

REPORT OF SURVEY FOR REPAIRS, &c., OF ENGINES & BOILERS

(Received at London Office

24 FEB 1949

Date of writing Report 26-1-1949 When handed in at Local Office 27-1-1949 Port of Calcutta
 No. in Survey held at Calcutta Date. First Survey 20-11-49 Last Survey 1-1-1949
 Reg. Book. 57570 on the Machinery of the ~~Wool~~ ~~Iron~~ ~~Steel~~ ~~W.S.S.~~ "EGRA" (No. of Visits 1)

Tonnage Gross 508 Vessel built at Belfast By whom Workman Clark & Co. Ltd When 1911
 Net 2345 Engines made at Belfast By whom Workman Clark & Co. Ltd When 1911
 Nominal Horse Power 1062 HP. Boilers, when made (Main) 1911 (Donkey) 1911
 No. of Main Boilers 2 No. of Donkey Boilers 1 Owners British India Ste. Nav. Co. Ltd Owners' Address
 Steam Pressure 200 lbs. If Surveyed Afloat or in Dry Dock Afloat & in Dry Dock Port Glasgow Voyage
 in Main Boilers 200 lbs. (State name of Dock.) No 1 King George D.D. Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Last Report No. Port Docking, 75(N),
 Particulars of Examination and Repairs (if any) BS. Repairs.

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules.) State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined

Was a damage report made by anyone else? If so, by whom?

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

Did the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? Yes

If this was not done, state for what reasons

And what parts of the Boilers could not be thus thoroughly examined?

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler?

State latest date of internal examination of each boiler 25.12.48, 27.12.48, 28.12.48, 29.12.48, 30.12.48, 31.12.48, 1.1.49, 2.1.49, 3.1.49, 4.1.49, 5.1.49, 6.1.49, 7.1.49, 8.1.49, 9.1.49, 10.1.49, 11.1.49, 12.1.49, 13.1.49, 14.1.49, 15.1.49, 16.1.49, 17.1.49, 18.1.49, 19.1.49, 20.1.49, 21.1.49, 22.1.49, 23.1.49, 24.1.49, 25.1.49, 26.1.49, 27.1.49, 28.1.49, 29.1.49, 30.1.49, 31.1.49, 1.2.49, 2.2.49, 3.2.49, 4.2.49, 5.2.49, 6.2.49, 7.2.49, 8.2.49, 9.2.49, 10.2.49, 11.2.49, 12.2.49, 13.2.49, 14.2.49, 15.2.49, 16.2.49, 17.2.49, 18.2.49, 19.2.49, 20.2.49, 21.2.49, 22.2.49, 23.2.49, 24.2.49, 25.2.49, 26.2.49, 27.2.49, 28.2.49, 29.2.49, 30.2.49, 31.2.49, 1.3.49, 2.3.49, 3.3.49, 4.3.49, 5.3.49, 6.3.49, 7.3.49, 8.3.49, 9.3.49, 10.3.49, 11.3.49, 12.3.49, 13.3.49, 14.3.49, 15.3.49, 16.3.49, 17.3.49, 18.3.49, 19.3.49, 20.3.49, 21.3.49, 22.3.49, 23.3.49, 24.3.49, 25.3.49, 26.3.49, 27.3.49, 28.3.49, 29.3.49, 30.3.49, 31.3.49, 1.4.49, 2.4.49, 3.4.49, 4.4.49, 5.4.49, 6.4.49, 7.4.49, 8.4.49, 9.4.49, 10.4.49, 11.4.49, 12.4.49, 13.4.49, 14.4.49, 15.4.49, 16.4.49, 17.4.49, 18.4.49, 19.4.49, 20.4.49, 21.4.49, 22.4.49, 23.4.49, 24.4.49, 25.4.49, 26.4.49, 27.4.49, 28.4.49, 29.4.49, 30.4.49, 31.4.49, 1.5.49, 2.5.49, 3.5.49, 4.5.49, 5.5.49, 6.5.49, 7.5.49, 8.5.49, 9.5.49, 10.5.49, 11.5.49, 12.5.49, 13.5.49, 14.5.49, 15.5.49, 16.5.49, 17.5.49, 18.5.49, 19.5.49, 20.5.49, 21.5.49, 22.5.49, 23.5.49, 24.5.49, 25.5.49, 26.5.49, 27.5.49, 28.5.49, 29.5.49, 30.5.49, 31.5.49, 1.6.49, 2.6.49, 3.6.49, 4.6.49, 5.6.49, 6.6.49, 7.6.49, 8.6.49, 9.6.49, 10.6.49, 11.6.49, 12.6.49, 13.6.49, 14.6.49, 15.6.49, 16.6.49, 17.6.49, 18.6.49, 19.6.49, 20.6.49, 21.6.49, 22.6.49, 23.6.49, 24.6.49, 25.6.49, 26.6.49, 27.6.49, 28.6.49, 29.6.49, 30.6.49, 31.6.49, 1.7.49, 2.7.49, 3.7.49, 4.7.49, 5.7.49, 6.7.49, 7.7.49, 8.7.49, 9.7.49, 10.7.49, 11.7.49, 12.7.49, 13.7.49, 14.7.49, 15.7.49, 16.7.49, 17.7.49, 18.7.49, 19.7.49, 20.7.49, 21.7.49, 22.7.49, 23.7.49, 24.7.49, 25.7.49, 26.7.49, 27.7.49, 28.7.49, 29.7.49, 30.7.49, 31.7.49, 1.8.49, 2.8.49, 3.8.49, 4.8.49, 5.8.49, 6.8.49, 7.8.49, 8.8.49, 9.8.49, 10.8.49, 11.8.49, 12.8.49, 13.8.49, 14.8.49, 15.8.49, 16.8.49, 17.8.49, 18.8.49, 19.8.49, 20.8.49, 21.8.49, 22.8.49, 23.8.49, 24.8.49, 25.8.49, 26.8.49, 27.8.49, 28.8.49, 29.8.49, 30.8.49, 31.8.49, 1.9.49, 2.9.49, 3.9.49, 4.9.49, 5.9.49, 6.9.49, 7.9.49, 8.9.49, 9.9.49, 10.9.49, 11.9.49, 12.9.49, 13.9.49, 14.9.49, 15.9.49, 16.9.49, 17.9.49, 18.9.49, 19.9.49, 20.9.49, 21.9.49, 22.9.49, 23.9.49, 24.9.49, 25.9.49, 26.9.49, 27.9.49, 28.9.49, 29.9.49, 30.9.49, 31.9.49, 1.10.49, 2.10.49, 3.10.49, 4.10.49, 5.10.49, 6.10.49, 7.10.49, 8.10.49, 9.10.49, 10.10.49, 11.10.49, 12.10.49, 13.10.49, 14.10.49, 15.10.49, 16.10.49, 17.10.49, 18.10.49, 19.10.49, 20.10.49, 21.10.49, 22.10.49, 23.10.49, 24.10.49, 25.10.49, 26.10.49, 27.10.49, 28.10.49, 29.10.49, 30.10.49, 31.10.49, 1.11.49, 2.11.49, 3.11.49, 4.11.49, 5.11.49, 6.11.49, 7.11.49, 8.11.49, 9.11.49, 10.11.49, 11.11.49, 12.11.49, 13.11.49, 14.11.49, 15.11.49, 16.11.49, 17.11.49, 18.11.49, 19.11.49, 20.11.49, 21.11.49, 22.11.49, 23.11.49, 24.11.49, 25.11.49, 26.11.49, 27.11.49, 28.11.49, 29.11.49, 30.11.49, 31.11.49, 1.12.49, 2.12.49, 3.12.49, 4.12.49, 5.12.49, 6.12.49, 7.12.49, 8.12.49, 9.12.49, 10.12.49, 11.12.49, 12.12.49, 13.12.49, 14.12.49, 15.12.49, 16.12.49, 17.12.49, 18.12.49, 19.12.49, 20.12.49, 21.12.49, 22.12.49, 23.12.49, 24.12.49, 25.12.49, 26.12.49, 27.12.49, 28.12.49, 29.12.49, 30.12.49, 31.12.49, 1.1.50, 2.1.50, 3.1.50, 4.1.50, 5.1.50, 6.1.50, 7.1.50, 8.1.50, 9.1.50, 10.1.50, 11.1.50, 12.1.50, 13.1.50, 14.1.50, 15.1.50, 16.1.50, 17.1.50, 18.1.50, 19.1.50, 20.1.50, 21.1.50, 22.1.50, 23.1.50, 24.1.50, 25.1.50, 26.1.50, 27.1.50, 28.1.50, 29.1.50, 30.1.50, 31.1.50, 1.2.50, 2.2.50, 3.2.50, 4.2.50, 5.2.50, 6.2.50, 7.2.50, 8.2.50, 9.2.50, 10.2.50, 11.2.50, 12.2.50, 13.2.50, 14.2.50, 15.2.50, 16.2.50, 17.2.50, 18.2.50, 19.2.50, 20.2.50, 21.2.50, 22.2.50, 23.2.50, 24.2.50, 25.2.50, 26.2.50, 27.2.50, 28.2.50, 29.2.50, 30.2.50, 31.2.50, 1.3.50, 2.3.50, 3.3.50, 4.3.50, 5.3.50, 6.3.50, 7.3.50, 8.3.50, 9.3.50, 10.3.50, 11.3.50, 12.3.50, 13.3.50, 14.3.50, 15.3.50, 16.3.50, 17.3.50, 18.3.50, 19.3.50, 20.3.50, 21.3.50, 22.3.50, 23.3.50, 24.3.50, 25.3.50, 26.3.50, 27.3.50, 28.3.50, 29.3.50, 30.3.50, 31.3.50, 1.4.50, 2.4.50, 3.4.50, 4.4.50, 5.4.50, 6.4.50, 7.4.50, 8.4.50, 9.4.50, 10.4.50, 11.4.50, 12.4.50, 13.4.50, 14.4.50, 15.4.50, 16.4.50, 17.4.50, 18.4.50, 19.4.50, 20.4.50, 21.4.50, 22.4.50, 23.4.50, 24.4.50, 25.4.50, 26.4.50, 27.4.50, 28.4.50, 29.4.50, 30.4.50, 31.4.50, 1.5.50, 2.5.50, 3.5.50, 4.5.50, 5.5.50, 6.5.50, 7.5.50, 8.5.50, 9.5.50, 10.5.50, 11.5.50, 12.5.50, 13.5.50, 14.5.50, 15.5.50, 16.5.50, 17.5.50, 18.5.50, 19.5.50, 20.5.50, 21.5.50, 22.5.50, 23.5.50, 24.5.50, 25.5.50, 26.5.50, 27.5.50, 28.5.50, 29.5.50, 30.5.50, 31.5.50, 1.6.50, 2.6.50, 3.6.50, 4.6.50, 5.6.50, 6.6.50, 7.6.50, 8.6.50, 9.6.50, 10.6.50, 11.6.50, 12.6.50, 13.6.50, 14.6.50, 15.6.50, 16.6.50, 17.6.50, 18.6.50, 19.6.50, 20.6.50, 21.6.50, 22.6.50, 23.6.50, 24.6.50, 25.6.50, 26.6.50, 27.6.50, 28.6.50, 29.6.50, 30.6.50, 31.6.50, 1.7.50, 2.7.50, 3.7.50, 4.7.50, 5.7.50, 6.7.50, 7.7.50, 8.7.50, 9.7.50, 10.7.50, 11.7.50, 12.7.50, 13.7.50, 14.7.50, 15.7.50, 16.7.50, 17.7.50, 18.7.50, 19.7.50, 20.7.50, 21.7.50, 22.7.50, 23.7.50, 24.7.50, 25.7.50, 26.7.50, 27.7.50, 28.7.50, 29.7.50, 30.7.50, 31.7.50, 1.8.50, 2.8.50, 3.8.50, 4.8.50, 5.8.50, 6.8.50, 7.8.50, 8.8.50, 9.8.50, 10.8.50, 11.8.50, 12.8.50, 13.8.50, 14.8.50, 15.8.50, 16.8.50, 17.8.50, 18.8.50, 19.8.50, 20.8.50, 21.8.50, 22.8.50, 23.8.50, 24.8.50, 25.8.50, 26.8.50, 27.8.50, 28.8.50, 29.8.50, 30.8.50, 31.8.50, 1.9.50, 2.9.50, 3.9.50, 4.9.50, 5.9.50, 6.9.50, 7.9.50, 8.9.50, 9.9.50, 10.9.50, 11.9.50, 12.9.50, 13.9.50, 14.9.50, 15.9.50, 16.9.50, 17.9.50, 18.9.50, 19.9.50, 20.9.50, 21.9.50, 22.9.50, 23.9.50, 24.9.50, 25.9.50, 26.9.50, 27.9.50, 28.9.50, 29.9.50, 30.9.50, 31.9.50, 1.10.50, 2.10.50, 3.10.50, 4.10.50, 5.10.50, 6.10.50, 7.10.50, 8.10.50, 9.10.50, 10.10.50, 11.10.50, 12.10.50, 13.10.50, 14.10.50, 15.10.50, 16.10.50, 17.10.50, 18.10.50, 19.10.50, 20.10.50, 21.10.50, 22.10.50, 23.10.50, 24.10.50, 25.10.50, 26.10.50, 27.10.50, 28.10.50, 29.10.50, 30.10.50, 31.10.50, 1.11.50, 2.11.50, 3.11.50, 4.11.50, 5.11.50, 6.11.50, 7.11.50, 8.11.50, 9.11.50, 10.11.50, 11.11.50, 12.11.50, 13.11.50, 14.11.50, 15.11.50, 16.11.50, 17.11.50, 18.11.50, 19.11.50, 20.11.50, 21.11.50, 22.11.50, 23.11.50, 24.11.50, 25.11.50, 26.11.50, 27.11.50, 28.11.50, 29.11.50, 30.11.50, 31.11.50, 1.12.50, 2.12.50, 3.12.50, 4.12.50, 5.12.50, 6.12.50, 7.12.50, 8.12.50, 9.12.50, 10.12.50, 11.12.50, 12.12.50, 13.12.50, 14.12.50, 15.12.50, 16.12.50, 17.12.50, 18.12.50, 19.12.50, 20.12.50, 21.12.50, 22.12.50, 23.12.50, 24.12.50, 25.12.50, 26.12.50, 27.12.50, 28.12.50, 29.12.50, 30.12.50, 31.12.50, 1.1.51, 2.1.51, 3.1.51, 4.1.51, 5.1.51, 6.1.51, 7.1.51, 8.1.51, 9.1.51, 10.1.51, 11.1.51, 12.1.51, 13.1.51, 14.1.51, 15.1.51, 16.1.51, 17.1.51, 18.1.51, 19.1.51, 20.1.51, 21.1.51, 22.1.51, 23.1.51, 24.1.51, 25.1.51, 26.1.51, 27.1.51, 28.1.51, 29.1.51, 30.1.51, 31.1.51, 1.2.51, 2.2.51, 3.2.51, 4.2.51, 5.2.51, 6.2.51, 7.2.51, 8.2.51, 9.2.51, 10.2.51, 11.2.51, 12.2.51, 13.2.51, 14.2.51, 15.2.51, 16.2.51, 17.2.51, 18.2.51, 19.2.51, 20.2.51, 21.2.51, 22.2.51, 23.2.51, 24.2.51, 25.2.51, 26.2.51, 27.2.51, 28.2.51, 29.2.51, 30.2.51, 31.2.51, 1.3.51, 2.3.51, 3.3.51, 4.3.51, 5.3.51, 6.3.51, 7.3.51, 8.3.51, 9.3.51, 10.3.51, 11.3.51, 12.3.51, 13.3.51, 14.3.51, 15.3.51, 16.3.51, 17.3.51, 18.3.51, 19.3.51, 20.3.51, 21.3.51, 22.3.51, 23.3.51, 24.3.51, 25.3.51, 26.3.51, 27.3.51, 28.3.51, 29.3.51, 30.3.51, 31.3.51, 1.4.51, 2.4.51, 3.4.51, 4.4.51, 5.4.51, 6.4.51, 7.4.51, 8.4.51, 9.4.51, 10.4.51, 11.4.51, 12.4.51, 13.4.51, 14.4.51, 15.4.51, 16.4.51, 17.4.51, 18.4.51, 19.4.51, 20.4.51, 21.4.51, 22.4.51, 23.4.51, 24.4.51, 25.4.51, 26.4.51, 27.4.51, 28.4.51, 29.4.51, 30.4.51, 31.4.51, 1.5.51, 2.5.51, 3.5.51, 4.5.51, 5.5.51, 6.5.51, 7.5.51, 8.5.51, 9.5.51, 10.5.51, 11.5.51, 12.5.51, 13.5.51, 14.5.51, 15.5.51, 16.5.51, 17.5.51, 18.5.51, 19.5.51, 20.5.51, 21.5.51, 22.5.51, 23.5.51, 24.5.51, 25.5.51, 26.5.51, 27.5.51, 28.5.51, 29.5.51, 30.5.51, 31.5.51, 1.6.51, 2.6.51, 3.6.51, 4.6.51, 5.6.51, 6.6.51, 7.6.51, 8.6.51, 9.6.51, 10.6.51, 11.6.51, 12.6.51, 13.6.51, 14.6.51, 15.6.51, 16.6.51, 17.6.51, 18.6.51, 19.6.51, 20.6.51, 21.6.51, 22.6.51, 23.6.51, 24.6.51, 25.6.51, 26.6.51, 27.6.51, 28.6.51, 29.6.51, 30.6.51, 31.6.51, 1.7.51, 2.7.51, 3.7.51, 4.7.51, 5.7.51, 6.7.51, 7.7.51, 8.7.51, 9.7.51, 10.7.51, 11.7.51, 12.7.51, 13.7.51, 14.7.51, 15.7.51, 16.7.51, 17.7.51, 18.7.51, 19.7.51, 20.7.51, 21.7.51, 22.7.51, 23.7.51, 24.7.51, 25.7.51, 26.7.51, 27.7.51, 28.7.51, 29.7.51, 30.7.51, 31.7.51, 1.8.51, 2.8.51, 3.8.51, 4.8.51, 5.8.51, 6.8.51, 7.8.51, 8.8.51, 9.8.51, 10.8.51, 11.8.51, 12.8.51, 13.8.51, 14.8.51, 15.8.51, 16.8.51, 17.8.51, 18.8.51, 19.8.51, 20.8.51, 21.8.51, 22.8.51, 23.8.51, 24.8.51, 25.8.51, 26.8.51, 27.8.51, 28.8.51, 29.8.51, 30.8.51, 31.8.51, 1.9.51, 2.9.51, 3.9.51, 4.9.51, 5.9.51, 6.9.51, 7.9.51, 8.9.51, 9.9.51, 10.9.51, 11.9.51, 12.9.51, 13.9.51, 14.9.51, 15.9.51, 16.9.51, 17.9.51, 18.9.51, 19.9.51, 20.9.51, 21.9.51, 22.9.51, 23.9.51, 24.9.51, 25.9.51, 26.9.51, 27.9.51, 28.9.51, 29.9.51, 30.9.51, 31.9.51, 1.10.51, 2.10.51, 3.10.51, 4.10.51, 5.10.51, 6.10.51, 7.10.51, 8.10.51, 9.10.51, 10.10.51, 11.10.51, 12.10.51, 13.10.51, 14.10.51, 15.10.51, 16.10.51, 17.10.51, 18.10.51, 19.10.51, 20.10.51, 21.10.51, 22.10.51, 23.10.51, 24.10.51, 25.10.51, 26.10.51, 27.10.51, 28.10.51, 29.10.51, 30.10.51, 31.10.51, 1.11.51, 2.11.51, 3.11.51, 4.11.51, 5.11.51, 6.11.51, 7.11.51, 8.11.51, 9.11.51, 10.11.51, 11.11.51, 12.11.51, 13.11.51, 14.11.51, 15.11.51, 16.11.51, 17.11.51, 18.11.51, 19.11.51, 20.11.51, 21.11.51, 22.11.51, 23.11.51, 24.11.51, 25.11.51, 26.11.51, 27.11.51, 28.11.51, 29.11.51, 30.11.51, 31.11.51, 1.12.51, 2.12.51, 3.12.51, 4.12.51, 5.12.51, 6.12.51, 7.12.51, 8.12.51, 9.12.51, 10.12.51, 11.12.51, 12.12.51, 13.12.51, 14.12.51, 15.12.51, 16.12.51, 17.12.51, 18.12.51, 19.12.51, 20.12.51, 21.12.51, 22.12.51, 23.12.51, 24.12.51, 25.12.51, 26.12.51, 27.12.51, 28.12.51, 29.12.51, 30.12.51, 31.12.51, 1.1.52, 2.1.52, 3.1.52, 4.1.52, 5.1.52, 6.1.52, 7.1.52, 8.1.52, 9.1.52, 10.1.52, 11.1.52, 12.1.52, 13.1.52, 14.1.52, 15.1.52, 16.1.52, 17.1.52, 18.1.52, 19.1.52, 20.1.52, 21.1.52, 22.1.52, 23.1.52, 24.1.52, 25.1.52, 26.1.52, 27.1.52, 28.1.52, 29.1.52, 30.1.52, 31.1.52, 1.2.52, 2.2.52, 3.2.52, 4.2.52, 5.2.52, 6.2.52, 7.2.52, 8.2.52, 9.2.52, 10.2.52, 11.2.52, 12.2.52, 13.2.52, 14.2.52, 15.2.52, 16.2.52, 17.2.52, 18.2.52, 19.2.52, 20.2.52, 21.2.52, 22.2.52, 23.2.52, 24.2.52, 25.2.52, 26.2.52, 27.2.52, 28.2.52, 29.2.52, 30.2.52, 31.2.52, 1.3.52, 2.3.52, 3.3.52, 4.3.52, 5.3.52, 6.3.52, 7.3.52, 8.3.52, 9.3.52, 10.3.52, 11.3.52, 12.3.52, 13.3.52, 14.3.52, 15.3.52, 16.3.52, 17.3.52, 18.3.52, 19.3.52, 20.3.52, 21.3.52, 22.3.52, 23.3.52, 24.3.52, 25.3.52, 26.3.52, 27.3.52, 28.3.52, 29.3.52, 30.3.52, 31.3.52, 1.4.52, 2.4.52, 3.4.52, 4.4.52, 5.4.52, 6.4.52, 7.4.52, 8.4.52, 9.4.52, 10.4.52, 11.4.52, 12.4.52, 13.4.52, 14.4.52, 15.4.52, 16.4.52, 17.4.52, 18.4.52, 19.4.52, 20.4.52, 21.4.52, 22.4.52, 23.4.52, 24.4.52, 25.4.52, 26.4.52, 27.4.52, 28.4.52, 29.4.52, 30.4.5

Count. EGRA

Repairs: the following repairs now effected:-

Donkey boiler:- It f.l.c. one secured stay renewed.
wasted shell plate at main check valve flange built up by E.W.
new drain plug fitted.

St. for. boiler:- lower manholes built up and doors refitted.
Subward low furnace - grooving in goose neck cut
out and built up by E.W.

Starb. double boiler:- Port wing C.C. two stays to shell renewed and C.C. plate
in way of one built up by E.W.
Some grooving in furnace throats cut out and built
up by E.W.

Port double boiler:- 5 C.C. screw stays renewed.
Two goose necks built up where grooved.
8 C.C. stays renewed.
Bolts in two bottom Guides supporting C.C.'s renewed.
Several smoke tubes expanded.

Starb. single boiler:- minor caulking in back ends.
St. wing furnace throat grooving cut out and welded.

J. R. [Signature]

General Observations, Opinion, and Recommendation:-