

FLOATING ASSET TECHNICAL SPECIFICATION



PPF-003 (FPSO JASMINE)

PRINCIPAL PARTICULARS

Name of Asset	:	PPF-003 (FPSO Jasmine)
Owner	:	PPF-003 Pte. Limited, Singapore
Type	:	Floating, Production, Storage and Offloading unit (FPSO)
Propulsion Equipment	:	Decommissioned
Classification	:	ABS A1 Floating Production and Offloading System
Port of Registry	:	Singapore
Flag	:	Singapore
IMO Number	:	7370650
Gross Tonnage	:	57,897
Net Tonnage	:	39,133
Deadweight	:	99,776 mt
Lightweight	:	22,469 mt
Built / Hull No	:	September 1976 / Koyo Dockyard Co. Ltd., Japan / 682
Converted to FPSO	:	1999 / MODEC Inc. Jurong Shipyard, Singapore
Mooring Type	:	Rigid Arm Extended Turret
Length (OA-Rigid Arm)	:	288.41 m
Length (Registered)	:	244.14 m
Breadth (Mld)	:	38.94 m
Depth (Mld)	:	21.03 m
Height of Rigid Arm (BL)	:	32.70 m
Offloading	:	Tandem
Storage Tanks	:	4 x Centre Tanks & No.3 Wing Tanks
Slop Tanks	:	Port & Stbd
Wing Tanks	:	4 x P/S Tanks
Tanks used for Crude Storage	:	Six (6) excluding Slops
Cargo Tank Capacity 98%	:	88,520 M3 / 556,792 bbls (6 tanks)
Accommodation capacity	:	101 pax
Life-saving & Fire-fighting	:	Comply to SOLAS, CLASS & MODU Code Requirement
Classification	:	American Bureau of Shipping (ABS)
Class Notations	:	✕A1, Floating Production Storage and Offloading System (Ship-Type), (C1), RFL (5), 2028 in Jasmine Field, Gulf of Thailand, CRC(1), RRDA
Original Vessel Design Life	:	10 years until 2023.
Life Extension (LE)	:	+5 years until 2028 / Approved by Class ABS.

TANK STORAGE CAPACITY

- Cargo Storage Capacity : 69,351 m3 / 436,206 bbls (98%)
(4 x Centre storage tanks)
- No.3 P/S Wing storage Tanks : 19,172 m3 / 120,586 bbls (98%)
- Slop Tanks Port & Stbd : 3842 m3 / 14,162 bbls (98%)

- No.1 & No.4 Wing Tanks : 202,096 bbls (98%)
(Void Tanks)

Note: Total storage capacity 758,888 bbls (98%) if centre and wing tanks are utilised.

TECHNICAL PARAMETER

The primary system associated with the Process facility are;

- Oil Separation and Treatment System
- Gas Lift Compression and Treatment
- Produced Water Treatment System
- Water Injection Facilities
- Utilities

PROCESS FACILITY

- Oil Production maximum : 40,000 bopd
- Fluids Production maximum : 50,000 bopd
- Gas Production maximum : 8.0 mmscfd
- Water Production maximum : 30,000 bwpd
- 2 x 100% gas train
- 1 x 100% oil train.

PRESSURE VESSEL SPECIFICATION

Pressure vessel / Tag no	Design Working Press (DWP)	Design Temp	Type
HP Separator / V101	435 PSI / 3000 kpag	117 DegC	3-Phase Horizontal
MP Separator / V102	271 PSI / 1870 kpag	117 DegC	3-Phase Horizontal
LP Separator / V103	116 PSI / 800 kpag	118 DegC	3-Phase Horizontal

POWER GENERATION

- Steam Turbine generator (STG) : 2 x 1500 Kw
- Diesel Engine generator : 1 x 1500 Kw
- Black-start Diesel Generator : 1 x 609 Kw
- Emergency Diesel Generator : 1 x 197 Kw

EXPORT SYSTEM

- Cargo Oil Pump (COP) : 3 units x Vertical Centrifugal Pump x 3000 m3/hr x 145 m Head
(Steam Turbine driven)

AUX. STEAM PRODUCTION PLANT

- Water Tube Boiler in ER : 2 units x 16 Bar
(A dual fuel system comprising of Crude oil & MDO firing is installed on both No. 1 & 2 Boilers)

FIRE FIGHTING SYSTEM

- High Expansion Foam protection for Machinery Space and the Pump room space.
- Low Expansion Foam supply for Helideck coverage and to the main deck foam monitors.
- Fixed Co2 Cylinder fire extinguishing system are provided for fwd machinery space, paint store and boiler uptake.

LIFE BOAT

- Portside (No.1 & 3) : 2 units x 59 pax capacity
- Stbdside (No.2) : 1 unit x 91 pax capacity

PEDESTAL CRANE

- Two(2) offshore rated/man-riding cranes designed in accordance to API RP 2C.
- Deck Crane: SWL 11.0 tons @ 12 m radius
 - Provision Crane: SWL 5.2 tons @ 12 m radius

HELIDECK

- The Helideck design conforms to CAP 437.

CARGO OIL TANK CAPACITY TABLE

CARGO OIL TANKS						
COMPARTMENTS		FRAME NO	CAPACITY (100% FULL)		CAPACITY (98% FULL)	
			VOLUME		VOLUME	
			M ³	BBLS	M ³	BBLS
NO. 1 CENTRE TANK	C	87-96	17,727.8	111,504	17,376.2	109,274
NO. 2 CENTRE TANK	C	78-87	17,689.2	111,261	17,335.4	109,036
NO. 3 CENTRE TANK	C	69-78	17,689.2	111,261	17,335.4	109,306
NO. 4 CENTRE TANK	C	60-69	17,660.7	111,082	17,307.5	108,860
NO. 1 WING TANK (NO USE)	P	87-96	8,874.8	55,821	8,697.3	54,704
	S	87-96	8,874.8	55,821	8,697.3	54,704
NO. 3 WING TANK	P	69-78	9,781.4	61,523	9,585.8	60,293
	S	69-78	9,781.4	61,523	9,585.8	60,293
NO. 4 WING TANK (NO USE)	P	62-69	7,518.6	47,290	7,368.2	46,344
	S	62-69	7,518.6	47,290	7,368.2	46,344
SUM			123,116.5	774,376	120,654.1	758,888
SLOP TANK	P	60-62	1,960.0	12,328	1,920.8	12,081
	S	60-62	1,960.0	12,328	1,920.8	12,081
SUM			3,920.0	24,656	3,841.6	24,162
TOTAL			127,086.5	799,082	124,495.7	783,050