

İSTENEN EKİPMAN VE MALZEME BİLGİLERİ

İlgili santral için mevcut koşullarda aşağıdaki türbinler ve bunlara uygun yardımcı ekipmanlara acil ihtiyaç duyulmaktadır. Bu nedenle fiyat ve teknik tekliflerinizi, ayrıca diğer ilgili bilgileri iletmenizi rica ederiz. Detaylar aşağıdaki gibidir:

- **C50-8.83/0.294 model kojenerasyon tipi türbojeneratör ve buna uygun tüm yardımcı ekipmanlar**
- **PT25-90/10M model kojenerasyon tipi türbojeneratörün temeline uygun, 30 MW'a kadar kapasiteli türbin ve buna uygun yardımcı ekipmanlar**
- **Söz konusu modellerin doğrudan fabrikadan tedarik edilip edilemeyeceği**
- **Yeni üretim yapılması durumunda gereken üretim süresi**
- **Montaj ve kurulum işleri**
 - Montajın gerçekleştirilme süresi
 - Montaj işinin fiyatı
- **Fiyat teklifi**
 - Yukarıda belirtilen koşulları kapsayan toplam fiyat teklifi (USD cinsinden)
- **Ödeme ve nakliye şartları**
 - Ödeme koşulları (ön ödeme, ödeme planı vb.)
 - Nakliye şartları, masraflar ve teslimat koşulları
 - Teslim süresi ve liman/nokta
- **Garanti süresi**
 - Türbin ve jeneratörün garanti süresi

PT-25-90/10 M TURBINE GENERATOR SPECIFICATIONS

		PT25-90/10M
№	1. Electrical Power, MW	
1	Nominal /rated output/	25
2	Maximum output	25
3	Maximum in condensing mode	25
	2.Initial steam parameters	
4	Pressure (kgf/cm ²)	90
5	Temperature °C	535
6	Steam consumption t/h	
7	Nominal steam consumption	157.5
8	Maximum steam consumption	157.5
9	In condensing mode	101.5
	3. Industrial steam extraction	
10	Pressure, (kgf/cm ²)	10
11	Adjustment range, (kgf/cm ²)	8-13
12	Steam consumption variation range, t/h	0 - 70
13	Nominal Steam Consumption, t/h	70
	4. Heating steam extraction:	
15	Pressure, (kgf/cm ²)	1.2
16	Adjustment limit, (kgf/cm ²)	0.7 - 2.5
17	Steam flow rate range, t/h	0-50
18	Nominal steam flow rate, t/h 50	50
	5. Condenser:	
19	Condenser type	KP-935-1M
20	Heat exchange surface area, calculated, m ²	935
21	Nominal circulating Water Flow Rate	3400
22	Cooling water inlet temperature, °C	20
23	Condenser steam pressure (kgf/cm ²)	0.035
24	Condenser weight tons	23.95
25	Circulating water inlet temperature range °C	10-20
26	Feed water temperature, °C	207-215

TECHNICAL SPECIFICATIONS OF THE GENERATOR

No	Technical Specifications	Value
1	Voltage	6.3 kV
2	Rated Capacity / Power Output	32000 kW
3	Power	40000 kVA
4	Rotational Speed	3000 rpm
5	Number of Phases	3
6	Connection Type	Δ/Y
7	Number of Terminals / Outlets	6
8	Excitation System	Brushless AC excitation system
9	Excitation Voltage	221 V
10	Excitation Current	492 A
11	Cooling Method / Type	Air cooling (natural)
12	Frequency	50 Hz
13	Power Factor	0.9 Cos φ
14	Stator Insulation Class	F
15	Rotor Insulation Class	F
16	Total Air Consumption / Stator Winding Phase Connection	6
17	Cooling Air Temperature / Rotor Inertia (Flywheel), t·m ²	5.4 tm ²

C50-8.83/0294 TURBINE CAPACITY SPECIFICATIONS

№	C50-8.83/0294 Turbine Capacity Specifications	
1	Rated Turbine Capacity:	50,000 kW
2	Maximum Turbine Capacity:	60,000 kW
3	Capacity in Pure Condensation Mode:	50,000 kW
4	Rated Rotational Speed:	3,000 rpm
5	Rotor Rotation Direction:	From turbine to generator, clockwise
6	Grid Frequency:	50 Hz
7	Rated Main Steam Pressure:	8.83 MPa
8	Rated Main Steam Temperature:	535°C
9	Rated Controlled Extraction Pressure:	0.294 MPa
10	Adjustable Extraction Pressure Range:	0.194–0.394 MPa
11	Extraction Steam Flow:	
	Extraction Steam Flow:	Normal / Maximum: 140 / 180 t/h
12	Main Steam Flow:	
	At Rated Extraction Load:	246 t/h
	In Pure Condensation Mode	182 t/h
13	Exhaust Steam Pressure from Turbine:	
	At Rated Extraction Load:	0.0041 MPa
	In Pure Condensation Mode	0.005 MPa
14	Cooling Water Temperature	20°C
15	Feedwater Temperature:	
	At Rated Extraction Load:	215°C
	In Pure Condensation Mode	202.7°C
16	Critical Rotational Speed of Turbine Rotor:	1612.73 rpm
17	Number of Cylinders:	1
	Number of Stages	I+13+II+5 (Total 20 stages)
	Number of Steam Reheating Supply Stages	Stages 5, 8, 10, 14, 16, 18
18	Number of Heaters:	
	High-Pressure Heaters:	2 units
	Deaerator:	1 unit
	Low-Pressure Heaters:	3 unit

QF-60-2GENERATOR TECHNICAL SPECIFICATIONS

	Generator Technical Specifications	
1.	Model:	QF-60-2
2.	Apparent Power:	75,000 kVA
3.	Active Power:	60,000 kW
4.	Rated Voltage:	10,500 V
5.	Rated Current:	4,124 A
6.	Power Factor:	0.8 (lagging)
7.	Rated Rotational Speed:	3,000 r/min
8.	Rated Frequency:	50 Hz
9.	Number of Phases:	
10.	Stator Winding Connection:	YY
11.	Number of Terminals:	
12.	Excitation Type:	Brushless excitation
13.	Excitation Voltage:	214 V
14.	Excitation Current:	1,031.5 A