITY : 626L/S	1	MOTOR MISSING
6 (35)	PUMP FOR EXTRACTOR CIRCULATING	CENTRIFUGAL, 1-STAGE CAPACITY : 170KL/HR	1	BROKEN PART: BEARING CASE MOTOR MISSING

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
6 (72)	PUMP FOR EXTRACTOR CIRCULATING	CENTRIFUGAL, 1-STAGE CAPACITY : 186KL/HR	1	BROKEN PART:BEARIN CAST MOTOR : MISSING
6 (29)	PUMP FOR WASTE OIL	CENTRIFUGAL, 1-STAGE, MOTOR DRIVEN CAPACITY : 2L/SEC	1	
716 6(15)	PUM FOR P-1 HEATER CIRCULATING	CENTRIFUGAL, 2-STAGE CAPACITY : 12.5L/SEC TURBINE DRIVEN	1	
717	PUMP FOR P-1 HEATER CIRCULATING	CENTRIFUGAL, 2-STAGE TURBINE DRIVEN CAPACITY : 15.2L/SEC	1	
6 (13)	PUMP FOR P-2 HEATER CIRCULATING	CENTRIFUGAL, MOTOR DRIVEN CAPACITY : 0.55KL/MIN	1	MOTOR & MISSING
718 6(16)	PUMP FOR P-2 HEATER CIRCULATING	DITTO	1	
6 (8)	DRAWING PUMP FOR PURIFIED OIL	STEAM DRIVEN, SIMPLEX PUMP SIZE : 400X160X150	1	
6 (9)	DRAWING PUMP FOR PURIFIED OIL.	STEAM DRIVEN, SIMPLEX PUM SIZE : 400X160X150	1	
719	PUMP FOR N-1 HEATER CIRCULATING	CENTRIFUGAL, 2-STAGE, TURBINE DRIVEN CAPACITY : 43.8L/SEC	1	BEARING CASE: BROKEN
720	PUMP FOR N-1 HEATER CIRCULATING	DITTO	1	BEARING CASE:BROKEN
721 6(12)	PUMP FOR N-1 HEATER CIRCULATING	DITTO	1	
722	PUM FOR EXTRACT DISCHARGE	STEAM DRIVEN, SIMPLEX PUMP SIZE : 500X170X450	1	CONNECTION ARM: BROKEN
6 (11)	PUMP FOR EXTRACT DISCHARGE	STEAM DRIVEN, SIMPLEX PUMP SIZE : 500X170X450	1	

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6 (13)	CIRCULATING	CAPACITY : 0.55KL/MIN		
718 6(16)	PUMP FOR P-2 HEATER CIRCULATING	DITTO	1	
6 (8)	DRAWING PUMP FOR PURIFIED OIL	STEAM DRIVEN, SIMPLEX PUMP SIZE : 400X160X150	1	
6 (9)	DRAWING PUMP FOR PURIFIED OIL.	STEAM DRIVEN, SIMPLEX PUM SIZE : 400X160X150	1	
719	PUMP FOR N-1 HEATER CIRCULATING	CENTRIFUGAL, 2-STAGE, TURBINE DRIVEN CAPACITY : 43.8L/SEC	1	BEARING CASE: BROKEN
720	PUMP FOR N-1 HEATER CIRCULATING	DITTO	1	BEARING CASE:BROKEN
721 6(12)	PUMP FOR N-1 HEATER CIRCULATING	DITTO	1	
722	PUM FOR EXTRACT DISCHARGE	STEAM DRIVEN, SIMPLEX PUMP SIZE : 500X170X450	1	CONNECTION ARM: BROKEN
6 (11)	PUMP FOR EXTRACT DISCHARGE	STEAM DRIVEN, SIMPLEX PUMP SIZE : 500X170X450	1	
723 6(10)	PUMP FOR SELECT DISCHARGE	CENTRIFUGAL, MOTOR DRIVEN CAPACITY : 159KL/MIN	1	
724 6(14)	PUMP FOR SELECT DISCHARGE	DITTO	1	
725	PUMP FOR W.-3 WATER PUMP	STEAM DRIVEN, WORTHINGTON PUMP SIZE : 190X76X150 (75)	1	
8 (42)	HEAT EXCHANGER FOR EXTRACT(DRY SELECT)	SHELL & TUBE TYPE SHELL OUT DIA: 820mm LENGTH : 5,550mm TUBE MATERIAL: ADMIRALTY SURFACE : 195M^2	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
6 (55)	HEAT EXCHANGER FOR EXTRACT (DRY SELECT)	SHELL & Tube Type SHELL OUT DIA: 820 mm LENGTH : 5,550mm TUBE MATERIAL: ADMIRALTY SUREAGE : 195M	1	
6 (45)	HEAT EXCHANGER FOR PRODUCT OIL	SHELL & TUBE TYPE SHELL OUT DIA: 810mm LENGTH : 5,550mm AREA OF HEAT EXCHANGING SURFACE : 62.5M^2 SHELL : STEEL PLATE, WELDED	1	
6 (46)	HEAT EXCHANGER FOR PRODUCT OIL	DITTO	1	
6 (46)	HEAT EXCHANGER FOR PRODUCT OIL	DITTO	1	
6 (47)	HEAT EXCHANGER FOR PRODUCT OIL	DITTO	1	
6 (44)	HEAT EXCHANGER FOR EXTRACT (WET SELECT)	SHELL & TUBE TYPE SHEEL OUT DIA : 720mm LENGTH : 5,700mm TUBE MATERIALS: ADMIRALTY METAL, SHELL MATERIAL : ~~WELDED~~ STEEL PLATE, AREA OF HEAT EXCHANGING SURFACE : 125M^2	1	
6 (45)	HEAT EXCHANGER FOR EXTRACT(WET SELECT)	SHELL & TUBE TYPE SHELL OUT DIA: 720mm LENGTH : 5,700mm TUBE MATERIAL: ~~STEEL PLATE~~, ADMIRALTY AREA OF HEAT EXCHANGING SURFACE : 125M^2 SHELL MATERIAL: WELDED STEEL PLATE	1	
6 (58)	GENERATOR FOR PARAPHINIC VAPOUR	SHELL & TUBE TYPE SHELL OUT DIA: 760mm LENGTH : 5,200mm SHELL : STEEL PLATE, AREA OF HEAT EXCHANGING	1	

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6 (46)	HEAT EXCHANGER FOR PRODUCT OIL	DITTO	1
6 (47)	HEAT EXCHANGER FOR PRODUCT OIL	DITTO	1
6 (44)	HEAT EXCHANGER FOR EXTRACT (WET SELECT)	SHELL & TUBE TYPE SHEEL OUT DIA : 720mm LENGTH : 5,700mm TUBE MATERIALS: ADMIRALTY METAL, SHELL MATERIAL : ~~WELDED~~ STEEL PLATE, AREA OF HEAT EXCHANGING SURFACE : 125M^2	1
6 (45)	HEAT EXCHANGER FOR EXTRACT(WET SELECT)	SHELL & TUBE TYPE SHELL OUT DIA: 720mm LENGTH : 5,700mm TUBE MATERIAL: ~~STEEL PLATE~~, ADMIRALTY AREA OF HEAT EXCHANGING SURFACE : 125M^2 SHELL MATERIAL: WELDED STEEL PLATE	1
6 (58)	GENERATOR FOR PARAPHINIC VAPOUR	SHELL & TUBE TYPE SHELL OUT DIA: 760mm LENGTH : 5,200mm SHELL : STEEL PLATE, AREA OF HEAT EXCHANGING SURFACE : 40M^2	1
6 (59)	GENERATOR FOR PARAPHINIC VAPOUR	DITTO	1
6 (56)	GENERATOR FOR NAPHTHANIC VAPOUR	DITTO	1
6 (57)	GENERATOR FOR NAPHTHANIC VAPOUR	DITTO	1
6 (60)	GENERATOR FOR STEAM (SPARE)	HORIZONTAL SHELL & TUBE TYPE SHELL OUT DIA: 610mm LENGTH : 2,700mm TUBE MATERIAL: ADMIRALTY	1

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		AREA OF HEAT EXCHANGING SURFACE : 32M^2		
6 (61)	GENERATOR FOR STEAM (SPARE)	DITTO	1	
6 (38)	CONDENSER FOR PROPANE VENT	HORIZONTAL, SHELL & TUBE TYPE SHELL OUT DIA: 500mm LENGTH : 2,900mm AREA OF COOLING SURFACE : 14M^2	1	
6 (30)	CONDENSER FOR PROPANE	HORIZONTAL, SHELL & TUBE TYPE SHELL OUT DIA: 720mm LENGTH : 5,750mm TUBE MATERIAL: ADMIRALITY METAL AREA OF COOLING SURFACE : 144M^2	1	SHELL AND TUBE BROKEN 5 %
6 (31)	CONDENSER FOR PROPANE	DITTO	1	
6 (32)	CONDENSER FOR PROPANE	DITTO	1	
6 (33)	CONDENSER FOR PROPANE	DITTO	1	
6 (34)	CONDENSER FOR PROPANE	DITTO	1	SHELL AND TUBE BROKEN 10 %
726 6(73)	CONDENSER FOR W-1 WATER	VERTICAL, SHELL & TUBE TYPE SHELL OUT DIA: 1,100mm HEIGHT : 6,500mm	1	SHELL AND TUBE BROKEN 20 %
727 6(73)	CONDENSER FOR W-1 WATER	DITTO	1	
6 (41)	COOLER FOR MIXING OIL	HORIZONTAL SHELL & TUBE TYPE SHELL OUT DIA: 800mm LENGTH : 5,650mm TUBE MATERIAL: ADMIRALTY METAL COOLING SURFACE:185M^2	1	

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		AREA OF COOLING SURFACE : 144M^2		
6 (31)	CONDENSER FOR PROPANE	DITTO	1	
6 (32)	CONDENSER FOR PROPANE	DITTO	1	
6 (33)	CONDENSER FOR PROPANE	DITTO	1	
6 (34)	CONDENSER FOR PROPANE	DITTO	1	SHELL AND TUBE BROKEN 10 %
726 6(73)	CONDENSER FOR W-1 WATER	VERTICAL, SHELL & TUBE TYPE SHELL OUT DIA: 1,100mm HEIGHT : 6,500mm	1	SHELL AND TUBE BROKEN 20 %
727 6(73)	CONDENSER FOR W-1 WATER	DITTO	1	
6 (41)	COOLER FOR MIXING OIL	HORIZONTAL SHELL & TUBE TYPE SHELL OUT DIA: 800mm LENGTH : 5,650mm TUBE MATERIAL: ADMIRALTY METAL COOLING SURFACE: 185M^2	1	
6 (39)	COOLER FOR SELECT CHARGE	HORIZONTAL, SHELL & TUBE TYPE SHELL OUT DIA: 560mm LENGTH : 5,620mm TUBE MATERIAL: ADMIRALTY METAL, COOLING SURFACE: 92.5M^2	1	SHELL AND TUBE BROKEN 5 %
6 (40)	COOLER FOR SELECT CHARGE	DITTO	1	
6 (52)	COOLER FOR SELECT CHARGE	HORIZONTAL, SHELL & TUBE TYPE. SHELL OUT DIA: 560mm LENGTH : 5,800mm	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		TUBE MATERIAL: ADMIRALTY METAL COOLING SURFACE: 100m^2		
728 6(53)	COOLER FOR SELECT	DITTO	1	
729 6(53)	COOLER FOR SELECT	DITTO	1	
6 (54)	COOLER FOR SELECT	DITTO	1	
730	TRANSFORMER	50K.V.A.	1.	
731 6(3)	MOTOR SEMI CLOSED TYPE	A.C. INDUCTION MOTOR 75HP 3,520R.P.M. 3,300V., 60 Cycle	1	
732 6(4)	MOTOR SEMI CLOSED TYPE	DITTO	1	
733 6(1)	MOTOR CLOSED TYPE	A.C. INDUCTION MOTOR 100 H.P. 3520 R.P.M. 3.300 V 60 Cycle	1	
734 6(2)	MOTOR CLOSED TYPE	DITTO	1	
734	MOTOR CLOSED TYPE	DITTO	1	
735	MOTOR VERTICAL, CLOSED TYPE	A.C. INDUCTION MOTOR 7,5 H.P. 3,490 R.P.M. 220 V 60 Cycle	1	
736	MOTOR SEMI CLOSED TYPE	A.C. INDUCTION MOTOR 50 HP. 3,510 R.P.M. 200V. 60 Cycle	1	

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6(3)		75HP 3,520R.P.M. 3,300V., 60 Cycle			
732 6(4)	MOTOR SEMI CLOSED TYPE	DITTO	1		
733 6(1)	MOTOR CLOSED TYPE	A.C. INDUCTION MOTOR 100 H.P. 3520 R.P.M. 3.300 V 60 Cycle	1		
734 6(2)	MOTOR CLOSED TYPE	DITTO	1		
734	MOTOR CLOSED TYPE	DITTO	1		
735	MOTOR VERTICAL, CLOSED TYPE	A.C. INDUCTION MOTOR 7,5 H.P. 3,490 R.P.M. 220 V 60 Cycle	1		
736	MOTOR SEMI CLOSED TYPE	A.C. INDUCTION MOTOR 50 HP. 3,510 R.P.M. 200V. 60 Cycle	1		
737	MOTOR CLOSED TYPE	A.C. INDUCTION MOTOR 100 HP. 3,520 R.P.M. 3,300V. 60 Cycle	1		
738 6(12)	MOTOR CLOSED TYPE	DITTO	1		
739 6(10)	MOTOR CLOSED TYPE	A.C. INDUCTION MOTOR 40 HP. 3,500 R.P.M. 220V. 60 Cycle	1		
740 6(14)	MOTOR CLOSED TYPE	A.C. INDUCTION MOTOR 40HP 3,500R.P.M. 220V. 60Cycle	1		

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
741 5(12)	MOTOR SEMI CLOSED TYPE	A.C. INDUCTION MOTOR 75H.P. 875R.P.M. 3,300V 60Cycle 3o	1	
742 6(7)	MOTOR SEMI CLOSED TYPE	DITTO	1	
743	AIR CIRCUIT BRAKER	BOX SIZE : LENGTH 750mm WIDTH 1,120mm HEIGHT ~~1,520mm~~ 1,520 1200A. 250V.	1	
744	AIR CIRCUIT BRAKER	DITTO	1	
745	OIL SWITCH	BOX SIZE : LENGTH 600mm WIDTH 520mm HEIGHT 650mm 2,000A 200V	1	
746	NO.7 SWITCH BOX	BOX SIZE LENGTH : 600mm WIDTH : 410mm HEIGHT : 1,100mm 50H.P. 220V 300A	1	
747	NO.14 SWITCH BOX	BOX SIZE LENGTH : 600mm WIDTH : 410mm HEIGHT : 1,100mm 40H.P. 220V 200A	1	
748	NO.17A SWITCH BOX	DITTO	1	
749	NO. 17B SWITCH BOX	DITTO	1	
750	NO.21 SWITCH BOX	DITTO	1	
751	No. 24 SWITCH BOX	DITTO	1	
752	No. 23 SWITCH BOX	BOX SIZE LENGTH : ~~470mm~~ 450 WIDTH : 320mm HEIGHT : 950mm	1	

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		2,000A 200V			
746	NO.7 SWITCH BOX	BOX SIZE LENGTH : 600mm WIDTH : 410mm HEIGHT : 1,100mm 50H.P. 220V 300A	1		
747	NO.14 SWITCH BOX	BOX SIZE LENGTH : 600mm WIDTH : 410mm HEIGHT : 1,100mm 40H.P. 220V 200A	1		
748	NO.17A SWITCH BOX	DITTO	1		
749	NO. 17B SWITCH BOX	DITTO	1		
750	NO.21 SWITCH BOX	DITTO	1		
751	No. 24 SWITCH BOX	DITTO	1		
752	No. 23 SWITCH BOX	BOX SIZE LENGTH : ~~470~~ 450mm WIDTH : 320mm HEIGHT : 950mm 30HP. 220V 150A	1		
753	No. 18A SWITCH BOARD	BOX SIZE LENGTH : 850mm WIDTH : 400mm HEIGHT : 270mm 15HP 220V 75A	1		
754	NO. 18B SWITCH BOARD	BOX SIZE LENGTH : 850mm WIDTH : 400mm HEIGHT : 250mm 10HP. 220V 75A	1		

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
755	NO. 16 SWITCH BOARD	BOX SIZE LENGTH : 780mm WIDTH : 400mm HEIGHT : 250mm ¾.5HP. 220V 40A	1	
756	NO.26 SWITCH BOARD	DITTO	1	
757	NO.28A SWITCH BOARD	BOX SIZE LENGTH : 240mm WIDTH : 400mm HEIGHT : 780mm 3H.P. 220V. 20A	1	
758	NO.28B SWITCH BOARD	DITTO.	1	
759	NO.5 SWITCH BOARD	BOX SIZE LENGTH : 780mm WIDTH : 280mm HEIGHT : 210mm 2H.P. 220V 15A	1	
760	DISTRIBUTOR	BOX SIZE LENGTH : 1,600mm WIDTH : 850 mm HEIGHT : 170mm WITH 20 SWITCHS 250V. 30A	1	
761	DISTRIBUTOR	BOX SIZE LENGTH : 900mm WIDTH : 720mm HEIGHT : 115mm WITH 10 SWITCHES 250V 30A	1	COVER BROKEN
762	ELECTRIC BOARD	BOARD SIZE LENGTH : 2,950mm HEIGHT : 2,280mm OIL BRAKER : HIGH VOLTAGE 3,300V 300A LOW VOLTAGE 250V 2000A WITH 10 SWITCHES	1	

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		LENGTH : 780mm WIDTH : 280mm HEIGHT : 210mm 2H.P. 220V 15A		
760	DISTRIBUTOR	BOX SIZE LENGTH : 1,600mm WIDTH : 850 mm HEIGHT : 170mm WITH 20 SWITCHS 250V. 30A	1	
761	DISTRIBUTOR	BOX SIZE LENGTH : 900mm WIDTH : 720mm HEIGHT : 115mm WITH 10 SWITCHES 250V 30A	1	COVER BROKEN
762	ELECTRIC BOARD	BOARD SIZE LENGTH : 2,950mm HEIGHT : 2,280mm OIL BRAKER : HIGH VOLTAGE 3,300V 300A LOW VOLTAGE 250V 2000A WITH 10 SWITCHES 2 SWITCH : 250V 800A 3 SWITCH : 250V 200A 2 SWITCH : 250V 400A 1 SWITCH : 250V 100A 2 SWITCH : 250V 80A	1	
6 (63)	P-1 EVAPORATOR FOR PROPANE	VERTICAL, CYLINDERICAL TYPE DIAMETER : 1,820mm HEIGHT : 9,900mm WITH 4 TRAYS, APRON TYPE	1	HEAT INSULATION BROKEN ABOUT 50%
6 (65)	P-2 EVAPORATOR FOR CERECT	VERTICAL, CYLINDRICAL TYPE DIAMETER : 1,680mm HEIGHT : 10,300mm VOLUME : 18M^3 WITH 10 TRATS, APRON TYPE	1	HEAT INSULATION, BROKEN ABOUT 50%

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Inv. No.	Name of Machinery	Brief Specification	QUANTITY	Remarks
6 (64)	N-1 EVAPORATOR FOR PROPANE	VERTICAL, CYLINDRICAL TYPE DIAMENTER : 1,680mm HEIGHT : 12,200mm WITH 7 TRAYS, APRON TYPE	1	
6 (66)	N-2 EVAPORATOR FOR SELECT	VERTICAL, CYLIDRICAL TYPE DIA. OF UPPER PART: 1,850mm DIA.OF LOWER PART: 3,030mm TOTAL HEIGHT : 10,000mm NO. OF TRAYS : 7 TYPE OF TRAYS : APRON TYPE	1	
6 (69)	W-1 EVAPORATOR FOR WATER	VERTICAL CYLINDRICAL TYPE DIA OF UPPER PART : 2M DIA OF LOWER PART : 3M TOTAL HEIGHT : 9.25M NO. OF TRAYS : 5 TYPE OF TRAYS : APRON TYPE	1	
6 (67)	P-3 STRIPPER FOR SELECT	VERTICAL, CYLINDRICAL TYPE DIAMETER : 820mm HEIGHT : 7,650mm NO. OF TRAYS : 6 TYPE OF TRAYS : APRON TYPE	1	HEAT INSULATION BROKEN ABOUT 50%
6 (68)	N-3 STRIPPER FOR SELECT	DITTO	1	
6 (49)	EXTRACTOR	HORIZONTAL CYLINDRICAL TYPE DIAMETER : 1,690mm LENGTH : 13,700mm THICK OF SIDE PLATE : 32mm VOLUME : 30M^3	1	HEAT INSULATION BROKEN
6 (50)	EXTRACTOR	HORIZONTAL, CYL. TYPE DIAMETER : 1,380mm LENGTH : 13,700mm THICK OF SIDE PLATE: 25mm VOLUME : 36M^3	1	
6 (51)	EXTRACTOR	HORIZONTAL, CYL. TYPE DIAMETER : 1,220mm LENGTH : 13,700mm THICK OF SIDE PLATE: 22mm	1	SIDE PLATE BROKEN 5 %

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		NO. OF TRAYS : 5 TYPE OF TRAYS : APRON TYPE		
6 (67)	P-3 STRIPPER FOR SELECT	VERTICAL, CYLINDRICAL TYPE DIAMETER : 820mm HEIGHT : 7,650mm NO. OF TRAYS : 6 TYPE OF TRAYS : APRON TYPE	1	HEAT INSULATION BROKEN ABOUT 50%
6 (68)	N-3 STRIPPER FOR SELECT	DITTO	1	
6 (49)	EXTRACTOR	HORIZONTAL CYLINDRICAL TYPE DIAMETER : 1,690mm LENGTH : 13,700mm THICK OF SIDE PLATE : 32mm VOLUME : 30M^3	1	HEAT INSULATION BROKEN
6 (50)	EXTRACTOR	HORIZONTAL, CYL. TYPE DIAMETER : 1,380mm LENGTH : 13,700mm THICK OF SIDE PLATE: 25mm VOLUME : 36M^3	1	
6 (51)	EXTRACTOR	HORIZONTAL, CYL. TYPE DIAMETER : 1,220mm LENGTH : 13,700mm THICK OF SIDE PLATE: 22mm VOLUME : 16M^3	1	SIDE PLATE BROKEN 5 %
6 (62)	CRUDE MIXER	HORIZONTAL, CYLINDERICAL TYPE DIAMETER : 650mm LENGTH : 2,470mm VOLUME : 0,8M^3	1	
6 (26)	TANK FOR PROPANE STORAGE	HORIZONTAL CYLINDERICAL TYPE DIAMETER : 1,830mm LENGTH : 15,250mm THICK OF SIDE PLATE: 28mm CAPACITY : 40KL	1	
763 6 (27)	TANK FOR PROPANE STORAGE	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
764 6(27)	TANK FOR PROPANE STORAGE	HORIZONTAL, CYLINDRICAL TYPE DIA: 1,830 mm DITTO LENGTH: 15,250 mm THICK. OF SIDE PLATE: 28 mm CAPACITY: 500L	1	
6 (24)	TANK FOR SELECT STORAGE	VERTICAL, CYLINDRICAL TYPE DIAMETER : 5,500mm HEIGHT : 4,570mm CAPACITY : 16KL	1	
6 (25)	TANK FOR SELECT STORAGE	DITTO	1	BROKEN BY BULLET HOLES ON THE SIDE PLATE IS ABOUT 5%
6 (70)	W-2 TANK FOR WATER REFLUX	VERTICAL CYLINDRICAL TYPE DIAMETER : 2,440mm HEIGHT : 3,000mm CAPACITY : 14KL	1	BROKEN BY BULLET HOLES ON THE SIDE PLETE IS ABOUT 10%
6 (71)	W-3 WATER SEPARATOR	VERTICAL CYLINDRICAL TYPE DIAMETER : 2,440mm HEIGHT : 2,440mm CAPACITY : 11.5KL	1	BROKEN BY BULLET HOLES ON THE SIDE PLATE IS ABOUT 10%
6 (28)	BUTANE SEPARATOR	VERTICAL CYLINDERICAL TYPE DIAMETER : 610mm HEIGHT : 1,500mm CAPACITY : 9,44M^3	1	
6 (43)	SUCTION TRAP	VERTICAL, CYLINDRICAL TYPE DIA : 760mm HEIGHT : 1,860mm VOLUME : 0.8M^2	1	
6 (62)	TANK FOR SEAL OIL	VERTICAL CYLINDRICAL TYPE DIA : 1,670mm HEIGHT : 2,750mm THICK OF SIDE PLATE: 6mm CAPACITY : 6KL	1	
765	TANK FOR WASTE OIL	VERTICAL CYLINDRICAL TYPE DIAMETER : 910mm HEIGHT : 3,000mm CAPACITY : 2KL	1	

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		DIAMETER : 2,440mm HEIGHT : 2,440mm CAPACITY : 11.5KL		HOLES ON THE SIDE PLATE IS ABOUT 10%
6 (28)	BUTANE SEPARATOR	VERTICAL CYLINDERICAL TYPE DIAMETER : 610mm HEIGHT : 1,500mm CAPACITY : 9,44M^3	1	
6 (43)	SUCTION TRAP	VERTICAL, CYLINDRICAL TYPE DIA : 760mm HEIGHT : 1,860mm VOLUME : 0.8M^2	1	
6 (62)	TANK FOR SEAL OIL	VERTICAL CYLINDRICAL TYPE DIA : 1,670mm HEIGHT : 2,750mm THICK OF SIDE PLATE:6mm CAPACITY : 6KL	1	
765	TANK FOR WASTE OIL	VERTICAL CYLINDRICAL TYPE DIAMETER : 910mm HEIGHT : 3,000mm CAPACITY : 2KL	1	
6 (21)	P-1 HEATER	BADGER TYPE OIL HEATING, PIPE STILL NO. OF TUBES : 80PCS OUT DIA. : 127mm THICKNESS. : 9,5mm LENGTH : ~~7,010~~mm HEATER DIMENSION LENGTH : 6,700mm WIDTH : 3,120mm HEIGHT : 4,100mm	1	
6 (20)	P-2 HEATER	BADGER TYPE OIL HEATING, PIPI STILL NO. OF TUBE : 28PCS OUT DIA : 89mm THICKNESS : 8mm LENGTH : 6,705mm	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		HEATER DIMENSION LENGTH : 6,700mm WIDTH : 3,120mm HEIGHT : 4,100mm		
6 (22)	N-1 HEATER	BADGER TYPE OIL HEATING, PIPE STILL NO. OF TUBE : 112PCS OUT DIA : 152mm THICKNESS : 127mm LENGTH : 9,753mm HEATER DIMENSION LENGTH : 9,000mm WIDTH : 7,000mm HEIGHT : 5,500mm	1	FLOOR TUBE 16 PCS BROKEN
6 (23)	N-2 HEATER	BADGER TYPE OLD HEATING PIPE STILL NO. OF TUBE : 92PCS OUT DIA. : 152mm THICKNESS : 12.7mm HEATER DIMENSION LENGTH : 6,000mm WIDTH : 4,750mm HEIGHT : 4,700mm	1	FLOOR TUBE 11PCS BROKEN
6 (41)	COOLER FOR TAR AND OIL	BOX COOLER COIL COOLING TYPE COIL : 100mm GAS PIPE AREA OF COOLING SURFACE : ~~50M²~~ 80	1	
766	STEEL STRUCTURE	LENGTH : 33.5M WIDTH : 6M HELGHT : 9M	1	
767	12" GATE VALVE	BODY MATERIAL : CAST IRON VALVE MATERIAL: STAINLESS STEEL	1	VALVE COVER: BROKEN
768	10" GATE VALVE	BODY MATERIAL : STAINLESS STEEL VALVE MATERIAL: STAINLESS STEEL	1	
769	8" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL STAINLESS STEEL	1	

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		NO. OF TUBE : 92PCS OUT DIA. : 152mm THICKNESS : 12.7mm HEATER DIMENSION LENGTH : 6,000mm WIDTH : 4,750mm HEIGHT : 4,700mm		BROKEN	
6 (41)	COOLER FOR TAR AND OIL	BOX COOLER COIL COOLING TYPE COIL : 100mm GAS PIPE AREA OF COOLING SURFACE : ~~50M²~~ 86	1		
766	STEEL STRUCTURE	LENGTH : 33.5M WIDTH : 6M HELGHT : 9M	1		
767	12" GATE VALVE	BODY MATERIAL : CAST IRON VALVE MATERIAL: STAINLESS STEEL	1	VALVE COVER: BROKEN	
768	10" GATE VALVE	BODY MATERIAL : STAINLESS STEEL VALVE MATERIAL: STAINLESS STEEL	1		
769	8" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL STAINLESS STEEL	1		
770	8" GATE VALVE	DITTO	1		
771	8" GATE VALVE	DITTO	1		
772	8" GATE VALVE	DITTO	1	HANDLE : BROKEN	
773	8" GATE VALVE	DITTO	1		
774	8" GATE VALVE	DITTO	1	HANDLE : MISSING SPINDLE: BROKEN (STAINLESS STEEL)	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
775	8" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL ~~DITTO~~	1	HANDLE : MISSING SPINDLE: BROKEN (STAINLESS STEEL)
776	8" GATE VALVE	DITTO	1	
777	8" GATE VALVE	DITTO	1	
778	8" GATE VALVE	DITTO	1	
779	8" GATE VALVE	DITTO	1	
780	8" GATE VALVE	DITTO	1	
781	8" GATE VALVE	DITTO	1	
782	8" GATE VALVE	DITTO	1	
783	8" GATE VALVE	DITTO	1	
784	8" GATE VALVE	DITTO	1	
785	8" GATE VALVE	DITTO	1	
786	8" GATE VALVE	DITTO	1	
787	8" GATE VALVE	DITTO	1	
788	8" GATE VALVE	DITTO	1	
789	8" GATE VALVE	DITTO	1	
790	8" GATE VALVE	DITTO	1	HANDLE BROKEN
791	8" GATE VALVE	DITTO	1	HANDLE BROKEN
792	8" GATE VALVE	DITTO	1	HANDLE BROKEN
793	8" GATE VALVE	DITTO	1	HANDLE BROKEN
794	8" GATE VALVE	DITTO	1	HANDLE BROKEN
795	8" GATE VALVE	DITTO	1	HANDLE BROKEN
796	8" GATE VALVE	DITTO	1	

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783	8" GATE VALVE	DITTO	1	
784	8" GATE VALVE	DITTO	1	
785	8" GATE VALVE	DITTO	1	
786	8" GATE VALVE	DITTO	1	
787	8" GATE VALVE	DITTO	1	
788	8" GATE VALVE	DITTO	1	
789	8" GATE VALVE	DITTO	1	
790	8" GATE VALVE	DITTO	1	HANDLE BROKEN
791	8" GATE VALVE	DITTO	1	HANDLE BROKEN
792	8" GATE VALVE	DITTO	1	HANDLE BROKEN
793	8" GATE VALVE	DITTO	1	HANDLE BROKEN
794	8" GATE VALVE	DITTO	1	HANDLE BROKEN
795	8" GATE VALVE	DITTO	1	HANDLE BROKEN
796	8" GATE VALVE	DITTO	1	
797	8" GATE VALVE	DITTO	1	
798	8" GATE VALVE	DITTO	1	
799	8" GATE VALVE	DITTO	1	
800	8" GATE VALVE	DITTO	1	
801	8" GATE VALVE	DITTO	1	
802	8" CHECK VALVE	BODY MATERIAL : CAST IRON VALVE MATERIAL: STAINLESS STEEL	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
803	6" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL FACE TO FACE : 400mm.	1	
804	6" GATE VALVE	DITTO	1	
805	6" GATE VALVE	DITTO	1	
806	6" GATE VALVE	DITTO	1	
807	6" GATE VALVE	DITTO	1	HANDLE BROKEN
808	6" GATE VALVE	DITTO	1	HANDLE BROKEN
809	6" GATE VALVE	DITTO	1	HANDLE BROKEN
810	6" GATE VALVE	DITTO	1	HANDLE BROKEN
811	6" GATE VALVE	DITTO	1	
812	6" GATE VALVE	DITTO	1	
813	6" GATE VALVE	DITTO	/	
814	6" GATE VALVE	DITTO	1	
815	6" GATE VALVE	DITTO	1	
816	6" GATE VALVE	DITTO	1	
817	6" GATE VALVE	DITTO	1	
818	6" GATE VALVE	DITTO	1	
819	6" GATE VALVE	DITTO	1	
820	6" GATE VALVE	DITTO	1	HANDLE BROKEN
821	6" GATE VALVE	DITTO	1	HANDLE BROKEN
822	6" GATE VALVE	DITTO	1	HANDLE BROKEN

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811	6" GATE VALVE	DITTO	1		
812	6" GATE VALVE	DITTO	1		
813	6" GATE VALVE	DITTO	/		
814	6" GATE VALVE	DITTO	1		
815	6" GATE VALVE	DITTO	1		
816	6" GATE VALVE	DITTO	1		
817	6" GATE VALVE	DITTO	1		
818	6" GATE VALVE	DITTO	1		
819	6" GATE VALVE	DITTO	1		
820	6" GATE VALVE	DITTO	1	HANDLE BROKEN	
821	6" GATE VALVE	DITTO	1	HANDLE BROKEN	
822	6" GATE VALVE	DITTO	1	HANDLE BROKEN	
823	6" GATE VALVE	DITTO	1	HANDLE BROKEN	
824	6" GATE VALVE	DITTO	1		
825	6" GATE VALVE	DITTO	1		
826	6" GATE VALVE	DITTO	1		
827	6" GATE VALVE	DITTO	1		
828	6" GATE VALVE	DITTO	1		
829	6" GATE VALVE	DITTO	1		
830	6" GATE VALVE	DITTO	1		

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
831	6" GATE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL FACE TO FACE : 400 mm	1	
832	6" GATE VALVE	DITTO	1	
833	6" GATE VALVE	DITTO	1	HANDLE BROKEN
834	6" GATE VALVE	DITTO	1	HANDLE BROKEN
835	6" GATE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	
836	6" GATE VALVE	DITTO FACE TO FACE : 508 mm	1	
837	6" GATE VALVE	DITTO	1	
838	6" GATE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	HANDLE BROKEN
839	6" GATE VALVE	DITTO FACE TO FACE : 270 mm	1	SPINDLE BROKEN
840	6" GATE VALVE	DITTO	1	
841	6" GATE VALVE	DITTO	1	
842	6" GATE VALVE	DITTO	1	
843	6" GATE VALVE	DITTO	1	
844	6" GATE VALVE	DITTO	1	SPINDLE BROKEN
845	6" GATE VALVE	DITTO	1	SPINDLE BROKEN
846	6" GATE VALVE	DITTO	1	
847	6" GATE VALVE	DITTO	1	
848	6" GATE VALVE	DITTO	1	
849	6" GATE VALVE	DITTO	1	
850	6" GATE VALVE	DITTO	1	HANDLE BROKEN
851	6" GATE VALVE	DITTO	1	HANDLE BROKEN

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840	6" GATE VALVE	DITTO	1	
841	6" GATE VALVE	DITTO	1	
842	6" GATE VALVE	DITTO	1	
843	6" GATE VALVE	DITTO	1	
844	6" GATE VALVE	DITTO	1	SPINDLE BROKEN
845	6" GATE VALVE	DITTO	1	SPINDLE BROKEN
846	6" GATE VALVE	DITTO	1	
847	6" GATE VALVE	DITTO	1	
848	6" GATE VALVE	DITTO	1	
849	6" GATE VALVE	DITTO	1	
850	6" GATE VALVE	DITTO	1	HANDLE BROKEN
851	6" GATE VALVE	DITTO	1	HANDLE BROKEN
852	6" GATE VALVE	DITTO	1	HANDLE BROKEN
853	6" GATE VALVE	DITTO	1	HANDLE BROKEN
854	6" GATE VALVE	DITTO	1	HANDLE BROKEN
855	6" GATE VALVE	DITTO	1	HANDLE BROKEN
856	6" GATE VALVE	DITTO	1	HANDLE BROKEN
857	6" GATE VALVE	DITTO	1	HANDLE BROKEN
858	6" GATE VALVE	DITTO	1	HANDLE BROKEN
859	6" GATE VALVE	DITTO	1	"
860	6" GATE VALVE	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
861	6" GATE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL FACE TO FACE : 290 mm	1	
862	6" GATE VALVE	DITTO	1	
863	6" GATE VALVE	DITTO	1	
864	6" GATE VALVE	DITTO	1	
865	6" GATE VALVE	DITTO	1	HANDLE BROKEN
866	6" GATE VALVE	BODY MATERIAL : CAST IRON VALVE MATERIAL: STAINLESS STEEL FACE TO FACE : 290 mm	1	
867	6" GATE VALVE	DITTO	1	
868	6" GATE VALVE	DITTO	1	
869	6" GATE VALVE	DITTO	1	
870	6" GATE VALVE	DITTO	1	
871	6" GLOBE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL FACE TO FACE : 270 mm	1	SPINDLE BROKEN
872	6" GLOBE VALVE	DITTO	1	
873	6" GLOBE VALVE	DITTO	1	
874	6" GLOBE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	
875	6" GLOBE VALVE	DITTO FACE TO FACE : 480 mm	1	
876	6" GLOBE VALVE	DITTO	1	
877	6" GLOVE VALVE	DITTO	1	
878	6" GLOBE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	HANDLE BROKEN
879	6" GLOBE VALVE	DITTO FACE TO FACE : 270 mm	1	HANDLE BROKEN
880	6" GLOBE VALVE	DITTO	1	

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869	6" GATE VALVE	DITTO	1	
870	6" GATE VALVE	DITTO	1	
871	6" GLOBE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL FACE TO FACE : 270 mm.	1	SPINDLE BROKEN
872	6" GLOBE VALVE	DITTO	1	
873	6" GLOBE VALVE	DITTO	1	
874	6" GLOBE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	
875	6" GLOBE VALVE	DITTO FACE TO FACE : 480 mm	1	
876	6" GLOBE VALVE	DITTO	1	
877	6" GLOVE VALVE	DITTO	1	
878	6" GLOBE VALVE	~~DITTO~~ BODY MATERIAL : CAST STEEL VALVE MATERIAL : STAINLESS STEEL	1	HANDLE BROKEN
879	6" GLOBE VALVE	DITTO FACE TO FACE : 270 mm	1	HANDLE BROKEN
880	6" GLOBE VALVE	DITTO	1	
881	6" GLOBE VALVE	DITTO	1	
882	6" GLOBE VALVE	DITTO	1	
883	6" GLOBE VALVE	DITTO	1	
884	6" GLOBE VALVE	DITTO	1	
885	6" GLOBE VALVE	DITTO	1	HANDLE BROKEN
886	6" CHECK VALVE	BODY MATERIALS : CAST STEEL	1	
887	6" CHECK VALVE	DITTO	1	
888	6" CHECK VALVE	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		BODY MATERIAL : CAST STEEL		
889	6" CHECK VALVE	~~DITTO~~	1	
890	6" CHECK VALVE	DITTO	~~1~~ 1	
891	6" CHECK VALVE	DITTO	1	
892	6" CHECK VALVE	DITTO	1	
893	6" CHECK VALVE	DITTO	1	
894	6" CHECK VALVE	DITTO	1	
895	6" CHECK VALVE	DITTO	1	
896	6" CHECK VALVE	DITTO	1	
ITEM No 458 NONE	~~Copies of~~ 4" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL	~~81~~ 89	
" 459	~~14 pcs of~~ 4" GLOBE VALVE	DITTO	~~8~~ 14	
" 460	~~6 pcs of~~ 4" CHECK VALVE	BODY MATERIAL : CAST STEEL	~~1~~ 6	
" 461	~~95 pcs of~~ 3" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL	~~97~~ 95	
" 462	~~13 pcs of.~~ 3" GLOBE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: GUN METAL	~~13~~ 12	
" 463	~~1 pcs of~~ 3" CHECK VALVE	BODY MATERIAL : CAST STEEL	~~2~~ 1	
"	~~2½" GATE VALVE~~	~~BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL~~	~~11~~	
" 465	~~68 pcs. of~~ 2" GATE VALVE	DITTO	~~65~~ 68	
" 466	~~39 pcs. of~~ 2" GLOBE VALVE	DITTO	~~32~~ 39	
" 467	~~56 pcs of~~ 1½" GATE VALVE	DITTO	~~57~~ 53	
" 468	~~29 pcs of~~			29

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458		VALVE MATERIAL: STAINLESS STEEL		
" 459	~~14 pcs of~~ 4" GLOBE VALVE	DITTO	8 14	
" 460	~~6 pcs of~~ 4" CHECK VALVE	BODY MATERIAL : CAST STEEL	4 6	
" 461	~~95 pcs of~~ 3" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL	97 95	
" 462	~~13 pcs of.~~ 3" GLOBE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: GUN METAL	13 12	
" 463	~~1 pcs of~~ 3" CHECK VALVE	BODY MATERIAL : CAST STEEL	2 1	
"	~~2½" GATE VALVE~~	~~BODY MATERIAL : CAST STEEL~~ ~~VALVE MATERIAL: STAINLESS STEEL~~	~~11~~	
" 465	~~68 pcs. of~~ 2" GATE VALVE	DITTO	65 68	
" 466	~~39 pcs. of~~ 2" GLOBE VALVE	DITTO	32 39	
" 467	~~55 pcs of~~ 1½" GATE VALVE	DITTO	67 55	
" 468	~~29 pcs of~~ 1½" GLOBE VALVE	BODY MATERIAL : GUN METAL VALVE MATERIAL: GUN METAL	20 29	
" 469	~~47 pcs of~~ 1" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL	45 47 47	
" 470	~~32 pcs of~~ 1" GLOBE VALVE	BODY MATERIAL : GUN METAL VALVE MATERIAL: GUN METAL	15 32	
" 471	~~45 pcs. of~~ 3/4" GATE VALVE	BODY MATERIAL : CAST STEEL VALVE MATERIAL: STAINLESS STEEL	63 45	
" 472	~~33 pcs of~~ 3/4" GLOBE VALVE	BODY MATERIAL : GUN METAL VALVE MATERIAL: GUN METAL	4 33	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
~~NONE~~	~~5/8" GATE VALVE~~	~~BODY MATERIAL : CAST STEEL~~ ~~VALVE MATERIAL:: STAINLESS STEEL~~	~~37~~	
~~"~~	~~5/8" GLOBE VALVE~~	~~BODY MATERIAL : GUN METAL~~ ~~VALVE MATERIAL: GUN METAL~~	~~29~~	
~~"~~	~~14" GAS PIPE ABOVE GROUND~~	~~OUTSIDE DIA : 368mm~~ ~~TOTAL LUNGTH : 30M.~~	~~1~~	
ITEM No. 476	12" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 318.3mm TOTAL LENGTH : ~~100M.~~ 57.6 M	1	
# 477	10" GAS PIPE ABOVE-GROUND	OUTSIDE DIA : 267.1mm TOTAL LENGTH : ~~150M.~~ 114.2 M	1	
# 478	8" GAS PIPE ABOVE GROUND	OUTSIDE DIA ; 216.3mm TOTAL LENGTH : ~~200M.~~ 300 M	1	
# 479	6" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 165.2mm TOTAL LENGTH : 400M	1	
# 480	4" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 114.3mm TOTAL LENGTH : ~~700M.~~ 517.5 M	1	
# 481	3" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 8~~7~~.1mm TOTAL LENGTH : 500M.	1	
# 482	2½" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 76.3mm TOTAL LENGTH : 50M.	1	
# 483	2" GAS ABOVE ABOVE GROUND	OUTSIDE DIA : 60.5mm TOTAL LENGTH : ~~1,000M~~ 1,170.7 M	1	

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	ABOVE GROUND		114.2 M	
# 478	8" GAS PIPE ABOVE GROUND	OUTSIDE DIA ; 216.3mm TOTAL LENGTH : ~~200M.~~ 300 M		1
# 479	6" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 165.2mm TOTAL LENGTH : 400M		1
# 480	4" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 114.3mm TOTAL LENGTH : ~~700M.~~ 517.5 M		1
# 481	3" GAS PIPE ABOVE GROUND	OUTSIDE DIA : ~~89~~.1mm TOTAL LENGTH : 500M.		1
# 482	2½" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 76.3mm TOTAL LENGTH : 50M.		1
# 483	2" GAS ABOVE ABOVE GROUND	OUTSIDE DIA : 60.5mm TOTAL LENGTH : ~~1,000M~~ 1,170.7 M		1
# 484	1½" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 48.6mm TOTAL LENGTH : ~~1,200M.~~ 800.7 M		1
# 485	1" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 34.0mm TOTAL LENGTH : ~~1,500M.~~ 256.1 M		1
# 486	3/4" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 27.2mm TOTAL LENGTH : ~~2,000M.~~ 711.9 M		1
# 487	½" GAS PIPE ABOVE GROUND	OUTSIDE DIA : 21.7mm TOTAL LENGTH : ~~800M~~ 766.5 M		1
		~~SUB TOTAL QUANTITY:~~		~~851~~
		~~ITEM~~ :		~~801~~ ~~274~~
				~~1075~~

- 41 Sub Total
Item 277 (808 Pices)

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BARI-SOL DEWAXING PLANT (45-5-7)
WORK
(EVALUATION SHEET NO. 426-462)

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
7 (94)	LOW PRESSURE COMPRESSOR	VERTICAL, RECIPROCATING, TYPE AMMONIA GAS 4 CYLINDERS SIZE : 330X330 PRESS : 50Lbs/sq.in. HORSE POWER : 150HP	1	
7 (95)	LOW PRESSURE COMPRESSOR	DITTO	1	
7 (90)	HIGH PRESSURE COMPRESSOR	VERTICAL RECIPRO. TYPE AMMONIA GAS 4 CYLINDERS SIZE : 330X330 PRESS : 400Lbs/sq.in. HORSE POWER: 400HP R.P.M. : 225	1	
7 (92)	HIGH PRESSURE COMPRESSOR	DITTO	1	
7 (93)	COMPRESSOR	STNGLE ACTING., RECIPRO. NO. OF STAGE: 1 STAGE GAP. : 1.44M3/MIN SIZE : 160X130 HORSE POWER: 120HP R.P.M. : 550	1	
7 (4)	PUMP FOR CRUDE FEED	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7KL/MIN. R.P.M. : 120	1	
7 (5)	PUMP FOR CRUDE FEED	DITTO	/	
7 (3)	PUMP FOR BLENDING	STEAM DRIVEN, WORTHINGTON, SIZE : 250X230X300 CAP. : 294GAL/MIN R.P.M. : 100	1	
7 (16)	SPARE PUMP FOR BLENDING	DITTO	/	

7 (93)	COMPRESSOR	SINGLE ACTING., RECIPRO. NO. OF STAGE: 1 STAGE GAP. : 1.44M3/MIN SIZE : 160X130 HORSE POWER: 10 20HP R.P.M. : 550	1	
7 (4)	PUMP FOR CRUDE FEED	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7KL/MIN. R.P.M. : 120	1	
7 (5)	PUMP FOR CRUDE FEED	DITTO	/	
7 (3)	PUMP FOR BLENDING	STEAM DRIVEN, WORTHINGTON, SIZE : 250X230X300 CAP. : 294GAL/MIN R.P.M. : 100	1	
7 (16)	SPARE PUMP FOR BLENDING	DITTO	/	
7 (8)	PUMP FOR SOLVENT AND CRUDE CHARGE	STEAM DRIVEN, WORTHINGTON SIZE : 450X300X400 CAP : 1600GAL/MIN HEAD : 100M	1	BODY BROKEN 50%
7 (9)	SPARE PUMP FOR SOLVENT AND CRUDE CHARGE	DITTO	1	STAFFING BOX BROKEN 20%
7 (10)	PUMP FOR DEWAXED OIL SOLUTION	STEAM DRIVEN, WORTHINGTON SIZE : 400X300X300 CAP. : 816GAL/MIN HEAD : 100M	1	
7 (11)	SPARE PUMP FOR DEWAXED OIL SOLUTION.	DITTO	1	
7 (1)	PUMP FOR OIL SOLVENT	STEAM DRIVEN, WORTHINGTON SIZE : 250X230X300 CAP. : 294 GAL/MIN	1	
7 (2)	SPARE PUMP FOR OIL SOLVENT	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
7 (12)	PUMP FOR RECOVERED OIL	STEAM DRIVEN, WORTHINGTON SIZE : 250 X 230 X 300 mm ~~DITTO~~ CAP.: 294 GAL/MIN.	1	
7 (23)	PUMP FOR WASTE OIL	STEAM DRIVEN, WORTHINGTON SIZE : 130X90X125 CAP. : 75 GAL/MIN HEAD : 100M	1	
7 (24)	SPARE PUMP FOR WASTE OIL	DITTO	1	
7 (13)	PUMP FOR SEAL OIL	SIMPLEX, RECIPRO. TYPE SIZE : 100 X 125 X 175 ~~115X60X100~~ CAP. : 0.7 KL/H.	1	
7 (14)	SPARE PUMP FOR SEAL OIL	DITTO	1	
7 (17)	PUMP FOR SOLVENT FEED	STEAM DRIVEN, WORTHINGTON SIZE : 250X300X300 CAP. : 800 GAL/MIN HEAD : 100M	1	
7 (18)	SPARE PUMP FOR SOLVENT FEED	DITTO	1	
7 (26)	PUMP FOR OIL PREHEATER	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7KL/HR	1	
7 (27)	SPARE PUMP FOR OIL PREHEATER	DITTO	1	
7 (7)	PUMP FOR PRODUCT OIL	WORTHINGTON, SIZE : 200X200X300 CAP. : 10 KL/HR	1	
7 (9)	PUMP FOR DEWAXED SOLUTION FEED	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7 KL/HR	1	
7 (20)	SPARE PUMP DEWAXED SOLUTION FEED	DITTO	1	
7 (28)	PUMP FOR SOLVENT AND WATER	DITTO	1	

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		CAP. : 800 GAL/MIN HEAD : 100M	
7 (18)	SPARE PUMP FOR SOLVENT FEED	DITTO	1
7 (26)	PUMP FOR OIL PREHEATER	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7KL/HR	1
7 (27)	SPARE PUMP FOR OIL PREHEATER	DITTO	1
7 (7)	PUMP FOR PRODUCT OIL	WORTHINGTON, SIZE : 200X200X300 CAP. : 10 KL/HR	1
7 (9)	PUMP FOR DEWAXED SOLUTION FEED	STEAM DRIVEN, WORTHINGTON SIZE : 190X150X250 CAP. : 7 KL/HR	1
7 (20)	SPARE PUMP DEWAXED SOLUTION FEED	DITTO	1
7 (28)	PUMP FOR SOLVENT AND WATER	DITTO	1
7 (6)	SPARE PUMP FOR SOLVENT AND WATER	DITTO	1
7 (21)	PUMP FOR WAX PREHEATER FEED	STEAM DRIVEN, WORTHINGTON SIZE : 150X100X150 CAP. : 118 GAL/MIN HEAD : 100M	1
7 (22)	SPARE PUMP FOR WAX PREHEATER FEED	DITTO	1
7 (29)	PUMP FOR WAX PRODUCT	DITTO	1
7 (15)	SPARE PUMP FOR WAX PRODUCT	DITTO	1
7 (15)	PUMP FOR SOLVENT REFLUX	STEAM DRIVEN, WORTHINGTON SIZE : 250X230X300 CAP. : 294 GAL/MIN HEAD : 100m	1

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
7 (33)	SPARE PUMP FOR SOLVENT REFLUX	STEAM DRIVEN: WORTHINGTON SIZE: 250 X 230 X 300 ~~DITTO~~ CAP. : 294 GAL/MIN HEAD : 100 M	1	
7 (31)	PUMP FOR DRY SOLVENT	STEAM DRIVEN, WORTHINGTON SIZE : 250X300X300 CAP. : 800 GAL/MIN HEAD : 100M	1	
7 (32)	SPARE PUMP FOR DRY SOLVENT	DITTO	1	
7 (35)	VACUUM PUMP	SIMPLEX. RECIPRO. STEAM DRIVEN SIZE : 200X300X300	1	
7 (34)	PUM FOR WASTE GAS ABSORBING TURBINE SAND PUMP	MOTOR DRIVEN DELIVERY : 40mm NO, OF STAGE: 2	1	MOTOR MISSING 2HP
7 (97)	INTERMEDIATE COOLER	VERTICAL DIA : 883mm HEIGHT : 3500mm THICKNESS : 16mm TUBE MATERIAL: STEEL	1	
7 (~~96~~ 98)	INTERMEDIATE COOLER	DITTO	1	
7 (99)	INTERMEDIATE COOLER	DITTO	/	
7 (~~101~~ 100)	AMMONIA CONDENSER	VERTICAL SHELL AND TUBE TYPE DIA : 1,120mm HEIGHT : 5,500mm AREA OF COOLING SURFACE: 191M^2 TUBE DIA : 50mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE : 200PCS	1	
7 (81)	HEAT EXCHANGER FOR RECOVERED OIL SOLVENT	HORIZONTAL SHELL AND TUBE TYPE DIA : 620mm LENGTH : 5,200mm AREA OF HEATING SURFACE:92.5M^2 TUBE DIA : 25mm TUBE LENGTH : 4,700mm TUBE MATERIAL: STEEL NO. OF TUBES : 240PCS.	1	
7 (82)	HEAT EXCHANGER FOR	DITTO	1	

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		DIA : 885mm HEIGHT : 3500mm THICKNESS : 16mm TUBE MATERIAL: STEEL	1	
7 (~~96~~ 98)	INTERMEDIATE COOLER	DITTO	1	
7 (99)	INTERMEDIATE COOLER	DITTO	/	
7 (~~101~~ 100)	AMMONIA CONDENSER	VERTICAL SHELL AND TUBE TYPE DIA : 1,120mm HEIGHT : 5,500mm AREA OF COOLING SURFACE: 191M^2 TUBE DIA : 50mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE : 200PCS	1	
7 (81)	HEAT EXCHANGER FOR RECOVERED OIL SOLVENT	HORIZONTAL SHELL AND TUBE TYPE DIA : 620mm LENGTH : 5,200mm AREA OF HEATING SURFACE:92.5M^2 TUBE DIA : 25mm TUBE LENGTH : 4,700mm TUBE MATERIAL: STEEL NO. OF TUBES : 240PCS.	1	
7 (82)	HEAT EXCHANGER FOR RECOVERED OIL SOLVENT	DITTO	1	
7 (~~82~~ 83)	BLENDING AMMONIA COOLER	HORIZONTAL SHELL AND TUBE TYPE DIA : ~~650mm~~ 850mm LENGTH : 5,200mm AREA OF COOLING SURFACE:925M^2 TUBE DIA : 25mm TUBE LENGTH : 4,700mm TUBE MATERIAL: STEEL NO. OF TUBE : 240PCS	1	
7 (84)	BLENDING AMMONIA COOLER	DITTO	/	
7 (77)	SOLVENT & CRUDE AMMONIA CHILLER DOUBLE TUBE TYPE	COOLING SURFACE: 480M^2 TUBE DIA : 150mm & 200mm TUBE LENGTH: 13.500mm NO. OF TUBES: 12PCS EACH	1	BROKEN PARTIALLY REPAIRABLE FITTED SCREW CONVEYERS INSIDE TUBES

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
616 7(77)	SOLVENT & CRUDE AMMONIA CHILLER, DOUBLE TUBE TYPE ~~DITTO~~	COOLING SURFACE : 480 M² TUBE DIA : 150 mm & 200 mm ~~DITTO~~ TUBE LENGTH : 13,500 mm NO. OF TUBES : 12 pcs. EACH	1	BROKEN PARTIALEY REPAIRABLE FITTED SCREW CONVEYERS INSIDE TUBE
7 (78)	DITTO	DITTO	1	BROKEN PARTIALLY REPAIRABLE FITTED CONVEYERS INSIDE TUBE
7 (79)	DITTO	DITTO	1	BROKEN PARTIALLY REPAIRABLE FITTED SCREW CONVEYERS INSUDE TUBES
617 7(77)	DITTO	DITTO	1	BROKEN PARTIALLY REPAIRABLE FITTED SCREW CONVEYERS INSIDE TUBES
618 7(78)	DITTO	DITTO	1	BROKEN PARTIALLY REPAIRABLE FITTED SCREW CONVEYERS INSIDE TUBES
7 (96)	LOW PRESSURE AMMONIA COMPRESSOR	AMMONA GAS, VERTICAL 4 CYLINDER SIZE : 330X330 PRESS : 50Lbs/sq.in. HORSE POWER: 150HP R.P.M. : 225	1	DIRECT COUPLED WITH A.C SYNCHRONOUS MOTOR 3300V. 60 CYCLE 225HP Open TYPE
7 (50)	COOLER FOR DRY SOLVENT	DIA : 1000mm LENGTH : 5400mm AREA OF COOLING SURFACE : 238M² TUBE DIA : 25mm TUBE LENGTH: 4900mm TUBE MATERIAL: ADMIRALTY METAL NO. OF TUBES: 720PCS	1	
619	CONDENSER FOR WET SOLVENT	DIA : 660mm. LENGTH : 6,000mm AREA OF COOLING SURFACE	1	SOME BULLET HOLES REPAIRABLE

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7(78)				SCREW CONVEYERS INSIDE TUBES
7 (96)	LOW PRESSURE AMMONIA COMPRESSOR	AMMONA GAS, VERTICAL 4 CYLINDER SIZE : 330X330 PRESS : 50Lbs/sq.in. HORSE POWER: 150HP R.P.M. : 225	1	DIRECT COUPLED WITH A.C SYNCHRONOUS MOTOR 3300V. 60 CYCLE 225HP Open TYPE
7 (50)	COOLER FOR DRY SOLVENT	DIA : 1000mm LENGTH : 5400mm AREA OF COOLING SURFACE : 238M^2 TUBE DIA : 25mm TUBE LENGTH: 4900mm TUBE MATERIAL: ADMIRALTY METAL NO. OF TUBES: 720PCS	1	
619	CONDENSER FOR WET SOLVENT	DIA : 660mm. LENGTH : 6,000mm AREA OF COOLING SURFACE : 118M^2 TUBE DIA : 25mm TUBE LENGTH: 4,900mm TUBE MATERIAL: ADMIRALTY METAL NO. OF TUBE: 310PCS	1	SOME BULLET HOLES REPAIRABLE
7 (43)	VAPOR CONDENSER FOR WAX AND SOLVENT	DIA : 945mm LENGTH : 4,400mm AREA OF COOLING SURFACE : 195M^2 TUBE DIA : 25mm TUBE LENGTH: 4,900mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE: 511PCS	1	SOME BULLET HOLES REPAIRABLE 30% BROKEN

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
7 (42)	CONDENSER FOR SOLVENT DRYING	DIA : 710mm LENGTH : 5,040mm AREA OF COOLING SURFACE : 142M^2 TUBE DIA : 25mm TUBE LENGTH: 4,900mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE : 371PCS.	1	SLIGHTLY BROKEN REPAIRABLE 10% BROKEN
(620)	CONDENSER FOR SOLVENT GAS	DIA : 460mm LENGTH : 4,100mm AREA OF COOLING SURFACE : ~~202M^2~~ 21 M^2 TUBE DIA : 25mm TUBE LENGTH: 2,440mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE: 108PCS	1	SLIGHTLY BROKEN REPAIRABLE
7 (48)	COOLER FOR DRY SOLVENT	DIA : 1100mm LENGTH : 5,400mm AREA OF COOLING SURFACE : 278M^2 TUBE DIA : 25mm TUBE LENGTH : 4900mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE : 720PCS	1	SLIGHTLY BROKEN REPAIRABLE
621	MOTOR FOR LOW PRESSURE COMPRESSOR OPEN TYPE A.C. SYNCHRONOUS	3300V 60CYCLE 225 P.R.M. 3 32POLES 150 H.P.	1	DIRECT COUPLED WITH COMPRESSOR
622	DITTO	DITTO	1	DIRECT COUPLED WITH COMPRESSOR
623	DITTO	DITTO	1	
624	MOTOR FOR HIGH PRESSURE COMPRESSOR OPEN TYPE A.C. SYNCHRONOUS	3.300 V 60 CYCLE 225 P.R.M. 3 PHASE 32 poles 400 H.P.	1	
625	DITTO	DITTO	1	

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		METAL NO.OF TUBE: 108PCS		
7 (48)	COOLER FOR DRY SOLVENT	DIA : 1100mm LENGTH : 5,400mm AREA OF COOLING SURFACE : 278M^2 TUBE DIA : 25mm TUBE LENGTH : 4900mm TUBE MATERIAL: ADMIRALTY METAL NO.OF TUBE : 720PCS	1	SLIGHTLY BROKEN REPAIRABLE
621	MOTOR FOR LOW PRESSURE COMPRESSOR OPEN TYPE A.C. SYNCHRONOUS	3300V 60CYCLE 225 P.R.M. 3 32POLES 150 H.P.	1	DIRECT COUPLED WITH COMPRESSOR
622	DITTO	DITTO	1	DIRECT COUPLED WITH COMPRESSOR
623	DITTO	DITTO	1	
624	MOTOR FOR HIGH PRESSURE COMPRESSOR OPEN TYPE A.C. SYNCHRONOUS	3.300 V 60 CYCLE 225 P.R.M. 3 PHASE 32 poles 400 H.P.	1	
625	DITTO	DITTO	1	
7 (36)	MOTOR FOR SOLVENT AND CRUDE AMMONIA HEAT EXCHANGER CLOSED TYPE A.C. GEARED MOTOR	220 V. 50/60 CYCLE 3 PHASE 5HP 1,430R.P.M./1,760R.P.M.	1	
7 (37)	DITTO	DITTO	1	CASE BULLET HOLE
7 (38)	MOTOR FOR SOLVENT AND CRUDE AMMONIA HEAT EXCHANGER CLOSED TYPE A.C. GEARED MOTOR	220 V., 50/600 CYCLE 1,430R.P.M./1,760R.P.M. 3 PHASE, 5HP, 3.7KVA	1	CASE BULLET HOLE
7 (39)	DITTO	DITTO	1	
7 (40)	DITTO	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
626	MOTOR FOR SOLVENT AND CRUDE AMMONIA CHILLER CLOSED TYPE A.C. GEARED MOTOR	220 V., 50/60CYCLE 1430R.P.M./1760R.P.M. 3 PHASE 5HP,	1	CASE, BROKEN COIL BURNT
627	DITTO	DITTO	1	CASE BROKEN COIL BURNT
628	DITTO	DITTO	1	CASE BROKEN COIL BURNT
629	DITTO	DITTO	1	CASE BROKEN COIL BURNT
630	DITTO	DITTO	1	CASE BROKEN COIL BURNT
631	DITTO	DITTO	1	CASE BROKEN COIL BURNT
68 7 (8)	EXCITER FOR AMMONIA COMPRESSOR OPEN TYPE D.C. GENERATOR	110V., 130AMP, 25HP 15KW, 1,740R.P.M.	1	
632	MOTOR FOR ABOVE OPEN TYPE	110V., 60 CYLCE, 1,740 R.P.M. 25HP, 4 POLES	1	
7 (69)	EXCITER FOR AMMONIA COMPRSSOR OPEN TYPE D.C. GENERATOR	110 V., 130 AMP, 25HP, 15KW 1,740 R.P.M.	1	
633	MOTOR FOR ABOVE OPEN TYPE A.C. INDUCTION MOTOR	110V., 60 CYCLE, 1,740R.P.M. 4 POLES	1	
7 (70)	EXCITER FOR AMMONIA COMPRESSOR OPEN TYPE D.C. GENERATOR	110V., 130 AMP. 25HP , 15KW 1,740 R.P.M.	1	
634	MOTOR FOR ABOVE OPEN TYPE A.C. INDUCTION MOTOR.	110V., 60 CYCLE, 1,740 R.P.M. 25HP 4 POLES	1	
7 (71)	SWITCH BOX	LENGTH : 400mm WIDTH : 650mm HEIGHT : 850mm 60 CYCLE, 220V., 150 AMP.	1	AMP. METER BROKEN

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631	DITTO	DITTO	1	CASE BROKEN COIL BURNT
68 7 (8)	EXCITER FOR AMMONIA COMPRESSOR OPEN TYPE D.C. GENERATOR	110V., 130AMP, 25HP 15KW, 1,740R.P.M.	1	
632	MOTOR FOR ABOVE OPEN TYPE	110V., 60 CYLCE, 1,740 R.P.M. 25HP, 4 POLES	1	
7 (69)	EXCITER FOR AMMONIA COMPRSSOR OPEN TYPE D.C. GENERATOR	110 V., 130 AMP, 25HP, 15KW 1,740 R.P.M.	1	
633	MOTOR FOR ABOVE OPEN TYPE A.C. INDUCTION MOTOR	110V., 60 CYCLE, 1,740R.P.M. 4 POLES	1	
7 (70)	EXCITER FOR AMMONIA COMPRESSOR OPEN TYPE D.C. GENERATOR	110V., 130 AMP. 25HP , 15KW 1,740 R.P.M.	1	
634	MOTOR FOR ABOVE OPEN TYPE A.C. INDUCTION MOTOR.	110V., 60 CYCLE, 1,740 R.P.M. 25HP 4 POLES	1	
7 (71)	SWITCH BOX	LENGTH : 400mm WIDTH : 650mm HEIGHT : 850mm 60 CYCLE, 220V., 150 AMP.	1	AMP. METER BROKEN
7 (72)	SWITCH BOX	DITTO	1	AMP. METER BROKEN
7 (73)	SWITCH BOX	DITTO	1	AMP. METER BROKEN
635	OPERATING SWITCH BOARD	HEIGHT : 2,300mm WIDTH : 1,300mm THICK : 85mm 3300V., 75AMP., 15HP MATERIAL : MARBLE	1	BROKEN
636	OPERATION SWITCH BOARD	HEIGHT : 2,300mm WIDTH : 1,300mm THICK : 85mm 3300V., 75AMP., 150HP MATERIAL : MARBLE	1	BROKEN

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
637	OPERATING SWITCH BOARD	HEIGHT : 2,300mm WIDTH : 1,300mm THICK : 85mm 3,300V., 150AMP. 400HP MATERIAL : MARBLE	1	BROKEN
638	OPERATING SWITCH BOARD	HEIGHT : 2,300mm WIDTH : 1,300mm THICK : 85mm 3,300V., 150AMP 400HP MATERIAL : MARBLE	1	BROKEN
639	OIL SEPARATOR VERTICAL, CYLINDRICAL TYPE	CAP. : 0.28KL DIA. : 484mm HEIGHT : 1,525mm THICKNESS : 6mm	1	
7 (89)	AMMONIA RECEIVER HORIZONTAL, CYLINDRICAL TYPE	CAP. : 2.89KL DIA : 760mm LENGTH : 6,100mm THICKNESS : 19mm	1	
7 (90)	AMMONIA RECEIVER HORIZONTAL, CYLINDRICAL TYPE	DITTO	1	
7 (62)	WAX SOLUTION RECEIVER BOX TYPE	CAP. : 26.8KL WIDTH : 3,000mm LENGTH : 3,660mm HEIGHT : 2,440mm	1	
7 (65)	WAX SOLUTION RECEIVER BOX TYPE	DITTO ~~: 26.8KL~~	1	
640	AMMONIA RECEIVER	HORIZONTAL, CYL. TYPE CAP. : 1.08KL DIA. : 590mm LENGTH : 3,960mm THICK : 6mm	1	
641	DITTO	DITTO	1	BROKEN
642	DITTO	DITTO	1	
643	DITTO	DITTO	1	

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	HORIZONTAL, CYLINDRICAL TYPE	DIA : 760mm LENGTH : 6,100mm THICKNESS : 19mm		
7 (90)	AMMONIA RECEIVER HORIZONTAL, CYLINDRICAL TYPE	DITTO	1	
7 (62)	WAX SOLUTION RECEIVER BOX TYPE	CAP. : 26.8KL WIDTH : 3,000mm LENGTH : 3,660mm HEIGHT : 2,440mm	1	
7 (65)	WAX SOLUTION RECEIVER BOX TYPE	DITTO ~~: 26.8KL~~	1	
640	AMMONIA RECEIVER	HORIZONTAL, CYL. TYPE CAP. : 1.08KL DIA. : 590mm LENGTH : 3,960mm THICK : 6mm	/	
641	DITTO	DITTO	1	BROKEN
642	DITTO	DITTO	1	
643	DITTO	DITTO	1	
644	DITTO	DITTO	1	
645	AMMONIA SOULTION SEPARATOR	CAP. CAR. : 0.78 KL DIA : 736mm LENGTH : 1,830mm THICK : 12mm	1	
646	DITTO	DITTO	1	
7(67)	DEWAXED OIL RECEIVER BOX TYPE	CAP : 21.8KL LENGTH : 3,000mm WIDTH : 3,000mm HEIGHT : 2,420mm	1	
7 (64)	RECOBERED OIL RECEIVER BOX TYPE	CAP. : 22KL, LENGTH : 3,000mm	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		WIDTH : 3,000mm HEIGHT : 2,440mm THICK : 6mm		SLIGHTLY BROKEN
7 (63)	WAX RECEIVER BOX TYPE	DITTO	1	
7 (53)	BOWL CLEANING OIL TANK	CAP : 0,8KL DIA : 820mm HEIGHT : ~~1,20mm~~ 1,520 mm	1	
7 (54)	BOWL OIL TANK	DITTO	1	
647	SELF CLEANING STRAINER VERTICAL TYPE	DIA : 450mm HEIGHT : 1,200mm	1	
648	DITTO	DITTO	1	
649	DITTO	DITTO	1	
650	DITTO	DITTO	1	
651	DITTO	DITTO	1	
652	BOWL CLEANING ROOM BOX TYPE	LENGTH : 3,700mm WIDTH : 1,000 HEIGHT : 2,500mm ALL WELD	1	BODY COMPLETE, OTHER BROKEN
653	DITTO	DITTO	1	BODY COMPLETE, OTHER BROKEN
654	DITTO	DITTO	1	BODY COMPLETE, OTHER BROKEN
655	DITTO	DITTO	1	BODY COMPLETE OTHER BROKEN
7 (~~43~~ 93)	AIR CHAMBER	CAP : 4M³ DIA. : 700mm HEIGHT : 1,050mm ALL WELD	1	
7 (45)	SOLVENT KETTLE	DIA : 2,100mm HEIGHT : 1,600	1	

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649	DITTO	DITTO		
650	DITTO	DITTO	1	
651	DITTO	DITTO	1	
652	BOWL CLEANING ROOM BOX TYPE	LENGTH : 3,700mm WIDTH : 1,000 HEIGHT : 2,500mm ALL WELD	1	BODY COMPLETE, OTHER BROKEN
653	DITTO	DITTO	1	BODY COMPLETE, OTHER BROKEN
654	DITTO	DITTO	1	BODY COMPLETE, OTHER BROKEN
655	DITTO	DITTO	1	BODY COMPLETE OTHER BROKEN
7 (~~43~~) 93	AIR CHAMBER	CAP : 4M³ DIA. : 700mm HEIGHT : 1,050mm ALL WELD	1	
7 (45)	SOLVENT KETTLE	DIA : 2,100mm HEIGHT : 4,600mm AREA OF HEATING SURFACE : 208M² TUBE DIA : 25mm TUBE TOTAL LENGTH: 860M TUBE MATERIAL: STEEL	1	BROKEN
7 (46)	SOLVENT VAPOUR SEPARATOR	DIA : 3,960mm HEIGHT : 2,440mm ALL WELD	1	BROKEN
7(44)	SOLVENT EVAPORATOR	DIA : 1,850&1,420mm HEIGHT : ~~2,440~~ 2,440mm AREA OF HEATING SURFACE : 610M² TUBE DIA : 25mm TUBE LENGTH : 4,900mm	1	BROKEN

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
		TUBE MATERIALS: STEEL NO. OF TUBE : 1,586PCS		
7 (56)	FLOAT TANK	CAP : 0.92KL DIA : 915mm HEIGHT : 2,130mm THICK : 6mm	1	FLOAT BROKEN
7 (57)	DITTO	DITTO	1	FLOAT BROKEN
7 (58)	DITTO	DITTO	1	FLOAT BROKEN
7 (59)	DITTO	DITTO	1	LEVEL CONTROLLER BROKEN
7 (60)	DITTO	DITTO	1	FLOAT BROKEN
7 (61)	DITTO	DITTO	1	FLOAT BROKEN
7 (45)	SOLVENT SEPARATOR	1,400 mm DIA : ~~2,090mm~~ HEIGHT : 10,030mm NO. OF PLATE : 17,PCS WORKING PRESSURE: 50Lbs/sq.in. HEATING TUBE DIA: 40mm TUBE LENGTH : 36,600mm NO. OF TUBE : 7SETS	1	SLIGHTLY BROKEN
7 (52)	WAX ~~WX~~ AND SOLVENT VAPOUR SEPARATOR	DIA : 2,440mm HEIGHT : 2,360mm	1	BROKEN
7 (47)	OIL PREHEATER	DIA : 1,880mm HEIGHT : 4,550mm AREA OF HEATING SURFACE : 66.5M^2 COIL DIA : 90mm COIL MATERIAL : STEEL	1	BROKEN
7 (49)	SOLVENT VAPOUR PREHEATER.	DIA : 1,000mm LENGTH : 5,400mm AREA OF HEATING SURFACE : 20M^2 TUBE DIA : 25mm TUBE LENGTH : 4,900mm	1	BROKEN

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7 (61)	DITTO	DITTO			
7 (45)	SOLVENT SEPARATOR	DIA : ~~2,090mm~~ 1,400 mm HEIGHT : 10,030mm NO. OF PLATE : 17,PCS WORKING PRESSURE: 50Lbs/sq.in. HEATING TUBE DIA: 40mm TUBE LENGTH : 36,600mm NO. OF TUBE : 7SETS	1	SLIGHTLY BROKEN	
7 (52)	WAX ~~WAX~~ AND SOLVENT VAPOUR SEPARATOR	DIA : 2,440mm HEIGHT : 2,360mm	1	BROKEN	
7 (47)	OIL PREHEATER	DIA : 1,880mm HEIGHT : 4,550mm AREA OF HEATING SURFACE : 66.5M^2 COIL DIA : 90mm COIL MATERIAL : STEEL	1	BROKEN	
7 (49)	SOLVENT VAPOUR PREHEATER.	DIA : 1,000mm LENGTH : 5,400mm AREA OF HEATING SURFACE : 208M^2 TUBE DIA : 25mm TUBE LENGTH : 4,900mm TUBE MATERIAL : STEEL NO. OF TUBE : 540PCS	1	BROKEN	
7 (85)(86)	OIL COOLER COIL AND BOX TYPE	LENGTH : 5,450mm WIDTH : 2,300mm HEIGHT : 2,250mm AREA OF COOLING SURFACE : 665M^2 COIL DIA : 100mm AND 75mm	1		
656	12" GATE VALVE	BODY : CAST IRON VALVE : STAINLESS STEEL	1		
657	12" GATE VALVE	DITTO	1	HANDLE BROKEN	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
658	10" GATE VALVE	BODY : CAST STEEL VALVE : STAINLESS STEEL	1	HANDLE BROKEN
659	10" GATE VALVE	BODY : CAST IRON VALVE STAINLESS STEEL	1	
660	8" GATE VALVE	DITTO	1	HANDLE BROKEN
661.	8" GATE VALVE	DITTO	1	HANDLE BROKEN
662	8" GATE VALVE	DITTO	1	
663	8" GATE VALVE	DITTO	1	
664	8" GATE VALVE	DITTO	1	
665	8" GATE VALVE	DITTO	1	HANDLE BROKEN
666	8" GATE VALVE	DITTO	1	
667	8" GATE VALVE	DITTO	1	
668	8" GATE VALVE	DITTO	1	
669	8" GATE VALVE	DITTO	1	
670	8" GATE VALVE	DITTO	1	
671	8" GATE VALVE	DITTO	1	
672	8" GATE VALVE	DITTO	1	
673	8" GATE VALVE	DITTO	1	
674	8" GATE VALVE	DITTO	1	
675	8" GATE VALVE	DITTO	1	
676	6" GATE VALVE	DITTO	1	
677	6" GATE VALVE	DITTO	1	
678	6" GATE VALVE	DITTO	1	

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666	8" GATE VALVE	DITTO	1	
667	8" GATE VALVE	DITTO	1	
668	8" GATE VALVE	DITTO	1	
669	8" GATE VALVE	DITTO	1	
670	8" GATE VALVE	DITTO	1	
671	8" GATE VALVE	DITTO	1	
672	8" GATE VALVE	DITTO	1	
673	8" GATE VALVE	DITTO	1	
674	8" GATE VALVE	DITTO	1	
675	8" GATE VALVE	DITTO	1	
676	6" GATE VALVE	DITTO	1	
677	6" GATE VALVE	DITTO	1	
678	6" GATE VALVE	DITTO	1	
679	6" GATE VALVE	DITTO	1	HANDLE BROKEN
680	6" GATE VALVE	DITTO	1	HANDLE BROKEN
681 ~~687~~	6" GATE VALVE	DITTO	1	HANDLE BROKEN
682	6" GATE VALVE	DITTO	1	
683	6" GATE VALVE	DITTO	1	
684	6" GATE VALVE	DITTO	1	
685	6" GATE VALVE	DITTO	1	
686	6" GATE VALVE	DITTO	1	
687	6" GATE VALVE	DITTO	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
688	6" GATE VALVE	BODY : CAST IRON ~~DITTO~~ VALVE : STAINLESS STEEL	1	
689	6" GATE VALVE	DITTO	1	
690	6" GATE VALVE	DITTO	1	
691	6" GATE VALVE	DITTO	1	
692	6" GATE VALVE	DITTO	1	
693	6" GATE VALVE	DITTO	1	
694	6" GATE VALVE	DITTO	1	
695	6" GATE VALVE	DITTO	1	
696	6" GATE VALVE	DITTO	1	
697	6" GATE VALVE	DITTO	1	HANDLE BROKEN
698	6" GLOVE VALVE	BODY : CAST STEEL VALVE : STENLESS STEEL	1	
699	6" GLOBE VALVE	DITTO	1	
700	6" GLOBE VALVE	DITTO	1	HANDLE BROKEN
701	6" GLOBE VALVE	DITTO	1	
702	6" GLOBE VALVE	DITTO	1	
703	6" GLOBE VALVE	DITTO	1	
704	6" GLOBE VALVE	DITTO	1	
705	6" GLOBE VALVE	~~BODY~~ DITTO : ~~CAST STEEL~~ ~~VALVE~~ : ~~STAINLESS STEEL~~	1	HANDLE BROKEN
ITEM No ~~NONE~~ 180	~~7 pcs. of~~ 5" GAOBE VALVE	BODY : CASE IRON VALVE : STAINLESS STEEL	7	
" 181	~~7 pcs of~~ 4" GATE VALVE	DITTO	7	
" 182	~~5 pcs of~~ 4" GLOBE VALVE	BODY : CAST STEEL	5	

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697	6" GATE VALVE	DITTO	1	HANDLE BROKEN	
698	6" GLOVE VALVE	BODY : CAST STEEL VALVE : STENLESS STEEL	1		
699	6" GLOBE VALVE	DITTO	1		
700	6" GLOBE VALVE	DITTO	1	HANDLE BROKEN	
701	6" GLOBE VALVE	DITTO	1		
702	6" GLOBE VALVE	DITTO	1		
703	6" GLOBE VALVE	DITTO	1		
704	6" GLOBE VALVE	DITTO	1		
705	6" GLOBE VALVE	~~BODY~~ DITTO : ~~CAST STEEL~~ ~~VALVE~~ : ~~STAINLESS STEEL~~	1	HANDLE BROKEN	
ITEM No ~~NONE~~ 180	~~4 pcs of~~ 5" GAOBE VALVE	BODY : CASE IRON VALVE : STAINLESS STEEL	4		
" 181	~~7 pcs of~~ 4" GATE VALVE	DITTO	7		
" 182	~~5 pcs of~~ 4" GLOBE VALVE	BODY : CAST STEEL VALVE : GUN METAL	5		
" 183	~~33 pcs of~~ 3" GATE VALVE	BODY : CAST IRON VALVE : STAINLESS STEEL	28*33		
" 184	~~2 pcs of~~ 3" GLOBE VALVE	BODY : CAST STEEL VALVE : GUN METAL	5*2		
"	~~2½" GATE VALVE~~	~~DITTO~~	~~1~~		
"	~~2½" GLOBE VALVE~~	~~BODY : GUN METAL~~ ~~VALVE : GUN METAL~~	~~1~~		
" 187	~~19 pcs of~~ 2" GATE VALVE	BODY : CAST IRON VALVE : STAINLESS STEEL	29 19		

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
ITEM No NONE 188	3 pcs. of 2" GOLBE VALVE	BODY : GUN METAL VALVE : GUN METAL	~~3~~ 3	
" 189	6 pcs. of 1½" GATE VALVE	BODY : CAST STEEL VALVE : STAINLESS STEEL	~~6~~ 6	
" 190	22 pcs. of 1½" GLOBE VALVE	BODY : GUN METAL VALVE : GUN METAL	~~22~~ 22	
" 191	16 pcs. of 1" GLOBE VALVE	BODY : GUN METAL VALVE : GUN METAL	~~16~~ 16	
" 192	18 pcs. of 3/4" GLOBE VALVE	DITTO	~~18~~ 18	
~~"~~	~~5/8" GLOBE VALVE~~	~~DITTO~~	~~10~~	
" 194	2 pcs. of ½" GLOBE VALVE	BODY : CAST STEEL VALVE : GUN METAL FACE TO FACE: ~~15~~ 65 mm	~~2~~ 2	
" 195	12" GAS PIPE ABOVE GROUND	OUT DIA : 318.3mm TOTAL LENGTH: ~~40M~~ 10.8 M	1	
" 196	10" GAS PIPE ABOVE GROUND	OUT DIA : 267.1 TOTAL LENGTH: 55.2 M	1	
" 197	8" GAS PIPE ABOVE GROUND	OUT DIA : 216.3mm TOTAL LENGTH: ~~50M~~ 80 M	1	
" 198	6" GAS PIPE ABOVE GROUND	OUT DIA : 165.2mm TOTAL LENGTH: ~~300M~~ 350 M	1	
" 199	4" GAS PIPE ABOVE GROUND	OUT DIA : 114.3mm TOTAL LENGTH: 450M	1	
" 200	3" GAS PIPE ABOVE GROUND	OUT DIA : 39.1mm TOTAL LENGTH: 300M	1	
" 201	2½" GAS PIPE ABOVE GROUND	OUT DIA : 76.3mm TOTAL LENGTH: ~~100M~~ 20.8 M	1	
" 202	2" GAS PIPE ABOVE GROUND	OUT DIA : 60.5mm TOTAL LENGTH : 500M	1	
		OUT DIA : 48.6mm	1	

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		FACE TO FACE: ~~19 mm~~ 65		
* 195	12" GAS PIPE ABOVE GROUND	OUT DIA : 318.3mm TOTAL LENGTH: ~~40M~~ 10.8 M	1	
* 196	10" GAS PIPE ABOVE GROUND	OUT DIA : 267.1 TOTAL LENGTH: 55.2 M	1	
* 197	8" GAS PIPE ABOVE GROUND	OUT DIA : 216.3mm TOTAL LENGTH: ~~50M~~ 80 M	1	
* 198	6" GAS PIPE ABOVE GROUND	OUT DIA : 165.2mm TOTAL LENGTH: ~~300M~~ 350 M	1	
* 199	4" GAS PIPE ABOVE GROUND	OUT DIA : 114.3mm TOTAL LENGTH: 450M	1	
* 200	3" GAS PIPE ABOVE GROUND	OUT DIA : 39.1mm TOTAL LENGTH: 300M	1	
* 201	2½" GAS PIPE ABOVE GROUND	OUT DIA : 76.3mm TOTAL LENGTH: ~~100M~~ 20.8 M	1	
* 202	2" GAS PIPE ABOVE GROUND	OUT DIA : 60.5mm TOTAL LENGTH : 500M	1	
* 203	1½" GAS PIPE ABOVE GROUND	OUT DIA : 48.6mm TOTAL LENGTH: ~~200M~~ 222 M	1	
* 204	1" GAS PIPE ABOVE GROUND	OUT DIA. : 34.0mm TOTAL ~~LENGTH~~: ~~800M~~ 188.5 M	1	
* 205	3/4" GAS PIPE ABOVE GROUND	OUT DIA : 27.2mm TOTAL LENGTH: ~~900M~~ 148.7 M	1	
* 206	½" GAS PIPE ABOVE GROUND	OUT DIA : 21.7mm TOTAL LENGTH: ~~100M~~ 105.5 M	1	
		~~SUB TOTAL QUANTITY~~ ~~333~~		
		~~ITEMS~~ ~~205~~ ~~204~~		
			~~329~~	

 Sub Total

Item 204 (329 Pices)

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OIL STORAGE TANKS ~~(I)~~ (45-32)
WORK
(EVALUATION SHEET NO. 1~~7~~-3 AND ADDITIONALLY EVALUATED)

Inv. No.	Name of Machinery	Brief Specification	Qty	Remarks
5T	STORAGE TANK	VERTICAL CAP : ~~3100~~ 3200 KL ~~D : 36.6 M x H : 12.49 M~~ D: 18.790 M x H: 11.832 M	1	ROOF PLATE DISMANTLED SIDE & BOTTOM PLATE RIVET CUTOFF
7T	ditto	ditto	1	DISMANTLED
8T	ditto	ditto	1	
10T	ditto	ditto	1	ROOF, TRUSS & HEATING COILS DISMANTLED SIDE & BOTTOM RIVET CUTOFF
11T	ditto	ditto	1	ROOF PLATE BENT DOWN-WARD 1-ST. COURSE OF SIDEPLATE & BOTTOM RIVETS CUTOFF HEATING COIL DIS-MANTLED 11-BOMB HOLES ON SIDE PLATE
12T	ditto	ditto	1	ROOF PLATE & 50% OF TRUSS DISMANTLED SIDE & BOTTOM RIVETS CUTOFF 12-BOMB HOLES
13T	ditto	ditto	1	ROOF PLATE & 25% OF TRUSS, REQ'D REPAIR SIDE & BOTTOM PLATE RIVETS CUTOFF HEATING COIL DISMAN-TLED
14T	ditto	ditto	1	ROOF PLATE BENT 10% OF TRUSS REQ'D REPAIR 5-BOMB HOLES ON SIDE PLATE

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12T	ditto	ditto	1	ROOF PLATE & 50% OF TRUSS DISMANTLED SIDE & BOTTOM RIVETS CUTOFF 12-BOMB HOLES
13T	ditto	ditto	1	ROOF PLATE & 25% OF TRUSS, REQ'D REPAIR SIDE & BOTTOM PLATE RIVETS CUTOFF HEATING COIL DISMAN-TLED
14T	ditto	ditto	1	ROOF PLATE BENT 10% OF TRUSS REQ'D REPAIR 5-BOMB HOLES ON SIDE PLATE
15T	ditto	ditto	1	DISMANTLED
16T	ditto	VERTICAL CAP : 2100 KL D : 16.029 M x H : 10.364 M	1	
17T	ditto	ditto	1	50% ROOF TRUSS DIS-MANTLED 1 Pc. OF SIDE PLATE DISMANTLED 50% OF BOTTOM PLATE RIVETS CUTOFF
18T	ditto	ditto	1	
19T	ditto	ditto	1	1 Pc. OF SIDEPLATE DISMANTLED
20T	ditto	ditto	1	
21T	ditto	ditto	1	ROOF PLATE ARE CUTTED 1 Pc. OF SIDEPLATE DISMANTLED
22T	ditto	ditto	1	ditto
23T	ditto	ditto	1	

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Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
24T	STORAGE TANK	VERTICAL CAP : 2100 KL D : 16.029 M x H : 10.364 M	1	1 Pc. OF SIDEPLATE & HEATING COIL DISMANTLED
25T	ditto	ditto	1	ROOF PLATE ARE CUTTED ROOF TRUSS DISMANTLED 1 Pc. OF SIDE PLATE DISMANTLED SIDE & BOTTOM RIVETS CUTOFF
28T	ditto	ditto	1	ROOF & 2 Pcs OF SIDE PLATE ARE BENT ROOF TRUSS REQ'D REPAIR 7-BOMB HOLES

~~Sub Total~~

~~Quantity : 19~~

~~Item : 19~~

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~~STORAGE TANKS (II)~~

~~(EVALUATION SHEET NO. 1)~~

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
30T	STORAGE TANK	HORIZONTAL CAP : 520 KL D : 5.9 M x L : 19.185 M	1	
31T	ditto	ditto	1	
32T	ditto	ditto	1	
33T	ditto	VERTICAL CAP : 910 KL D : 11.5 M x H : 8.8 M	1	
34T	ditto	ditto	1	5% OF SIDE PLATE BOMBING
35T	ditto	ditto	1	
36T	ditto	ditto	1	10% OF SIDE PLATE BOMBING
37T	ditto	ditto	1	5% OF SIDE PLATE BOMBING
38T	~~ditto~~	ditto	1	ditto
39T	ditto	ditto	1	10% OF SIDE PLATE BOMBING
40T	ditto	CAP: 56 KL D: 3M x H: 8M	1	
41T	ditto	ditto	1	

~~Sub~~ Total

~~Quantity : 10~~

~~Items : 10~~
32

Sub Total

Item 32 (32 pices)

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35T	ditto	ditto	1	
36T	ditto	ditto	1	10% OF SIDE PLATE BOMBING
37T	ditto	ditto	1	5% OF SIDE PLATE BOMBING
38T	~~ditto~~	ditto	1	ditto
39T	ditto	ditto	1	10% OF SIDE PLATE BOMBING
40T	ditto	CAP: 56 KL D: 3M X H: 8M	1	
41T	ditto	ditto	1	

~~Sub~~ Total

~~Quantity : 10~~

~~Items : 10~~ 32

Sub Total

Item 32 (32 Pices)

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012

ACCESSORIES FOR STORAGE TANKS ~~(I)~~ (45-32)

(EVALUATION WORK SHEET 4~43 & ADDITIONALLY EVALUATED)

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
1	MOTOR	INDUCTION, 150 HP 3,300 V 3 PHASE 60 CYCLE 890 R.P.M.	1	
5	COMPENSATOR	3,000/3,300 V 50/60 CYCLE	1	FOR 150 HP MOTOR
7	PUMP	WORTHINGTON, DUPLEX 10 x 7 x 10	1	
8	ditto	WORTHINGTON, DUPLEX 14 x 10 x 12	1	
19	ditto	TURBINE, 1 STAGE 1,750 R.P.M.	1	
20	MOTOR	INDUCTION, 50 HP 3,300 V 3 PHASE 60 CYCLE 1750 R.P.M.	1	
21	PUMP	TURBINE, I STAGE 1,750 R.P.M.	1	
22	MOTOR	INDUCTION, 50 HP 220 V 3 PHASE 60 CYCLE 1,750 R.P.M.	1	
25	PUMP	KAGANO, 15 HP	1	
26	MOTOR	INDUCTION, 15 HP 220 V 3 PHASE 60 CYCLE 1,140 R.P.M.	1	
27	TRANSFORMER	SINGLE PHASE CAP ; 50 KVA 60 CYCLE	1	
28	ditto	ditto	1	
29	ditto	ditto	1	
34	MOTOR	INDUCTION, 50 HP 3,300 V 3 PHASE	1	

21	PUMP	TURBINE, 1 STAGE 1,750 R.P.M.	1
22	MOTOR	INDUCTION, 50 HP 220 V 3 PHASE 60 CYCLE 1,750 R.P.M.	1
25	PUMP	KAGANO, 15 HP	1
26	MOTOR	INDUCTION, 15 HP 220 V 3 PHASE 60 CYCLE 1,140 R.P.M.	1
27	TRANSFORMER	SINGLE PHASE CAP ; 50 KVA 60 CYCLE	1
28	ditto	ditto	1
29	ditto	ditto	1
34	MOTOR	INDUCTION, 50 HP 3,300 V 3 PHASE 60 CYCLE ~~720~~ 860 R.P.M.	1
~~38~~	~~WINCH~~	~~HAND OPERATE DRUM DIA 8" x W.15"~~	~~1 FOR 2T~~
~~39~~	~~ditto~~	~~ditto~~	~~1 FOR 3T~~
41	WINCH	HAND OPERATE DRUM DIA 5" x W.7"	1 FOR 5 T
43	ditto	ditto	1 FOR 7T
44	ditto	ditto	1 FOR 8T
46	ditto	ditto	1 FOR 10T
47	ditto	ditto	1 FOR 11T
48	ditto	ditto	1 FOR 12T
49	ditto	ditto	1 FOR 13T
51	ditto	ditto	1 FOR 15T

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
52	WINCH	HAND OPERATE DRUM DIA 5" x W.7"	1	FOR 16T
53	ditto	ditto	1	FOR 17T
54	ditto	ditto	1	FOR 18T
57	ditto	ditto	1	FOR 21T
58	ditto	ditto	1	FOR 22T
61	ditto	ditto	1	FOR 25T
64	ditto	ditto	1	FOR 28T
~~65~~	~~ditto~~	~~HAND OPERATE DRUM DIA 8" x W 11"~~	~~1~~	~~FOR 29T~~
~~70~~ 73	LIGHTNING TOWER	HEIGHT 50 M BUILTUP STRUCTURE	1	
~~73~~	~~ditto~~	~~ditto~~	~~1~~	
76	FOMITE APPARATUS	5 MIXING TANKS DIA 11M x H 4.25 M	1	
77	ditto	ditto	1	
25V	6" SLUICE VALVE	BODY C.I FACE TO FACE ~~250mm~~ 280	1	
72V	8" SLUICE VALVE	BODY C.I FACE TO FACE 300mm	1	
73V	6" ATOMOS VALVE	BODY C.I	1	
74V	ditto	ditto	1	
75V	ditto	ditto	1	
78V	ditto	ditto	1	
87V	ditto	ditto	1	
88V	ditto	ditto	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

76	FOMITE APPARATUS	5 MIXING TANKS DIA 11M x H 4.25 M	1	
77	ditto	ditto	1	
25V	6" SLUICE VALVE	BODY C.I 280 FACE TO FACE ~~250mm~~	1	
72V	8" SLUICE VALVE	BODY C.I FACE TO FACE 300mm	1	
73V	6" ATOMOS VALVE	BODY C.I	1	
74V	ditto	ditto	1	
75V	ditto	ditto	1	
78V	ditto	ditto	1	
87V	ditto	ditto	1	
88V	ditto	ditto	1	
91V	6" SLUICE VALVE	BODY C.I. FACE TO FACE 280mm	1	
92V	ditto	ditto	1	
114V	6" ATOMOS VALVE	BODY C.I.	1	
115V	ditto	ditto	1	
126V	ditto	ditto	1	
127V	ditto	ditto	1	
132V	ditto	ditto	1	
133V	ditto	ditto	1	
141V	8" SLUICK VALVE	BODY C.I. FACE TO FACE 300	1	HANDLE MISSING

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
~~115V~~	~~6" ATOMOS VALVE~~	~~BODY C.I.~~	~~1~~	
~~126V~~	~~ditto~~	~~ditto~~	~~1~~	
~~217V~~	~~ditto~~	~~ditto~~	~~1~~	
~~132V~~	~~ditto~~	~~ditto~~	~~1~~	
~~133V~~	~~ditto~~	~~ditto~~	~~1~~	
~~141V~~	~~8" SLUICE VALVE~~	~~BODY C.I.~~ ~~FACE TO FACE 300~~	~~1~~	~~HANDLE MISSING~~
142V	6" ATOMOS VALVE	BODY C.I.	1	
143 V	ditto	ditto	1	
146V	ditto	ditto	1	
147V	ditto	ditto	1	
152V	ditto	ditto	1	
153V	ditto	ditto	1	
166V	ditto	ditto	1	
167V	ditto	ditto	1	
171V	ditto	ditto	1	
176V	ditto	ditto	1	STRAINER MISSING
194V	ditto	ditto	1	
195V	ditto	ditto	1	
208V	ditto	ditto	1	
209V	ditto	ditto	1	

~~Sub Total~~ ~~Quantity~~ : ~~66~~

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

152V	ditto	ditto	1	
153V	ditto	ditto	1	
166V	ditto	ditto	1	
167V	ditto	ditto	1	
171V	ditto	ditto	1	
176V	ditto	ditto	1	STRAINER MISSING
194V	ditto	ditto	1	
195V	ditto	ditto	1	
208V	ditto	ditto	1	
209V	ditto	ditto	1	

~~Sub Total~~

~~Quantity : 66~~

~~Item : 66~~

~~ITEM No~~				
~~None~~ None	~~2pcs. of~~ STOP VALVES	SIZE : 110 mm BODY : CAST IRON	2	ATMOS VALVE IS MISTAKEN
"	PIPE (ABOVE GROUND)	DIA : 114 mm TOTAL LENGTH : 224 M	1	
"	~~14 pcs.~~ of ATMOS VALVES	SIZE : 100 mm BODY : CAST IRON TRIM : BRONZE FACE TO FACE : 270 mm	14	
"	GAS PIPE (ABOVE GROUND)	SIZE : 200 mm TOTAL LENGTH : 35 M	1	
"	ditto	SIZE : 150 mm TOTAL LENGTH : 325 M	1	
"	ditto	SIZE : 100 mm TOTAL LENGTH : 85 M	1	
"	ditto	SIZE : 75 mm TOTAL LENGTH : 128 M	1	

TOTAL ~~ITEMS : 84~~

-59- Sub Total

Item 70 (84 Pices)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

MISCELLANEOUS EQUIPMENT (45-5)

~~ACCESSORIES FOR STORAGE TANKS (II)~~ WORK

(EVALUATION SHEET NO. 785)

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
1663	10" SLUICE VALVE	BODY : C.I. FACE TO FACE : 320mm	1	
1664	ditto	ditto	1	
1665	ditto	ditto	1	
1666	ditto	ditto	1	
1667	ditto	ditto	1	
1668	ditto	ditto	1	
1669	ditto	ditto	1	
1670	ditto	ditto	1	
1671	ditto	ditto	1	
1672 ~1675	8" SLUICE VALVE	BODY : C.I. FACE TO FACE 290mm	~~1~~ 4	
1676 ~1678	ditto	ditto	~~1~~ 3	
1679 ~1680	ditto	ditto	~~1~~ 2	
1681	ditto	ditto	1	
1682	ditto	ditto	1	
1683	ditto	ditto	1	
1684	ditto	ditto	1	
1685	ditto	ditto	1	
1686	ditto	ditto	1	
1687	ditto	ditto	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

1670	ditto	ditto		1
1671	ditto	ditto		1
1672 ~1675	8" SLUICE VALVE	BODY : C.I. FACE TO FACE	290mm	~~1~~ 4
1676 ~1678	ditto	ditto		~~1~~ 3
1679 ~1680	ditto	ditto		~~1~~ 2
1681	ditto	ditto		1
1682	ditto	ditto		1
1683	ditto	ditto		1
1684	ditto	ditto		1
1685	ditto	ditto		1
1686	ditto	ditto		1
1687	ditto	ditto		1
1688	6" SLUICE VALVE	BODY : I.C. FACE TO FACE	260mm	1
1689	ditto	ditto		1
1690 ~1708	ditto	ditto		19 ~~1~~
~~NONE~~ ITEM No 3071	~~ATMOS VALVE~~	~~BODY : C.I.~~		~~14~~ FOR 1,000KL TANK 7 SETS
~~NONE~~	GAS PIPE	10"	1,010 M	1
~~NONE~~ 3074	ditto	8"	360 M	1
~~NONE~~	ditto	~~3 1/2" 100 M~~		~~1~~
~~NONE~~ 3075	GAS PIPE (ABOVE GROUND)	SIZE: 150 mm TOTAL LENGTH: 200 m		1
~~NONE~~ 3076	ditto	SIZE: 100 mm TOTAL LENGTH: 800 m		1
~~NONE~~ 3080	ditto	SIZE: 75 mm TOTAL LENGTH: 200 m		1
4OE16	TACHOMETER	WORKING REVOLUTION		1

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

1682	ditto			
1683	ditto	ditto		1
1684	ditto	ditto		1
1685	ditto	ditto		1
1686	ditto	ditto		1
1687	ditto	ditto		1
1688	6" SLUICE VALVE	BODY : I.C. FACE TO FACE	260mm	1
1689	ditto	ditto		1
1690	ditto	ditto		19 ~~1~~
~~NONE~~ ITEM No 1708	~~ATMOS VALVE~~	~~BODY : C.I.~~		~~14~~ FOR 1,000KL TANK 7 SETS
~~NONE~~ ITEM No 3071	GAS PIPE	10"	1,010 M	1
~~NONE~~ 3074	ditto	8"	360 M	1
~~NONE~~	ditto	~~3 1/2"~~ 100 M		~~1~~
~~NONE~~ 3075	GAS PIPE (ABOVE GROUND)	SIZE: 150 mm TOTAL LENGTH:	200 m	1
~~NONE~~ 3076	ditto	SIZE: 100 mm TOTAL LENGTH:	800 m	1
~~NONE~~ 3080	ditto	SIZE: 75 mm TOTAL LENGTH:	200 m	1
40F16	TACHOMETER	WORKING REVOLUTION 370 R.P.M.		1

TOTAL ITEMS ~~OF~~

Sub Total

Item 52 (52 Pices)

60

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

SERVICE TANK (45-5)

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
16(28)	TANK	VERTICAL SEMI-UNDER GROUND CAP: ~~1000 KL~~ 800 KL D : 14.0 M x H : 6.5 M	1	7-BOMB HOLES ROOF PLATE REQ'D RENEW
937	ditto	VERTICAL, CAP, 900 KL D : 11.47 M x H : 8.942 M	1	SIDE PLATE DAMAGED BY BOMBING
~~222F3~~	~~ditto~~	~~VERTICAL, CAP : 500KL D : 9.0 M x H : 8.7 M~~	~~1~~	~~2-SIDE PLATES BURNT DAMAGE~~
~~223F3~~	~~ditto~~	~~ditto~~	~~1~~	~~3- ditto~~
~~224F3~~	~~ditto~~	~~ditto~~	~~1~~	~~10- ditto~~
~~225F3~~	~~ditto~~	~~ditto~~	~~1~~	~~3- ditto~~
~~226F3~~	~~ditto~~	~~ditto~~	~~1~~	~~5- ditto~~
~~227F3~~	~~ditto~~	~~ditto~~	~~1~~	~~3- ditto~~
~~228F3~~	~~ditto~~	~~ditto~~	~~1~~	
936	ditto	VERTICAL, CAP : 400 KL D : 9.55 M x H : 5.981 M	1	ROOF MISSING
22(47)	ditto	VERTICAL, CAP : 400 KL D: 9.55 M x H: 5.486 M	1	10-BOMB HOLES 3 SHEETS OF SIDEPLATES & 1/3 OF ROOF REQ'D REPAIR
935	ditto	VERTICAL, CAP : 300 KL D : 8.21 M x H : 5.981 M	1	ROOF MISSING
1F8	ditto	VERTICAL, CAP : 300 KL D : 7.4 M x H : 8.1 M	1	
66	ditto	ditto	1	DISMANTLED
67	ditto	ditto	1	ditto

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

~~228F3~~	ditto			
936	ditto	VERTICAL, CAP : 400 KL D : 9.55 M x H : 5.981 M	1	ROOF MISSING
22(47)	ditto	VERTICAL, CAP : 400 KL D : 9.55 M x H : 5.486 M	1	10-BOMB HOLES 3 SHEETS OF SIDEPLATES & 1/3 OF ROOF REQ'D REPAIR
935	ditto	VERTICAL, CAP : 300 KL D : 8.21 M x H : 5.981 M	1	ROOF MISSING
1F8	ditto	VERTICAL, CAP : 300 KL D : 7.4 M x H : 8.1 M	1	
66	ditto	ditto	1	DISMANTLED
67	ditto	ditto	1	ditto
68	ditto	ditto	1	ditto
69	ditto	ditto	1	ditto
70	ditto	ditto	1	ditto
71	ditto	ditto	1	ditto
72	ditto	ditto	1	ditto
73	ditto	ditto	1	ditto
7[illegible]	ditto	ditto	1	ditto
76	ditto	ditto	1	ditto
77	ditto	ditto	1	ditto
11F10	ditto	VERTICAL, CAP : ~~230~~ 100 KL D : ~~[illegible]~~ 7 x H : 6.1 M	1	WINCH & SWING PIPE MISSING
12F10	ditto	ditto	1	ditto

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
137F10	TANK	VERTICAL CAP : ~~230~~ 100 KL D : ~~7.1~~ 5 M x H : 6.1 M	1	WINCH & SWING PIPE MISSING
138F10	ditto	ditto	1	ditto
938	ditto	VERTICAL CAP : 200 KL D : 6.68 M x H : 5.97 M	1	
37F2	ditto	VERTICAL CAP : 150 KL D : 7.49 M x H : 3.36 M	1	
38F2	ditto	ditto	1	
51F2	ditto	ditto	1	
178F2	ditto	ditto	1	
~~24(38)~~	~~ditto~~	~~VERTICAL CAP : 150 KL~~ ~~D : 5.72 M x H : 5.986 M~~	~~1~~	~~ROOF & SHELL BOMB HOLE~~
~~24(39)~~	~~ditto~~	~~ditto~~	~~1~~	~~ditto~~
137F2	ditto	VERTICAL CAP : ~~100~~ 150 KL D : 6.49 M x H : 3.36 M	1	
31F6	ditto	VERTICAL CAP : ~~100~~ 60 KL D : 5.3 M x H : 4.5 M	1	
32F6	ditto	ditto	1	
33F6	ditto	ditto	1	
~~139F9~~	~~ditto~~	~~VERTICAL, CAP : 100 KL~~ ~~D : 5.2 M x H : 4.73 M~~	~~1~~	
~~140 F9~~	~~ditto~~	~~ditto~~	~~1~~	
~~141F9~~	~~ditto~~	~~ditto~~	~~1~~	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

~~24(39)~~	~~ditto~~	~~ditto~~	~~1~~	~~ditto~~
137F2	ditto	VERTICAL CAP : ~~100~~ 150 KL D : 6.49 M x H : 3.36 M	1	
31F6	ditto	VERTICAL CAP : ~~100~~ 60 KL D : 5.3 M x H : 4.5 M	1	
32F6	ditto	ditto	1	
33F6	ditto	ditto	1	
~~139F9~~	~~ditto~~	~~VERTICAL, CAP : 100 KL~~ ~~D : 5.2 M x H : 4.73 M~~	~~1~~	
~~140 F9~~	~~ditto~~	~~ditto~~	~~1~~	
~~141F9~~	~~ditto~~	~~ditto~~	~~1~~	
~~142F9~~	~~ditto~~	~~ditto~~	~~1~~	
17(38)	ditto	VERTICAL CAP : ~~60~~ 50 KL D : 4.0 M x H : 5.0 M	1	SIDE PLATE DAMAGED BY BOMBING
16(8)	ditto	VERTICAL CAP: 50 KL D : 4.6 M x H : 3.6 M UNDER GROUND	1	
16(9)	ditto	ditto	1	ROOF DAMAGED BY BOMBING
16(10)	ditto	ditto	1	ditto
16(11)	ditto	ditto	1	
16(12)	ditto	ditto	1	
16(13)	ditto	ditto	1	
126F2	ditto	VERTICAL, CAP : 50 KL D : 4.58 M x H : 3.36 M	1	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

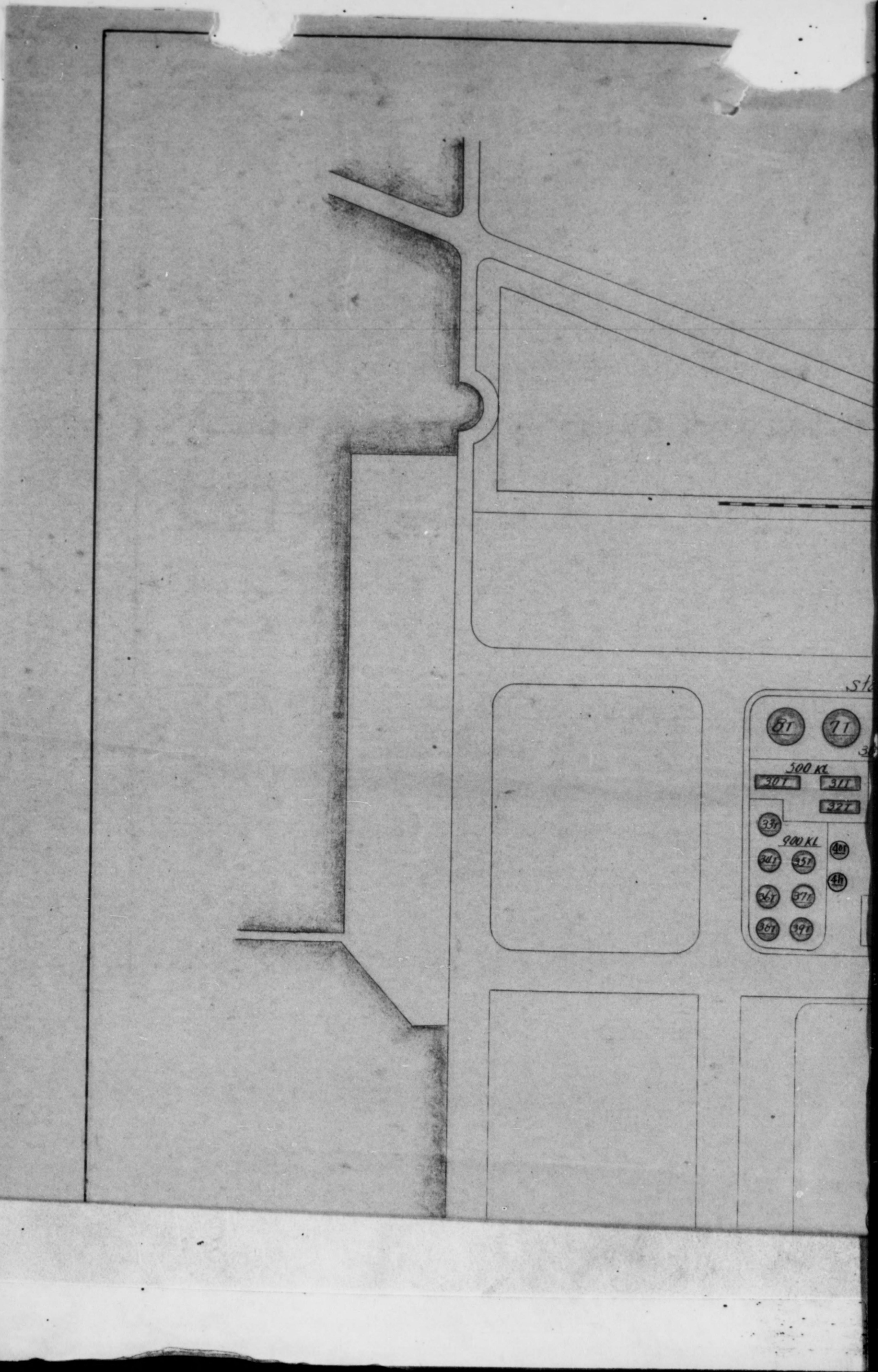
Inv. No.	Name of Machinery	Brief Specification	Quantity	Remarks
~~229F3~~	~~TANK~~	~~VERTICAL, CAP : 50 KL D : 4.75 M x H : 3.0 M~~	~~1~~	
~~200F5~~	~~GAS HOLDER~~	~~VERTICAL, CAP : 2,000 M^3 DIA : 16,000 mm~~	~~1~~	
		~~Sub Total~~		
		~~Quantity :~~	~~53~~	
		~~Item :~~	~~53~~	
17(40)	GAS HOLDER	VERTICAL TYPE 500 M^3, D: 8 M, H: 12 M	1	
17(41)	ditto	ditto	1	
		TOTAL ITEMS	40 (40 Pices)	

~~GRAND TOTAL OF ITEMS 2,374~~

GRAND TOTAL 1030 (2,374 Pices)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77 5013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

PLAN OF

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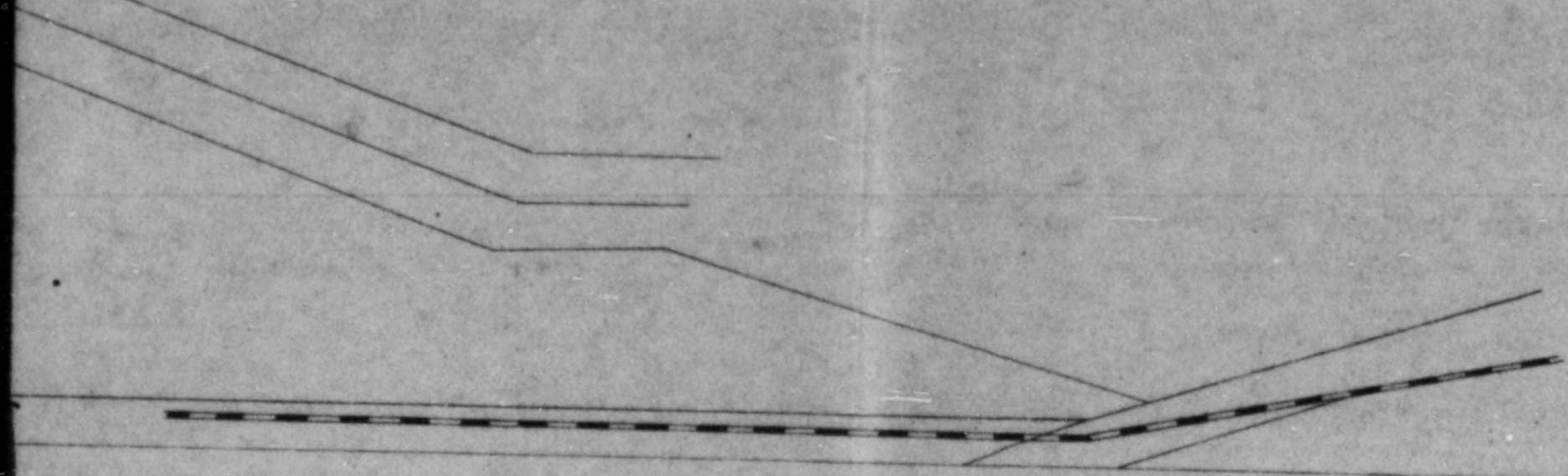
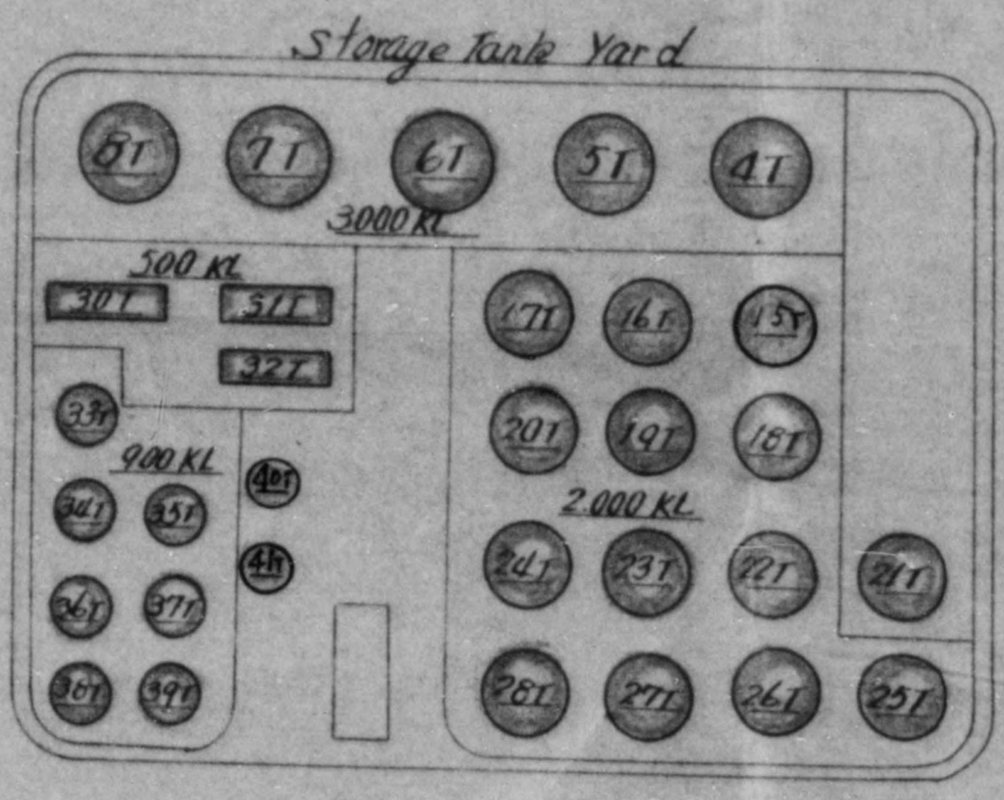
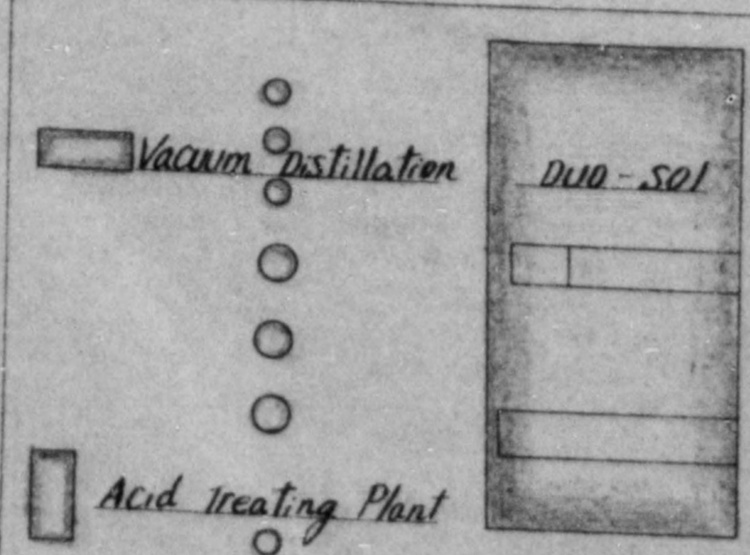
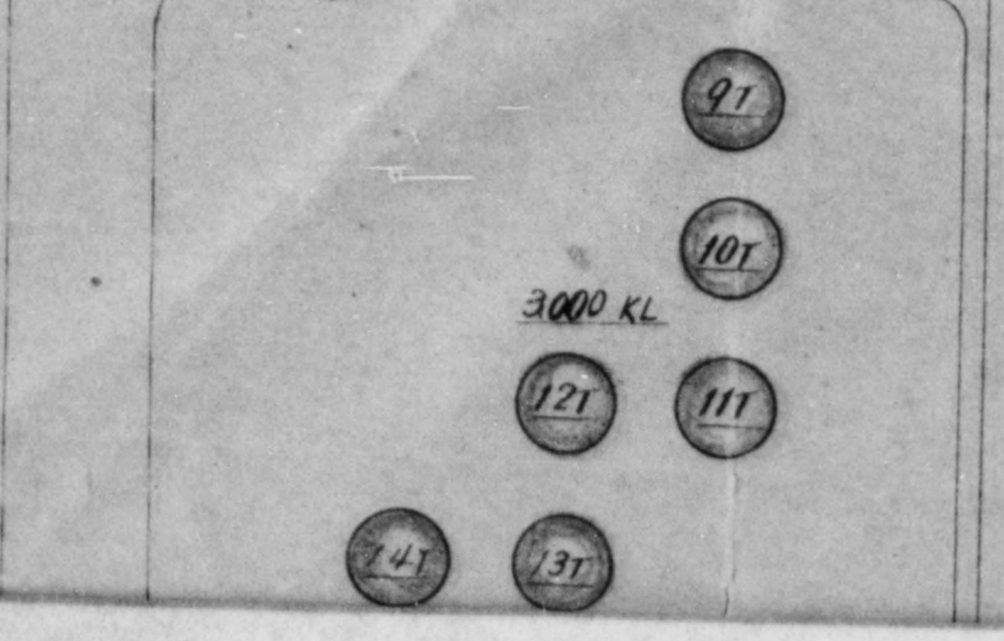








DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

PLAN OF THE MARIF

(Combinated with former Iwakuni arm

nk Yard

5T 4T

17T 16T 15T

20T 19T 18T

2,000 KL

24T 23T 22T 21T

28T 27T 26T 25T

9T

10T

3000 KL

12T 11T

13T

Vacuum Distillation

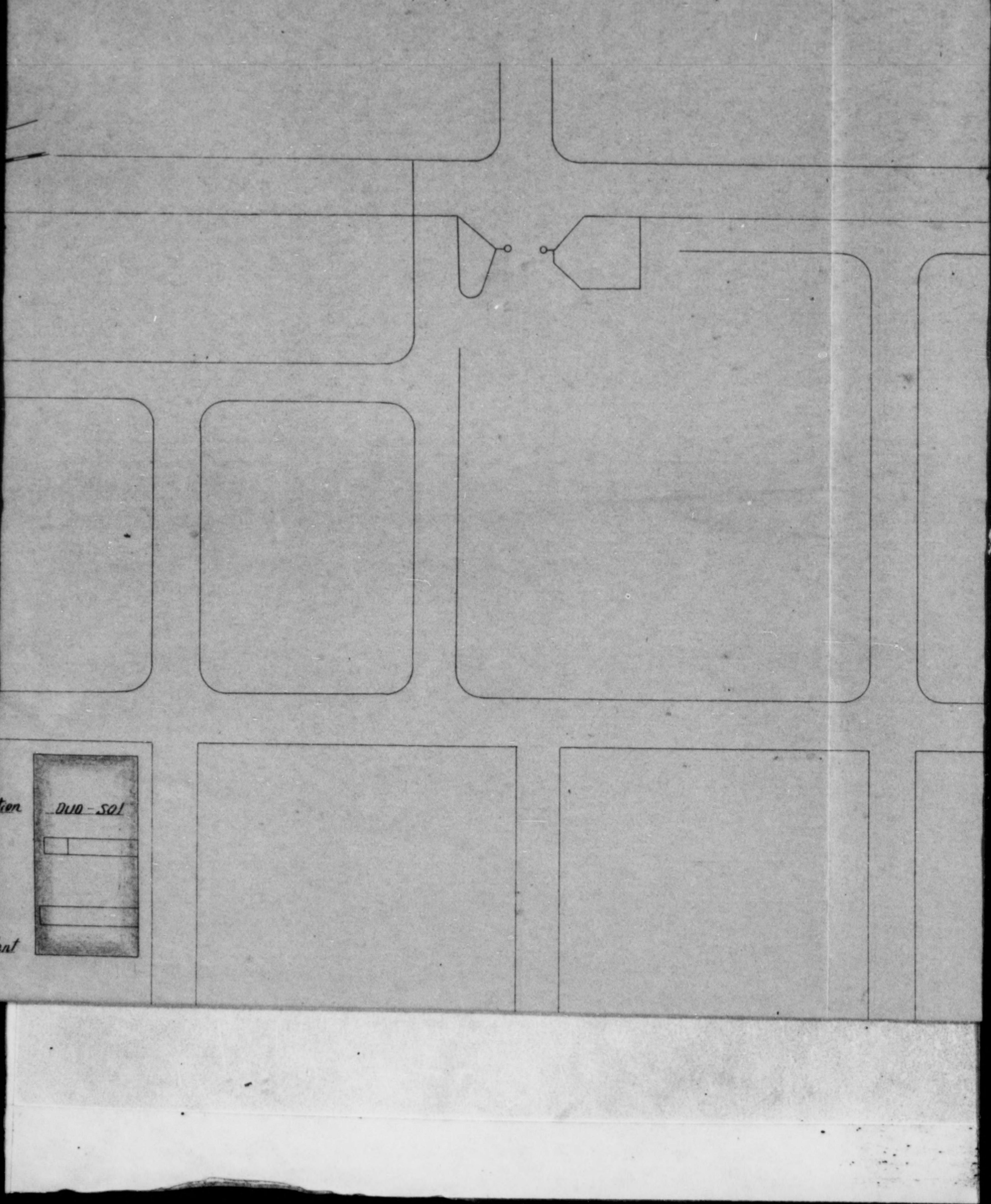
DUO - SOL

Acid Treating Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

PLAN OF THE MARIFU REFINERY

(Combinated with former Iwakuni army fuel depot)

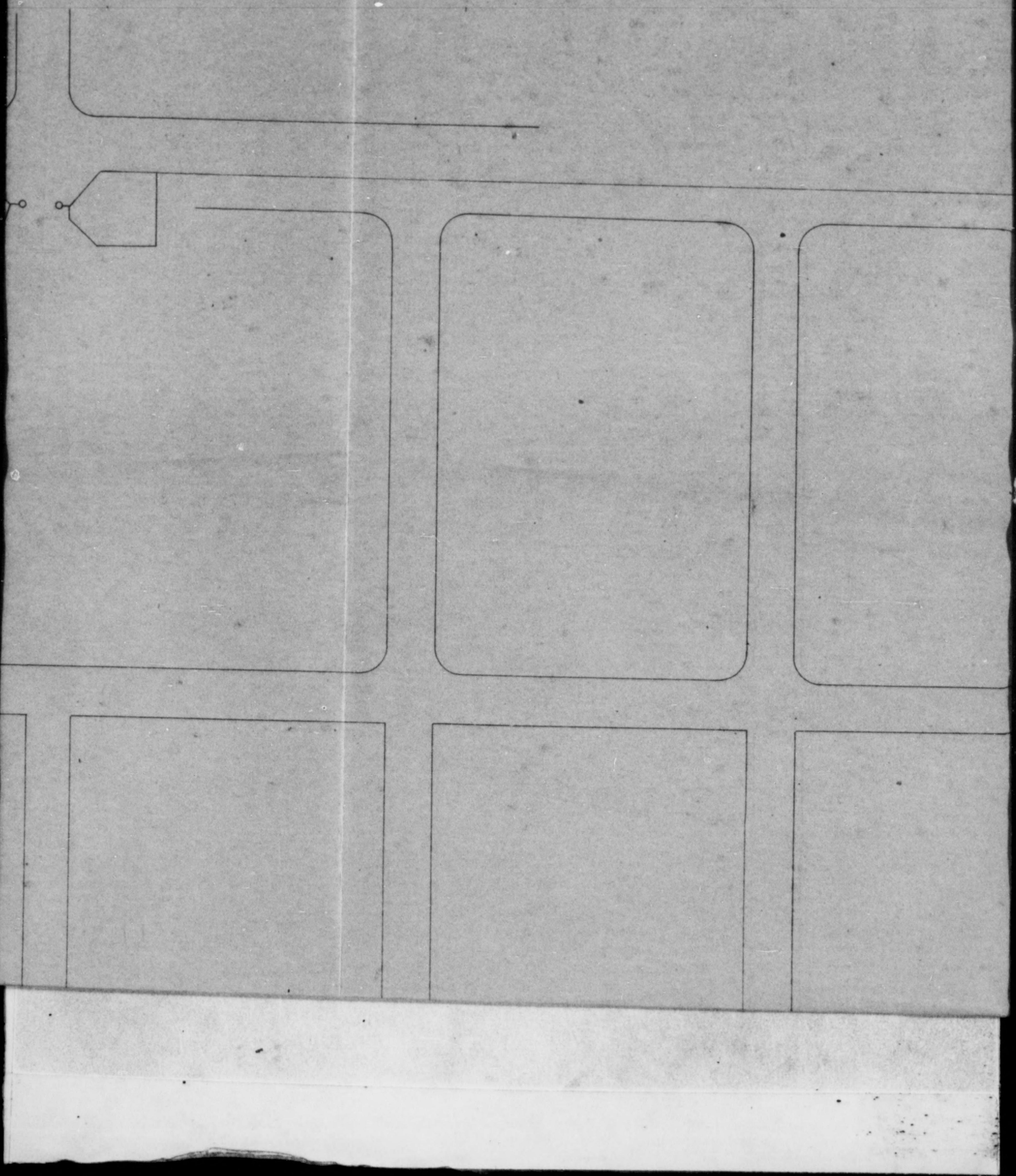


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

RIFU REFINERY

(army fuel depot)

Scale 1/2000



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Scale 1/2000

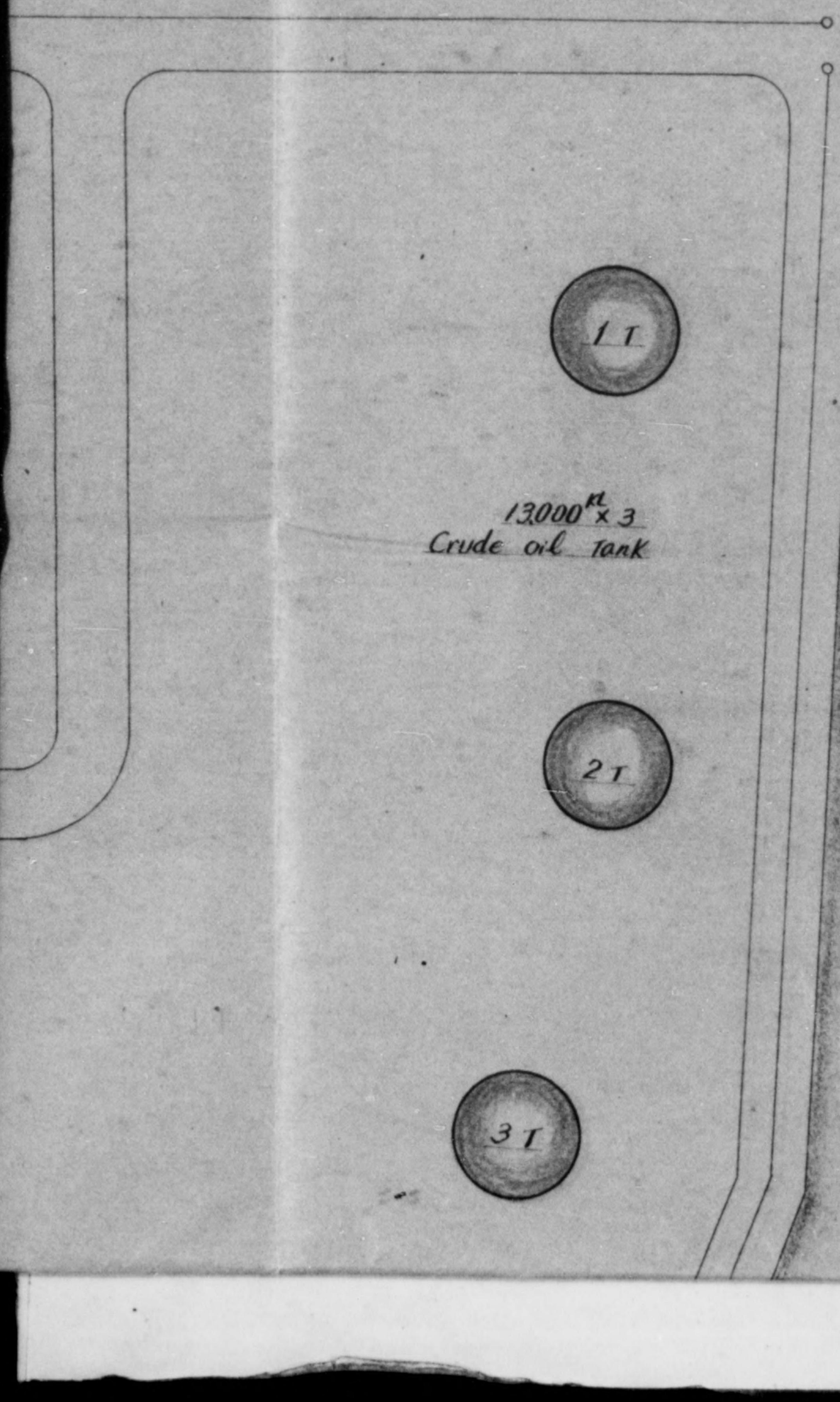
1T

13.000m x 3
Crude oil tank

2T

3T

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

9T

10T

3000 KL

12T

11T

14T

13T

Machineries for Drum filling Equipment are stored in this warehouse.

Sea Water Pump

Crude oil Pump

Wharf

Drum Filling House

Drum cleaning House

Machineries for Drum Manufacturing Equipment are stored in warehouse

Ethyl Mixing Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Vacuum Distillation

DUO - SOL

Acid Treating Plant

Contact Rerun

Bari - SOL

eaning House

uring
ouse

High Press. Boiler

Proposed
Area for 1.000 Bbl
Contact Rerun
Plant

Proposed Area for
3.000 Bbl
Vac-Dist. Plant

Topping plant

100 KL

50 KL

3000 KL

50 KL

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

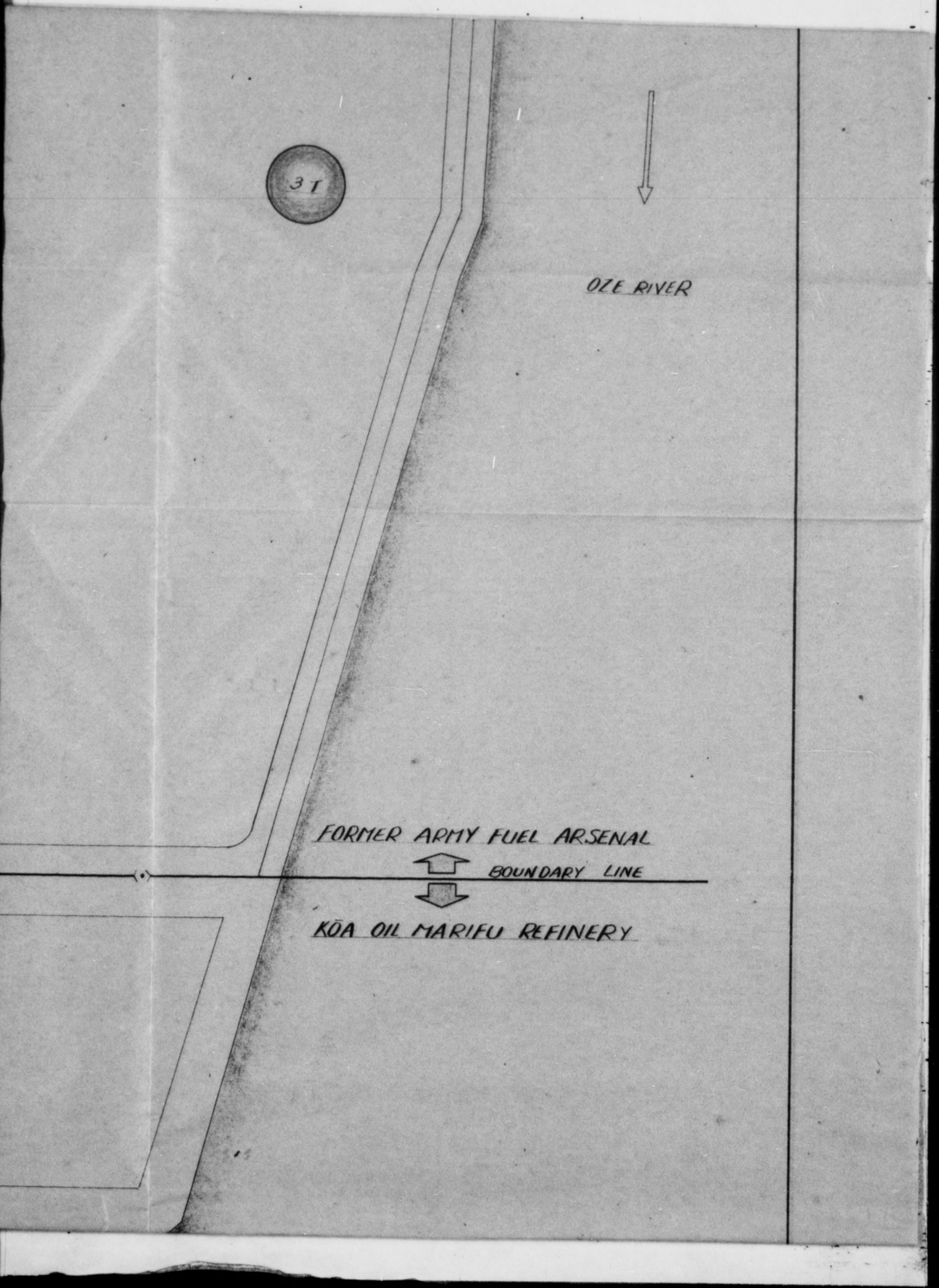
DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

r office

ratory

12.000 KL
Crude Oil Tank

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013



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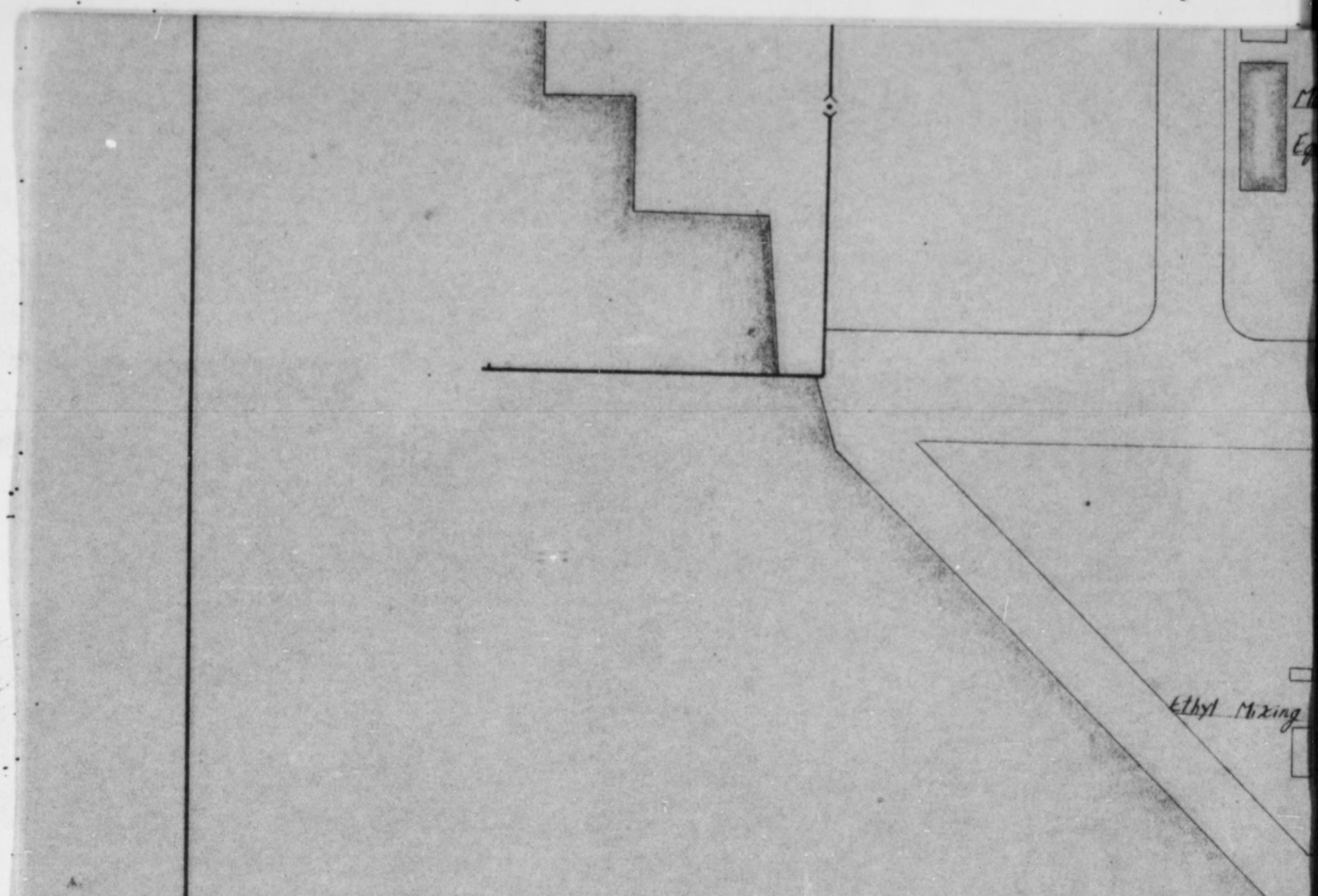

Note

indicates temporary use machineries which are already approved.

indicates machineries for which application for temporary us

SETO INLAND SEA

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Machineries for Drum Manufacturing Equipment are stored in warehouse

Ethyl Mixing Plant

2000 KL

300 KL

50 KL

80 KL

Continuous treating plant

Proposed Area for 1.000 Bbl Contact Rerun Plant

Proposed Area for 3.000 Bbl Vac-Dist. Plant

Proposed Area for 2.700 Bbl Lube treating

Proposed Area for 1.500 Bbl Duo-sol plant & 2.000 Bbl Bari-sol plant

which are already approved.

application for temporary use will be made.

4 -

NLAND SEA

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Proposed Area for 1.000 Bbl Contact Rerun Plant

Proposed Area for 3.000 Bbl Vac-Dist. plant

Topping plant

100 KL

50 KL

3000 KL

50 KL

Proposed Area for 2.700 Bbl Lube treating

Proposed Area for 1.500 Bbl Duo sol plant & 2.000 Bbl Bari-sol plant

100 KL

50 KL

200 KL

Iheimal Cracking plant

100 KL

1000 KL

500 KL

Boiler

80 KL

Iron Wor

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Main office

Laboratory

12.000KL
Crude oil Tan

Boiler

Iron Works

80KL

200KL

500KL

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

FORMER A

KOA OIL MA

12.000 KL
Crude Oil Tank

OZE

N

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

FORMER ARMY FUEL ARSENAL

BOUNDARY LINE

KŌA OIL MARIFU REFINERY

OZE RIVER

N