

GUARANTEE AND ESTIMATE OF PERFORMANCE.

S.S. "City of Venice".

We guarantee that our equipment, consisting of geared turbo-generator, motor and switchgear, will deliver 1,400 S.H.P. to the propeller shaft at 89 R.P.M. when supplied with 51,000 lbs. of dry steam per hour, at a pressure of 6.3 lbs. per sq.inch absolute, with a vacuum of 28.0 ins.Hg., at 30" Bar., maintained at the turbine exhaust.

We estimate that the back pressure at the reciprocating engine exhaust flange will be 7.5 lbs. per sq.inch absolute, and that the steam consumption of the reciprocating engine, when working on load, will be increased by about 8% owing to this increase in back pressure over the normal of 26" vacuum.

Under the above conditions and when developing the new power of 6,100 equivalent I.H.P., we estimate that the consumption of the engine-turbine-electric combination, per equivalent I.H.P. Hour, and excluding auxiliaries, will be 20% less than that of the existing reciprocating engine when developing the present power of 4,600 I.H.P.

It is assumed that the ratio of S.H.P. to I.H.P. is 0.89.

The above powers are given subject to Lloyd's approval of the shafting.

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ABSTRACT OF THE PROCEEDINGS
IN THE COURT OF COMMONS

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