

TECHNICAL DESCRIPTION & SCOPE OF SALE (IN BLACK)**3 X Units Type PG6531, Land-Based
Gas Turbine Power Plant**

Fuel	:	DISTILLATE
Date	:	1988
Total Hours	:	24,294
Total Starts	:	1,875

I. PRIME MOVER :

1. Gas Turbine - One (1) lot, three (3) sets gas turbine consisting mainly of compressor and turbine mounted on a common base plate with seven (7) modules and combined in one (1) horizontally split casing.

Manufacturer	:	HITACHI
Type	:	PG6531
Unit Rating	:	30,990 KW
No. of Compressor Stages	:	17
No. of Turbine Stages	:	3
Turbine Speed	:	5,100 rpm
Air-In Temperature	:	37(C
Air-In Pressure	:	1.013 Bar
Turbine Exhaust Temp	:	5.56 (C
Turbine Exhaust Pressure :	:	1.013 Bar
Date of Manufacture	:	1988

complete with the following:

compressor, searching system, fuel system, lubricaton system, heat exchanger, main lube filter, hydraulic supply system, cooling water system, atomizing air system, etc..

II. GENERATOR :

1. Generator - One (1) lot, three (3) sets synchronous generator block coupled to the thermal block by a reduction gear block and said generator is aired cooled, open ventilation, etc..

Manufacturer	:	HITACHI
Type	:	Air Cooled, open ventilation
Rated Voltage	:	13.8 KV
Nominal Speed	:	3600 rpm
Power Factor	:	0.80
No. of Poles	:	2
No. of Phase	:	3
Frequency	:	60 Hz

III. ACCESSORY ELECTRIC EQUIPMENT :

Disconnect Switch Cubicle - One (1) lot

Manufacturer	:	HITACHI
Rated Max. Voltage	:	15 KV rms
Rated Frequency	:	60 Hz
Rated Cont. Current	:	3000 A rms
Rated Short-Time A	:	25 KA rms
Low-Freq W/stand V	:	36 KV
Impulse W/stand V	:	95 KV

Remote Control Board - (HITACHI) One (1) lot remote control board consists following with complete accessories, enunciators, counters, watt-hour recorders, push button switches, etc..

Generator - Switchgear Equipment - (HITACHI) One (1) lot, consisting of mainly 480 volts power center and motor control center cubicle, control panel switch gear, and distribution panel with 440 volts circuit breakers.

Direct Current Supply System – (HITACHI) One (1) lot, consisting mainly of 125 volts direct current system.

Primary Voltage: 480, 60 HZ, HITACHI, with sixty-two (62) cells @ 2.5 volts/cell models HS-400 (AV included in the Generator-Switchgear Equipment)

IV. STATION EQUIPMENT:(NOT INCLUDED)

Power Transformer - One (1) lot, two (2) units, 42,000 KVA (42 MVA) capacity, 230,000/13,800 volts (230/13.8 KV), 60 Hz, 3-phase, HITACHI, and 84,000 KVA (84 MVA) capacity, 230,000 / 13,800 volts (230/13.8 KV), 60 HZ, 3 phase, HITACHI, with complete accessories and appurtenances.

Auxiliary Transformer - One (1) lot, 250 KVA capacity, HITACHI 3,800/480 volts, 60 HZ, 3 phase, outdoor type, with complete accessories and appurtenances.

Terminator - One (1) lot

Manufacturer	:	HITACHI
Voltage	:	230 KV

Power Control Cable - One (1) Lot, consisting of HV and LV power and control cables of various sizes complete with clamps and termination ends.

Grounding System - One (1) lot consisting of standard copper cable, 19mm (weld ground rod, equipment grounding including interconnection to grounding grid, boxes, fillings, etc..

HV Bus Work / Steel Tower Structure - One (1) lot consists of electrical equipment such as capacitor voltage transformer, lighting arrester, switches, suspension, insulator, miscellaneous bus and bus support conductor, cable tray / trenches including accessories and appurtenances.

V. FUEL HOLDERS, PRODUCERS AND ACCESSORIES :

Fuel Oil Tank - One (1) lot, two (2) units fixed rook storage tank, HITACHI, 2,000 m³ capacity, diameter: 17,430 mm, height: 9,165 mm. **(NOT INCLUDED)**

Fuel Oil Forwarding Skid - One (1) lot, four (4) sets, consisting of the following (AV included In the Fuel Oil Tank):

Pump Manufacturer	:	TAIKO
Capacity	:	250 lit/min
Motor Manufacturer	:	HITACHI
Voltage	:	220 v
Rating	:	11 KW
Speed	:	3520 rpm

Fuel Oil Unloading Pump - One (1) lot, two (23) sets consisting of the following (AV included in the Fuel Oil Tank):

Pump Manufacturer	:	HONDA
Capacity	:	40 m ³ / hr
Type	:	HC
Head	:	2.5 meters
Speed	:	1756 rpm
Motor Manufacturer	:	TOSHIBA
Speed	:	1740 rpm
Voltage	:	460 v
Capacity	:	7.5 KW
Speed	:	3520 rpm

Fuel Oil L-P Filter - One (1) lot, three (3) sets (AV included in the Fuel Oil Tank):

Manufacturer	:	WAKO Industrial CO., Inc.
Motor	:	FA-2F1565

VI. STRUCTURE AND IMPROVEMENTS : **(NOT INCLUDED)**

Lighting System - One (1) lot, consisting of various types of lighting fixtures, conductors, panel boards, auxiliary compartment lighting and lighting system within the plant compound.

Communication System - One (1) lot, equipped with telephone handset type, industrial system, and paging roll with loud speaker, two-way communication w/ handset, control cabinet, desk top type handset station, indoor/outdoor type handset station, etc..

Office Building / Storeroom - More or less one - hundred - ten (110) square meters total floor area, single storey, four (4) room concrete building installed with plywood ceiling, G.I. sheet corrugated roofing, T & B with tiled flooring and wall, flush type water closet, water supply system, electrical/sanitary facilities, etc.

VII. MISCELLANEOUS POWER PLANT EQUIPMENT:

Fire Protection System - One (1) lot, consisting of foam system, water protection, water spray fixed system for transformer such as 1200 liters pressure tanks, inductor, hydrants, hose cabinet with accessories, strainers, pressure gauge, check / stop / flow / deluge / solenoid valves, pressure switch with pipelines and fitting: (AV included in the Gas Turbine)

























