

LIST OF MAJOR EQUIPMENT AND MATERIAL FOR 33M (65T)
ASD TUG

No.	Type	Model
1	2 X Units Marine Propulsion Diesel Engine, 2200HP	Cummins /USA
2	2 X Units Stern Thruster (Azimuth, FPP type)	SRP 1010 FP/Germany Or Ulsten Aquamaster US 155FP/ Finland
4	2 X Units Diesel Generator, 200kVA, 160kW, 440/3/50	Deutz/ Cummins China or equal
5	1 x Emergency / Harbour Genset 30 kW, 440/3/60	Deutz/ Cummins China or equal
6	Deck machinery and 2t@4m crane	China
7	CO2 and smoke & heat detection /general alarm system	China
8	Oil dispersant	Aylex or equal
9	Bilge / Ballast pump 50m ³ /hr @ 50m HEAD	V-FLO
10	G.S / Fire Pump 50m ³ /hr @ 50m HEAD	V-FLO
11	Fuel Oil Pump 8m ³ /hr @ 18m HEAD	V-FLO
12	Emergency Fire Pump 25m ³ /hr @ 30m HEAD	V-FLO
13	Dirty Oil Pump 3m ³ /hr @ 15m HEAD	V-FLO
14	Fresh Water Pressure Set 2m ³ /hr @ 25m HEAD	China
15	Sea Water Pressure Set 2m ³ /hr @ 25m HEAD	China
16	Air Compressor, 24m ³ /h @ 30 Bar + Emergency air compressor	China
17	Air Bottle, 2 x abt 300 L @ 3 Bar	China
18	Lub. Purifier, 1 x 10,000 L/day	China
19	Fire Monitors, 2 x 360m ³ /h @ 100m water/foam dual purpose, electric or electro-hydraulic controlled	Unitor, Hamworthy, Skum or equal
20	External Fire Pump, 1 x 750m ³ /h @ 120m	V-FLO
21	Diesel engine for F-F system	Caterpillar, Cummins, Volvo or equal
22	Sewage Treatment Plant, 12-man	CW-20,China
23	Oily Water Separator 0.5m ³ /hr	China
24	Air Condition Machinery (Central System)	Daikin, Carrier or equal
25	Standard Magnetic Compass	Saura MR-150 or equal
26	Gyro Compass	Tokimec TG 8000 or equal
27	Radar No.1	Furuno FR-1510 Mk3 or equal
28	Radar No.2	Furuno FR-7062 or equal
29	Echo Sound	Furuno FE-700 or equal
30	Speed Log	Thomas Walker 4020 or equal
31	GPS Navigators	Furuno GP-90 or equal
32	AIS (Automatic Identification System)	McMurdo MT-1 or equal
33	GMDSS Radio Communication Sea Area 3	Furuno RC-1800T or equal
34	2-Way Handheld VHF Radio	McMurdo R2 or equal
35	Epirb	McMurdo E3 or equal
36	Sart	McMurdo S4 RESCUE or equal
37	Navtex Receiver	McMurdo Nav-5 or equal
38	Portable Loud Hailer	ER-2015 or equal
39	Vingtor VSP System	Vingtor or equal
40	PA System	China
42	Weather Fax	Furuno FAX-207 or equal
43	Wind Anemometer	RM Young or equal

44	TV Antenna	China
45	Main switch Board, 24V Nav. panel etc.	Siyang-Inteschalt China, ABB/China
46	Navigation and search Light	Aqua Sign (the other is China)
47	Rescue cum work boat with davit	China
48	Safety equipment	China
49	Painting	IP, Sigama or equal

Remark:

The each item price is just budget and V-FLO will choose which model is the final order!