M.R.O. 1—10,006—28-2-50.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 2708 Press
~~B.P. No.~~ Mis.
71-72

Dated 5-11-1873 195 .

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 5th November 1873.

Read the following letters:—

No. 71. From Captain J. L. L. MORANT, R.E., District Engineer, Neilgherries, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Ootacamund, 27th August 1873, No. 153:—

In this district when mortar is mixed and tempered for large works it is ground in the usual stone bullock's-mill, but for smaller scattered works, which in this district preponderate, it is beaten up by the hand. This latter method is a very unsatisfactory one. The coolies when not overlooked (as they cannot continuously be) either neglect their work, or do it in a slovenly manner, beating over and over again the same spot. The mortar is consequently not properly mixed and tempered and the work upon which it is used suffers. I find advertisements in the English professional papers of mortar tempering machines and lime crushers for *hand*-power. The price of one of these machines, which could be easily worked by a no greater number than two coolies, is in England only 10 guineas. They would doubtless last a long time, and their use would ensure the mortar being properly tempered. The coolies could hardly play any tricks, and the mortar once inserted in the trough of the machine must issue from the tail properly churned.

2. The machines are portable on wheels, and so could readily be transferred from place to place.

3. I beg to annex drawings of these machines, and an indent on England in triplicate for six of them.

No. 72. Memorandum from Lieutenant-Colonel W. FAREWELL, Inspecting Engineer for Ports and Communications, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Camp at Calicut, 20th October 1873, No. 14.

One letter, No. 153, dated 27th August 1873.

As directed I have discussed the usefulness of these machines with Captain Morant, and he still wishes, as an experiment, to be provided with two of these machines, as he notes he has great difficulty in getting small quantities of mortar properly ground and mixed; he quite understands that the machine when required for use at a distance will require to be taken to pieces and carted to the work-site, etc., etc.

No. 73. Order thereon, 5th November 1873, No. 2,708.

ACCOUNT, No. 8.

Under the circumstances stated in these papers His Excellency the Governor in Council is pleased to direct the District Engineer, Presidency, to include in his annual Indent for English Stores to accompany the Budget for 1874-75, two mortar tempering machines for experimental use on the works in the Neilgherries.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Governemnt.

To the District Engineer, Presidency.
„ Inspecting Engineer for Ports and Communications.
„ District Engineer, Neilgherries.
Exd. S. T. Austin.
Spare Copies

Memorandum

Letter No 153
7th August
1873

As directed I have discovered the usefulness of these machines with Captain Morant, and he still wishes, as an Experiment, to be provided with two of these machines as he notes he has great difficulty in getting small quantities of mortar properly ground and mixed; he quite understands that the machine when required for use at a distance will require to be taken to pieces and carted to the work site &c. &c.

Lieut. Col
Inspecting Engineer for
Ports & Communications

Engrs Office
to Commrs
Calicut
Octr. 1/73

To

The Chief Engineer &
Secretary to Government
Public Works Dept.

No. 5873/73
Govt. of India.

PUBLIC WORKS.

To The Madras Engineer
Dated
Recd.
Encl.

G. O. 5 Nov. 1873. 2708.

Nos. 71 & 72

Skeen. Mr. Ryall. Mac-
donald. Mr. Fairclough.

Money directed to be
drawn in this annual
Indent per English Store
Steamer for Madras
of 1874/75: for Mortar
Tempering Machines for
experimental use on the
works in the Neilgherries.

P. W. 1873 Depart.

No. 5873.

From
The Inspecting Engr for Ports Nombr
To
The Secy. to Govt.
P. W. Dept.

Dated 20 October 1873
Recd 21st
Recd. 29th — " —

Encls: 1

Informs that the Neilgherry District Engineer is desirous of being provided with two of the "Hand Power Mortar "Mixing & Tempering "Machines"

Letter Order

No. 71-73.

No. 29/10/73

Accd

No. 2768

Under the circumstances stated in these papers His Excellency the Governor in Council is pleased to direct the Madras Presidency to include in his Annual Indent for English Stores to accompany the Budget for 1874-5, two Mortar Tempering Machines for experimental use on the works in the Neilgherries.

30/X

Govt.

D.L. Presidency
2 Engr for Ports
Dt. Neilgherries

S. C. Dutt
12/11/73

2708
5-11-1873