

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No. 926

Press
Mis.

Dated 20-4-1866

Not to be folded or roughly handled

*Proceedings of the Madras Government, Revenue Department,
20th April 1866.*

No. 302. Read the following letter from W. WALTON, Esq., Acting Superintendent Dharwar Factory, to the Secretary Her Majesty's Government, Madras, dated Dharwar, 5th April 1866, No. 430:—

1. Adverting to paragraph 4 of my letter No. 333, dated 17th ultimo, and in obedience to the orders noted in the margin, I have the honor to send the bearer Bussapa bin Kristnapa, a Maistry (Foreman workman) of this Factory, to

Resolution of Bombay Government, No. 503, dated 10th February 1866, on letter from Government of Madras, No. 269, dated 1st February 1866.

assist in the proposed experiments of Cotton machinery at Madras.

2. The man has been directed to proceed *via* Bangalore, to report himself on arrival, and has received Rupees (90) ninety, as advance of pay and towards travelling expenses; he should arrive at Madras on about the 20th instant.

3. I would beg to point out that it will probably be necessary to provide Bussapa with a few ordinary Carpenters and Smith's tools, to enable him to put the Cotton Gins into proper order previous to working.

4. The man has been informed that his services will not long be required at Madras, and I would solicit that he be returned here as soon as practicable.

5. I beg that I may be informed of whatever sums (if any) are paid to Bussapa during his stay in Madras.

6. I have made the workman clearly understand that his remuneration entirely depends upon the manner in which he conducts himself; from his long good character I have no fears on this head, but I would beg the favor of a report upon his conduct from the officer conducting these Cotton experiments.

DHARWAR, 5th April 1866.

No. 431 of 1866.

1. True copy submitted by post to the Secretary to Government, Madras.
2. A set of instructions for working Dharwar Saw Gins is enclosed, none are yet available for the Treadle Churkas, but the workman sent understands the latter machine better than any written instructions could describe it.

(Signed) W. WALTON,
Acting Superintendent Dharwar Factory.

DIRECTIONS FOR WORKING A COTTON SAW GIN.

1. The room in which the machine is to be used should be about 36 feet long by about 12 wide, and it should be divided by a partition into two compartments, the smaller of which (called the lint room) should be 12 feet long. In the partition a square aperture is to be made to admit the mouth of the flue through which the cleaned cotton has to pass. This lint room should not be too air tight, otherwise the flue will become choked.

2. Having carefully levelled the spot on which it is to rest, place the Gin with the mouth of the flue inserted a couple of inches into the aperture in the partition. In this position it is to be firmly fixed and perfectly steadied either by pegs at the corners or by being built round the base with stone and chunam, so that it may not be liable to be shaken whilst being worked. The small strap or band is then to be applied in the following manner. It works upon the inner and larger rim of the saw pulley and over the top of that of the brush, so as to cause the latter to move inwards or in an opposite direction to the saws. This band is tightened by means of the rack attached to the small pulley, which should be carried to an extent sufficient to cause the brush to clear the flue well of the cleaned cotton, and to blow the latter to a distance of about 10 or 12 feet.

3. The mode of placing the driving wheel is as follows:—It should be levelled and firmly steadied by strong pegs, but before doing so it should be observed that it is in a direct line with the pulley of the saw so that its band or strap will run freely without lateral displacement, and this

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strap is to be sufficiently tightened (by means of the holes which will be found for that purpose) to prevent its slipping on the pulley. Four men are required to work the driving wheel, two at each handle, standing face to face, and the proper rate of speed is 45 revolutions per minute. As regards the length of strap to be used, it should be such as to admit of the centre of the driving wheel being 18 feet distant from the saw pulley. A quantity of the kupas to be cleaned may be placed on the top of the Gin, and the person who feeds the machine stands opposite the hopper with his back to the driving wheel. The hopper is the hinged box trap, in which the saws revolve and which receives the kupas.

4. A little experience is required by a new hand before the mode of feeding is properly attained, and before he succeeds in getting the roll of cotton which fills the box to revolve steadily. The best way at starting is to fill the hopper with a mixture of two equal parts of cleaned seed and uncleaned kupas well mixed together. Raise the box then upon its hinges a little way so as to clear its contents from the saws, and when the Gin is fairly in motion press it down suddenly and firmly. The contents will then be made to revolve by the saws (formerly what is called the roll), and the feeder should continue to supply kupas sufficient to keep the roll moving evenly and the hopper full but not to overcharge it. In proper working order and in absence of damp weather the Gin should clean one maund of 28 lbs. kupas in 15 minutes. If the roll does not start at once by the above means, it may be made to do so by raising and dropping the box once or twice in the manner mentioned, and it will always be necessary to do this occasionally when the machine is at work, so as to shake out any accumulation of cleaned seed that may collect in the box.

REMARKS.

1. Before setting the machine to work in the first instance, and after it has been placed it would be well to ascertain that the saws revolve without rubbing against the iron grating. To observe this, the seed board in front of them must be removed by undoing the nuts which hold it on each side of the hopper. A Carpenter or artizan can then by turning the pulley with his hand see whether all the saws are working truly. Any that touch the grating can be carefully bent to the other side with a long pair of plyers. If all the saws are too much to either side, the whole saw pulley can be shifted by unscrewing the plummer blocks that the saw spindle works in on each side and moving them to the side required, being careful to screw them down tight again. These plummer blocks are so constructed, that they can be moved about one-eighth of an inch to either side. Great care, however, must be taken in re-placing the seed board exactly in its present position, which should be noted. Any mistake in this respect will be known either by the seed falling out too freely and not properly cleaned or by its not falling through at all, and it must be remedied by enlarging or contracting the opening through which it passes, viz., by pressing the bottom of the seed board a little nearer to the bottom of the grating, or drawing it a little further away as may be required.

2. The Gin should be kept clean, and the bearings well oiled (a little cotton soaked in coconut oil should be placed in the cups), and care should be taken that no sand or stones to injure the saws are mixed with the kupas.

Dharwar, Cotton Gin Factory, 1861.

No. 303.

ORDER THEREON, 20th April 1866, No. 926.

Miscellaneous.

Communicated to the Board of Revenue and the Farm Committee, with reference to paragraph 2 of G. O. of 1st February 1866, No. 268.

(True Extract.)

(Signed) J. GROSE,

Under Secretary to Government.

To the Board of Revenue.
,, the Farm Committee.

Exd. S. T. Augustin.

W-926.

Communicated to the Bd
of Rev. & the Farm Committee with
reference to para 2 of G. O. of
1st Feb^y 1866, No. 268.

J. G. S.

20th Apr-1866.

To
14 The Bd of Rev. & the Farm Committee
6th The Farm Committee

Secretary to Government - Madras.

2 A set of instructions for working
Apparatus & Co is enclosed none are yet
available for the trade & but the
workman don't understand the latter
machine better than any written instruction
could decide it.

W. M. M. M.
Secretary to Government - Madras.