

H

s. s. "MEERKERK". No. 30905 in R.B.
Exhaust steam turbine installation.

IT IS SUBMITTED the Rotterdam Surveyors be informed that with steam reciprocating engines for open sea service, having cylinders 724 mm., 1340 mm. and 2200 mm. diameter by 1400 mm. stroke, working pressure 205 lb. per sq. inch, combined with an exhaust steam turbine transmitting power to the intermediate shaft by means of reduction gearing, the reciprocating engines developing 3650 IHP at 77 RPM and the exhaust steam turbine developing an equivalent of 1590 IHP, the following sizes of shafting merit approval, in accordance with the usual practice, viz:-

thrust shaft.....422 mm. diameter.

coupling piece.....480 mm. diameter.

Wheel shaft.....550 mm. diameter with 445 mm. central hole.

It should be pointed out that when this vessel was classed the Cardiff Surveyors stated that the diameter of the HP cylinder was 724 mm. ^(u. 28 1/2") and it is on this basis that the present proposal is approved.

If, however, the diameter of the HP cylinder is 832 mm. as stated on the plan the whole matter would require further consideration. The Surveyors should state whether it is proposed to fit a new single collar thrust shaft or to turn down an existing multicollar thrust shaft.

Further, the Surveyors should state the diameter of the propeller which it is now proposed to use and whether it is

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proposed to retain the existing intermediate and screw shafting.

Return plan.

Retain copy.

LT 21/10/33

W.G.F.

[Signature]

20.10.33.

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