

**- PROPOSAL-**

**◆ STEAM–TURBINE POWER GENERATION  
EQUIPMENT (SALES)  
POWER 97.5Mw (97,500kw)**

# 97.5 Mw Steam-Turbine Power Generation Plant

## POWER 97.5Mw (97,500kw)

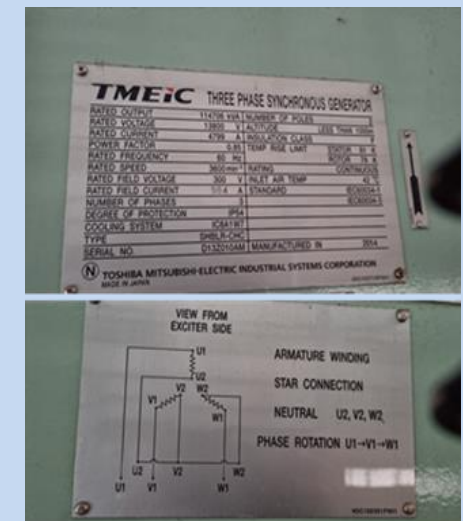
### ◆ Steam -Turbine Power Generation 97.5MW (sale equipment)



- **Specifications: Steam Turbine**
  - Mitsui-Alstom
  - Steam turbine 97.5Mw
  - Year Of BUILT 2014  
(Manufactured: 2014)

EQUIPMENT ITEM NO. EX-1051			
MITSUI – ALSTOM STEAM TURBINE			
MODEL NO.	CD30.46	TURBINE TYPE	EXTRACTION CONDENSER
SERIAL NO.	476	NOR. INLET PRESS.	70 BarG
RATED POWER	97,500 kW	NOR. INLET TEMP.	490 °C
RATED & MAX. CONTINUOUS SPEED	3,600 rpm	NOR. NO.1 EXTRACTION PRESS.	31.5 BarG
CALC. 1st LATERAL CRITICAL SPEED	1,250 rpm	NOR. NO.2 EXTRACTION PRESS.	5.5 BarG
CALC. 2nd LATERAL CRITICAL SPEED	3,100 rpm	NOR. EXHAUST. PRESS.	0.11 BarA
YEAR OF BUILT 2014			
MITSUBISHI ENGINEERING & SHIPBUILDING CO., LTD. TAMANO WORKS, JAPAN			

- **Specifications: Generation**
  - Toshiba-Mitsubishi Electric Industrial System.
  - OUTPUT: 114,706KVA
  - Voltage: 13800V
  - Frequency: 60 Hz
  - Year Of BUILT 2014  
(Manufactured: 2014)



# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Steam Turbine Specification

- **Manufacture** : MES (Mitsui engineering shipbuilding)
- **Manufacturing Date** : 2014
- **Operating** : Generator Output Power
  - Max. : 97.5Mw x 3600 rpm (steam 428.1 t/h x 70 bar,g)
  - Nor. : 85 Mw x 3600 rpm (steam 385.3 t/h x 70 bar,g)

## ◆ Generator Specification

- **Manufacture** : TMEIC (Toshiba Mitsubishi-electric Industrial Sys. Corp.)
- **Manufacturing Date** : 2014
- **Output** : 114,706 kVA(97.5Mw) x 3 phase 3 wire
- **Type** : Totally Enclosed Water to Air Cooled(IC81W), Cylindrical type rotor, Brushless type with PMG
- **Voltage & Frequency** : 13,800V x 60Hz x 2P
- **Speed & Current** : 3600rpm & 4,799A

## 97.5 Mw Steam-Turbine Power Generation Plant

### ◆ Steam boiler facilities are manufactured separately.

#### ◆ Manufacture of Steam Boiler Equipment Required for Steam Power Generation Materials

- Review of raw materials for power generation

- a. Coal Steam Boiler

- b. LNG Steam Boiler

- c. Heavy oil Steam boiler

- d. Renewable Energy & Wood Pallet Steam boiler

- Power plant installation and completion. Total cost up to normal operation.

- Submit detailed information after buyer review.

# 97.5 Mw Steam-Turbine Power Generation Plant

## Generator Specification

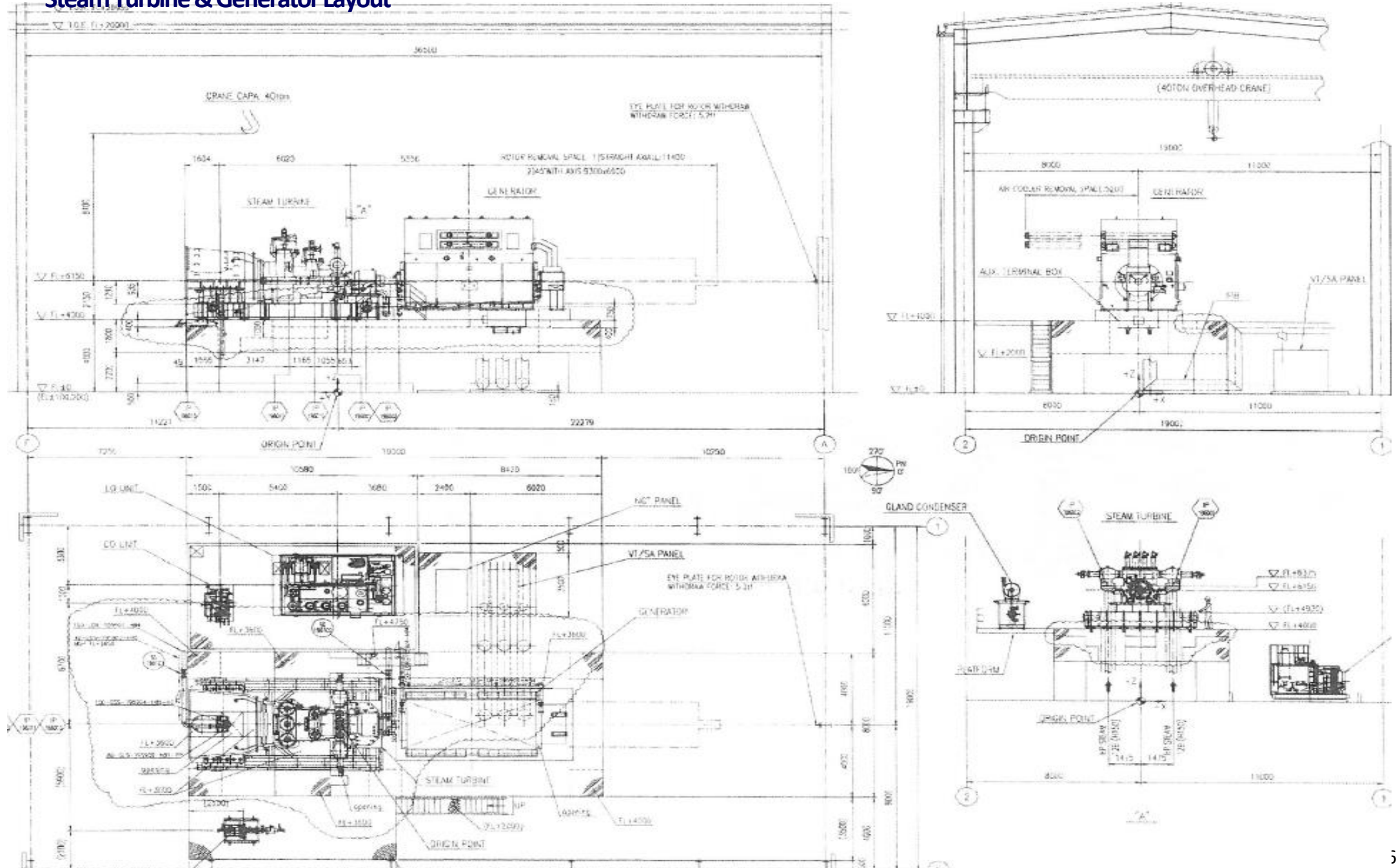
SPECIAL PURPOSE STEAM TURBINE DATA SHEET (API 612-6th)									
CLIENT: POSCO Engineering & Construction		ITEM NO. :							
UNIT: Steam Turbine Generator for SNG proj.		LOCATION: POSCO Gwangyang steel work, KOREA							
1	EQUIPMENT NAME	Steam Turbine		NUMBER REQUIRED		One			
2	NOTE	<input type="checkbox"/> INDICATES INFORMATION TO BE COMPLETED BY PURCHASER <input type="checkbox"/> BY MANUFACTURER							
3	APPLICABLE TO	<input type="checkbox"/> PROPOSAL <input checked="" type="checkbox"/> PURCHASE <input type="checkbox"/> AS BUILT							
4	MANUFACTURER	MES		MODEL		CD 30.45		SERIAL NO.	
5	DRIVEN EQUIPMENT ITEM No.								
6	DRIVEN EQUIPMENT TYPE	<input type="checkbox"/> CENT. COMPRESSOR <input checked="" type="checkbox"/> GENERATOR <input type="checkbox"/> ROTARY COMPRESSOR <input type="checkbox"/> OTHER							
PERFORMANCE									
9	OPERATING POINTS	GENERATOR		INLET		INDUCT. / EXTRACT.		EXHAUST	
10	AS APPL.	OUTPUT	SPEED	FLOW	PRESS	TEMP	FLOW	PRESS	TEMP
11		POWER							
12		KW	RPM	th	barG	*CTT	kg/h	kg/cm <sup>2</sup> g	*CTT
13	MAXIMUM Case 5-1	97500	3600	428.1	70	490	-	-	0.11
14	GUARANTEE Case 1-1	85080	3600	385.3	70	490	-	-	0.11
15	GUARANTEE Case 1-2	82030	3600	385.3	70	490	-	-	0.11
16	MINIMUM Turndown 2	20160	3600	134.9	70	490	-	-	0.11
UNLESS OTHERWISE SPECIFIED, ALL PRESSURE UNITS ARE "GAUGE"									
17	STEAM RATE (3.44)	NORMAL		RATED		kg/kW-hr		<input type="checkbox"/> INDUCTION <input type="checkbox"/> CONTROLLED <input type="checkbox"/> UNCONTR	
18	POTENTIAL MAXIMUM POWER (3.30)			KW				<input type="checkbox"/> No.1 EXTRACT <input type="checkbox"/> CONTROLLED <input type="checkbox"/> UNCONTR	
19								<input type="checkbox"/> No.2 EXTRACT <input type="checkbox"/> CONTROLLED <input type="checkbox"/> UNCONTR	
STEAM CONDITIONS									
21				<input checked="" type="checkbox"/> INLET	<input checked="" type="checkbox"/> EXHAUST	<input checked="" type="checkbox"/> No.1 EXTRACT	<input checked="" type="checkbox"/> No.2 EXTRACT	<input type="checkbox"/> EXTRACTION	
22						INDUCTION	INDUCTION		
23	FLOW	MAXIMUM Case 5-1		428.1	300.51	70.84	56.64		
24	th	GUARANTEE Case 1-1		385.3	286.12	85.03	54.04		
25		GUARANTEE Case 1-2		385.3	247.95	65.03	72.2		
26		MINIMUM		134.9	90.10	21.78	22.93		
27	PRESSURE	MAXIMUM Case 5-1		70	0.11 barA	31.50	5.5		
28	barG	GUARANTEE Case 1-1		70	0.11 barA	31.50	5.5		
29		GUARANTEE Case 1-2		70	0.11 barA	31.50	5.5		
30		MINIMUM		70	0.11 barA	31.50	5.5		
31	TEMPERATURE	MAXIMUM Case 5-1		490	47.7	385.7	215.2		
32	*CTT	GUARANTEE Case 1-1		490	47.7	388.5	223.3		
33		GUARANTEE Case 1-2		490	47.7	388.5	220.5		
34		MINIMUM		490	47.7	442.8	339.1		
SITE AND UTILITY DATA (See Sheet 1 for General & Site Information)									
35	LOCATION : (S.1.17)	<input type="checkbox"/> INDOOR <input type="checkbox"/> HEATED <input type="checkbox"/> UNHEATED		<input checked="" type="checkbox"/> OUTDOOR <input checked="" type="checkbox"/> UNDER ROOF <input type="checkbox"/> PARTIAL SIDES					
36		<input type="checkbox"/> GRADE <input type="checkbox"/> MEZZANINE <input type="checkbox"/> OTHER:		<input type="checkbox"/> WINTERIZATION REQD <input type="checkbox"/> TROPICALIZATION REQD					
37		<input type="checkbox"/> LOW TEMPERATURE <input type="checkbox"/> CORROSIVE AGENTS		<input checked="" type="checkbox"/> ELECTRICAL AREA CLASSIFICATION Non-Hazardous					
38		CLASS GROUP DIVISION		<input checked="" type="checkbox"/> COOLING WATER					
39		ZONE GROUP TEMPERATURE RATING		VOLTS AC440 A.C.220 DC110V/AC110					
40	ELEVATION 5.5 m BAROMETER	kg/cm <sup>2</sup>		PHASE 3 1 - / 1 - / 1					
41	WINTER TEMP Min.-15.5 °C SUMMER TEMP Max.37.2 °C	°C		HERTZ 60 60 - / 60 - / 60					
42	REL HUMIDITY % DESIGN WET BULB °C	°C		<input type="checkbox"/> kW AVAIL					
43	UNUSUAL CONDITIONS <input type="checkbox"/> DUST <input type="checkbox"/> FUMES			<input checked="" type="checkbox"/> COOLING WATER					
44	OTHER			PRESS. NORM 4.0 DESIGN 6.0 barG					
45	UTILITY CONDITIONS:			MIN RETURN PRESS 2.5 barG					
46	AUXILIARY STEAM	MAX	NORM	MIN	MAX ALLOWABLE PRESS DROP bar				
47	INIT. PRESS barG	5			WATER SOURCE Cooling water				
48	INITIAL TEMP *CTT	150			VELOCITY MIN MAX m / s				
49	EXH PR kg/cm <sup>2</sup> g	-			FOULING FACTOR h m <sup>2</sup> / kcal				
50	INSTRUMENT AIR barG	7			<input checked="" type="checkbox"/> UTILITY CONSUMPTION				
51	INSTRUMENT AIR DEW POINT:				COOLING WATER app.300 m <sup>3</sup> /h INSTR AIR app.50 m <sup>3</sup> /h				
52					AUX STM : NORMAL app.500 kg/h MAX kg/h				
					AUX DRIVERS : ELEC kW STEAM kg/h				
					HEATER(S) kW OTHER:				
					COOLING WATER 40 th for gland condenser				

### 1. GENERATOR

- (1) Quantity : 1(one)
- (2) Type form : Totally Enclosed Water to Air Cooled (IC81W), Cylindrical type rotor, brushless type with PMG
- (3) Enclosure : IP 54, Generator frame and terminal boxes
- (4) Output : 114,706kVA (97,500kW)
- (5) Phase : Three (3) phase three(3) wire
- (6) Power factor : 85% Lagging (Operation range: 85% Lagging ~ 95% Leading)
- (7) Voltage : 13,800V
- (8) Frequency : 60Hz
- (9) No. of pole : 2
- (10) Speed : 3,600min<sup>-1</sup>
- (11) Current : 4,799A
- (12) Rating : Continuous
- (13) Connection : Star (Neutral brought out)
- (14) Insulation class : Class F (Temp. rise: Class B)
- (15) Bearing : Sleeve metal, forced lubrication and oil jacking (Lub. oil shall be supplied by turbine side) (Lub. oil inlet temp. : Max. 45 °C, Pressure: [ 0.15 --Normal]MPa, Q'ty: 340 Jitter/min, Type: ISO VG32 )
- (16) Excitation system : Brush-less type with PMG
- (17) Applicable standard : IEC 60034-1, -3
- (18) Cooling Water : Industrial water is supplied for cooling system  
Inlet temperature : 32°C,  
Maximum outlet temperature : Approx. 41°C  
at 2 coolers running  
Pressure : [0.5] MPa , Operation pressure 4bar(0.4MPa)  
Q'ty : 220m<sup>3</sup>/hour (110m<sup>3</sup>/hour x 2)  
Water quality : fresh water  
Material of Cooling Water Pipe : 90-10 Cupronickel  
Capacity of one(1) set of cooler : 67% x 2 cooler(s)
- (19) Installation : indoor
- (20) Noise Limit : Less than 97 dB (at 1m from machine's surface and no load)
- (21) Painting procedure : Refer to APPENDIX-1
- (22) Generator data (design value)  
Efficiency : 98.26% with-tolerance at 100%-load and PF=0.85  
Efficiency shall not fall below 98.06 % ( limit of tolerance)  
Xd = 212% (Unsaturation)  
Xd' = 30% (Saturation)  
Xd'' = 17% (Saturation)  
Tdo' = 7.2sec  
Tdo'' = 0.06sec  
SCR = 0.45 and over
- (23) Over Speed Strength : 120% - 2 min

# 97.5 Mw Steam-Turbine Power Generation Plant

## Steam Turbine & Generator Layout



# 97.5 Mw Steam-Turbine Power Generation Plant

◆ Sales Spec. (900U-Utility)

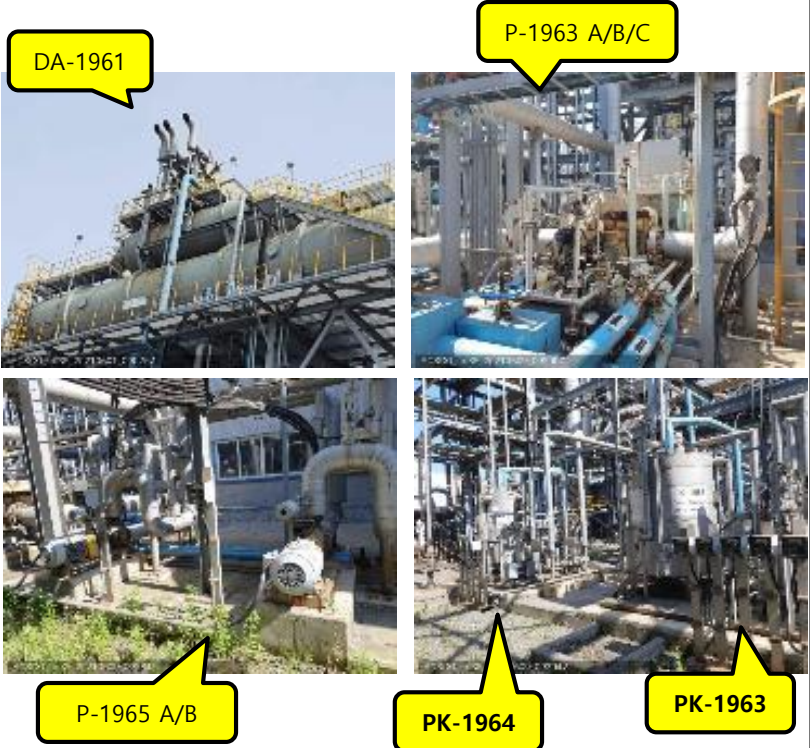
◆ Index (U-960 BOILER FEED WATER)

Unit(U-960)	Section	Condition	Remark
1. BOILER FEED WATER	1. DA-1961	Pump Lube Oil Charging	
	2. P-1963 A/B/C		
	3. P-1965 A/B		
	4. PK-1963-T1		
	5. PK-1964-T1		
	6. PK-1963-P1 A/B		
	7. PK-1963-P2 A/B		
	8. PK-1964-P1 A/B		
	9. PK-1964-P2 A/B		
2. CONDENSATE RECOVERY	10 E-1961	Pump Lube Oil Charging	
	11. E-1962		
	12. V-1962		
	13. P-1962 A/B		
	14. E-1963		
	15. E-1965		
	16. V-1965		
	17. P-1966		
	18. E-1966		

# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)

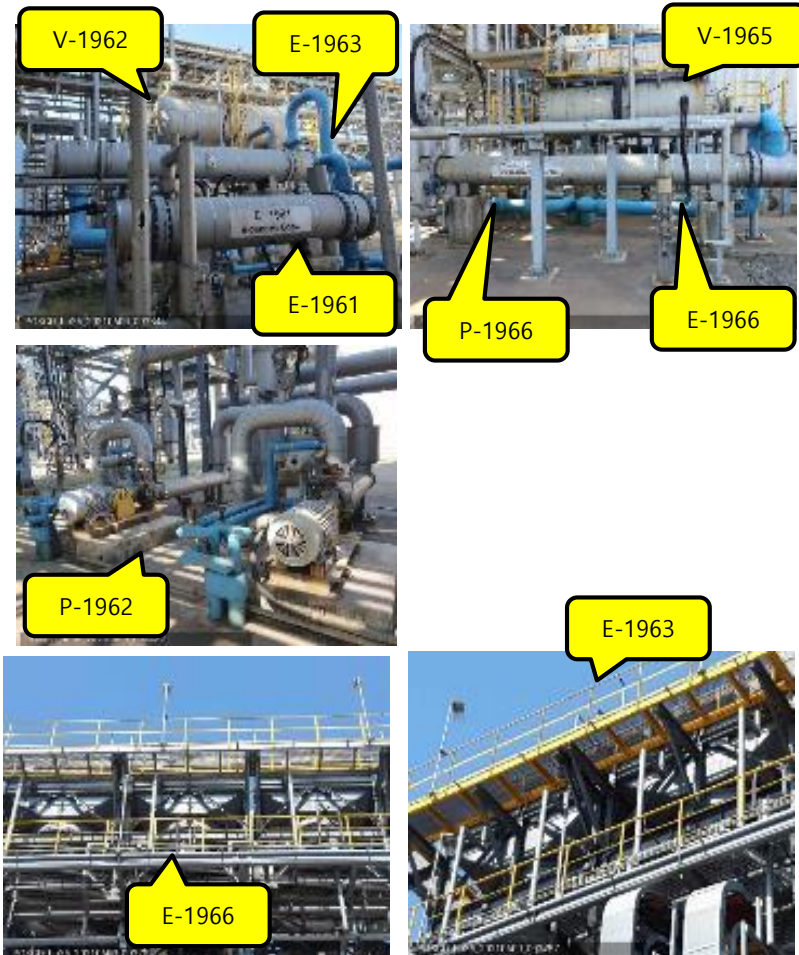
### ■ Detail Spec. U-960 (BOILER FEED WATER)

Device Name	Functioning	Photo	Specification
<b>U-960</b> <ul style="list-style-type: none"> <li>- DA-1961</li> <li>- P-1963 A/B/C</li> <li>- P-1965 A/B</li> <li>- PK-1963-T1</li> <li>- PK-1964-T1</li> <li>- PK-1963-P1 A/B</li> <li>- PK-1963-P2 A/B</li> <li>- PK-1964-P1 A/B</li> <li>- PK-1964-P2 A/B</li> </ul>	<p>DEMI WATER를 승온, 탈기 후 약품처리하여 고압의 BOILER FEED WATER 공급</p> <p>Raise the temperature of DEMI WATER and remove it and then though the chemical treatment to supply high pressure BOILER FEED WATER</p>		<ul style="list-style-type: none"> <li>- <b>DA-1961 (DEAERATOR)</b> : SIZE : 4600 mm ID × 15600 mm T/T DESING P&amp;T : 2.5 bar/FV, 165C / -15.5C</li> <li>- <b>P-1963 A/B/C (HP BFW PUMP)</b> : 446 m<sup>3</sup> × 98 barg / 1700 KW</li> <li>- <b>P-1965 A/B (LP BFW PUMP)</b> : 49.5 m<sup>3</sup> × 8.8 barg / 30 KW</li> <li>- <b>PK-1963-T1 (OXYGEN SCAVENGER INJECTION TANK)</b> :CAPACITY : 2.3 m<sup>3</sup> SIZE : 1500 mm ID × 1524 mm HT</li> <li>- <b>PK-1964-T1 (CORROSION INHIBITOR INJECTION TANK)</b> : CAPACITY : 1.3 m<sup>3</sup> SIZE : 1200 mm ID × 1524 mm HT</li> <li>- <b>PK-1963-P1 A/B (OXYGEN SCAVENGER INJECTION PUMP-HP)</b> : CAPACITY : 2 L/hr × 10 barg / 0.4KW</li> <li>- <b>PK-1963-P2 A/B (OXYGEN SCAVENGER INJECTION PUMP-LP)</b> : CAPACITY : 0.17 L/hr × 10 barg / 0.4KW</li> <li>- <b>PK-1964-P1 A/B (CORROSION INHIBITOR INJECTION PUMP-HP)</b> : CAPACITY : 4 L/hr × 10 barg / 0.4KW</li> <li>- <b>PK-1964-P2 A/B (CORROSION INHIBITOR INJECTION PUMP-HP)</b> : CAPACITY :0.54 L/hr × 10 barg / 0.4KW</li> </ul> <p>※ Agitator, Pump Lube Oil Charging상태</p>

# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)

### ■ Detail Specification U-960 (CONDENSATE)

RECOVERY) Device Name	Functioning	Photo	Specification
<b>U-960</b> - E-1961 - E-1962 - V-1962 - P-1962 A/B - E-1963 - E-1965 - V-1965 - P-1966 - E-1966	CONDENSATE를 냉각하여 DEMI' TANK로 회수하는 설비  Cooling CONDENSATE and collect it to DEMI' TANK		<ul style="list-style-type: none"> <li>- <b>E-1961 (BLOWDOWN COOLER)</b> : TEMA TYPE...AEM DUTY.....1106 × 1.1 KW AREA.....77.95 m2</li> <li>- <b>E-1962 (FLASH STEAM VENT CONDENSER)</b> : DUTY.....1106 × 1.1 KW AREA.....77.95 m2</li> <li>- <b>V-1962 (LP CONDENSATE FLASHDRUM)</b> : SIZE : 3000 mm ID × 8200 mm T/T</li> <li>- <b>P-1962 A/B (CONDENSATE RECOVERY PUMP)</b> : CAPACITY : 137 m<sup>3</sup>/hr × 5.65 barg / 45 KW</li> <li>- <b>E-1963 (CONDENSATE COOLER)</b> : TEMA TYPE...AEM DUTY.....1095 × 1.1 KW AREA.....461.01 m2</li> <li>- <b>E-1965 (LP STEAM CONDENSER)</b> : DUTY.....35239 KW AREA.....21679 m2</li> <li>- <b>V-1965 (CONDENSATE DRUM)</b> : SIZE : 1600 mm ID × 5000 mm T/T</li> <li>- <b>P-1966 (CONDENSATE PUMP)</b> : CAPACITY : 59.2 m<sup>3</sup>/hr × 3.7 barg / 15 KW</li> <li>- <b>E-1966 (CONDENSATE TRIM COOLER)</b> DUTY.....2079 KW AREA.....92.4 m2</li> </ul> <p>※ Agitator, Pump Lube Oil Charging상태</p>

# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)


### ■ Sales Specification Index (PK-1961 Steam Turbine Generator)

Unit(PK-1961)	Section	Condition	Remark
1. Steam Turbine Generator	1. PK-1961	Pump Lube Oil Charging	
	2. PK-1961-E1		
	3. PK-1961-K1		
2. OIL SYSTEM	4. PK-1961-T1	Pump Lube Oil Charging	
	5. PK-1961-K2		
	6. PK-1961-P1 A/B		
	7. PK-1961-P2		
	8. PK-1961-P3 A/B		
	9. PK-1961-T2		
	10. PK-1961-P4 A/B		

# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)

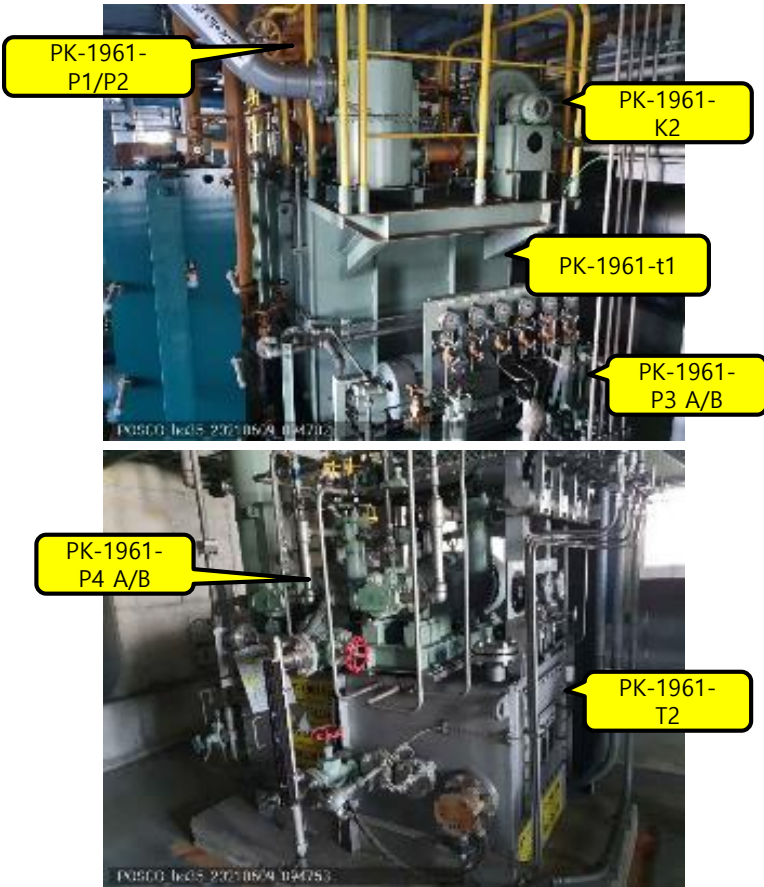
### ■ Detail Specification PK-1961 (Steam Turbine Generator)

Device Name	Functioning	Photo	Specification
<b>PK-1961</b> - PK-1961 - PK-1961-E1 - PK-1961-K1	<p>고온(490℃) 고압(70 bar)의 스팀을 발생시켜 Steam Turbine을 이용하여 열에너지를 운동 에너지로 변환하여 발전기를 회전시켜 전력을 생산</p> <p>Generate the high Temp.(490℃) and high pressure(70 bar) steam, and then rotate the steam turbine and produce the electric power</p>	 <p>PK-1961-E1</p> <p>PK-1961-K1</p> <p>Generator</p> <p>Steam Turbine</p>	<ul style="list-style-type: none"> <li>- <b>PK-1961 (Steam Turbine Generator)</b> <ul style="list-style-type: none"> <li>- 제작사 :MES(Mitsui Engineering &amp; Shipbuilding)</li> <li>- Model : CD 30.46</li> <li>- Continuous Speed : 3,600rpm</li> <li>- Critical Speed : 1,600rpm</li> <li>- Voltage : 13,800 V</li> <li>- Frequency : 60Hz</li> <li>- Stage : 16 (HP 5Stage, MP 5Stage, LP 6Stage)</li> </ul> </li> <li>- STEAM FLOW.....385.3 ton/hr PRESS.....70 barg TEMP.....490 °C POWER.....85 MW/hr</li> <li>- <b>PK-1961-E1(GLAND STEAM CONDENSER)</b> <ul style="list-style-type: none"> <li>: DUTY.....141053 KW</li> <li>AREA.....4.49 m2</li> </ul> </li> <li>- <b>PK-1961-K1 (GLAND CONDENSATE VENT FAN)</b> <ul style="list-style-type: none"> <li>: CAPACITY : 9 CMM × 500 mmAq / 3.7 KW</li> </ul> </li> </ul> <p>※ Oil Unit Lube Oil Charging</p>

# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)

### ■ Detail Specification PK-1961 (Steam Turbine Generator)

Device Name	Functioning	Photo	Specification
<b>PK-1961 (OIL SYSTEM)</b> <ul style="list-style-type: none"> <li>- PK-1961-T1</li> <li>- PK-1961-K2</li> <li>- PK-1961-P1 A/B</li> <li>- PK-1961-P2</li> <li>- PK-1961-P3 A/B</li> <li>- PK-1961-T2</li> <li>- PK-1961-P4 A/B</li> </ul>	TURBINE OIL supplying Equipment		<ul style="list-style-type: none"> <li>- <b>PK-1961-t1 (LO TANK)</b> : CAPACITY : 7570 L</li> <li>- <b>PK-1961-K2 (LO TANK VENT PAN)</b> : CAPACITY : : 600 m³/hr × 300 mmAq</li> <li>- <b>PK-1961-P1 A/B (LO PUMP)</b> : CAPACITY : 1100 L/min × 4.5 barg</li> <li>- <b>PK-1961-P2 (EMER' LO PUMP)</b> : CAPACITY : 350 L/min × 1.5 barg</li> <li>- <b>PK-1961-P3 A/B (JACKING OIL PUMP)</b> : CAPACITY : 49.2 L/min × 210 barg</li> <li>- <b>PK-1961-T2 (CO TANK)</b> : CAPACITY : 7570 L</li> <li>- <b>PK-1961-P4 A/B (CO PUMP)</b> : CAPACITY : 40 L/min × 130 barg</li> </ul> <p>※ Lube Oil Charging상태</p>

## 97.5 Mw Steam-Turbine Power Generation Plant

### ◆ Sales Spec. (900U-Utility)

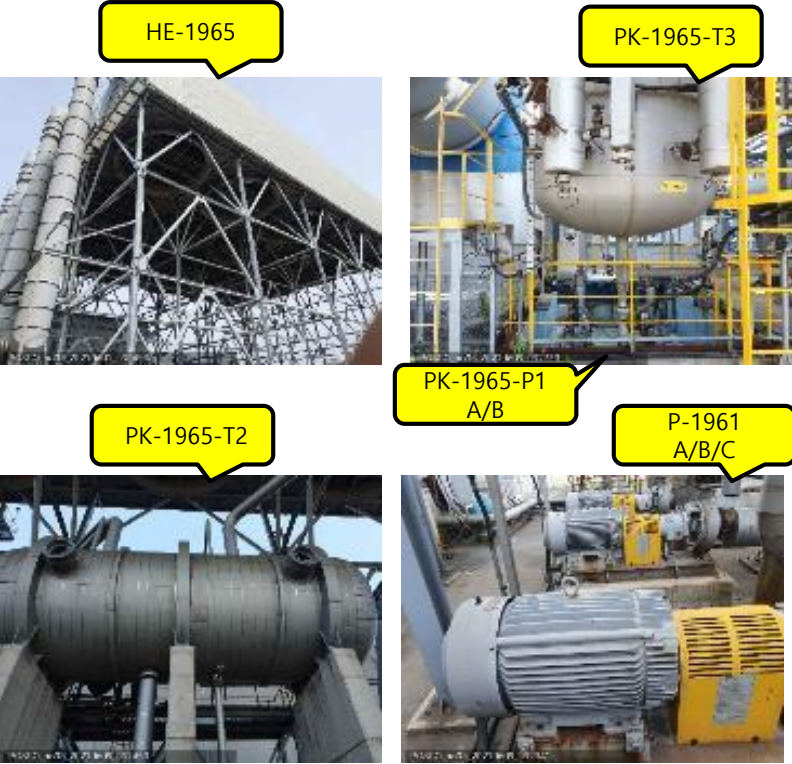
#### ■ Specification Index (PK-1965 AIR COOLED CONDENSATE)

Unit(PK-1965)	Section	Condition	Remark
1. PK-1965	1. HE-1965	Pump Lube Oil Charging	
	2. PK-1965-T3		
	3. PK-1965-P1 A/B		
	4. P-1961 A/B/C		
	5. P-1961 A/B/C		

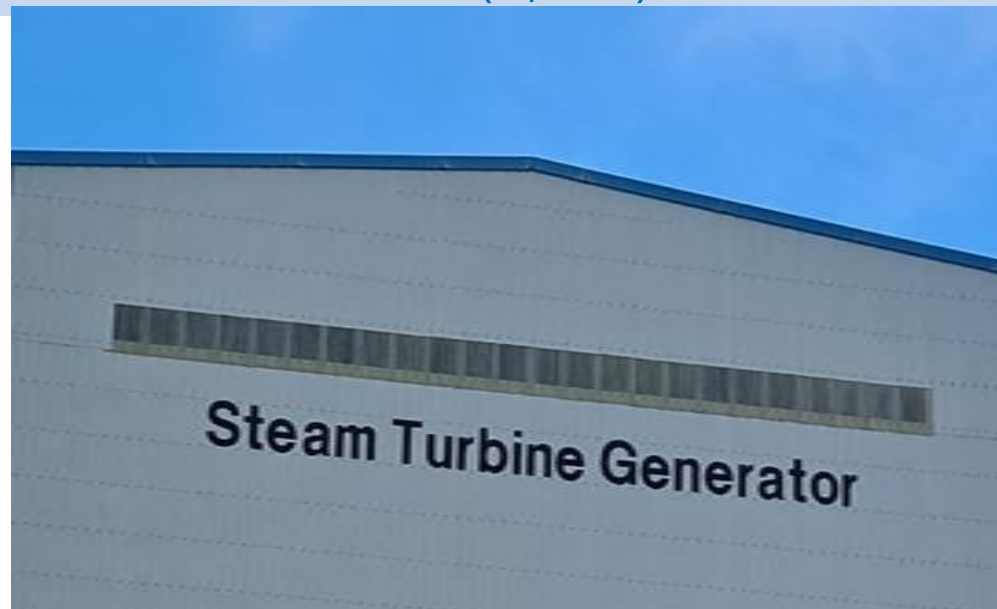
# 97.5 Mw Steam-Turbine Power Generation Plant

## ◆ Sales Spec. (900U-Utility)

### ■ Specification PK-1965 (AIR COOLED CONDENSATE)

Device Name	Functioning	Photo	Specification
<b>PK-1965</b> <ul style="list-style-type: none"> <li>- HE-1965</li> <li>- PK-1965-T3</li> <li>- PK-1965-P1 A/B</li> <li>- PK-1965-T2</li> <li>- P-1961 A/B/C</li> </ul>	<p>turbine exhaust steam을 ACC 를 통과하면서 온도와 용적을 급격하게 응축시켜 TURBINE 효율을 향상 시키는 설비</p> <p>Turbine exhaust steam passing the ACC to drop down the temperature and condensate the volume to improve the efficiency of turbine</p>		<ul style="list-style-type: none"> <li>- <b>HE-1965 (AIR COOLED CONDENSER)</b> : STEAM FLOW : 300,500 Kg/hr AIR INNET DBT : 32 °C STEAM ENTHALPY : 3,316.3 KJ/Kg DESIGN PRESSURE : FULL VACUUM TO 0.5 barg HEAT EXCHANGED : 177,175.6 KW SURFACE : 717,640.5 m2 / 4 TRAIN / 20 CELL FAN DIAMETER :10,363 mm / 110 RPM / FRP MOTOR : 440 V/149 KW/1750 RPM × 20 NoS</li> <li>- <b>PK-1965-T3 (DUCT DRAIN POT)</b> :</li> <li>- <b>PK-1965-P1 A/B (DUCT DRAIN POT PUMP)</b> :</li> <li>- <b>PK-1965-T2 (CONDENSATE TANK)</b> :</li> <li>- <b>P-1961 A/B/C (STEAM TURBINE CONDENSATE PUMP)</b> : CAPACITY : 153.3 m³/hr × 3.90 barg / 45KW</li> </ul> <p>※ Lube Oil Charging</p>

**STEAM-TURBINE POWER GENERATION  
EQUIPMENT (SALES)  
POWER 97.5Mw (97,500kw)**



PO-2022-06-00