



Lloyd's Register of Shipping.

Sketch enclosed.

95, Bothwell Street, Glasgow, C.2.

23rd April, 1938.

Dear Sir,

Reference

S.S. "MIDDLESEX"
No. in Register Book 29993
John Brown & Co., Ltd. Order No. S.O. 99/38.

I beg to submit herewith for the consideration of the Committee particulars of new machinery to be installed in above vessel by Messrs. John Brown & Co., Ltd.

It is understood that the existing line of shafting in vessel is being retained and will be driven by an H.P. and L.P. turbine through double reduction gearing, there being one pinion for each of the above turbines. The total power to be developed is 6,000 S.H.P., equally divided over the two turbines when running at 2100 R.P.M., with the main shaft running at 92 R.P.M. For astern working an H.P. astern turbine is incorporated in the H.P. ahead casing and separated by a diaphragm and an L.P. astern turbine is similarly situated in the exhaust end of the L.P. ahead turbines. The power expected when running astern will be about 60% of ahead power.

A sketch showing arrangement of lay out is enclosed.

Minimum Diameter 1st reduction pinions 7",

" " 2nd " 14",

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Minimum Diameter	H.P.	rotor spindle	5"
"	"	L.P.	" " 5"
"	"	Gear Wheel	" 18 $\frac{1}{2}$ "

I am, Dear Sir,

Yours faithfully,

Jas. Cairns,

The Secretary,
GLASGOW.



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