M.R.O. 1—77,006—8-6-37.

(1) Number of pages 6

(2) Date of repair 6-7-44

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

PublicWorks. **DEPARTMENT.**

G.O. No. 2804. Press Mis.

90-91

Dated 6-11- 1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 6th November 1871.

No. 90. Read the following letter from the Deputy Secretary to the Government of India, Public Works Department, (Guaranteed Railways—General,) to the Secretary to the Government of Madras, Public Works Department, (Railway,) dated Simla, 28th September 1871, No. 1,846 R:—

In continuation of Public Works Department Resolution Nos. 716—19-R of 2nd May 1871, I am directed to forward, for information, copy of papers relative to a design prepared by the Superintending Engineer of His Highness the Nizam's (State) Railway for cooling and ventilating passenger carriages.

Extract from Superintending Engineer's Memorandum on Rolling stock of His Highness the Nizam's State Railway for 5 feet 6 inches gauge on Bogie-truck construction.

* * * * * *

26. On and in the roof of each washing compartment, the ventilating and cooling arrangement detailed in this drawing is to be fitted up so that when required a constant stream of cooled fresh air, perfectly free from smoke and dust, will, with the motion of the carriage, be forced into these small chambers, and through the wire-gauze panels in their sliding doors, flow into the passenger compartments without causing draughts.

27. This apparatus consists of a sheet-iron cowl, A, fitted with a bayonet fastening to an iron-ring screwed on outside the roof for the purpose, and reversible so as to always be placed to face the direction in which the carriage is travelling.

The air thus forced through the outer roof is to be received in an enclosed compartment between the outer and inner roof of the carriage. The bottom of this compartment is to be fitted with a sheet zinc tray, B, having recurved edges to prevent splash; and a waste pipe fixed ½ inch above its bottom, so that a little water will always remain in the bottom of this tray to extinguish any sparks from the engine, etc., which may be drawn in with the air.

The air passes first through a wire screen, C, which will arrest any cinders, etc., then through an inclined tattee, D, made of a frame of light wood covered above and below, with brass wire-gauze, and filled in between the guaze with broken pumice stone kept continually moist by water dripping on its top surface from a perforated pipe leading from the water tank G, thus forming a tattee which, except as regards scent, will be as efficacious as the usual khus-khus grass tatties, and is free from the serious danger of being inflammable, should it by accident be allowed to get dry while at work. The air then passes through a finer wire-gauze screen, E. which will prevent the possibility of water from the tattee being carried with it, and drawn through the circular brass ventilator F through the inner roof of the carriage, the supply of cold air being regulated or cut off, as required, by opening and closing F at the pleasure of passengers.

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No. 91. Order thereon, 6th November 1871, No. 2,804.

RAILWAY, No. 13.

Communicated to the Consulting Engineer for Railways in continuation of G. O., No. 1,463, dated 30th May 1871.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Consulting Engineer for Railways, with a design.

Exd. S. T. Augustin.

P. W. 1871 Department
No. 4960.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GUARANTEED RAILWAYS.
General.

To

No. 1846 R.

Dated SIMLA, *September* 28, 1871.

Received 19th October/71

Encl 2.

Forwards copy of papers relative to a design prepared by the Superintending Engineer of His Highness the Nizam's (State) Railway for cooling and ventilating passenger carriages.

P. W. D. Press—3-10-71—40.

No. 2804 - 6th Nov/71.
With order.

Rec'd 30th Aug/71 Nos 503-504

Civ Engineer Guaranteed Lines

By Engineer for Railways in Central India

Communicated to the Consulting C.E. for Rys. with an Assistant

Rec'd 7/11/71.

(5)

C/2496

Govt. of {1871} Madras.

PUBLIC WORKS.

To

The Acting Consulting
Engineer for
Railways

Dated

Recd. Encl.

G. O. 5th November 1871, No. 2804.

Nos. 90 & 91

Railway Carriages. Letter from the Govt. of India forwarding copy of papers relative to a design prepared by the Engineer of H.H. the Nizam's (State) Railway for cooling and ventilating passenger carriages, and one of the Engineer Officers.