

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	<i>2852</i>	Press
	<i>314-316</i>	~~Mis.~~
Dated	<i>27th Feb 1869</i>	

Not to be folded or roughly handled

2852

*Proceedings of the Madras Government, Revenue Department,
27th October 1869.*

Read the following :—

No. 314. Proceedings of the Board of Revenue, dated 17th July 1869, No. 5,113.

Read the following Proceedings of the Madras Government, dated 14th June 1869,
No. 1,702, Revenue Department.

ABSTRACT.—*English Agricultural Implements*.—Letter from Government of India, requesting to be furnished with a description of the rice-hulling machine erected on the Bezwada and Masulipatam Canal, together with a report communicated to Revenue Board to supply the information.

THE Collector of Kistna District will be requested to obtain from the Engineer Department and submit, for transmission to the Government of India, a description of the machine, together with an account of the results of any trials of later date than those reported in Captain Smith's memorandum, printed in Board's Proceedings, 10th December 1866, No. 8,769.

2. The Honorary Secretary, Government Farm, will be requested to state when it is proposed to set up the other machine, which it was ordered should remain in the stores until arrangements had been made.—*Vide* Board's Proceedings, 17th January 1867, No. 322.

No. 315. Proceedings of the Board of Revenue, dated 4th October 1869,
No. 7,369.

Read the following letters :—

From J. A. C. BOSWELL, Esq., Officiating Collector of the Kistna District, to the Acting Secretary to the Board of Revenue, dated Masulipatam, 6th September 1869, No. 276.

WITH reference to the Board's Proceedings, dated 17th July 1869, No. 5,113, and Government Order, dated 14th June 1869, No. 1,702, Revenue Department, communicated with Board's Proceedings, dated 13th August 1869, No. 6,025, requesting me to obtain from the Engineer Department, and transmit, for transmission to Government of India, a description of the rice-hulling machine erected at Nidamole, I have now the honour to submit a description of this machine, with

* Sent by banghy.

plans* prepared by Mr. John J. McAlpine,
Executive Engineer.

2. He gives also the results of certain experiments made by the renter. My letter, dated 20th May 1869, No. 144, contained an account of the results of trials of later date than those reported in Captain Smith's memorandum, printed in the Board's Proceedings, 10th December 1866, No. 8,769.

ENCLOSURE No. 1.—Description of Hulling Machine.

ENCLOSURES Nos. 2 and 3.—Plans.

*Proceedings of the Madras Government, Revenue Department,
27th October 1869.*

From the same officer, dated Masulipatam, 8th September 1869, No. 278.

As Mr. McAlpine, the Executive Engineer, writes to me, that in describing the water-wheel connected with the rice-hulling machine, he erroneously stated that it contains forty-eight buckets, whereas it contains only forty. I have the honour to request that the necessary alteration may be made in the description just forwarded to the Board, with my letter, dated 6th September, No. 276, as the difference is of considerable importance.

From the Acting Honorary Secretary, Government Farm, to the Acting Secretary to the Board of Revenue, dated Sydapet, 3rd August 1869, No. 36.

With reference to the Board's Proceedings, No. 5,113, dated 17th July 1869, I have the honour to state that the rice-hulling machine will be set up at Government Farm as soon as the machinery has been altered and fitted to the engine by the Public Works Workshops.

2. I regret to add that since the Mint has been closed, none of the works transferred for execution to the Public Works Workshops have been completed; in fact, several of the wells on the Farm are for the time useless, until parts of the machinery are required.

THE Board resolve to transmit the Collector of Kistna's letter, together with its enclosures, to Government, with reference to their Order of the 14th June 1869, No. 1,782.

2. It does not appear that any formal experiments have been made since those of 1866, but the Range Officer supplies information of work turned out from the Contractor's books.

3. The Acting Honorary Secretary, Government Farm, reports that a similar mill which has been lying at the Government Farm at Sydapet is now being set up by the Public Works Department, to be worked by one of the steam engines.

No. 316.

ORDER THEREON, 27th October 1869, No. 2,852.

Miscellaneous.

THE Government are obliged to Mr. McAlpine for his carefully executed drawings of the rice-hulling machine recently submitted by the Acting Collector, will be forwarded to the Government of India.

2. As it is of the highest importance that the working of the mill should be exhibited to the best advantage, the Acting Collector should, if practicable, attend to the suggestion relative to the raising of the water-wheel, conveyed in paragraph 18 of the description furnished by Mr. McAlpine.

3. The Government observe that it is impossible to form an accurate opinion on the merits of the machine from the statements regarding its working, enclosed with Mr. Boswell's letter, dated 20th May 1869, No. 144. This desideratum will

*Proceedings of the Madras Government, Revenue Department,
27th October 1869.*

doubtless be supplied when a similar machine is set up at the Government Farm. Meanwhile, it would be well if the Acting Collector, in submitting the further report called for by the Board in their Proceedings, dated 9th July 1869, No. 4,937, would adopt the simpler mode of calculation employed in the note to paragraph 8 of the Board's Proceedings, dated 15th April 1868, No. 2,766.

(True Extract.)

(Signed) R. A. DALYELL,

Acting Secretary to Government.

To the Board of Revenue.

Exd. F. R. Bantleman.

No. 7,369:

PROCEEDINGS OF THE BOARD OF REVENUE, dated 4th October 1869.

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Read also the following letters:—

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ENCLOSURES Nos. 2 and 3.—Plans.

From the same Officer, dated Masulipatam, 8th September 1869, No. 278.

As Mr. McAlpine the Executive Engineer writes to me, that in describing the water wheel connected with the Rice Hulling Machine, he erroneously stated that it contains 48 buckets, whereas it contains only 40. I have the honor to request that the necessary alteration may be made in the description just forwarded to the Board, with my letter dated 6th September, No. 276, as the difference is of considerable importance.

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3. The Acting Honorary Secretary, Government Farm, reports that a similar mill which has been lying at the Government Farm at Sydapet is now being set up by the Public Works Department, to be worked by one of the Steam Engines.

(True Copies and Extract.)

Shanmugam
Acting Secretary.

To the Acting Secretary to Government, Revenue Department.,

with copy of Board's Proceedings, No. 5,113 of 1869,

2 Plans, and a description of Hulling Machine.

Copy to the Officiating Collector of the Kistna District.

.. to the Acting Honorary Secretary, Farm Committee.

Exd. G. A. Turton.

Oct. 17 1869

REVENUE.

THE BOARD OF REVENUE.

Chief Officer, Secy.

G. O. 2711 dated 1869, No. 2,832.

SECRET.

Ms. 314-316.

Miscellaneous Machine.—Dennis L. Brown
has forwarded a description of it, enclosed to be
forwarded to Government of India.

Description of Rice Hulling Mill at Nedumole Lock, on the Masulipatam Canal, Kistna District, to accompany two plans, *Plat. 1. and 2.*

The Mill is situate alongside the reach of the Canal immediately above Nedumole Lock. 2 It is worked by a high breast water wheel, the water being admitted 3 feet from the top of the wheel: the wheel is 42 feet in diameter, and four feet wide in the clear between the shroudings, and contains 40 buckets.

3 The wheel is constructed partly of cast-iron and partly of wrought iron, the shrouding and centre portion being of the former description of metal; and the buckets, radial arms and axle, being of the latter.

4 The shrouding consists of 16 segments in all, 8 at each side, breaking joint, and fitted together by screw bolts; the depth of the shrouding is 10 inches, which is also the depth of the buckets.

5 The radial arms are also 16 in number, 8 on each side, likewise breaking joint; each arm fits into two sockets, the upper socket is cast with, and forms part of the shrouding, and

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Memorandum
1869. Oct 4
Board of Revenue,
MADRAS.

11-34/2.

PROCEEDINGS, 4TH OCTOBER 1869, No. 7,360.

Proposed October 1869, Encl 4,
Received 11-34/2.

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OCTOBER
No. 7,360.

Rice Hulling Machine—erected on Bezwa and Masulipatam Canal in Kistna District, and similar machine in store at Government Farm at Sydapet in Madras District.—Letters from Collector and Honorary Secretary, Farm Committee, containing information regarding, submitted to Government.

Recd 2052. 27 Oct 1869

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and the lower Locket is cast with the
centric portion, so will be readily under-
stood by reference to plan No. 1. The
arms are cylindrical, $2\frac{1}{4}$ inches in dia-
meter, and are kept tight in their
places by small screw bolts.

6. The axle of the wheel is $4\frac{1}{2}$ inches in
diameter, and the axle journals revolve in
plummer blocks within brasses in the usual
manner, as shown on the plan at 3.

7. The power of the wheel is taken from the
axle by a driving wheel C which transmits
the power to the working shaft D thro' the
pinion E.

On the working shaft are two plain belt
wheels F and G for working an ordinary Winnow-
ing machine, and a corn screen, see Plan No. 2.

8. HH are two plummer blocks for the work-
ing shaft journals, likewise fitted with
brasses, and there are two other similar
plummer blocks attached to those parts of
the framing of the Mill stones stand, cor-
responding with I which cannot be seen in
the plan view, also for the support of the
Working shaft.

9. K is a sliding Coupling Clutch, kept in po-
sition by means of a small screw bolt, by
this

this contrivance the Mill can be put, either in,
or out of gear, at pleasure.

10. L is the bevil gearing, by which the motion
of the horizontal shaft is transmitted to the
Vertical shaft or spindle M to which the up-
per Mill stone is attached, and which revolves
over the under Mill stone which is fixed.

11. The Mill stones are, each 4 feet in dia-
meter, and 12 inches thick.

12. The Vertical shaft is supported by a lever,
the end of which is seen at N, this lever can be
either raised or lowered by the wheel O, and
the slow motion screw attached to it, thereby
raising or lowering the upper mill stone,
according to the size of the grain required to
be hulled.

13. P is the Hopper through which the Mill is
supplied with grain, and Q is the Spout through
which the milled grain, or rice, falls.

14. R is a part of the upper surface of the top
Mill stone: the plate iron Casing S can be re-
moved, so that the stones can be taken out
and recut when necessary.

15. Water is admitted, or cut off from the wheel
by means of a shuttle worked in the usual
manner by a Rack and pinion.

16. In connection with the Mill there is a

winnowing

winnowing machine, and a corn sieve, it is hardly necessary to observe that the winnowing machine is for the separation of the Rice from the hull or chaff, and the Corn sieve is for sorting mixed grain of unequal size.

17. The Mill has been in operation but one season, viz the latter part of last year when it was rented by C. Camaswera Dichtulu, from his Book I ascertained that it performed the following duty: On the 27th of October 12 1/2 Caudies of Paddy were hulled and winnowed in twenty hours, and on the following day in the same number of hours 10 1/2 Caudies of Rice were obtained, and on the 24th of the same month in fifteen hours 8 1/2 Caudies.

18. The water wheel is not placed in the most advantageous position, it being immersed to a depth of from 18 to 24 inches in back water, according to the level of the reach below the Mill; therefore, to render the wheel more powerful it ought to be raised about one foot, thereby lessening the depth of immersion.

and causing the water from the Pentrough to enter the wheel at a more effective point.

Camp Kamawoo } signed John M. Alpine.
September 3rd 1869 } Executive Engineer in
Charge of 7th or
Masulipatam Range N.D.

[Signature]

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Rev. Secy. Oct 19 1854

Description of Rice
Hulling Machine
as shown at the
Manufacture Canal.

Rev. Department
No. 2852.
Proceedings of the Madras Government
under date the 27th Oct. 1854

Read the following
Proceedings of the Board
of Revenue.

Subj. letters from Colls.
& Honorary J. J. Farm Committee containing
information regarding Rice Hulling Machine
erected on Berywada & Masulipatam can-
als in District Diets & similar ma-
chine in store at Govt. Farms at
Lydapel in Madras District.

(H.C. 4. October 1854)

Wd
A. A.

The Government
are obliged to Mr.
Mc Alpine for his
carefully executed
drawings of the Rice
Hulling machine, at
Madamole

Notes which, together
with his description of
the same and information
recently submitted by
the A. C. Collector will
be forwarded to the Govt.
of India.

2 As it is of the
highest importance that
the working of the mill
should be exhibited to the
best advantage, the A. C.
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in submitting the further
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mode of calculation em-
ployed in the note to
para 8 of the Board's
Proceedings dated 15th
April 1868, No. 2766.

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14 Little W. Riv. Dec 28

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Edw. Hall