

COPY

# LLOYD'S REGISTER OF SHIPPING

No. 60/3311



Port H A M B U R G

1st December, 1960

**This is to Certify that**

R. P. K ä h l e r

the undersigned Surveyor to this Society did at the request of

Messrs. Howaldtswerke A.G., Hamburg, attend their works on the 24th January, 1960 and subsequently, for the purpose of examining during construction a set of reduction gear parts, as specified below, made under the Order No. 739 027 for Messrs. India Steamship Co. Ltd., Calcutta, and intended for the S.S. "INDIAN NAVIGATOR" 7660 tons gross of Calcutta.

One - Complete Set of Reduction Gear Pinions and Wheels for a double reduction gear of a 8000 HP plant have been examined during all stages of construction and on completion and all found to agree with the approved plans Nos. 9000-7762 JN, 7764 JN and 7765 JN.

The workmanship and materials are good.

**Specification:-**

1 HP primary pinion, Material EN 25, stamped:-

LLOYD'S HNO 621 GS 11.3.60

1 LP primary pinion, Material EN 25, stamped:-

LLOYD'S HNO 588 GS 11.3.60

1 HP secondary pinion, Material EN 25, stamped:-

LLOYD'S HNO 526 GS 2.3.60

1 LP secondary pinion, Material EN 25, stamped:-

LLOYD'S HNO 395 GS 20.1.60

1 HP 1st reduction wheel, Rim material EN 8, stamped:-

LLOYD'S HNO 387 GS 11.1.60

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certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:-

While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly performed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Members or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

1 LP 1st reduction wheel, Rim Material EN 8,  
stamped:-

LLOYD'S HNO 386 GS 11.1.60

1 Main wheel, Rim material EN 8, stamped:-

LLOYD'S HNO 287 and 288 GS 21.12.60

1 Main wheel shaft with thrust collar, stamped:-

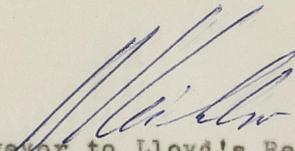
LLOYD'S HNO 189 GS 9.11.59 and  
LLOYD'S HNO 527 GS 24.2.60

The 1st reduction wheels and the main wheel have been fabricated from plate materials of boiler quality, directly welded to the rim. This works has been carried out under a pre-heating temperature of 220° C, the wheels stress relieved on completion and all welded seams crack detected before machining.

All above gear parts have been hobbled at Messrs. Howaldtswerke Hamburg A.G., assembled on a test bed for finishing the teeth by a lapping process, examined on completion by magnetic crack detecting and found good.

On completion, all gear parts have been stamped in addition to the above identification marks:-

HAM 3311 RPK 9.11.60

  
Surveyor to Lloyd's Register  
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