

Messrs. William Gray & Co., Yard No.1076.
Messrs. Central Marine Engine Works Engine No.1076.
Messrs. Swan, Hunter & Wigham Richardson Exhaust Turbine No.1548

IT IS SUBMITTED that with steam reciprocating engines for open sea service, having cylinders 23", 37" and 65" diameter by ~~42"~~^{48"} stroke, working pressure 220 lb. per sq. inch, combined with an exhaust steam turbine on the Bauer Wach system, the reciprocating engine having an I.H.P. of 1850 and the exhaust steam turbine an equivalent I.H.P. of 900, the revolutions per minute of the propeller being 75 when the reciprocating engine and turbine are working in conjunction, diameter of propeller 18'- 6", and screw shaft fitted with continuous liner, the proposed sizes of crank, thrust, intermediate and screw shafting, viz:- 13.3/8", 350 mm., 15.5" and 15" diameter respectively, merit approval.

The plans showing details of shafting and cone coupling also merit approval.

Advise Newcastle Surveyors and return 2 plans of thrust shaft and cone coupling. Retain copy.

Advise West Hartlepool Surveyors and return 2 plans of crank, intermediate and screw shafting. Retain 2 copies.

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W.D.A.
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