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Survey Report

At the Request of Mr. Kuma, the Minister of Finance, I have to day surveyed the S.S. Orissa belonging to the P. & O. S. N. Company and find her as follows:

To be an Iron Screw Steamer of 1638 tons Measurement, and 1119⁷⁴ net Register tons, 300 horse-power nominal, 3 decks a cabin poop and fore-castle, 18 years old.
Length 264 feet
Beam 35 "
Depth 26 "
and other particulars as entered,

Can carry about 665 tons of measurement cargo in lower holds and on cargo decks, leaving the Three decks clear for passengers, By loading light cargo on Three decks say 1200 tons could be carried,

Her Speed is 9.10
Knots on a consumption of 38 tons of English Coal or at least 45 tons of Karaty Coal per day.

Has good accommodation for 250 passengers and could be arranged for carrying say 1000 to 1200 troops,

Requires only 6 tons of Ballast and
could carry 6 to 8 guns or about 8 or
10 tons weight on her upper deck,

Fresh water tanks for 10,000 gallons,

Machinery

Has a pair of direct-acting horizontal
engines of 300 horse power nominal, 18
years old, in good condition, and with
a spare crankshaft, - has 4 Boilers with
16 Furnaces 7 years old, and naturally
much worn; Carrying 17 lbs pressure of Steam.

The Tube plates and Tubes are
good having been renewed about 2 years ago,
I estimate that 4 new boilers will be
required in about 2 years hence at a cost
of 145,000 - Has coal bunkers to carry about
50 tons of coal - She requires a large crew
both on deck and in Engine Room,

The Ship is strong and substantial
considering her age (her bottom is supposed
to be good). I think is for sale cheap
on account of the age of her boilers,
and heavy consumption of coal, -

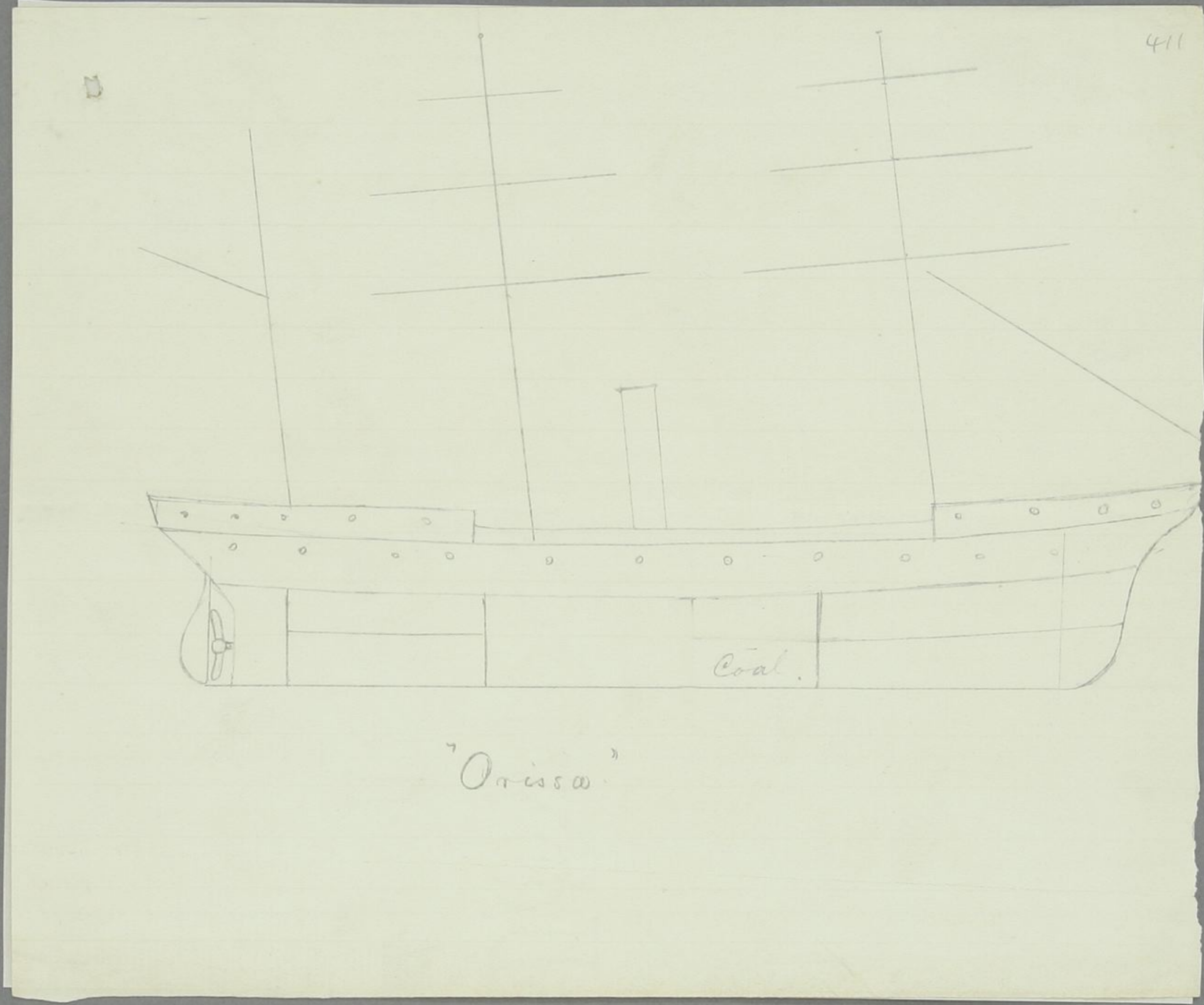
The Boilers were closed up and ready for
sea - so an internal inspection was impossible
until her return;

Tokio 10th October
1874.

Fredricks Kuba -

Survey Report
to O. S. Quisenberry

J. J. Tolson
October 10th 1974



PARTICULARS OF S. S. "Orissa"

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NAME,
 Screw or Paddle, *Screw*
 Wood or Iron, *Iron*
 Original and Present Class, *highest Class*
 How Rigged, *Barque*
 When and where Built, *1856 in England*
 Builder's Name,
 Tons, Builder's Measurement, *1665*
 Tons gross, *Register* - *1638*
 Tons nett, *do* - *1119 ⁷⁴/₁₀₀*
 No. and Capacity of holds,
 For Cargo, in cubic feet, *665 tons*
 " for dead weight, *measurement*
 " in picul or kokus,
 Draft laden, } *none* *16 feet*
 Draft light, }
 Average Speed, *7 knots on 24 tons Coal*
 Greatest " *9 1/2 p 10 - 40*
 Length over all,
 Length between Perpendiculars, *264 feet*
 Breadth extreme, *38 "*
 Breadth inside Bulwarks,
 Depth clear,
 Depth moulded, *26 "*
 Height in 'tween Decks, *8 1/4 -*
 " in lower hold, *8 1/4 -*
 Houses on Deck, *Galley & Officers*
 Wheel House, *none*
 Cabins, *in Poop*
 Accommodation for Passengers, 1st Class, *25*
 " " 2nd Class, *26*
 " " Steerage, *200*
 Number and Size of Hatchways, *2*
 Crew, accommodation for, and where, *Forecastle*
 Deck Plan, *3 decks*
 Spardeck,
 Cargo port or Coalports,
 Ballast required in tons, *60 tons*

Height of Bulwarks,
 Number of Bulkheads, } *according to*
 If Iron Ship, distance of Beams apart, } *P. & O. Rules*
 Distance of Frames apart, } *good*
 Thickness of Plating,
ENGINES.
 Nature of Engines, *Horizontal directacting*
 Where placed, *midships*
 Maker's name, *Farrell & Pouton*
 Horses-power, nominal, *300*
 " effective, *200*
 Diameter of Cylinder, *56 "*
 Number of " *2*
 Stroke of Piston, *30 "*
 Surface condenser, *none*
 Revolutions of Engines per minute, *56 at 10 knots.*
 " of Screw, and *52 - 9*
 Diameter of Screw or Paddles, *16 feet 4 blades*
 Pitch of Screw, *18*
 Nature of Boilers, *4 Retort tubular*
 Number of furnaces, *16*
 Maker's Name,
 Age and Condition, *7 years old. retubed*
 Superheater, *yes 2 years ago*
 Working Pressure, *17 lbs*
 Tested to lbs. of cold water pressure,
 Capacity of Coal Bunkers, *510 tons*
 Consumption of Fuel per hour,
 " " " day, *38 p 45 tons*
 Water tank for Ballast, and size, *none*
 " for Ship's use, *10,000 gallons*
 Donkey Engine, *1*
 Description of Cranes and Winches, *2*
 Boilers, *1*
CREW. *7 cooks and stewards*
 5. 6 China quartermasters
 Officers and Engineers, Captain *8 Manila do*
 Crew on Deck, *Master 23. Cargo crew 16.*
 " in Engine room, *24. 16.*
 Total Number of Crews, *80.*
 When and where to be seen,
 When will be ready for Sea,
 Lowest Price,

F. Kutz



