

- (1) Number of pages _____
(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	1877	Press
B.P. No.		Mis.
1326235		
Dated	13-7-1874	195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th July 1874.*

Read the following papers:—

No. 232. From F. G. STONEY, Esq., to Lieutenant-Colonel J. MULLINS, R.E.,
Chief Engineer for Irrigation, Madras, dated 203, St. Vincent Street,
Glasgow, 12th March 1874.

REFERRING to G. O., No. 1,467, dated 2nd June 1873, I have the honor to
advise you that the 30-inch cast iron pipes for my patent sluice have been shipped
on board the *S. S. Mazeppa*, which sailed from London on the 26th of February,
and is due in Madras about 5th April 1874.

2. Enclosed are three documents—

1. Messrs. Eddington's account with freight, etc.
2. Bill of Lading.
3. Copy of Insurance Policy.

3. The ordinary pipes are at £10 per ton, being the price at time of
ordering, but the special pipes at each end not being machine-moulded are at
16s. 4d. per cwt.

4. When I gave Messrs. Eddington the working plan of the pipes, showing
them under a pressure of 120 feet of bank, they suggested that the pipes should
be stronger than those for ordinary use, the weights of which they had previously
quoted to me.

5. Altogether the pipes have cost more than the estimate, but I judged it
best that they should be fully suitable to the situation in all respects, so that the
trial sets may give you a fair means of comparing their cost with that of suitable
masonry culverts.

6. I have the honor to submit that the Government should allow me 5 per
cent. on Messrs. Eddington's bill, as I have had a great deal of trouble with these
pipes in seeing after them by frequent visits to the foundry, so that the special
pipes should correspond to the valves, which are being made elsewhere.

7. I have the honour to inform you that my patent sluice is now nearly
complete, and you will see from a small tracing which I will send with my next
letter that it is now simplified to the last degree.

8. I shall be glad to be enabled to pay Messrs. Eddington's account as soon
as possible.

No. 233. From F. G. STONEY, Esq., to Lieutenant-Colonel J. MULLINS, R.E.,
Chief Engineer for Irrigation, Madras, dated 203, St. Vincent Street,
Glasgow, 14th April 1874.

I HAVE the honor to inform you that my deep-tank sluice with its clack
valve, etc., has been forwarded to Madras *via* Liverpool and Bombay per *S. S.*
Paraenese, which sailed from Liverpool about the 11th instant.

2. Enclosed are two documents, bill of lading and copy of insurance policy,
which I hope will be found correct.

3. As there was not at this time a steamer direct to Madras from Glasgow,
Liverpool, or London, to save time I have forwarded the valves *via* Bombay, and
shall be much obliged by your instructing the suitable parties to receive them
there and forward to Madras.

*Proceedings of the Madras Government, Public Works Department,
13th July 1874.*

4. Owing to sudden fluctuations in prices just now, I do not send any quotations for these valves, but think it better to give a tender for any required number of them at such time as I may be called on.

5. Because of the fall in iron during the last few weeks, the cost of my double door sluice would now be less than that quoted in my letter of 8th January last, so it is best to consider that estimate as merely a guide for the present, and allow me to submit tender regulated by the current prices at time of order.

6. The present shipment completes the trial sets of appliances already ordered, and I have to regret very much the great delay in having the orders fulfilled; the difficulty in getting large firms in full working swing to take in hands isolated trial pieces was more than I anticipated, but now having got through this tedious stage, and my work and patterns placed in the hands of a first-class firm, I am now able to state that a fair order could be executed within about the same time that the first sets took to drag through.

7. I have the honor to send by this mail per book-post a tracing showing arrangement of the pipes and valves; also two photographs which may be conveniently mounted in Madras.

8. I have no hesitation in saying that this form of sluice may be economically made up to 4 feet diameter, and be attached to pipes or to masonry culverts; and for large diameters, with heavy pressure, they may be made cheaper than any other form of valve.

9. The sluice valve now sent out is reduced at all points to its simplest form and arrangement of parts and material, brass being eliminated as much as possible so that the trials can take place without the expensive refinements of brass faces, etc., which may be added if required in future orders.

Hoping that all will be to your satisfaction and prove successful under trial, I have, etc.

No. 234.

No. 403-A.

Note by the Chief Engineer for Irrigation.

In the letters now submitted to Government, Mr. Stoney advises the shipment of the deep-tank equilibrium valve, and of the cast iron pipes intended to be used in trying it. These have all been received at Madras, and the order given to this gentleman has been completed.

2. With the letter of the 12th March, Mr. Stoney has transmitted Messrs. Eddington and Sons' bill for the cast iron pipes, and it will be observed that their cost differs considerably from that supposed when the order for them was given. The papers printed in Proceedings of Madras Government, No. 1,467 of the 2nd June 1873, show that, exclusive of freight and commission, the 120 feet of piping was expected to cost £123-10-0, the rate being £9-10-0 a ton. In the interval the price for ordinary piping rose to £10, and for the special piping to be attached to the valves a rate of 16s. 4d. a cwt. was fixed. Besides this the 12 feet pipes have been made to weigh rather more than 31½ cwt. each, instead of 26 cwt., and the cost has become £179-1-9, while freight, insurance, and other charges make the total of the bill £ 256-8-4.

*Proceedings of the Madras Government, Public Works Department,
13th July 1874.*

3. Mr. Stoney, in paragraph 6 of his letter of the 12th March, asks that 5, instead of 2, per cent. commission on the cost of pipes may be allowed him on the ground that he has had a great deal of trouble in looking after them. For the special pipes, on account of which this trouble was incurred, the higher commission may be allowed, but there seems to be no reason for an increased commission on the ordinary piping.

4. Mr. Stoney has not transmitted an account of the amount due to him, but as far as can be seen from the papers transmitted, this appears to be as follows:—

	£	s.	d.
Head-sluice valve	150	0	0
Deep-tank sluice patent valve	150	0	0
Bill for piping	256	8	4
Commission at 2 per cent. on £126-6-3	2	10	6
Do. at 5 „ „ on £52-15-6	2	12	9
Insurance on head-sluice valve	1	0	4
Do. on deep-tank sluice valve	2	1	11
	564	13	10

Two remittances of £100 each have already been made to Mr. Stoney, and, pending the receipt of an account, a further remittance of £350 may be made through, with reference to recent orders on the subject, the Secretary of State for India.

5. It is intended to make use of the head-sluice valve at the head of the main canal of the Western Delta, Kistna, where some addition to the water-way is needed, and where a very complete trial of the valve of the arrangement will be possible. A preliminary trial of the deep-tank valve will be made at the Red Hills Lake, where the conditions will necessarily be dissimilar to those under which the valve is ultimately intended to be used; but it could not prudently be placed in the first instance under a very great head of water, and at this tank the action of the valve itself can be readily ascertained with but a small expenditure on setting up, as it will be fixed in the wall at the north end of the tank. After a sufficient trial here the valve will be removed and returned to store until it can be utilized.

OOTACAMUND, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
11th June 1874. Chief Engineer for Irrigation.

No. 235.

ORDER THEREON, 13th July 1874, No. 1,877.

IRRIGATION, No. 21.
Account.

THE remittance of £350 to Mr. F. G. Stoney on account of the valves and piping supplied by him is approved, and the Secretary of State will be asked to make this payment.

2. Mr. Stoney will be requested to transmit an account showing the balance still due to him after the above payment shall have been made.

3. The Government in consideration of the trouble taken by Mr. Stoney in carrying out the order for the valves, and of the pains bestowed by him upon

Proceedings of the Madras Government, Public Works Department,
13th July 1874.

making all the details as complete as possible, sanction the payment to him of 5 per cent. commission on the entire cost of the piping for the deep-tank valve, and the amount shown in paragraph 4 of the Chief Engineer's Note will then be £568-9-8.

(True Extract.)

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the Chief Engineer for Irrigation.

Carbotten
M. Stanes

No

23 St Vincent Street
Glasgow
12th March 1874

Colonel John Mullins R.E.
Chief Engineer for Irrigation
Madras.

Put up with
Ex 182/38
Linn 2 sent
18/4/74

Referring to G.O. No 1467 dated 2nd June 1873
I have the honour to advise you that the
30 inch cast-iron pipes for the patent sluice, have
been shipped on board the S.S. "Mazappa",
which sailed from London on the 26th
of February, and is due in Madras about
5th April 1874.

Enclosed are three documents,

- 1 Messrs Eddington's account with freight &c.
- 2 Bill of Lading.
- 3 Copy of Insurance Policy.

The ordinary pipes are at £10 per ton, being
the price at time of ordering, but the
special pipes at each end, not being
machine moulded are at 16 1/2 per cent.

When I gave Messrs Eddington the
working plan of the pipes showing them
under a pressure of 120 feet of water,
they suggested that the pipes should be
stronger

stronger than those for ordinary use, the
weights of which they had previously
quoted to me

5. Altogether the pipes have cost more
than the estimate, but I judge it best
that they should be fully suitable to
situation in all respects, so that the
trial sets may give you a fair view
of comparing their cost with that of
suitable mining culverts -

6. I have the honour to submit that the
Government should allow me 5 per cent
on Messrs Eddington's bill, as I have had a
great deal of trouble with these pipes in
seeing after them by frequent visits to
the foundry, so that the special pipes
should correspond to the values which
are being made elsewhere.

7. I have the honour to inform you
that my patent device is now nearly
complete, and you will see from a small
tracing which I will send with my
next letter, that it is now simplified
to the last degree -

8. I shall be glad to be enabled
to pay Messrs Eddington's account
as soon as possible -

I have the honour to remain
Sir
Your most obedient servant

J. C. Stoney

Handwritten notes in Arabic script, including the word "بسم الله" (Bismillah) and other religious or administrative text.

Pharmie Iron Works.
Haver 28th, 1874
A. L. Honey Esq, Haver
Bo. of Thomas Edington & Sons.
Engineers, Iron Founders, Merchants.

	TONS	CUBIC	YDS	LOS
8. 30in Cast iron pipe				
Turned bored joints 12ft each	12	12	2 1/4	10 1/2 126 6 3
1 30in pipe 12ft long with faced flange at one end & turned spigot at the other	1	16	3 1/4	16 1/4 30 2 3
1 30in pipe 9ft long with faced flange at one end & bored socket at the other	1	7	3 1/4	16 1/4 22 13 3
All coated	15	17	1 1/4	£ 179 1 9

Paid Freight to London	15 1/3
" Lighterage in London	1 16
" Freight from London to Madras 15. 11 c. 60/- per ton + 10% premium	526 2
" Customs Duty Clearance & Agency in London	1 1
" Bills of Lading	26
" Insurance on £250 @ 1/8% + policy	2 10
Commission on disbursement £3. 12. 11 @ 5%	3 13 8
	<u>£ 256 8 4</u>

fls "Naxos" from India ^{Met} to Madras,

Advised that the
Sarned coat iron
suits for his father
since have been
adjusted in hand
the J. J. Wright
which suits from
London on Feb 26th
February 26th.

[illegible]

62

203 St Vincent Street
Glasgow 14th April 1874

To
Colonel John Mullins R.E.
Chief Engineer for Irrigation
Southern India

Sir

- I have the honour to inform
1. you that my deep tank sluice with its black balk &c has been forwarded to Madras via Liverpool and Bombay per S.S. "Paruense" which sailed from Liverpool about the 11th instant.
 2. Enclosed are two documents, Bill of Lading and Copy of Insurance Policy which I hope will be found correct.
 3. As there was not at this time a steamer direct to Madras from Glasgow, Liverpool or London, to save time I have forwarded the valves via Bombay and shall be much obliged by your instructing the suitable parties to receive them there and forward to Madras.
 4. Owing to sudden fluctuations in prices just now I do not send any quotations for these valves, but think it better to give a tender for any required number of them at such time as I may be called on.

203/1/103/1/4

Para 5. Because of the fall in Iron during the ^{last 3 1/2} few weeks the cost of my double boiler sheet would now be less than that quoted in letter of 8th January last so it is best to ^{consider} that estimate as merely a guide for the present and allow me to submit tender regulated by the current prices at ^{your} order.

6. The present shipment completes the trial sets of appliances already ordered and I have to regret very much the great delay in having the orders fulfilled. -; the difficulty in getting large firms in full working swing to take in hands isolated trial pieces was more than I anticipated but now having got through this tedious stage and my work and patterns placed in the hands of a first class firm I am now able to state that a fair order could be executed within about the same time that the first sets took to drag through.

I have the honour to send by this mail per book post a tracing sheet arrangement of the Pipes and Valves, and two photographs which may be convenient to consult in Madras.

8. I have no hesitation in saying that the form of slicer may be economically made up to four feet diameter, and be

the price for ordinary piping rose to £10, and for the special piping to be attached to the valves a rate of 16/4 a cwt was fixed. Besides this the 12 feet pipes have been made to weigh rather more than 31 7/8 cwt each, instead of 26 cwt, and the cost has become £179. 1. 9 while freight insurance and other charges make the total of the bill £256. 8. 4.

3. Mr Stoney in para 6 of his letter of the 12th March asks that 5, instead of 2, per cent commission on the cost of pipes may be allowed him on the ground that he has had a great deal of trouble in looking after them for the special pipes, on account of which this trouble was incurred, the higher commission may be allowed, but there seems to be no reason for an increased commission on the ordinary piping.

4. Mr Stoney has not transmitted an account of the amount due to him, but as far as can be seen from the papers transmitted this appears to be as follows.

Head sluice valve	£150.00
Deep tank sluice patent valve	150.00
Bill for piping	256.8.4
Commission at 2 per cent on £126.6.3	2.10.6
— do — 5 per cent on — 52.15.6	2.12.9
Insurance on Head sluice valve	1.0.4
— do — Deep tank sluice valve	2.1.11
	<u>£ 564.13.10.</u>

Two remittances of £100 each have already been made to Mr Stoney and, pending the receipt of an account, a further remittance of £350 may be made through, with reference to recent orders on the subject, the Secretary of State for India.

5. It is intended to make use of the head sluice valve at the head of the main canal.

Canal of the Western Delta, Kish-
na, where some addition to the
water way is needed, and where
a very complete trial of the
value of the arrangement will
be possible. A preliminary
trial of the deep tank
valve will be made at the
Red Hills Lake, where the
conditions will necessarily
be dissimilar to those un-
der which the valve is ul-
timately intended to be
used, but it could not pru-
dently be placed in the
first instance under a
very great head of water,
and at this tank the
action of the valve itself
can be readily ascertained
with but a small expen-
diture on setting ^{up} as it
will be fixed in the
wall at the North end
of.

of the tank. After a suf-
ficient trial here the valve
will be removed and re-
turned to store until
it can be utilized.

Personal copy
Potacumund
Chief Insp for Brigation

10/11/11
10/11/11

The Secretary to Govt
P. M. &

Received
of the
of the
of the
of the
of the

P. W. 1874 Dep't.
P. W. D. No: 4056

From

The Chief Engr.
for Irrigation

To

The Secy. to Govt
P. W. D.

Dated 11 June 1874 }
Recd. 3rd July 1874 }

E. 2.

N: 403A

G.O. No: 1877. 13-7-74.

Regarding
the acc. tant & some
values & pipes purchased
for trial in the
Madras Presidency.

Proceedings of the Madras Government,
Under date the 187

Read the following:—

Note by the Chief Engineer } (N.B. No. 8/41 June
for Irrigation } 1874)

The remittance of £330
to Mr. H. G. Storey on
account of the valves and
piping supplied by him
is approved, and the
Secretary of State will be
asked to make the pay-
ment.

2. Mr. Storey will be
requested to transmit an
account showing the balance

thb

still due to him after
the above payment shall
have been made.

3. The Government in
consideration of the trouble
taken by Mr. Storey in
carrying out the order for
the valves, and of the
pains bestowed by him
upon making all the
details as complete as
possible, sanction the
payment to him of 5
per cent commission on
the entire cost of the
piping for the deep tanks,
valves, and the amount
shown in para 4 of the
Chief

Chief Engineer's note with
there be £ 568-9-8.

To this Chief Engr. for order X

* Cashier's order X

To Mr. Storey again to allow same Bill 21/7/74

~~to Mr. Storey again to allow same Bill 21/7/74~~

L. Colvin signed 24/7/74

Public Works Department
 Proceeding of the Madras Government
 Read the following
 from Mr. J. L. Stoney Esq (H. B. Esq - dated 12 March 1874)
 to do (H. B. Esq - dated 14 April 1874)

The remittance
 of £ 350 to Mr.
 J. L. Stoney on ac-
 count of the valves
 and piping sup-
 plied by him is
 approved, and the
 Secretary of State
 will be asked
 to make this
 payment

2. Mr Stoney will
 be requested to
 transmit an ac-
 count showing
 the balance still
 due to him after
 the above payment
 shall

[Signature]
 17/4

[Faint handwritten notes]

[Faint handwritten notes]

232-235

[Faint handwritten notes]

shall have been made.

3. The Government have no objection to a commission of 5 per cent on the value of the special piping being allowed, but on the ordinary pipes 2 per cent appears to be sufficient. It must be remembered that a considerable amount of Public money has been devoted to giving a practical trial to Mr. Stoney's designs for valves. It is hoped that they

He asks 5% on the
Pipe and same un-
derstood to give it - if it
be the usual rate in the
trade

This is true but I don't
quite take the argument -
unless this was a condition
arranged - in aff.
We have spent money
on our own responsibility because
we believe that there is advantage
the demand of the use of the
patent - and same usually
face this as fact in dimi

Para 3 - The Government, ~~in~~ in consideration
of the trouble taken by Mr. Stoney in carrying
out the order for the valves, and of the
pains bestowed by him upon making
all the details as complete as possible,
sanction the payment to him of 5 per
cent Commission on the entire cost of
the piping, the deep tank valves, &
the amount shown in Para 4 of the
Chief Engineer's Note will then be
£ 568.9.8

May 18/61/26

invention of any fair claims I wish
— don't treat the young patentee
with liberality if not generosity

they will prove to
be successful, and
the Government
willingly acknow-
ledge the care &
attention which
that gentleman
has devoted to
the matter. Never-
theless the State
has taken the
risk, and it is
not necessary
to remunerate Mr
Stoney for his time
& trouble as ~~though~~^{if}
he had been work-
ing solely for
the Government.

To
The Chicago Jr. Soc.
--- Controller of Assets
--- D. E. Weston &
Chas. H. West -

15/6/74
15/6/74

4056 ✓

Govt. of 1874 Madras.

PUBLIC WORKS.



The Chief Engineer
for Bangalore

Dated

Recd.

Encl.

2

G. O. 15 July 1874, No. 1877

Nos. 232-235.

Mr. F. G. Stoney

The remittance of £350
on account of the
pipes and piping supplied
him approved and the
Govt. of State requested
to make the pay-
ment. Mr Stoney requested
to submit an account shw-
ing the balance still due after
the remittance now made &
allowment of 5 per cent Com-
on the entire cost of the
(see 17/6/74, R.O. 20/6/74)