

PHỤ LỤC 2

YÊU CẦU KỸ THUẬT CHI TIẾT

1. Harbor Tugboat 1

1. General		a)	No. of propeller: 02 Propulsion type: fixed pitch or CPP	
a)	Vessel's Name: TBA	b)	Hydraulic powered rudder steering:	
b)	Type: tugboat	c)	No. of bilge pump: Minimum 01 set Minimum Capacity: 2.5 m³/hr	
c)	Classification and Society: VR or IACS	d)	No of external FIFI pump: 01 (option) Minimum Capacity: 250 m³/hr	
d)	Operating range: from VR-SB	e)	Total head: Minimum 100 m	
e)	Certificates and ship documents: Full validity certificates and documents comply with Class and relevant Conventional	f)	No. of foam nozzle: Minimum 1 nozzle Minimum capacity: 125 m ³ /hr	
2. Performance		g)	Portable Salvage pump: 01 Minimum capacity: 25 m³/hr	
a)	Bollard Pull (Tons): Minimum 35 MT	h)	Oily water separator: 01 set Minimum Capacity: 1m³	
b)	Minimum Service Speed: 08 knots	i)	International shore connection: Complied with SOLAS	
c)	Type(s) and Grade(s) of fuel used: MGO	5. Deck equipment:		
3. Dimensions in m and Capacities		a)	No. of anchor windlass: 01 set No. of towing hook: 1	
a)	L.O.A: Minimum 20.0 m	b)	Quick release: 1	
b)	Max Draught: 4.00 m	c)	Rescue boat: (Option)	
c)	Fuel capacity: Minimum 50 m³	d)	No. of rescue cradle: Minimum 1 set	
d)	Fresh water capacity: Minimum 20 m³	e)	Tugger or Capstan winch: (Option)	
e)	Foam capacity: Minimum 1 m³	f)	Towing winch: (Option)	
f)	Dispersant capacity: Minimum 3 m³	g)	Crane: (Option)	
g)	Bilge tank: Minimum 3 m³	h)	Fender mounted around the hull	
h)	Sewage tank: Minimum 2 m³	6. Accommodation		
i)	lubricant oil tank: Minimum 1 m³	a)	Galley: 01 set	
j)	Dirty oil tank: Minimum 2 m³	b)	Air-conditioned living and cabin spaces: At least 01 set	
k)	Sludge tank: Minimum 2 m³	7. Navigation equipment: include but not limited the following:		
4. Machinery		Navigation lights	Magnetic compass	Inmarsat-C
a)	BHP Main engine: : 2 x Minimum 1,341 BHP	Searching light	Maritime VHF	GMDSS
b)	At least two main generators of Minimum 107 KVA; 230 – 400V 50 Hz voltage network	Horn	GSM telephone	GPS positioning
c)	Minimum Two battery sets of 24V, 200 Ah	Radar	Radio/CD	SSAS, Intercom, AIS (automatic identification system)