PROPOSAL DOCUMENT

Content:

- 1. Company Overview
- 2. Lintech Facility
- 3. Specification Floating Storage and Regasification Unit
- 4. Drawing Arrangement and Doc Technical
- 5. Flow Process Floating Storage and Regasification Unit
- 6. Preliminary Schedule
- 7. Price of Quotation
- 8. Term and Condition

INTECH

Floating Storage and Regasification Unit

Doc. No : LDP-FSRU-VIII-22.R0		
Rev.: 1	Date : -	
Page: 2 of 5		

1 . Company Overview



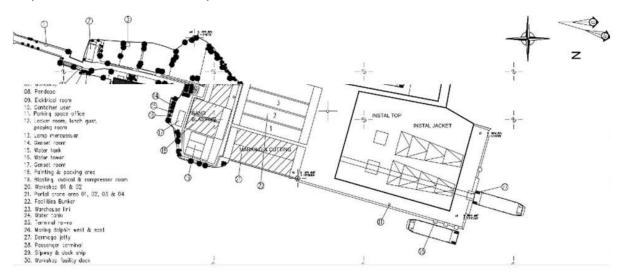
PT. Lintech Duta Pratama (LINTECH) is an experienced company in providing services as following:

Engineering and Design for Civil (Piling/Foundation, Earthwork, Concrete), Steel Structure, Mechanical and Electrical (power and Control System). Fabrication for Carbon, Stainless and other exotic metal in Steel Structure, Plate works and Piping. Plant Construction (civil structure-mechanical-piping-electrical-instrumentation) and Commissioning Works. Our service's customers covering several companies in Oil & Gas, Mining, Power plant, Cement Plant, and Various Industry

We are committed to deliver projects in highest quality and competitive price at committed time Schedule

2. Lintech Facility

Layout Lintech Seaside Facility



UNTECH

Floating Storage and Regasification Unit

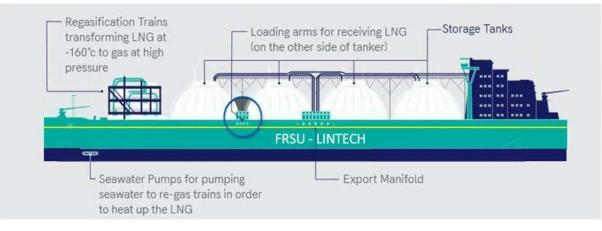
Doc. No : LDP-FSRU-VIII-22.R0	
Rev.: 1	Date : -
Page: 3 of 5	

Area Availability Raw Material Area 27.000 m2 Blasting 864 m2 Workshop Area 5.000 m2 Portal Crane 6.000 m2 Yard Construction/Erection 44.000 m2 Jetty North 10.000 DWT, 8 m draft 230 m long Jetty East 5.000 DWT, 4 m draft 110 m long

3. Specification Floating Storage and Regasification Unit

The key specification of the FSR	ιU
Length O A	: 276 Mtr
Breadth moulded	: 43 Mtr
Depth	: 26 Mtr
Cargo Tank Capacity (100%)	: 137.000 m3
Regasification Capacity	: 240 mmscfd

4. Drawing Arrangement and Doc Technical Drawing Arrangement FRSU



Length O A	: 276 Mtr
Breadth moulded	: 43 Mtr
Depth	: 26 Mtr
Cargo Tank Capacity (100%)	: 137.000 m3
Regasification Capacity	: 240 mmscfd

Floating Storage and Regasification Unit

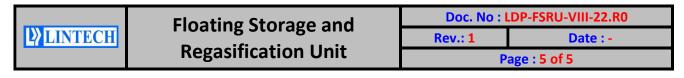
Doc. No : LDP-FSRU-VIII-22.R0	
Rev.: 1	Date : -
Page: 4 of 5	

LNG Storage Tank Calcullation

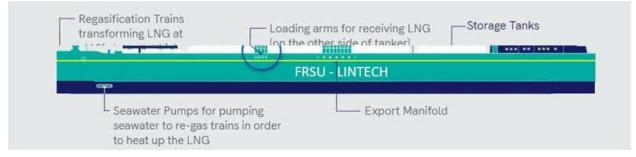
Thickness	of Shell Unde	r Internal Pressure	(UG-27)		
Design Pressure	Pd :	30	Psi		
Design Temperature	Td :	-	°F		
Material	:	SS304			
Inside Radius of Shell	R :	788.236	in	(20,021 mm)
Max Allowable Stress at Td	S :	20000	Psi		
Joint Efficiency	E :	1			
Corrosion Allowance	CA:	0.1181	in		
Minimum Thickness as per UG-16(b)	tr :	0.063	in	(1.5 m	m)
(UG-27'(d))	:	13300	Psi		
		P<0.665SE	OK		
Minimum Required Thickness t = (Pd*(R+CA)) / (2S*E-0.2*Pd)	tr :	0.591	in	(15.02 mm)
	0.356	SR:	280.61	2 in	
		t < 0.356R	OK		
Design Thickness	Td :	0.591	in	(15.02 mm)
		(Use Largest)			
Thickness Used	t :	0.709	in	(18 mm)

Regasification Equipment

LNG vacuum powder storage tank Unloading pressure booster skid LNG high pressure centrifugal pump (including PLC control pannel) Ambient air vaporizer Hot water reheating device BOG heater BOG hot water reheating device EAG vaporizer BOG buffer tank BOG compressor Metering & odorizing skid (double way metering and auto-odorizing) Insturment air system & PSA nitrogen system N2 buffer tank Control system



5. Flow Process Floating Storage and Regasification Unit



6. Preliminary Schedule

Construction Time	: 36 Months
Discussion and feasibility studies	
Permitting and pre-engineering to a	achieve project approval
Construction	
Primary Schedule	
Contract Award	: Month 1
Eng Design and Approval	: Months 2 - 10
Procurement Material	: Months 10 – 25
Construction Vessel	: Months 10 - 32
Construction Tank	: Months 14 - 30
Installation Regasification	: Months 25 - 33
Sea Trial and Commissionin	g : Months 33 – 36

7. Price of Quotation

Cost for New Building Floating Storage and Regasification Unit <u>USD xxx.xxx.xxx</u> (please to contact admin@lintech.co.id)

Length O A	: 276 Mtr
Breadth molded	: 43 Mtr
Depth	: 26 Mtr
Cargo Tank Capacity (100%)	: 137.000 m3
Regasification Capacity	: 240 mmscfd

8. Term of Condition

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- Response of Approval drawing has sent, not more than 5 days
- Free issue material to be assembly shall be come to our warehouse in a week before time of assembly
- Currency quotation in USD
 - Term of payment is
- 20% DP 75% progress payment 5% Retention – 6 Months
- Validity of the offer : 4 Months
- Excluded as follow : VAT / PPN
- Quotation based on unit rate, any volume deviation will be revision quoted