

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	458	Press
		<u>Mis.</u>
	25-26	
Dated	3-3-	1865.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Revenue Department,
3rd March 1865.*

No. 25. Read the following letter from Lieutenant-Colonel T. H. CAMPBELL, Officiating Superintendent Gun Carriage Manufactory, to J. D. SIM, Esq., Secretary to Government, Revenue Department, Fort Saint George, dated Madras, 14th February 1865, No. 164:—

Sir,

* 2 Plans herewith returned.

1. With reference to the Proceedings* of Government No. 255, dated 8th February 1865,

I have the honor to submit the following observations:—

First.—The application of treddles to the Rope Pump makes it too costly for use amongst the Ryots; and it is doubtful if the pump would work with sufficient power and facility with treddles; according to this plan I do not expect that more than 15 or 20 gallons of water could be raised per minute.

Second.—With regard to Mr. Moncrieff's mode of working this pump with bullock-power, I have to observe that it is very simple, but his plan is deficient in velocity. To make this pump work to any advantage, the spindle should at least make about 40 revolutions in a minute; Mr. Moncrieff's arrangement only gives about seven, supposing a pair of bullocks to walk at the rate of about two miles an hour. To meet this contingency, I had already prepared a plan which I herewith forward.

Third.—I agree with Mr. Moncrieff that it would be better to use a chain than a rope, as the rope may decay and break, and if expense is to be incurred for putting up apparatus for using bullock-power, it would be better to go to the small increase of expense involved by using chain instead of rope. Viewing the matter in this light, I constructed a pump with a chain instead of rope, some time ago, for the use of the Manufactory, and it has now been working about a month most satisfactorily, throwing up more than 60 gallons of water per minute, the diameter of the pipe being the same as in the Rope Pump, 3 inches, it is worked either by crank or by band and pulley, two men doing the work in either case; a pump of this kind five inches in diameter could, I think, easily be worked by a pair of bullocks, and the amount of water raised would be about 120 gallons per minute.

Fourth.—The idea of using chain was not lost sight of by this Department, rope was only suggested for special use amongst the poorer class of Ryots, where the means of making and repairing chains were not available.

It is quite unnecessary to send to this Department plans for the application of motive power, as the resources of the Department can easily supply them.

2. The cost of applying each description of power is—

					Rs.	A.	P.
For Treddles	...	...	...	...	80	14	11
For Bullock	...	...	...	...	148	5	4

No. 26. ORDER THEREON, 3rd March 1865, No. 458.

Miscellaneous.

1. The Government wish two pumps, (one to be worked by a couple of men by treddles and one by bullocks) to be set up in Homes' Gardens, for trial and exhibition.

2. The Board of Revenue will select suitable wells for the purpose, and as soon as the pumps are effectively set up, give notice of the subject in the District Gazette.

(True Extract.)

(Signed) J. D. SIM,

Secretary to Government.

To the Board of Revenue.

„ the Superintendent Gun Carriage Manufactory.

„ the Inspectors General of Ordnance and Magazine
„ the Military Dept.

Exd. S. T. Augustin.

W-458- ✓

The pt. with a pump
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~~(W-458-)~~ worked by
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3rd March/65. S.D.S.

Handwritten notes in a box, possibly a list or a set of instructions. The text is difficult to decipher due to the quality of the scan, but appears to be organized in a structured manner.

Handwritten notes at the bottom of the page, possibly a signature or a date.

No 8 January 15 1758-159

From the Honorary
Secy to Farm Committee
22 July/65 CA 2024.

114 For the Board of Oversees Dec 4. March 1
1 the Capt of the Jan. Classed Manufacturing
1 the Inspector General of Ordnance and Artillery Dec 7. 80
1 the Secretary Dept. of the Treasury Sept. 5

Recd 1865-
The Hon. Secretary to Government
Revenue Department

Patet M^o Feb. 25 1863
Recd 1864

8-4-11 @ 18 $\frac{164}{1865}$

Towards his observations
on the above Plans for
constructing Pumps to gather in
a Plan prepared at the Gun-
powder Manufactory.

From the 1st. Gun Carriage
Manufactory 14th March '55
621.899-

With an order

No 458. 3 March

N^o 25 + 26.