



Page No: 20.

BAUER WACH INSTALLATION.CONTRACT NO: B.W.51/666.

The above contract comprises the supplying for a twin screw vessel, of two Bauer Wach Exhaust Steam Turbine Installations as follows to the order of The Scindia Steamships (London) Ltd:

The turbine and gearing will be constructed by Messrs. Barclay, Curle & Co: Ltd: Whiteinch, and will be fitted on board by them.

The reciprocating engines are of the following dimensions:-

2 @ $20'' \times \frac{31\frac{1}{2}''}{36''} \times 53''$

Boiler Pressure 220 lbs./sq.in.

200°F. Superheat.

For each set the division of Power between reciprocating engine and turbine will be:-

Reciprocating Engine	1810	I.H.P.
Turbine	850	"
	2660	"
	====	

This total power of 2660 I.H.P. will be developed at 130 R.P.M., the corresponding turbine revolutions being about 4150 per minute.

Particulars of Gearing:-

	1st Reduction		2nd Reduction	
	Pinion	Wheel	Pinion	Wheel
Dia: of Bearing.	100	220	220	400
Centres of Bearings.	435	560	705	830
Pitch Circle Dia:	8.5697"	46.4908"	11.998"	68.2745"
No: of Teeth	40	217	42	239
Width of Teeth	190	190	440	440
Dia: over Teeth	8.9407"	46.8618"	12.495"	68.7715"
Dia: at Bottom of Teeth.	7.9931"	45.9142"	11.2256"	67.5021"
Shroud Dia: (Inside).	- -	1084	- -	1655

Dia: of Intermediate Shaft	11"
" " Thrust	11½"
" " " Collar.	585
Thickness	80

All the dimensions are in millimetres unless otherwise marked.

A Vulcan Hydraulic Coupling is incorporated between the 1st and 2nd Reduction Gears.



© 2020

Lloyd's Register
Foundation

