

W77-0044

Shipbuilders: Messrs. Lithgows, Ltd

Yard No. 911

Engineers: Messrs. D. Rowan & Co., Ltd., (main engines) Engine No. 1023

" Barclay, Curle & Co., Ltd (Bauer Wack installation) N° B.W. 59

Note. Please return specification to Room I for attachment to calculation sheet S.A.

It is submitted that ~~the plan of~~ with steam reciprocating engines for main propelling purposes ~~merit approval~~ for engaged on open sea service & having cylinders ~~provided~~ 29", 47" & 81" diameter by 54" stroke, working pressure 215 lb/in², combined with an exhaust steam turbine on the Bauer Wack system ~~transmitting~~ ^{developing} a total I.H.P. of 5350 (main engines 3725 I.H.P., turbine 1625 I.H.P. [equivalent]) at 82 revolutions per minute of the propeller, the proposed size of thrust shaft, viz.:— 425 mm. dia., merits approval.

Further, with a steam turbine having a speed of 2640 revolutions per minute and particulars of reduction gearing as given in Messrs Barclay, Curle's specification, the following sizes of shafting also merit approval, viz.:—

1 st Reduction Pinion shaft	170 mm. dia.
1 st Reduction Wheel shaft	300 mm. dia.
2 nd Reduction Pinion shaft	420 mm. dia.
2 nd Reduction Wheel shaft	550 mm. dia.

Return plan.

Retain copy.

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