

"CONTE ROSSO"

Loeffler Boiler and Escher Wyss turbine installation.

IT IS SUBMITTED the Trieste Surveyors be informed the plans submitted with their letter of the 25th ultimo have been examined, and the following plans merit approval, provided the steel castings be made and tested at an approved Works and the parts be made under the usual conditions of survey and testing:-

Plan No. 264142. Turbine casing for steam pump turbine.

- " " 264153. M.P. turbine casing.
- " " 264249. Gear Casing.
- " " 264318. <sup>Feed</sup>~~Hand~~ pump turbine rotor.
- " " 264370. H.P. turbine rotor.
- " " 264371. L.P. turbine rotor.
- " " 264434. Gear wheel shaft.
- " " G11826. Pinion and shaft.
- " " G11827. Gear wheel.

With reference to plans Nos. 264123 and 264124 shewing details of H.P. turbine casing, full details of the physical and creep properties of the material of the casing and the bolts should be submitted.

With reference to plans Nos. 264211 & 264112 shewing details of the turbine casing of the feed pump turbine, it is concluded that this turbine will be supplied with superheated steam at 200 lb. per sq. inch from the existing installation, and it is desired to know what material (described as G6 on the plan) will be used for its construction.

With reference to the plan No. 264484 shewing steam pump shaft and turbine rotor, the <sup>Horse Power</sup>~~H.P.~~ and R.P.M. should be stated and the physical properties of the material should be given.

It is concluded that the spindle having diameter of 37 mm. shown on plan No. 264559 is in error, having regard to the plans of spindles of larger diameter shown on plans Nos. *spinning for shaft*



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264452, but this should be confirmed.

Plan No.26455<sup>9</sup> could be approved in respect of hollow gear wheel shaft only.

With reference to plan No.264542 shewing spindle inside hollow gear wheel shaft, it is considered that the diameter should be not less than 72.5 mm. instead of 55, as proposed.

The Surveyors should be asked to ascertain and forward to this Office full particulars of the physical properties of the materials mentioned in these plans. The material for the turbine blades should also be stated.

Return 20 plans stamped  
" 10 copies "

Retain 18 plans unstamped pending a reply to the above.  
" plans Nos.264314, 264118, 264173 for reference.

The Trieste Surveyors should be asked to advise the Winterthur Surveyor in the matter and to forward the approved plans to him for his guidance.

*Lr/10/35*

*MR*  
*W. J. H.* 7.10.35.