

COPY.

24th October, 1904.

Dear Mr. Champness,

As stated in my letter of the 14th instant, I think it desirable that tests on long lengths of high tensile and ordinary steel should be made in order that the moduli of elasticity of the two kinds of material may be determined.

I do not think a little expense should count where it is a question of introducing a practically unknown material into the structure of the most expensive merchant vessels so far built. The steel makers are being dealt with exactly alike, and Messrs. D. Colville & Sons have consequently also been asked to carry out these tests.

With ships constructed of the same material throughout a knowledge of the modulus of elasticity is not very essential, but where two kinds of steel are being used in the main part of the structure, it is very important that the ~~the~~ relative values of the <sup>ir</sup> moduli of elasticity should be known, as they will directly affect the strength of the vessel.



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