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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2443	Press
B.P. No.		Mis.
78-79		
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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
4th October 1873.*

No. 78. Read the following endorsement of the Chief Engineer for Irrigation, dated Camp at Erode, 8th September 1873, No. 37 :—

From J. H. LATHAM, Esq., Chief Engineer and Manager of the Madras Irrigation and Canal Company, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, Public Works Department, dated Kurnool, 29th August 1873, No. 152.

I HAVE the honour to hand you reports on the Upper and Lower Sections of the Canal for the month of July 1873.

REPORT ON UPPER DIVISION FOR THE MONTH OF JULY 1873.

THE delay caused by the repair of four successive leaks, which occurred about bed level, within a length of about 50 yards in the south (or upper) bank close below the Kaderabagh Aqueduct, was the only delay which occurred to the passage of water down the canal. On the 25th the Toombuddra water reached the tail sluices in the 75th mile and passed into the Kali river.

2. The enlargement of calingulaks for this season is complete, including Nos. 1, 18, 19A, 20 in the first three sections; and Nos. 1 and 2 in the fourth section.

3. The following villages have been surveyed this month and completely reticulated, and copies supplied to the Overseers for the immediate construction of all except the smallest size of field channels, which are not to be constructed except to supply demand :—

Veraporam.	Patakota.
Muchmorri.	Pagadela.
Vellida.	Moravakonda, omitting some parts
Palparri.	difficult of access and partially.
Beravool.	Gunaporam.
Tatipad.	Bolawaram.

The demand hitherto is for 1,633½ acres only, the applications in July being for 84,132. As only three Amins have been at work on the average, one having been ill, and one having to be withdrawn for preliminary training, this gives about 11 acres a day for each Amin. Though this is small, my impression is that the Amins have not been idle; so much time has been required for explanations and ascertaining the boundaries and has been lost by the delay or vacillation of villagers.

4. Besides the above, some Curnums have received applications. Probably 4,000 acres will be cultivated with first crop this season, but this is uncertain. This estimate is a deduction from the small number of applications yet received from some villages which usually cultivate extensively, as—

Villages.	Cultivated, 1872-73.	Applied for, 1873-74.
	ACRES.	ACRES.
Gopalasingavaram	121.81	486
Niduzur	223.91	11.02
Mangalpad	89.10	20.70
Momedelapad	91.86	1.50
Kullur	435.41	259.64
Total ...	962.09	297.64

in which villages, apparently, applications have yet been made only for new fields, or fields requiring measurement or channels, and the increase in some others, as—

Gonapavaram	...	97-11	245-77
Jutur	...	33-75	92-84

5. In the 5th and 6th Sections there has hardly been time for applications since the arrival of the water at the end of the month, and applications are arriving daily.

6. The rainfall has been unusually scanty, only 1-75 inches in the month at Kurnool and 3-72 at Jupaud. The canal is now in good order.

7. The conduct of the staff has been good with scarcely an exception; but the general health has not been good, and the field-work in the showery weather and damp ground has caused a good deal of fever amongst the staff.

A table of rainfall accompanies the report.

KURNOOL,
4th August 1873.

(Signed) J. H. LATHAM,
For Conservancy Engineer.

P.S.—I enclose the report of T. Cunniappa Moodelliar, Surveyor in charge of the 4th and 5th Ranges, just received. It gives a good idea of the work going on and the way it is being done.

REPORT ON LOWER SECTION FOR THE MONTH OF JULY 1873.

Main Canal.

THE works of repair needed after last season are now all completed, except some earthwork in the 9th Section banks and the Pennair flood bank which is very nearly done.

2. The Byup Goodoor Bridge has been widened, and Calingulah No. 6A, which has been delayed by the continued illness of the contractor, will soon be finished. On the 6th of the month a small breach took place on the 10th Section near the Pukka Wunka Aqueduct owing to the canal water having found its way under the bank through a stratum of sand; it was, however, quickly repaired and water let down the section again on the 9th.

Distribution Channels.

3. The bankers have been chiefly employed throughout the month in clearing out silt from the main channels and repairing the masonry dams and overflows; they are now all in good working order. Many new and subsidiary and field channels have been made to meet demands for irrigation from villages not previously supplied, and a new sluice has been built in the Main Canal to supply the villages of Bakapooram and Cotaloor, under which I expect over 200 acres of paddy this season.

4. The Toombuddra water did not enter the 7th Section at Jutoor until the 27th July, and by the end of the month it had only reached the 13-4th mile, having still eleven miles to fill before entering the 9th Section.

5. The Caulee throughout the month was never sufficiently high at Jutoor head sluices to send more than 9 inches of water down the canal, which did not penetrate beyond the 98th mile.

6. The Koond river was in flood on the 3rd of the month, and nearly 2 feet of water was passed down from Rajoly to Lock No. 1 in the 172nd mile, but the fresh soon subsided and by the 21st the whole canal from Jutoor to the Pennair was dry again. A second fresh on the 26th allowed 1½ feet of water to pass down as far as

the 168th mile, but by the 29th all was dry again, and it was not until the 2nd of August that it was once more full.

7. The Pennair was also very uncertain in its supply, so that for part of the month no water was supplied beyond the Chennoor Channel, but by the end of the month it was again as far as the Cantonment, and will now, I hope, keep up a constant supply.

Irrigation.

8. I have given the above full account of manner in which the supply of water alternated in the canal, as the lateness of its arrival and the uncertainty of its continuance has had a considerable effect on the demands for irrigation. The ryots do not like to apply for water or to commence preparing their fields for paddy until they see the water in the canal and running down their channels, and the supply having during this month twice failed has greatly shaken their faith in its permanence.

9. Last year the water from the Caulee and Koond filled the canal from Jutoor to the end of the 9th Section by the 18th of June, and remained permanently until the end of the season. The Pennair also was in flood continuously, and the supply to the 10th Section was abundant.

10. Now that we have the Toombuddra water in the 9th Section, I do not fear any more deficiency of supply to these sections, and though my anticipations of a large increase of irrigation as stated in my last report are somewhat less sanguine, yet I still hope to show a very considerable increase on last season's returns.

11. The actual amount of applications received up to the end of July are for full water (paddy) 515 acres and for floodings 225 acres, but since the commencement of this month the full supply of water in the canal is causing applications to come in much more rapidly.

12. No rain fell between the 3rd and 31st of the month (except a light shower on the 28th), a most unusual draught for this month accounting for the slack supply from the Caulee and Koond rivers. The early crops have suffered much for want of rain and fears of a famine were increasing, but the fall of nearly 1½ inches between the 2nd and 4th of this month (August) must have removed those fears. The total rainfall in July was only 1-24 inches in 1872; it was 4-55 inches for July.

DHOOR,
6th August 1873.

(Signed) A. J. DODSON,
Conservancy Engineer.

Abstract showing the amount of full Crop and Flooding.

Names of Taluq.	FULL CROP.			FLOODING.			TOTAL.		
	Extent.	Demand.		Extent.	Demand.		Extent.	Demand.	
	A. C.	RS. A. P.		A. C.	RS. A. P.		A. C.	RS. A. P.	
Nundial	219 30	650 5 4		5 39	5 6 3		224 69	655 11 7	
Koilkootla	199 54	1,10 2 8		24 66	34 12 5		224 20	1,44 15 1	
Sirwell	770 88	3,389 0 8		181 20	254 7 7		952 8	3,643 8 3	
Prodatore	570 40	3,482 1 2		483 70	989 15 4		1,054 10	4,479 0 6	
Cuddapah	1,585 18	9,851 10 6		884 8	2,920 11 3		2,469 26	12,772 5 9	
Grand Total.	3,345 30	18,490 3 4		1,579 2	4,205 4 10		4,924 33	22,695 9 2	

DHOOR,
28th July 1873.

(Signed) A. J. DODSON,
Conservancy Engineer.

Proceedings of the Madras Government, Public Works Department,
4th October 1873.

SUBMITTED to Government. It will be seen that up to the end of July the applications for water-supply were for a very small area, viz. :-

In Upper Division or Sections, including the first 92 miles of		Acres.
the Main Canal	...	1,633½
Lower Sections	...	515
		2,148½

in addition to which, in the lower sections, water for flooding 225 acres had been applied for.

2. The freshes in most of the principal rivers of this Presidency were late and slight, and the Toombuddra had but little water in it until two or three weeks after the usual time. When the report for August therefore is received, more will be known of the prospects of irrigation under the Company's Canal for the current season.

3. A statement appended to the Chief Engineer's report gives the irrigation in 1872-73 in the lower sections for each village and a summary for each taluq, and from this it appears that in the past year regular irrigation was supplied to 3,345 acres and flooding to 1,579 acres.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 79. ORDER THEREON, 4th October 1873, No. 2,443.

IRRIGATION, No. 5.

THE Government will await the report for August, which they hope will contain a more encouraging account of the prospects of irrigation under the Company's Canal for the current season.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Chief Engineer and Manager of the Madras Irrigation and Canal Company.
" Chief Engineer for Irrigation.
" Revenue Department.
" Board of Revenue.

Ed. E. C. Shunker.
Spare Copies.

Kurnool 1st August 1873

Report on Upper Division for the Month of July 1873.

The delay caused by the repair of 11 successive leaks, which occurred about 13rd July, within a length of about 50 yards in the South (or upper) bank close below the Hadirabagh Aqueduct, was the only delay which occurred to the passage of water down the Canal. On the 25th the Toombuddra water reached the tail sluices in the 75th mile and passed into the Kistna river.

The enlargement of Colingulaks for this season is complete, including Nos 1, 18, 19 A, 20 in the first 3 sections, and Nos 1 and 2 in the 1st section.

The following villages have been surveyed this month and completely re-surveyed, and copies supplied to the Officers for the immediate construction of all except the smallest size of field channels, which are not to be constructed except to supply demands.

Venapuram	Pattakota
Machinorri	Pagudela
Villala	Moravankonda, omitting
Palmarri	some parts difficult
Beravool	of access, and partly
Chetupad	ally.
	Gunapuram
	Bolawaram

The demand hitherto is for, 1,633½ acres only; the applications in July being for 811.32. As only 3 Annas have been at work on the average one having been ill and one having to be withdrawn for preliminary training, this gives about 11 acres a day for each Annas.

Though this is small, my impression is that the Amins have not been idle, so much time has been required for explanations and ascertaining the boundaries, and has been lost by the delay or vacillation of villagers.

Besides the above, some Curmums have received applications. Probably 1,000 acres will be cultivated with first crop, this season, but this is uncertain. This estimate is a deduction from the small number of applications yet received from some villages which usually cultivate extensively, as:-

Village	Cultivated 1872-3	Applied for 1873-4
Gopalasingavarum	121.81 acres	4.84
Nidavur	223.91	11.02
Kangalpad	89.10	20.70
Munadilapad	91.86	1.30
Kullur	435.11	259.64
Total	962.09	297.64

in which villages, apparently, applications have not been made only for new fields, or fields requiring measurement or channels;—and the increase in some others, as:-

Gonapavarum	97.11	245.77
Jutur	33.15	92.84

In the 5th and 6th Sections there has hardly been time for applications since the arrival of the water at the end of the month, and applications are arriving daily.

The rain fall has been unusually scanty, only 1.75 inches in the month at Kurnool and 3.72 at Japand. The Canal is now in good order.

The Conduct of the Staff has been good, with scarcely an exception; but the general health has not been good, and the field work in the showery weather and damp ground has caused a good deal of fever amongst the Staff.

A table of rain fall accompanies the report.

Signed/ John St. Lathams
for Conservancy

P.S. I enclose the report of T. Gummappa Mudaliar Surveyor in Charge of the 4th and 6th Ranges just received. It gives a good idea of the work going on and the way it is being done.

Madras Irrigation and Canals Coy.
Sew. Section, Conservancy Engineer Office
Dhor 5 August 1873.

Report for the month of July 1873.

Main Canal

The works of repair needed after last season, are now all completed except some earthwork on the 9th Section banks, and the Punnair stop back which is very nearly done.

The Pypur Goodoor Bridge has been widened, and Calucigal N. 6A. which has been delayed by the continued illness of the Contractor will soon be finished. On the 5th of the month a small breach took place on the 10th Section near the Punnair Wunka Aqueduct owing to the Canal water having found its way under the back through a stratum of sand. It was however quickly repaired, and water let down the Section again on the 9th.

Distribution Channels

The baulkers have been chiefly employed throughout the month in clearing out silt from the main channels, and repairing the masonry dams & overflows. They are all in good working order. Many new and subsidiary and field channels have been made to meet demands for irrigation from villages not previously supplied, and a new sluice has been built in the Main Canal to supply the villages of Pakapooram and Colaoot, under which I expect over 200 acres of paddy this season.

The Tambudra water did not enter the 7th Section at Sutor until the 27th July and by the end of

Flood
Sinter (SHE)

1. 10/10/1873. 24/10
S. H. 4/9/73

in good order.

of the river is not any longer the 10th mile - having
shifted about 10 miles to the left during the 9th section.

The water throughout the month was
sufficiently high at Sutor. Near Sutor to avoid
more than a quarter of water in the Canal, which
was not frustrated beyond the 9th mile.

The Khoristan water floods on the 1st of
the month and nearly a foot of water was passed down
from Khoristan. But on the 1st of the month the fresh
water was cut off by the 1st of the month. Since from
Sutor to the Persian river again. It would fresh
on the 1st of the month. The full of water to pass down
as far as the 10th mile. But by the 1st of the month
again, and it was not until the 1st of August that
it was once more full.

The Persian river was also very abundant in the
supply of water for part of the month. The water
was sufficient beyond the Persian Channel. But
by the end of the month it was again so far as the
Canal and all was then kept up a
constant supply.

Irrigation

I have given the above full account of matters
in which the supply of water allocated in the Canal
as the Persian river arrived and the uncertainty
of its continuance has had a considerable effect
on the demands for irrigation. The reports are not likely
to apply for water, or to commence preparing their
fields for paddy, until they see the water in the Canal
and running down their channels - and the supply
having during this month twice failed has
greatly shaken their faith in its permanence.

End

Last year the water from the Caelee and Khoron
filled the Canal from Sutor to the end of the 9th section
by the 18th of June - and remained permanently until
the end of the season. The Persian also was in flood
continuously, and the supply to the 10th section was
abundant.

Now that we have the Dorn-hooda water in
the 9th section I do not fear any more deficiency of supply
to these sections, and though my anticipations of a
large increase of irrigation as stated in my last
Report are somewhat less sanguine, yet I still hope
to shed a very considerable increase in last seasons returns.

The actual amount of applications received up
to the end of July - are for full water (paddy) 515
acres and for Khoricego 225 acres but since the commence-
ment of this month the full supply of water in the
Canal is causing applications to come in much
more rapidly.

No rain fell between the 3rd and 31st of the month
except a light shower on the 28th a most unusual
draught for this month accounting for the lack
supply from the Caelee and Khoron rivers. The early crops
have suffered much for want of rain and fears of a
famine were increasing but the fall of nearly 1 1/2
inches between the 2nd and 4th of this month (August)
must have removed those fears. The total rain
fall in July was only 1.24 inches in 1872 - it was
4.55 inches for July.

/s/ A. S. Gordon
Conservancy Engineer

1875/25 1012442
P. M. 11.9.80/198

1875/25 1012442

1875/25 1012442

134
No. 152
Maras Irrigation & Canal Co.
Chief Engineer and Manager's Office
Kinnock 29th August 1873.

From
The Chief Engineer and Manager
M. I. and C. Co.

To
The Chief Engineer for Irrigation
and Joint Secretary to Govt.
Maras.

Sir,
I have the honor to hand you Reports
on the Upper and Lower Sections of the Canal for
the month of July 1873.

I have the honor to be
Sir,
Yours Most Obedt. Servant

Wm. H. Latham
Chief Engineer and Manager.

N^o 152
 From C. S. N^o 286
 Via Chief Engineer
 M. S. C. C.
 To The Chief of
 Irrigation
 4th October 1873 No. 2448
 P. W. 11980/73

Dated 29 Aug: 1873
 Recd. 1 Sep
 11980
 Hand Reports on
 the Upper and Lower
 Sections of the Canal
 for the month of Aug 1873
 Col. M.

M. S. and Co
 Monthly Report of T. Gummappa Mudalare
 In charge of 4th Range and 5th Range Conservancy for the
 Month of July 1873

4th Range

- (1) Marked out. Ridge and the reticulation in the Survey plans of Gummappa, Jutur, Potalpaud Chabole, Tonnaloor and Kudrawarann have been marked out.
- (2) Gummappa Reticulation, Channels (10 links) half completed by the bankers, two of the ridge channels half completed by contractor and few by bankers and the rest will be completed in a fortnight by contractor. Potalpaud one channel (10 links) for Potalpaud Chabole, Tonnaloor and Jutur been let in on contract $\frac{3}{4}$ completed, the whole will be finished in a fortnight.
- (3) Jutur Reticulation 5 links channel have been commenced by bankers half completed, the rest will be finished soon. One Ridge channel for Jutur already been proposed and is sent for sanction, the channels for Potalpaud Chabole and Kudrawarann to be let on contract for I can spare, no bankers at present if the channels for Gummappa completed I will employ all the bankers I could spare the rest by alimans should be let on contract.

5th Range

- (4) Kurumidala 5, 10 and 15 link channels from Channel 'a' formerly called, now calling Bolhedgoodar channel quite completed.
- (5) Parambore Reticulation Channels nearly completed. the whole will

will be finished in a week more, this contractor is making rapid progress.

Pestary. The necessary channels for the field applied have been made, the rest will be made by the bantars as applied.

Bundiatmahoor. The reticulation marked out have been completed by bantars, 3 days work will complete bantars have been removed for repair of main and minor channels after the completion of which they will be ordered back.

Amin Ramaswamy has been superintending Bundiatmahoor channels. Akbar Saib main and minor channels.

Channels for Tellapamoor, Boorchorella, Mandala, Kanchathalappully, Belthalgodeer, Korapetoor and others will be excavated as applications received by bantars.

(8) Fields

Applications have been received in the 5th Range total acres 621, 56 and in the 6th Range total acres 42, 64.

Probably irrigation for the season then for 4th and 5th Range.

Survey hunters Divided, cannot be given now, Amin's and Overseers have been ordered to send in a detail statement a Supplemental Report will follow.

(9) Bavanapally Bungalow the thatch had been unroofed, the beams, doors, windows and door frames will be carted to Jupand, the rafters being too long, high and heavy, will be removed when bantars can be spared.

Jupand Bungalow insecure no doors at present

Jupand Bungalow. No stores can be placed in it but will soon put everything right after the doors &c carted from Bavanapally, but however one bantar is allowed to watch stores &c.

Tellapamoor Bungalow, leaks, a portion of the roof of the

verandah blown off. Orders have ^{been} issued to the Overseer for its repairs, as sanctioned by the Chief Engineer which will be completed in 2 days more.

Lockiansulla Bungalow is all right. Sluices at Kurni-balapully are under construction. Three more huts on main canal at miles 61, 65 and 69 are needed, bantars have been ordered to do the same.

(8) Main Canal Banks

From 55th mile to 93 mile 23 chains Banks are all safe. But the upper bank from mile 61 to 70, required good deal of attention, which will be attended to as soon as bantars can be spared.

The slip in 65th mile had been thoroughly repaired. The lower bank at 76th miles 55th chains which had been cut to expose leak by late Overseer Coopostawamy and filled back began to crack in the middle and sunk 15". Overseer Kurnimala Swido who had at the time been present on this spot with his bantars rammed the earth down filled the same at once and made the bank safe.

(9) Locks 3 balance beams at Lock No 1 and 3 at Lock No 5 broken. Overseer reports that anchor stoppers 10 from 2A and one from Lock No 3 had been stolen by some body. 10 stoppers from Lock No 2 also stolen by some body on the night of the 24th July 1873. The deficiencies at Locks, the balance beams required and a detail report of the stoppers stolen will be forwarded shortly. Others all right.

(10) Bridges

Terrigapully requires installing 3 Bridges in the 5th Range installed, two more will be completed in a week more the rest are in good order. One bridge on the ridge channels 3 in the minor in the 5th Range completed. Stones and slabs for dry bridges

bridges have been partly carted, the rest will in a week more construction of the same will be undertaken, when bankers can be spared.

(11) Labor Bankers are working efficiently at present 5 link channels each banker is doing at $2\frac{1}{2}$ Chains a day or $2\frac{1}{2}$ Cubic yards a day.

(12) Office & no difficulties anticipated. Official duties are efficiently performed by the writer.

Total letters written 167 have been copied and posted.

(13) Health of the Staff Officers.

Govt. Overseer Kurumooloo Naider lately suffered by Guna worm but all the work in his range as well as office work had been performed satisfactorily. I strongly recommend him for his former pay Rupees 10 x 10.

Amun Chella Pillay Rajaleo works hard and takes good deal of trouble for the increase of irrigation I recommend him for a small increase. Amun Ramasawmy has been lately instructed about the survey of fields & about whose efficiency separate report will follow. I have nothing to say about Dreger he is all right in his duty.

(14) Not sufficient rain. Price of grain in consequence are raising.
Everything all good

(15) Stores are in supraud bungalow all right

Vellapannoor Stores are in two different places. Store Watchers are unable to look after at dark nights. It is advisable to remove all the stores to the bungalow and a fence made for safe custody in front of Bungalow.

(16) Progress of water. Water has reached 74 miles 26 July at 9.45 A.M. The leakage water from Lock No 2 reached 82 miles 48 chains by 6 P.M. Torcherella Main Channel 3 miles 14 chains.

Mustere.

213
Muster of Coolies, Rain Register and Bankers abstracts are herewith forwarded

1st August 1873
Bunnnoor

Sd/- J. Gummappa Moodaliar
In Charge

Abstract of Bankers works of 1st Range and
5th Ranges up to July 1873

- 2. Sluice keepers Kumbalapurly
- 1. Tappal from Mandalam up to Jutoor
- 3. Watching Jupaud, Bwanassy Stores and Lock-
insulla bungalows and watering trees.
- 4. Main Canal Watching and filling bracks
- 14 Locks in charge.
- 31 Rectification channels
- 8. Repairing Main and Minor Channels
- 1. With Amun for measuring fields &c
- 1. With Overseer for carrying records
- Total Bankers 68.

L. 1873-74 1873
4th October 1873 M. S. S. S.

Ch. S. S.

Sd/ T. Gummappa Modaliar
In. Charge.

C.S. 2/286/73

Annual Statement
 Northampton County
 General Statement
 Roadhouse Statement
 Roadhouse Statement

Grand Total

221	69	1267	11	11	612	4	655	11	7	-	-	655	11	7		
224	20	1232	0	2	88	6	2	1143	10	1	5	1	1144	15	1	
952	8	4720	13	10	1144	15	6	3575	14	4	47	9	11	3643	8	3
1054	10	1220	9	10	586	9	9	3634	0	1	854	0	5	4479	0	6
2469	26	11921	13	4	924	14	4	11996	15	0	1775	6	9	12772	5	9
4924	33	23363	1	1	3356	14	1	2006	3	0	2469	6	2	22645	9	2

4924 53 23363 1 1 3556 14 1 2006 3 2689 4 2 22695 9 2

Abstract Showing the amount of full book and Flooding

Amount of full book	Flooding	Total
Annual Statement Northampton County Roadhouse Statement	Annual Statement Northampton County Roadhouse Statement	Annual Statement Northampton County Roadhouse Statement
219	30 650 5 4 5 39 5 6 3 224 69 655 11 7	
199	54 110 2 8 24 66 34 12 5 224 20 114 15 1	

Annual Statement
 Northampton County
 Roadhouse Statement

Grand Total

170	58 3397	"	8	181	20	256	7	7	952	8	3663	8	3
570	10 2059	1	2	153	70	989	15	4	1056	16	4479	"	6
1505	15 1051	10	6	984	8	2920	11	5	2069	26	11772	5	9
3345	30 1192	4	4	1579	3	4205	4	10	4924	53	22695	9	2

Surveying Engineer's Office
 Lower Section
 March 28th July 1873
 C-12-1873

Henry A. S. Weston
 Surveying Engineer

73 74 75 76 77 78 79 80 81
 Metakone
 Ahimawawapachly
 Ahimawawawano
 Ahimawapachly
 Ahimawapachly
 Ahimawapachly
 Ahimawapachly
 Ahimawapachly
 Ahimawapachly
 Ahimawapachly

Total

Grand Total

168	80	819	5	5	52	2	3	767	3	2	767	3	2
60	6	230	8	7	"	"	"	230	8	7	230	8	7
173	15	824	6	8	11	10	8	812	12	5	4	2	10
208	25	709	15	3	6	"	2	703	15	1	"	"	703
65	81	388	13	10	"	"	"	388	13	10	327	2	11
75	14	431	15	2	75	10	3	356	14	11	"	"	356
37	36	224	2	3	"	"	"	224	2	3	"	"	224
265	87	1434	3	"	170	7	4	1262	11	8	430	2	5
194	73	3785	9	10	540	10	"	5244	15	10	895	10	6

2489	26	11921	13	4	924	14	4	10996	15	"	1775	6	9
4924	38	23863	1	1	3356	14	1	2446	3	"	2489	6	2
												2	20495

J. S. Jackson
 Consulting Engineer

1894 July 1893
 J. S. Jackson

38	<i>Alvintacantha</i>
39	<i>Luciniferanandinus</i>
40	<i>Peranipallus</i>
41	<i>Condamandinus</i>
42	<i>Cornicellus</i>
43	<i>Chaminipallus</i>
44	<i>Petelinella</i>
45	<i>Palloer</i>
46	<i>Alvintacantha</i>

24	15	128	4	8	"	"	"	128	4	8	8	5	1	131	9	9
8	51	31	"	11	22	5	4	28	11	2	"	"	"	28	11	2
11	18	67	1	3	"	"	"	67	1	3	"	"	"	67	1	3
4.3	60	136	13	11	"	"	"	136	13	11	6	5	9	143	3	5
25	92	79	4	5	"	"	"	79	4	5	"	"	"	79	4	5
18	3	53	12	5	"	"	"	53	12	5	"	"	"	53	12	5
26	58	124	11	11	14	6	4	115	5	7	14	5	"	130	4	7
112	56	591	14	"	168	12	1	123	1	11	"	"	"	423	1	11
31	63	142	5	4	35	9	4	106	12	"	"	"	"	106	12	"

47	<i>Chamaecrista</i>
46	<i>bellota</i>
45	<i>Algod</i>
44	<i>tabaco</i>
43	<i>Comocladum</i>
42	<i>Comocladum</i>
41	<i>Comocladum</i>
40	<i>Pala ogyria</i>
39	<i>Alnus ogyria</i>
38	<i>Alnus ogyria</i>
37	<i>Alnus ogyria</i>
36	<i>Alnus ogyria</i>

Puckatose Dating																
65	83	276	8	3	23	5	2	253	3	1	205	7	10	458	10	11
95	13	392	-	3	25	11	-	366	5	3	44	3	10	410	9	1
322	15	1325	8	3	312	-	5	1116	7	10	167	11	-	1184	2	10
1	36	6	1	3	1	8	6	2	8	9	2	8	9	5	1	6
5	61	33	10	7	-	-	-	38	10	7	-	-	-	33	10	7
57	1	131	15	1	-	-	-	131	15	1	56	13	6	158	12	5
31	13	149	12	7	-	-	-	149	12	7	134	2	9	283	15	4
26	59	50	11	5	16	-	4	34	15	7	1	4	10	36	4	

55	<i>Pharmacia</i>
56	<i>Chloris</i>
57	<i>Chloris</i>
58	<i>Chloris</i>
59	<i>Chloris</i>
60	<i>Chloris</i>
61	<i>Chloris</i>
62	<i>Chloris</i>
63	<i>Chloris</i>
64	<i>Chloris</i>
65	<i>Chloris</i>
66	<i>Chloris</i>

36	16	177	9	7	13	3	2	184	6	5	13	3	2	177	9	1
13	51	207	11	2	19	4	1	185	7	1	56	3	4	264	10	5
203	65	779	3	9	104	15	2	674	4	7	21	10	10	695	15	5
10	10	449	12	3	-	-	-	49	12	3	-	-	-	49	12	3
2	15	6	7	2	-	-	-	6	7	2	-	-	-	6	7	2
26	95	124	1	7	19	5	7	104	12	-	51	6	4	136	2	4
36	76	181	8	3	13	1	4	165	6	11	22	-	4	190	7	3
17	5	95	7	9	-	-	-	95	7	9	32	-	-	127	7	9
7	64	65	13	5	35	3	-	7	10	5	-	-	-	7	10	5
30	46	172	6	1	-	-	-	172	6	1	36	4	1	208	10	2
4	5	13	-	5	-	-	-	13	-	5	-	-	-	13	-	5

[illegible]

Nicotiana glauca													
96	2	530	1	1	41	0	1	189	1	-	-	189	1
56	21	184	8	1	-	-	-	184	8	1	-	184	8
4	74	27	3	10	-	-	-	27	3	10	0	27	3
42	12	159	7	6	-	-	-	159	7	6	74	11	9
39	39	161	14	3	17	11	5	161	2	10	3	8	4
1	61	9	10	7	9	10	7	-	-	-	-	147	11

Handwritten notes and signatures at the top of the page.

- 12 *Chakragamala*
- 13 *Samprasad*
- 14 *Shyamaprasanna*
- 15 *Samantaprabh*
- 16 *Shundaprasanna*
- 17 *Shataprabh*
- 18 *Samantaprabh*
- 19 *Shataprabh*
- 20 *Samantaprabh*

- 21 *Shataprabh*
- 22 *Shataprabh*
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- 30 *Shataprabh*
- 31 *Shataprabh*
- 32 *Shataprabh*
- 33 *Shataprabh*
- 34 *Shataprabh*
- 35 *Shataprabh*
- 36 *Shataprabh*
- 37 *Shataprabh*

Shataprabh

224	20	1232	2	88	6	2	1143	10	1	5	1	1144	15	1	
48	92	293	8	4	"	"	293	8	4	1	5	1	294	13	5
65	63	357	7	4	36	15	8	320	7	8	"	"	320	7	8
19	89	119	5	5	29	14	1	89	7	4	"	"	89	7	4
7	28	43	10	9	2	5	"	41	5	9	"	"	41	5	9
40	92	244	5	5	12	10	4	231	11	1	"	"	231	11	1
3	31	19	13	9	"	"	"	19	13	9	"	"	19	13	9
1	7	6	6	9	"	"	"	6	6	9	"	"	6	6	9
"	52	2	4	6	"	"	"	2	4	6	"	"	2	4	6
36	66	145	1	11	6	9	1	135	8	10	"	"	135	8	10

Shataprabh

150	63	795	2	3	55	8	9	741	9	6	-	-	-	741	9	6
105	7	555	-	10	111	11	3	443	5	7	-	-	-	443	5	7
71	92	320	5	5	66	12	8	253	8	9	-	-	-	253	8	9
47	94	287	10	3	287	10	3	-	-	-	-	-	-	-	-	-
24	61	147	10	18	13	5	1	134	2	7	-	-	-	134	2	7
15	17	75	6	7	11	10	2	63	12	5	3	1	11	66	14	4
6	56	41	2	7	-	-	-	41	2	7	4	9	10	45	12	5
35	28	147	12	9	1	9	11	146	2	10	15	15	4	152	2	2
15	44	92	10	3	35	-	2	57	10	1	-	-	-	57	10	1
17	28	90	11	3	23	10	11	67	-	7	2	9	2	69	9	9
12	27	70	8	3	-	-	-	70	8	3	16	11	10	87	4	1
20	77	93	11	2	-	-	-	93	11	2	-	-	-	93	11	2
39	64	95	3	-	-	-	-	95	3	-	-	-	-	95	3	-
12	39	64	12	8	1	1	4	66	11	4	-	-	-	63	11	4
10	60	61	12	-	-	-	-	61	12	-	-	-	-	61	12	-
15	82	73	5	11	-	-	-	73	5	11	-	-	-	73	5	11
30	75	804	5	-	297	10	7	6	13	5	-	-	-	6	13	5

The Board to be
 sent to the
 of Migration for the year 1872. 73

Name of Village

	Name	Males						Females						Total
		Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	
1	Bandy	58	91	9	3	-	-	91	9	3	-	-	-	91 9 3
2	Chandpur	50	90	12	11	47	5	11	57	7	-	-	-	47 7
3	Chandpur	29	51	179	2	7	165	7	11	13	10	5	-	13 10 5
4	Chandpur	26	55	112	5	2	3	5	9	139	2	5	-	139 2 5
5	Chandpur	47	92	237	8	2	124	8	10	162	15	4	-	162 15 4
6	Chandpur	1	65	10	1	3	10	1	3	-	-	-	-	-
7	Chandpur	45	91	211	4	9	191	15	9	49	5	-	-	49 5
8	Chandpur	13	61	50	15	6	6	2	9	74	12	9	-	74 12 9
9	Chandpur	15	22	91	5	3	45	10	9	45	10	6	-	45 10 6
10	Chandpur	9	77	39	9	1	8	6	5	31	2	8	-	31 2 8
11	Chandpur	1	69	8	15	-	8	15	-	-	-	-	-	-
Total		224	69	757	11	11	612	4	655	11	7	-	-	655 11 7

Name of Village

	Name	Males						Females						Total
		Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	
12	Chandpur	15	92	295	5	4	-	-	293	8	4	1	5	294 13 5
13	Chandpur	65	65	207	7	4	36	15	8	320	7	8	-	320 7 8
14	Chandpur	19	59	119	5	5	29	16	1	89	7	4	-	89 7 4
15	Chandpur	7	25	43	10	9	2	5	-	61	5	9	-	61 5 9
16	Chandpur	10	92	244	5	5	12	10	4	231	11	1	-	231 11 1
17	Chandpur	3	31	19	13	9	-	-	-	19	13	9	-	19 13 9
18	Chandpur	1	7	6	6	9	-	-	-	6	6	9	-	6 6 9
Total		224	20	1232	2	25	6	2	1143	10	1	5	1	1144 10 1

Name of Village

	Name	Males						Females						Total
		Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	Under 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	
19	Chandpur	150	63	195	2	3	55	8	9	741	9	6	-	741 9 6
20	Chandpur	105	7	555	-	10	111	11	3	443	5	7	-	443 5 7
21	Chandpur	71	92	320	5	5	66	12	8	255	8	9	-	255 8 9
22	Chandpur	47	94	237	10	3	237	10	3	-	-	-	-	-
23	Chandpur	24	61	147	10	13	13	5	1	134	2	7	-	134 2 7
24	Chandpur	15	17	75	6	7	11	10	2	63	12	5	3	66 12 4
25	Chandpur	6	56	41	2	7	-	-	-	41	2	7	4	45 12 5
26	Chandpur	35	28	167	12	9	1	9	11	161	2	10	15	162 2 2
27	Chandpur	15	44	92	10	5	55	-	2	57	10	1	-	57 10 1
28	Chandpur	17	26	90	11	3	23	10	11	67	-	7	2	69 9 9
29	Chandpur	12	27	70	8	3	-	-	-	70	8	3	16	74 11 1
30	Chandpur	20	77	93	11	2	-	-	-	93	11	2	-	93 11 2
31	Chandpur	39	64	95	3	-	-	-	-	95	3	-	-	95 3
32	Chandpur	12	39	64	12	5	1	1	4	63	11	4	-	63 11 4
33	Chandpur	10	60	61	12	-	-	-	-	61	12	-	-	61 12
34	Chandpur	15	32	73	5	11	-	-	-	73	5	11	-	73 5 11
35	Chandpur	30	75	304	8	-	297	10	7	6	13	5	-	6 13 5

1878
 8. 11. 1878
 2443

4/28/73

N. 37.

Encls. 5

Letter N. 152 dated 29th August 1873
 from Chief Engineer & Manager Madras
 Irrigation Canal Company Enclosures

Submitted to Government.
 It will be seen that up to
 the end of July the applications
 for water supply were for a
 very small area viz:

In Upper Division or	
Sections including	
the first 92 miles of	
the main Canal	acres 1633 $\frac{1}{2}$
Lower sections	" 515
	2148 $\frac{1}{2}$

in addition to which, in the
 lower sections, water for flood-
 ing 225 acres had been ap-
 plied for.

2. The freshes in most of
 the principal rivers of this
 Presidency were late & slight,
 and the Poonah had
 but

but little water in it until
2 or 3 weeks after the usual
time. When the report for the
past therefore is received, we
will be know of the pro-
pects of irrigation under
the Campau's Canal for the
current season.

3. A statement appended
to the Chief Engineer's report
gives the irrigation in 1872-73
in the Lower Section for each
village, and a summary
for each taluk, and from
this it appears that in the
past year regular irrigation
was supplied to 3345 acres
and flooding to 1579 acres.

Campau 2 September 1873
Chief Eng for irrigation
The Secretary to Govt H. H. D.

MR
17/9

John

to J. H. C. v

132 4 13

L.C. dated 9/10/73

the descending

Date 8th
 Dec 10th 1893
 Dec 10th 1893

No 2443-4 Oct 1915

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PUBLIC WORKS.

The Chief Engineer and
Manager of the Panama
Navigation and Canal
Company

Abstract

0.24.2000

78879

R. I. H. Los Canal.

Papmy orders on the
bank in the N. I. C.
Canal for July 73