M.R.O. 1—77,006—8-6-37.

(1) Number of pages 10

(2) Date of repair

(3) Initials of the Reference

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 3044 Press Mis.

372-73

Dated 19. 12 1862.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 19th December 1862.

No. 372. Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, R. E., Deputy Chief Engineer, Northern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated Chepauk, 21st November 1862, No. 485:—

1 Letter from District Engineer, Kistna No. 44, dated 11th August 1862.
1 Do. from District Engineer Upper Godavery No. 279, dated 8th November 1862.
1 Do. from District Engineer, Lower Godavery No. 358, dated 6th September 1862, with two enclosures.
1 Do. from do. No. 327, dated 29th August 1862.

SIR,

1. I have the honor to forward the reports of the Districts Engineers Upper and Lower Godavery and Kistna, on the scheme of utilizing waste water power, called for by Government in Order No. 1,580, dated 7th July 1862.

2. Captain Haig states that there is at present no waste water power from weirs, &c., in the Upper Godavery District; but that when the works at the Dumagudiem barrier are completed, there will be a large amount of it both at the head and tail of the canal. At the latter point probably 20,000 cubic yards per hour, falling 70 feet for six months of the year, for some years to come.

3. Saw mills, he suggests, might be established, but as it seems doubtful whether when the works are completed there will be any timber left to cut up, I am at a loss to see what use the saw mills would be of.

4. Major Anderson reports that no measures have yet been adopted to utilize the water power of the Kistna.

5. That river by the command of fall created by the Anicut, affords practically unlimited water power for nine, ten or more months of the year, but owing to the great fluctuation of level, the construction of machinery suitable and secure from injury would be difficult, and he thinks that in the Anicut channels only, where the fluctuation is less, could machinery be conveniently used. He specifies three sites where there is a fall of 6 to 8 feet, and where saw mills might be erected. He states that canals could not be used, as mill channels are in England by returning the water to the river, except when the latter is low.

6. He thinks that saw mills are the only description of machinery likely to succeed, and questions whether they would do so in the Kistna District, as neither for Government, nor private use, is there any great demand for sawn timber, and the timber used in the Delta will, when the Ellore Canal is open, be drawn from Dowlaishwaram, when mills can be more conveniently established than in the Kistna Channels.

7. Major Stoddard furnishes a tabular statement of sites of several falls in the Lower Godavery Delta, with the monsoon and summer horse power available at each.

8. He says there can be no question as to the great benefit that would result from the utilization of the waste water power.

9. He states that in 1854, a proposition was made by a private Company to Government for the establishment of a Cotton Spinning Factory to be worked by water power at some of the falls in the Godavery Delta Channels. Government agreed to rent the water power on certain terms, which he specifies, but nothing came of the affair, and the Company was not established.

10. A Cane Crushing Mill with a 40-h. p. which was erected in the Godavery District by Messrs. Arbuthnot & Co., was worked for a year or so, and finally abandoned on what grounds the District Engineer is not informed.

11. The District Engineer has communicated with the different merchants on the subject, and the results of his enquiries are, that the most useful machines would be for sawing, oil pressing, rice cleaning, cotton screwing, and gunny weaving. He details the best sites for the erection of machinery as marginally* indicated.

* Samulcottah Calingulah.
Madapad do.
Covoor do.
Alamoor do.
Vellah do.
Munjair do.

12. He thinks that there is more chance of machinery, if erected by Government, being rented, than of Companies being formed to start machinery and rent the water power of Government. Says that one merchant

suggests the formation of Joint Stock Companies, in which Government are to take several shares. The District Engineer is of opinion that Government should begin by erecting mills for sawing, rice cleaning, and gunny making, and offering them on rent to highest bidder. Liberal prizes to be offered for the best models of machinery, which would finally be made up in the Government Workshops.

13. I do not myself think that it would be advisable for Government to adopt any such course. It would be sufficient for them to make known the localities where water power is available and offer to rent such power to Companies or individuals on easy and favorable terms.

14. A Government saw mill near Dowlaishwaram or Cocanada, to be worked by water power, might, perhaps, be established with some prospect of success.

No. 373. ORDER THEREON, 19th December 1862, No. 3,044.

If the Government has sufficient work to keep a Saw Mill going, it might go to the expense of erecting one at one of the sites on the Godavery; but the suggestion that it should erect a Mill of any kind as a speculation cannot be approved. The Governor in Council is of opinion that it might be as well to specify one or two places, giving the fall and the quantity of water disposable, and to offer this power at a *low rate* to the public at large.

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

N° 485.

Northern Circle Office
Cheepauk 21st November 1862

From,
Lieutenant Colonel F.C.C. Ludlow R.E.
Deputy Chief Engineer N.C.

To
Colonel W.I. Birdwood R.E.
Secretary to Government P.W.D.

Sir,

Enclosures 6.
1 Letter from Dist. Engr. Godavery & Kistna Rabbi 2/11th Augt 1862.
1 Do from Dist. Engr. Upper Godavery. Rep. 1st Qr. 1862.
1 Do from Dist. Engr. Lower Godavery 2/1088/962 dated 15th Oct. with 2 Encls.
1 Do from Do dated 3rd Nov. with 1 Encl.

I have the honor to forward the reports of the Districts Engineers Upper and Lower Godavery and Kistna, on the scheme of utilizing waste water power called for by Government in Order N° 1580, dated 1st July 1862.

2. Captain Haig states that there is at present no waste water power from weirs &c. in the Upper Godavery District; but that when the works at the Dumagudium Barrier are completed, there will be a large amount of it both at the head and tail of the Canal. at the latter point probably 20,000 Cubic yards per hour, falling 70 feet for 6 months of the year, for some years to come.

3. Saw Mills, he suggests might be established, but as it seems doubtful whether when the works are completed there will be any timber left to cut up, I am at a loss

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to see what use the Saw Mills would be of.

4. Major Anderson reports that no measures have yet been adopted to utilize the water power of the Kistna.

5. That river by the command of fall created by the Anicut, affords practically unlimited water power for 9, 10 or more months of the year, but owing to the great fluctuation of level, the construction of machinery suitable and secure from injury would be difficult, and he thinks that in the Anicut Channels only, where the fluctuation is less, could machinery be conveniently used. He specifies 3 sites where there is a fall of 6 to 8 feet, and where Saw Mills might be erected. He states that Canals could not be used, as Mill Channels are in England by returning the water to the river, except when the latter is low.

6. He thinks that Saw Mills are the only description of machinery likely to succeed, and questions whether they would do so in the Kistna District, as neither for Government nor private use is there any great demand for sawn timber, and the timber used in the Delta will, when the

B Close

& Close Canal is open, be drawn from Dowlaishwaram, where Mills can be more conveniently established than in the Kistna Channels.

7. Major Stoddard furnishes a tabular statement of sites of several falls in the Lower Godavery Delta, with the Monsoon and summer Horse power available at each.

8. He says there can be no question as to the great benefit that would result from the utilization of the waste water power.

9. He states that in 1854, a proposition was made by a private Company to Government for the establishment of a Cotton Spinning factory to be worked by water power at some of the falls in the Godavery Delta Channels. Government agreed to rent the water power on certain terms, which he specifies, but nothing came of the affair, and the Company was not established.

10. A cane crushing Mill with a 40 Horse Power which was erected in the Godavery District by Messrs Arbuthnot and Co., was worked for a year or so, and finally abandoned

abondoned on what grounds the District Engineer is not informed.

11. The District Engineer has communicated with the different merchants on the subject and the results of his enquiries are, that the most useful machines would be for Sawing, Oil pressing, Rice cleaning, Cotton screwing and Gunny weaving. He details the best sites for the erection of Machinery as ~~originally~~ indicated

X Samulcottah Balingapad
Madapad — Do.
Covoor — Do.
Alamoor — Do.
Vellah — Do.
Munjair — Do.

12. He thinks that there is more chance of machinery if erected by Government being rented, than of Companies being formed to start machinery and rent the water power of Government. Says that one merchant suggests the formation of Joint Stock Companies in which Government are to take several shares. The District Engineer is of opinion that Government should begin by erecting Mills for Sawing, Rice cleaning and Gunny making and offering them on rent to highest bidder. Liberal prizes to be offered for the best models of machinery, which would finally be made up in the Government workshops.

13. I do not myself think that it would be advisable for Government to adopt any such course. It would be sufficient for them to make known the localities where water power is available, and offer to rent such power to Companies or Individuals on easy and favorable terms.

A Government Saw Mill near

14. Dowlaishwaram or Cocanada, to be worked by water power might, perhaps, be established with some prospect of success.

I have the honor to be,
Sir,
Your Most Obedient Servant

Head Circle Office
Chepauk
21st November 1862

J. C. Madden Lieut. Colonel
Deputy Chief Engineer N.C.

To
Colonel W. F. Birdwood R.E.
Secretary to Government P.W.D.

Read [illegible]

No 3044

Proceedings of the Madras Government - Gl

Under date the 19th December 1862 -

Read the following letter from the

Dy Chief Engineer ePot Hon Circle -

Forwarding the report of the Executive
Engineer Upper and Lower Godavery and
Kistna on the scheme of utilizing waste
water power called for by Government
in Circular No 1580 dated 7th July 1862 and
offering observations thereon -

(Para entered 21st November 1862 No 485)

Sir the Government has had
under consideration the Report
forwarded with your letter
and the reports
of the Executive Engineers
Upper Godavery and Kistna
on the scheme of utilizing
waste water power called
for by Government in Circular
No 1580 dated 7th July 1862
and offering observations
thereon -

Pwo: 7 July 1862 Nos 117-118 -

No 372

Dept of Public Works 1862

From

The Dy Chief Engineer N.C.

To

The Secretary

to Government P.W.D.

Dated 21st
Recd 22nd } November 1862

No 485.

Encl: 6 Returns

Forwarding the report
of the Dist Engr Upper
Godavery and Kistna
on the scheme of utilizing
waste water power called
for by Govt in Order No 1580
of 7th July 1862 and offering
opinion thereon.

No 3044 - 19 December.

Submitted for orders with reference to the remarks
recorded by His Excellency the Governor, d/ 7 June for.

If the Govt has sufficient work which
a Saw Mill going it might pay to the expense
of erecting one at one of the Sadr Stations
but I cannot approve of the suggestion that
it should erect a Mill of any kind as a
speculation. I think it might be an work
to employ one or two plans giving the full
and the quantity of water disposable. &c
&c offer the power at a low rate to the
public at large

No 372

C. 2nd Dec 1862.

A.M. 1802. Disputes
Pltr of Goods for Dear
pd 3644 - -
Pltrs of Stock Goods
Dy 10th Dec 1802 - -

From Chief Secy to Govt
Dated 6th & 16th Jan

Disapproving of the proposition for the erection of a Dam-wall to be made by master Power at certain rates for the Company as a matter of speculation and proposing to dispense them to the public at low rate

Pl. 372. 373.