

16540 Reg. 64  
s.s. "CABO CULLERA". No. 66525 in Register Book \* 100 A.1.

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Alterations to Machinery.  
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The Bilbao Surveyors have forwarded plans and particulars of alterations which the Owners propose to make to the machinery of this vessel, which was built to class with this Society by Messrs. R. Dixon, Middlesbrough in 1882.

It is proposed to convert the present compound engines into triple expansion by means of a superimposed H.P. cylinder. They also propose to remove the existing boilers working at 80 lb. per sq. inch and fit the main boilers taken from the s.s. "GUETARIA" R.B. No. 72313.

The s.s. "GUETARIA" was built to class with this Society by Messrs. R. Stephenson, Newcastle in 1898, but has now been broken up. The working pressure of the boilers last assigned by the Society was 165 lb. per sq. inch.

The Society had no published Rules for shafting at the time the "CABO CULLERA" was built, but the sizes of shafting originally fitted meet the requirements of the present Rules for machinery having particulars as now proposed.

IT IS SUBMITTED the Bilbao Surveyors be informed that with triple expansion steam engines for ocean going service having two cranks arranged at 90°, diameter of cylinders 21½", 38" and 71" by 45" stroke, working pressure 165 lb. per sq. inch (11.6 kg. per sq. cm) and screwshaft without continuous liner, the existing sizes of the shafting, viz:- crank 338 mm., thrust 321 mm., intermediate 321 mm., and screwshaft 338 mm., could be accepted provided the diameter of the propeller does not exceed 15'0".

Further, with reference to the boilers ex s.s. "GUETARIA" it is submitted that provided the boilers be examined, tested under hydraulic pressure and found satisfactory, and be fitted on board the "CABO CULLERA" to the Surveyor's satisfaction, they could be accepted for a working

W469-0321 1/2

