

Specification Of One Each Spare Cooling Water Pump and  
Spare Fire Extinguishing Pump For the M/S  
"MAMBUKAL"

1.) Spare Cooling Water Pump:

One Self-Priming Centrifugal Pump, type ENF, make of AMAG-HILPERT-PEGNITZHUETTE, NUERNBERG-O, Glockenhofstrasse 6, with outer bearing on each side, with suction- and delivery pipe connection with 70 mm diameter, arranged for direct motor drive and suitable for the following working conditions:

Liquid to be handled ..... Sea-water  
Output ..... Abt. 30 cub.m.  
per hour.  
Total Manometric Head ..... 25 m  
Speed ..... 1730 r.p.m.  
HP required, calculated upon a  
specific gravity of the  
liquid handled = 1 ..... 5,8 HP  
Motor capacity required ..... 7 HP

Design of the pump:

Casing parts of best cast iron void of sulphur, impeller of gunmetal, diffuser of cast iron, interchangeable gunmetal wearing rings inside the casing, shaft of stainless steel and rotating in ball bearings on both sides of the casing; with mounted-on water ring air pump, provided with casing of cast iron void of sulphur, inner parts of gunmetal, and with change-over-cock for sucking and working position.

Including also:

One cast iron common bedplate to take up pump and driving engine, one complete elastic coupling to connect pump and motor shafts, as well as the small fittings required to assure regular working of the pump, such as priming funnel for the air pump, drainage screws and first packing of stuffing box.

Furthermore:

One D.C. Electric Motor with starter, make of Garbe Lahmeyer & Co., Aachen, Germany.

2.) Spare Fire Extinguishing Pump:

One Self-Priming Centrifugal Pump, type ENF 60, make of AMAG-HILPERT-PEGNITZHUETTE, NUERNBERG-O, Glockenhofstrasse 6, arranged for motor drive and



suitable for the following working conditions:

Liquid to be handled ..... Sea-Water  
Output ..... Abt. 20 cub.m.  
per hour.  
Diam. of suction and delivery pipe= 60 mm  
Total Manometric Head ..... About 40 m  
Speed ..... 2100 r.p.m.  
HP required, calculated upon a  
specific gravity of the  
liquid handled = 1 ..... 8 HP  
Motor capacity required ..... About 10 HP

Design of the pump:

Casing parts of best cast iron void of sulphur, impeller of gunmetal, diffuser of cast iron, interchangeable gunmetal wearing rings inside the casing, shaft of stainless steel and rotating in ball bearings on both sides of the casing; with mounted-on water ring air pump, provided with casing of cast iron void of sulphur, inner parts of gunmetal, and with change-over-cock for sucking and working position.

Including also:

One cast iron common bedplate to take up pump and driving engine, one complete elastic coupling to connect pump and motor shafts, as well as the small fittings required to assure regular working of the pump, such as priming funnel for the air pump, drainage screws and first packing of stuffing box.

Furthermore:

One D.C. Electric Motor with starter, make of Garbe Lahmeyer & Co., Aachen, Germany.



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