



S. S. "SINGKEP" 6607 Tons Gross AUCKLAND, N.Z.

and 4070 Nett Tons of BATAVIA.

OWNERS : N.V. STOOMV. MAATS. NEDERLAND.

MASTER : W. F. RAPPANGE.

AGENTS : RUSSELL & SOMERS LTD., AUCKLAND, N.Z.

DAMAGE REPAIR CONTRACT

S P E C I F I C A T I O N

AND TERMS OF CONTRACT FOR REPAIRS TO THE TURBINE MACHINERY OF
THE ABOVE VESSEL.

Vessel lying afloat at the Western Wharf, Auckland.

T E N D E R S are invited for REPAIRS to MACHINERY in accordance with the following SPECIFICATION and precisely as set out in terms and conditions of the Schedule of Work specified:

Contractors can obtain access to the Vessel for the purpose of verifying all particulars of the Repairs specified for the purpose of tendering.

The COST of Repairs to be quoted in New Zealand Currency.

SCHEDULE OF REPAIRS.

ITEM NO.1 : ENGINE ROOM SKYLIGHT:

Arrange for Removal of Engine Room Skylight to give access to work and replace after each lift. E.R. to be kept covered. Approx. weight of Skylight not exceeding 3 tons.

(This work is necessary in order to give a direct lift by means of cranes for removal of turbines).

ITEM NO.2 : H.P. TURBINE ROTOR :-

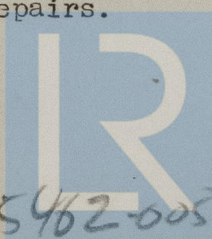
Lift H.P. Rotor for Repairs.
Fair and machine (grind) Rotor shaft journals and Thrust face.
Weight of Rotor 2 $\frac{1}{2}$ tons. Lift in the horizontal position.

BALANCE: Rotors to be tested and adjusted on knife edges for Balance after Repairs.

ITEM NO. 3 : L. P. TURBINE ROTOR :

Lift Rotor for Repairs.
Fair and machine (grind) Rotor shaft journals and thrust face.
Weight of Rotor 5 tons. Lift in the horizontal position.

BALANCE: Rotors to be tested and adjusted on knife edges for Balance after Repairs.



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ITEM NO. 4 : BEARINGS:

Main Bearings, Thrust bearing and Pads to be dealt with.
H.P. and L.P. Rotor Shaft Bearings including spares to be re-metalled, machined and refitted. New Thrust pads to be supplied (Phosphor Bronze).
Old white metal to be returned to the ship.

TOTAL NUMBER OF BEARINGS = Eight (8) Sets.

TOTAL NUMBER OF NEW THRUST PADS = Twelve (12) as per sample.

One set of Bearings comprises one top and one bottom half.

PARTICULARS OF BEARING METAL TO BE SUPPLIED :-

(A) Hoyts No.11 - Total weight about 80 lbs.

(B) Stone's No.1 Quality - or the following mixture :-

<u>Antimony:</u>	<u>Copper:</u>	<u>Tin:</u>
8.5%	5.5%	86%

This alloy is taken from the Maker's book of instructions.

ITEM NO. 5 : GLANDS: (Rotor Shaft Glands and Stator Glands) -

H.P. and L.P. Fin Type of Labyrinth.

FIN. TYPE Gland to be machined and faired and brass fins renewed all as original - Two (2) sets H.P.
Two (2) Sets L.P.

PARTICULARS of these Glands can be taken from the Originals and also Ship's Drawings.

ITEM NO. 6 : LUBRICATING OIL PUMP DRIVING:

ATTACHMENT to be renewed.

Supply and fit one new forged mild steel driving coupling and shaft attachment machined and fitted to pump and secondary shaft as per sketch. Material STEEL 36 - 38 tons tensile.
Inspection door to be made in cover of secondary shaft.
(Dog type of clutch coupling).

ITEM NO. 7 : BLADING : TEMPORARY REPAIRS.

Cut out condemned and damaged Blading in Rotors H.P. and L.P. Rows as shown, in order to effect temporary repairs.
Rotors afterwards to be adjusted on knife edges for Balance.

Two rows of blading in the L.P. astern turbine to cut out - four rows of blading in the H.P. head turbine to cut out.

Damaged blading in Stators to be removed as shown.

Repair H.P. astern blading where damaged and distorted.

Open out aperture to gauge and put in good working order.

ITEM NO. 8 : ASTERN NOZZLES :

H.P. and L.P. Astern Nozzles to be removed for renewal.
All holes to be faired and tapped and fitted as before.
The new nozzle pieces will be supplied by vessel.

S.S. "SINGKEP".

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ITEM NO. 9 : LAGGING AND BRIGHT STEEL SHEATHING :

Part renew and part replace all planished steel sheathing and all non-conducting materials. Make lagging good as original.

NOTE: The work specified in Items Nos. 1 to 9 comprises ordinary engineering practice, and these repairs are to be quoted for exactly as itemised.

ITEMS 1 to 9 : Cost working ordinary time.

" " " " Cost working overtime until 10 p.m.

ITEM NO. 10 : TURBINE BLADING: PERMANENT REPAIRS -

Renew all damaged turbine blading both impulse and reaction in H.P. and L.P. Rotors and Stators, all as specified.

Weight of H.P. Stator 2½ tons. Weight of L.P. Stator 5 tons.

NOTE: Blading sizes and profiles and number required will be supplied to the successful Contractor. -

6	rows of Blading to put in	H.P. Rotor	
2	" " " " " "	L.P. "	
1	" " " " " "	L.P. Stator	
5	" " " " " "	H.P. "	(bottom)
5	" " " " " "	H.P. "	(top)

This quotation for permanent repairs to Turbine Blading is to be quoted for continuous work.

TIME FOR COMPLETION: Time for completion to be stated and to date from acceptance of tender.

WORK TO COMMENCE: Immediately upon acceptance of tender.

WORKMANSHIP & MATERIALS: In the event of repairs, all materials and workmanship to be to Lloyd's Classification requirements.

SUPPLY OF LABOUR AND MATERIALS: The successful Contractor is to supply all the necessary labour, tools and materials required for the complete performance of the Contract.

EMPLOYERS' LIABILITY: Contractors to indemnify the Ship and cover their workmen under the Workers Compensation Act, or any other Act, and at Common Law, against any and all accidents.

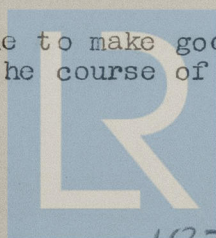
SUBMISSION OF TENDERS: All tenders to be in writing - full particulars and prices stated - and to be submitted to RUSSELL & SOMERS LTD., Customs Street East, Auckland, not later than on the day of 1942.

The lowest or any Tender not necessarily accepted.

LIGHTS: Ship to supply all lighting.

DAMAGE: Contractors to be liable to make good any damage to Vessel or Machinery during the course of Repairs.

EXTRAS: No extras.



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FURTHER WORK: Work, other than specified, if found necessary,
will be subject to agreed prices, on the written authority
of the Master and Agents.

GENERALLY: Contractors to give a Quotation for all the work
precisely as set out in the above Specification.

DATED at AUCKLAND thisday of.....1942.

Signed: _____ MASTER

_____ CHIEF ENGINEER

_____ AGENT



SURVEYOR TO LLOYD'S
REGISTER

Countersigned:

_____ LLOYD'S AGENT.



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