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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3078	Press
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Dated	10-11	C876
		195

Not to be folded or roughly handled

Read the following:—

No. 180. Report of Mr. J. C. JOHNSTON, Assistant Engineer, for the week ended 19th August 1876.

THE Special Surveyor* from Kistna commenced work on Thursday and completed nearly 2 miles of the survey of the Pedda Cumbum channel in two days. On the third day the compass attached to his level would not work correctly. It was the only surveying instrument I had, and before giving it out for use I tested it and found it would not work correctly till after I had cleaned it. Thinking it then to be correct, I issued it. On Saturday the Surveyor reported it was useless, I at once sent to the Range Officer, Cumbum, and borrowed a prismatic compass till those I indented for should arrive. I expect to receive a compass from Kurnool shortly. The Surveyor informs me that his daily average of survey work in open country is about 5 miles, but that the channels here between the town and tank wind about so much and are so covered with trees that he could take none but very short bearings, and was only able to complete half a mile the first day. Below the town the country is very much more open. The present survey will show the channels in more detail than the former one, and is to serve two purposes:—

- 1st, to afford a correct survey plan on a small scale;
- 2nd, and yet to have sufficient details to enable it to be plotted on a large scale with the longitudinal section, so that all new alignments may be accurately noted and made to correspond with the cross sections. I have established bench marks down to the end of the Cuthwa channel, and have found that cultivation might be considerably extended in that direction.

Old channels now exist which about ten years ago were in use, but are now from some cause dry. A couple of thousand more acres might easily be brought under wet cultivation; and, if there is any doubt as to the sufficiency of water-supply in the tank, another 100 square miles of drainage might without very great cost be turned into it. The new survey will show more accurately what greater extent of land it is possible to irrigate.

Overseer Munesawmy Chetty reports he has one day's more work to do to complete the task I gave him. He would have finished it last Saturday, had not a sudden severe cold in the chest prevented him. Four days' work; he was ill one day, and one day it rained. His out-turn of work last week was $7\frac{1}{2}$ miles of levelling and chaining.

The contractor whom I have employed having disappointed me, I have commenced making my own lime kilns near my encampment, and will in future not be dependent upon any one for the supply of lime. I find that it is not at all customary to sell unslaked lime here, and, as I insist upon having nothing else, there has been a delay in carrying out some necessary repairs to the calingulah apron.

I have received a supply of tools from Madras, and have ordered large quantities of pegs (small and large), so that when the work of execution really commences I shall be ready. Pegs, &c., are small things in themselves, but the want of them would delay work for several days, especially when they have to be carted 30 miles.

The question of having a new head to the Cuthwa channel depends upon whether the Gundlakamma anicut is to be retained or not. As Government have ordered the

swamp to be drained, I presume a new head has been decided upon. I should like to have definite orders as soon as possible, so that I may be able to run the cross sections of the channels before they become choked with weeds again. I have already noticed in several places the weeds springing up again.

CANDLAPOOR,
22nd August 1876.

(Signed) J. C. JOHNSTON,
Assistant Engineer.

No. 180-A. Report of Mr. J. C. JOHNSTON, Assistant Engineer on Special Duty,
Cumbum, for the week ended 26th August 1876.

All last week, with the exception of Saturday, on which day I was ill, I was engaged in measuring* up the work of clearing the channels done by the Revenue Department. I completed the Nakkalagundy Pedda Cumbum, Marlapaud channels, and half of the Cuthwa channel, while the Overseer completed the Chinna Cumbum channel, in all nearly 18½ miles. In addition the Overseer ran 4½ miles of levels across country, completing the ground surface levels of the present irrigated land north of the Gundlakamma. These levels will be continued hereafter, when the survey of the cultivable land at the end of the Cuthwa channel is ready. The Surveyor, P. Ramabrahmen, finished 6½ miles of survey, and has now completed the Nakkalagundy, Marlapaud, and Pedda Cumbum channels.

While measuring up the work done to the channels, I had good opportunities of examining those parts which run through the town, and I have come to the conclusion that the slabbing over, as proposed by Major Hasted, would be very expensive indeed. They pass through so many private yards and are bounded on each side by so many walls, that the amount of compensation alone will be great, not taking into account the masonry side walls and slab with concrete covering. Continuing the Pedda Cumbum channel into the calingulah escape vagoo, building an anicut across, and taking one channel straight down into the Cuthwa channel would be the simplest for estimating and execution, inasmuch as nearly the whole work could then be completed without interfering very much with cultivation. The fall is great, but it is not insurmountable.

In my opinion, the supply of good water to the town is the first thing to be secured, and a new head to the Cuthwa channel may at the same time be provided.

Another thing I noticed was that owners of fields on both sides of channels seemed to consider the banks and channels as belonging to themselves. They have built revetments for baling purposes, made cuts through the bunds, planted trees and hedges, and buried their dead as close to the water edges as they liked. An inspection of the channels on horseback is simply an impossibility now, and on foot one has to make continual detours.

To prevent this in future, there should, I think, be a berm of 15 feet or so on each side; the water will be delivered outside these berms, where the ryots may make as many cuts and plant as many trees as they like, but on no account should they be allowed to interfere with the channel land.

CANDLAPOOR,
29th August 1876.

(Signed) J. C. JOHNSTON,
Assistant Engineer.

No. 181.

ORDER THEREON, 10th November 1876, No. 3,018.

IRRIGATION, No. 10.

RECORDED, with reference to G.O.,
No. 2,846, of the 25th October 1876.

2. In connection with Mr Johnston's remarks on Major Hasted's proposals for covering in the Pedda Cumbum channel, from the head of the Madapad channel where it passes through the town of Cumbum, it is to be noticed that only one channel through the town was intended to be retained. Mr. Johnston's apparently alternative proposals are not understood.

3. The paragraphs of the reports of the Assistant Engineer on special duty should be numbered.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Special Officer, Cumbum.

„ District Engineer, Kurnool.
„ Superintending Engineer, Kistna.
„ Chief Engineer for Irrigation.
„ Public Department.

Exd. E. C. Shunker.

Spare Copies

NO/

5B
Report of Mr. J. C. Johnston
Assistant Engineer for the week
ended 19th August 1876.

⁺
Rasmalabram
by name.

The Special Surveyor from
Khetnal commenced work
on Thursday and completed nearly
2 miles of the survey of the Poda
Jumbum Channel in two days.
On the 3rd day the compass attached
to his level would not work correct.
It was the only surveying instru-
ment I had and before giving
it out for use, I tested it and
found it would not work cor-
rectly till after I had cleaned it.
Thinking it then to be correct, I issued
it. On Saturday the surveyor repor-
ted it was useless. I at once sent
to the Range Officer Jumbum and
borrowed a prismatic compass
till those I indentured for should
arrive. I expect to receive a

a compass from Kurnool shortly.
The surveyor informs me that his
daily average of survey work in
open country is about 5 miles; but
that the channels here between the
Lown and Tank wind about so
much and are so covered with trees,
that he could take none but very short
bearings and was only able to complete
 $\frac{1}{2}$ mile the first day. Below the Lown
the country is very much more open.
The present survey will show the
channels in more detail than the
former one and is to serve two purposes.
1st To afford a correct survey plan on
a small scale.

2^d and yet to have sufficient de-
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scale with the longitudinal section,
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found that cultivation might be
considerably extended in that direction.

Old channels now exist which
about 10 yrs ago were in use, but
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cultivation; and if there is any doubt
as to the sufficiency of water supply
in the Tank, another 100 sq miles of
drainage might without very great
cost, be turned into it. The new survey
will show more accurately what
greater extent of land it is possible
to irrigate.

Overseer Jamesway Chetty re-
ports he has one day's more work to
do to complete the task I gave him.
He would have finished it last
Saturday, had not a sudden severe
cold in the chest prevented him.
His outturn of work last week was
 $7\frac{1}{2}$ miles of levelling and chaining.

The Contractor whom I have
employed having disappointed me
I have commenced making my own
lime kilns near my encampment and
will in future not be dependent
upon any one for the supply of lime.

4 days work - he
was ill 1 day and
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I have received a supply of tools
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Pegs &c are small things in them-
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delay work for several days, especially
when they have to be carted 30 miles.

The question of having a new
head to the Cutkwa Channel —
depends upon whether the Gumbala
Camma Ament is to be retained
or not. As Government have ordered
the swamp to be drained, I pre-
sume a new head has been decided
upon. I should like to have defi-
nite orders as soon as possible
so that I may be able to run the
cross sections of the Channels before

they become choked with weeds
again. I have already noticed
in several places the weeds springing
up again.

22nd Aug 1873
Baidapoor
John C. Instructor
Assistant Engineer

22nd Aug 1873
Baidapoor

22nd Aug 1873
Baidapoor

6156

From
The Asst^g Engineer
on special duty
Cumbum.

Date - 22nd
Recd 26 } Aug 1876.

Report for week
ending 19th August 1876

1876

Aug 7-11-76
Despatched 21 8 21 25

Report of Mr. J. C. Johnston
Assistant Engineer on special
duty, Cumbum, for the week ended
26th August 1876.

Ordered by the
District Eng^r
Kurnool.

All last week, with the excep-
tion of Saturday on which day
I was ill. I was engaged in mea-
suring up the work of clearing the
channels, done by the Revenue De-
partment. I completed the Naki-
Kalagundy, Pedda Cumbum, Mar-
lapada channels, and half of
the futhwa channel, while the Over-
seer completed the Chinnu Cumbum
Channel in all nearly 18 1/2 miles.

In addition, the Overseer ran 4 1/8 miles
of levels across country, completing
the ground surface levels of the pre-
sent irrigated lands north of the
Guntacamma. These levels will be
continued hereafter when the survey
of the cultivable land at the end

of the Cutwa Channel is ready.

The Surveyor, P. Ramabrahmam, finished 6 1/2 miles of Survey and has now completed the Dakkala-gunde, Marlapada and Pedda Pumbum Channels.

While measuring up the work done to the channels, I had good opportunities of examining those parts which run through the town, and I have come to the conclusion that the slabbing over, as proposed by Major

Hasted, would be very expensive indeed. They pass through so many private yards and are bounded on each side by so many walls, that the amount of compensation alone will be great, not taking into account

the masonry side walls and slab with concrete covering. Continuing the Pedda Pumbum Channel into the Calingulah escape rago, building an aqueduct across, and taking one Channel straight down into the Cutwa Channel would be the

very expensive
ch. 9

at least 100
thousand rupees
and for drainage

It is already estimated
to be 100,000 rupees
for the whole
of the work

The proposed work
has been estimated
at 150,000 rupees

simplest for estimating and execution; inasmuch as nearly the whole work could then be completed without interfering very much with cultivation. The fall is great but it is not insurmountable.

In my opinion, the supply of good water to the Town is the first thing to be secured, and a new lead to the further Channel may at the same time be provided.

Another thing I noticed was that owners of fields on both sides of Channels seemed to consider the banks and Channels as belonging to themselves. They have built pucca walls for baking purposes, made cuts through the bunds, planted trees and boughs, buried their dead as close to the water edges as they liked. An inspection of the Channels on horseback is simply an impossibility now, and on foot one has to make continual detours.

To prevent this in future there should I think be a berm of 15 feet or so on each side; the water will

June 17/94

Checked by *angels*

Report on the
drainage works for week ending
21st August 1876.

N 180 a.

Cin 7-11-26
L. Shedd 9 Sept

2. In connection with Mr. Johnston's remarks on Major Hasted's proposals for covering in the Pedda Lumbum Channel, from the head of the Madapadi Channel, where it passes through the town of Lumbum, it is to be noticed that only one channel through the town was intended to be retained. Mr.

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alternative proposals
are not understood.

3. The paragraphs
of the reports of the
Assistant Engineer on
special duty should
be numbered.

W. J. Johnston

22 Oct. 1876

[Signature]

6344/6156 15th 1876

Govt. of Madras.

PUBLIC WORKS.

To

The Special Officer Cumbum

Dated

Issued

Recd

Encl.

G. O. No. 1876, No. 3018

Nos. 180/81

Cumbum Drainage Works.

Reports on the — for
the works ending 26th
Augt 1876, recorded with
remarks.

But in Reg.
15-11-76

N^o 180/81