

W238-0051

Messrs. The Wallsend Slipway & Engineering Company Limited. No. BW.12.  
Fitting of Bauer-Wach Exhaust Steam Turbine to the s. s. "CITY OF HANKOW"

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IT IS SUBMITTED that with steam reciprocating engines for open sea service having cylinders 26", 37 $\frac{1}{2}$ ", 54", 78" diameter by 54" stroke, working pressure 225 lb. per sq. inch, combined with an exhaust steam turbine on the Bauer-Wach System, the reciprocating engine having an IHP of 3315 and the exhaust turbine a SHP of 1265 at the primary pinion and 84 revolutions per minute of the intermediate shaft when the reciprocating engine and turbine are working in conjunction the existing sizes of intermediate and screwshafts, viz:- 14 $\frac{3}{4}$ " and 16 $\frac{3}{4}$ " diameter respectively merit approval in accordance with the present practice.

Further the following plans showing the undermentioned sizes of proposed new shafting merit approval, viz:-

- 2nd reduction pinion shaft..420 mm. dia. with 355 mm. central hole..Drg.No.5/BW.12.
- Transmission Shaft.....110 mm. diameter..... Drg.No.6/BW.12.
- Hydraulic coupling shaft....300 mm. with 175 mm. central hole..... Drg.No.7/BW.12.
- 1st reduction wheel shaft..170 mm. and 130 mm. diameter..... Drg.No.4/BW.12.
- 2nd reduction wheel shaft, thrust shaft and coupling pieces..reduction wheel shaft 550 mm. with 440 mm. central hole, and thrust shaft 425 mm. diameter,,,Drg.No.26320.

Return plans.

20.1.30.

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