M.R.O. 1—77,006—8 6-37.

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(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 915	Press —Mis.
655-56	
Dated 28. 3	1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 28th March 1871.

No. 655. Read the following letter from the Superintending Engineer, 3rd Division, to the Chief Engineer for Irrigation, dated Bellary, 3rd March 1871, No. 2,479 :—

WITH reference to G. O., No. 1,644-A., dated 8th July 1870, sanctioning an estimate for Rupees 105 from under Reserve "Agricultural" for ascertaining by experiment the quantity of water required for an acre of land under rice cultivation in the Poddatoor Range, Cuddapah District, I have the honour to forward, for the information of Government, the accompanying two reports, in original, received from the Overseer in temporary charge of the range, under whose observations and instructions the experiment was conducted.

2. It will be observed that the result being a failure was purely accidental, and not due to any neglect on the part of Mr. Thorpe, the Overseer, or of any other subordinate. Government lose no money on this account, and as Mr. Thorpe is willing and anxious to have another trial, I trust that the sum of Rupees 105 may be sanctioned for the same from funds in 1871-72.

3. Mr. Thorpe's reports being so elaborate, call for no remarks from me.

From Mr. R. W. THORPE, Overseer in temporary charge of Poddatoor Range, to the Superintending Engineer, 3rd Division, dated Nundialumpett, 6th December 1870, No. 390.

I MUCH regret to report, with reference to the experiment being made to ascertain the quantity of water required for rice cultivation, that through a mistake on the part of the ryot who undertook the cultivation, by mixing two kinds of seed grain, namely, "Pedda Pessanna" and "Gurrika Siddaloo," (the former species taking six months to come to maturity, and the latter four months,) the experiment has failed. The crop is eighty-five days old, and the four-month plant has in patches thrown out ears of grain.

2. Before relating the measures taken to carry out the experiment, I must mention that Government will suffer no loss from this failure, except perhaps the time and labour devoted by the office people in recording observations, etc. Immediately on the receipt of your docket, No. 901, of 14th July 1870, I sent for the above-mentioned ryot, an inhabitant of the village of Nundialumpett, and with whom Mr. Lewis had previously made arrangements to allow us to experiment on his land, and it was agreed, as he had a complete establishment of men, bullocks, etc., that he should undertake the ploughing, sowing, harvesting, etc., the only interference on our part being that we were to regulate the supply of water. On this arrangement he was paid Rupees 95 as per margin, of which he was to return Rupees 80 as the price of the produce immediately after the harvest was reaped.

Construction of masonry cistern ...	... Rs.	20
Revenue on one acre of land	... ,,	35
Ploughing, sowing, seed, and harvesting...	... ,,	40
Total...	,,	95

3. The man cannot account for the mistake, but admits it to be his fault, and is willing to return the money advanced. I examined the both kinds of grain, and to my inexperienced eye could see no difference ; they are both very nearly of the same size and white, but one skilled in such matters appears to detect the difference at once. The operations of ploughing, sowing, etc., were supervised by one of the Range Accountants, who appears to have a knowledge of cultivation. The average supply of water per hour up to date has been about 4 cubic yards ; the soil is a rich loam and apparently very porous, as the whole of the water used to be completely absorbed within eight hours after

Particulars of water-supply to one acre of land, etc.—(Concluded.)

Month and date.	Water-supply.	Rain-fall.	Mean temperature.	Mean-evaporation.	Direction of wind.	Clear or cloudy.	Soil.	Remarks.
	c. y.							
28th Oct. 1870.	73	0·00	84	...	...	Clear ...	...	... ..
29th ,, ,, ...	60	0·00	82	...	...	Do. ...	...	.....
30th ,, ,, ...	75	0·00	81	...	...	Do. ...	...	.....
31st ,, ,, ...	71	0·00	81	...	...	Do. ...	...	.....
1st Nov. ,, ...	85	0·00	83	...	...	Do. ...	...	.....
2nd ,, ,, ...	114	0·00	86	...	...	Do. ...	...	.....
3rd ,, ,, ...	83	0·00	85	...	...	Do. ...	...	.....
4th ,, ,, ...	91	0·00	86	...	...	Do. ...	...	.....
5th ,, ,, ...	79	0·00	84	...	...	Do. ...	...	.....
6th ,, ,, ...	94	0·00	86	...	...	Do. ...	...	.....
7th ,, ,, ...	75	0·00	87	...	...	Do. ...	...	.....
8th ,, ,, ...	90	0·00	86	...	...	Do. ...	...	.....
9th ,, ,, ...	72	0·00	86	...	...	Do. ...	...	.....
10th ,, ,, ...	122	0·00	87	...	...	Do. ...	...	.....
11th ,, ,, ...	111	0·00	87	...	...	Do. ...	...	.....
12th ,, ,, ...	66	0·17	86	...	...	Do. ...	...	.....
13th ,, ,, ...	94	0·00	86	...	...	Do. ...	...	.....
14th ,, ,, ...	114	0·10	86	...	...	Cloudy ...	...	.....
15th ,, ,, ...	64	0·35	80	...	...	Do. ...	...	.....
16th ,, ,, ...	79	0·48	80	...	...	Cloudy and little showers during the day.	...	.....
	93	0·00	80	...	...	Clear ...	...	.....
17th ,, ,, ...	...	0·00	80	...	...	Do. ...	...	No water to-day.
18th ,, ,, ...	107	0·00	81	...	...	Do. ...	...	.....
19th ,, ,, ...	61	0·00	80	...	...	Do. ...	...	.....
20th ,, ,, ...	66	0·00	81	...	...	Do. ...	...	.....
21st ,, ,, ...	66	0·00	81	...	...	Do. ...	...	.....
22nd ,, ,, ...	...	0·00	81	...	...	Do. ...	...	No water to-day.
23rd ,, ,, ...	121	0·00	85	...	...	Do. ...	...	.....
24th ,, ,, ...	98	0·00	85	...	...	Do. ...	...	.....
25th ,, ,, ...	116	0·00	82	...	...	Do. ...	...	.....
26th ,, ,, ...	98	0·00	83	...	...	Do. ...	...	.....
27th ,, ,, ...	105	0·00	82	...	...	Do. ...	...	.....
28th ,, ,, ...	92	0·00	80	...	...	Do. ...	...	.....
29th ,, ,, ...	113	0·00	80	...	...	Do. ...	...	.....
30th ,, ,, ...	105	0·00	80	...	...	Do. ...	...	.....
1st Dec. ,, ...	117	0·00	81	...	...	Do. ...	...	.....
2nd ,, ,, ...	133	0·00	81	...	...	Do. ...	...	.....
3rd ,, ,, ...	58	0·00	81	...	...	Do. ...	...	.....
4th ,, ,, ...	118	0·00	82	...	...	Do. ...	...	.. ...
5th ,, ,, ...	87	0·00	81	...	...	Do. ...	...	Plants have thrown out ears of corn.
6th ,, ,, ...	73	0·00	81	...	...	Do. ...	...	... ..
7th ,, ,, ...	61	0·00	80	...	...	Do. ...	...	.....
8th ,, ,, ...	...	0·00	80	...	...	Do. ...	...	No water to-day.
9th ,, ,, ...	80	0·00	81	...	...	Do. ...	...	.....
10th ,, ,, ...	58	0·00	81	...	...	Do. ...	...	.....
11th ,, ,, ...	...	0·00	80	...	...	Do. ...	...	No water to-day.
12th ,, ,, ...	117	0·00	81	...	...	Do. ...	...	.....
13th ,, ,, ...	65	0·00	81	...	...	Do. ...	...	.....
14th ,, ,, ...	85	0·00	81	...	...	Do. ...	...	.....
15th ,, ,, ...	78	0·00	80	...	...	Do. ...	...	.....
16th ,, ,, ...	9,496	15·23	...	...	...	.....	...	

PODDATOOR RANGE,
16*th February* 1871.

(Signed) R. W. THORPE,
Talook Overseer.

Proceedings of the Madras Government, Public Works Department,
28th March 1871.

No. 656. ORDER THEREON, 28th March 1871, No. 915.

IRRIGATION, No. 52.

THE Government regret that, owing to a mistake made by the owner of the land in sowing two kinds of grain in the field selected for experiment, no conclusion as to the quantity of water required for the successful cultivation of rice on rich loamy soil near Nundialumpett in the Cuddapah District could be arrived at. The repetition of the experiment in 1871-72 is sanctioned, and a sum of Rupees 105 from the Reserve under Agricultural will be made available for the purpose, and should be included in the Superintending Engineer's statement of demands.

2. Of the expenditure for the past season, Rupees 20, the amount provided for the construction of a masonry cistern, should not be recovered from the ryot.

3. Care should be taken to ascertain exactly the area of the experimental field, which from the survey sketch would appear to be rather less than one acre. The seed grain should be weighed as well as measured, and similarly the grain of the crop should be weighed and measured, and the straw weighed. The Madras seer is the measure which should be used.

(True Extract.)

(Signed) J. G. RYVES, Captain, R.E.,
Acting Joint-Secretary to Government.

To the Superintending Engineer, 3rd Division.
,, Controller of Public Works Accounts.
,, Chief Engineer for Irrigation.
,, Revenue Department.

Exd. E. C. Shunker,

Govt. of Madras. 1871

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER,

3RD DIVISION.

&c., &c., &c.

Dated March, 28th

Read.

Encl^s.

G. O., 28th March 1871, No. 915.

MARCH.

Nos. 655-656

Experiment—The repetition of the experiment in 1871-72 for ascertaining the quantity of water required for rice cultivation in the Cuddapah District, sanctioned with remarks.

Enclosures, 4.

No. 2479. Superintending Engineer's Office.
3rd Division.
Bellary 3rd March 1871.

From,
The Superintending Engineer
3rd Division.

To,
The Chief Engineer
for Irrigation
Madras.

Sir,

With reference to G.O. No. 1644 A. dated 8 July 1870 sanctioning an estimate for Rupees 105/- from under Reserve "Agricultural" for ascertaining, by experiment, the quantity of water required for an acre of land under rice cultivation in the Poddatoor Range, Cuddapah District, I have the honor to forward for the information of Government the accompanying two reports

reports in original received from the Overseer in temporary charge of the Range, under whose observations and instructions the experiment was conducted.

2. It will be observed that the result being a failure, was purely accidental and not due to any neglect on the part of Mr. Thorpe, the Overseer, or of any other subordinate. Government lose no money on this account, and as Mr. Thorpe is willing and anxious to have another try, I trust that the sum of Rupees 105/— may be sanctioned for the same from funds in 1871-72.

3. Mr. Thorpe's reports being so elaborate, call for no remarks from me.

I have &c &c

W. A. Cadogan Lieut. R.E.
Supt. Engineer 3d Div.

Enclosures.

Letter No. 390 Dt. 6 December 1870
" " 449 " 14 February 1871, with
Survey of land experimented upon and
Statement of particulars of water supply
Rainfall, temperature &c &c

Rec'd 8th July 1870 P. 132 A 132 B

From,

The Superintending Engineer

3rd Division..

To,

The Chief Engineer for Irrigation Madras.

No. 2479.

Dated 30 March 1871.

Received

Recd: 3-4-71

Recd: 4 Plan Reports with reference to experiments made in the cultivation of rice, to ascertain the quantity of water required for an acre of land, in Paddalore Taluq, S. Arcot Dist.

No 655.

C 10 March 71 P. 135

of Rs 105 from the Reserve under Agricultural will be made available for the purpose, and should be included in the Supt Engineers statement of demands.

2. ... of the expenditure for the past season, Rs 20, the amount provided for the construction of a masonry cistern, should not be recovered from the ryot.

3. Care should be taken to ascertain exactly the area of the experimental field, which from the survey sketch would appear to be rather less than one acre. The seed grain should be weighed as well as measured, and similarly the grain of the crop should be weighed and measured and the straw weighed. The Madras seer is the measure which should be used.

Mys. 8/8/71

WPB

To The Supt Engr. 3rd Div. ✓
Controller ✓
Chief Engr. Jordans ✓
Rev Dept ✓
Bro 30/8/71.

C/F 705

Govt. of {187 } Madras.

PUBLIC WORKS.

To The Superintending Engr.
3rd Circle

Dated

Rec'd. Encl. 4

G. O. 28th June 81 No. 915.

Recd. 655-656

Experiment- The petition in 1877/72
The experiments for ascertaining the quantity of water required for rice cultivation in the Paddapalli Dt. &c, sanctioned with remarks.