

Financial (1897) Department.

ORDINARY MS.

G.O., No. 859

Dated 13-6-97

[Despatch Abstract.]

Directing that the reports called for, from the Public, Rev + P.W. depts & the Board of Rev (Land Rev), on the superiority & economy of the Wells' Industrial Lamp, be based on the use of the oil known as "Russian Petroleum" and requesting the Board of Revenue to intimate also its opinion on the suitability of the lamps for use in district offices & the economy which could be effected by their introduction.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
Cal 3252/97							
" 3439/98							

[28]
1,000-25-11-96.

Financial (1897) Department.

CURRENT No. 2083

From The Revenue Dept.

Order

No. 55

Dated 8th July 1897

Received 10th — 80 —

Registered 10th — 80 —

Enclosures -

Spare copies. -

SUBJECT.

Expressing its opinion that
the Wells' Industrial Lamps
are not superior to those
ordinarily sold in the market.

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

(1897.) Department.

D. O. No. 40.

CHIEF
SECRETARIAT,

D. O.

No. 40.

Dated, 26th Jan^y. 1897.

From Mr. F. W. Ashpitel.

D. O. No. 40.

26th January 1897

My dear Ashpitel

No.

Dated 20th Jan^y
Received 21st Jan^y
Registered 22^d Jan^y
Enclosures -
Spare copies. -

Herewith one of
Baker's Industrial Lamps.
Will you kindly have
the bearer, who is in
charge of the lamps
in this office, instructed
in the manner in which
the Industrial lamp is
set up, cleaned &c.

SUBJECT.

Offers to have the 'Industrial
lamps' set up and tried with
Messrs Best & Co's bulk oil.

30th Jan^y 1897
The 2nd party with
the sent with a lamp
he was sent to the Harbour
Engine Office but the lamp there has been removed
J. W. Ashpitel Esq. 26/1/97

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

D.O. No. 40.
Office of the Executive Engineer,
LIGHT-HOUSE DIVISION,
Madras, 20th January 1897.

CHIEF SECRETARY
21. JAN-1897
GOVERNMENT OF MADRAS

Dear Mr Price
The Industrial lamp which was
in the Harbour Engineer's office in
Mr Rogers's private property & from
what he said the other night he refused
to give your clerk any information.
I don't fancy he meant his refusal
to be taken too seriously but if you
will have the lamps ~~sent~~
sent here I will have them
set up & tried with best oil
+ the office heating
Could

Imb. Dept
20 January 1897

My dear Ashpith

The "Industrial"
lamps which you sug-
-gested should be given
a trial have arrived.

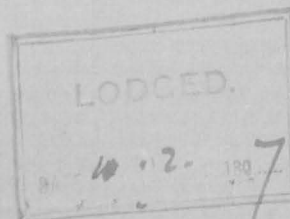
Will you kindly arrange
for the man in charge
of the lamp in the
Harbour Engineer's Office
being sent here to put
one up 18/1/97

Yours sincerely

To
I. W. Ashpith Esq.
16.1.97

(1897) Department.

D. O. No. 63



From Mr F. W. Appitel
Executive Engineer

No.

D.O.

Lodged

J.D.B.

10/2/97

For C.S.

Dated 28th January 97

Received 28-1-97

Registered 28-1-97

Enclosures

Spare copies.

Note. The lamps are
being tried in the office

L
Please check

J.D.B.

8/2/97

SUBJECT.

Regarding the "Industrial"
lamps

BACK PAPERS.

G.O.	No.	Department.	Date.
5046:	26-1-97		

FURTHER PAPERS.

G.O.	No.	Department.	Date.

D.O. No 63

Office of the Executive Engineer,

LIGHT-HOUSE DIVISION,

Madras, 25th January 1897.



Dear Mr Price

I have had the three "Industrial" lamps filled with Best & Co's kerosine oil, Heavy mineral oil & ordinary kerosine oil & so far as I can see they burn these oils equally well. I have also made 2 of our men take the lamps to pieces, fill them slightly thicker & he seems to find no difficulty. They are not wind

Back Papers 25/1

NOTE FOR THE

I was astonished, on making inquiries re the "Industrial" lamps here, to hear from the Mayor that ordinary kerosine oil (125 or 150) had been used with these lamps in Madras. The attention of the Street Candles Comtee Madras is drawn to the order flagged A in G.O. No. 494/5 of 19.8.96 from which they will see that common kerosine oil should be used. Best & Co's kerosine oil - This is easily procurable.

He will please report what steps he has taken & in regard to the trial & with a view to the report mentioned in para 2 of G.O. No. 95 of 3.2.97. There should, of course, be some means of comparison with the expenditure on other lamps.

He will see that he gets the proper oil for the lamps at City & will query the lamps by drawing it with

W/2/97

another lamp in the office
taken comparing the expenditure
on oil &c. He has better
speak to me.

He will ensure that
the Rev. P.W.D. & Board's Office
know that the more expensive
Kerosine oil should not be
used with the Industrial

Cms

C.A.

23 July

Mr. Ashpitel says ^{with} that the
Industrial Lamp burns about
8 oz of oil an hour, or approx-
imately a gallon in 20 hours, & that
the cost per hour is 1.15 4.

To be exact in my calculation
I got an ~~oz~~ measure & after an
trial extending over some days
I found that the consumption
was $5\frac{1}{3}$ oz of the hour. But & Co's
bulk oil was used, priced Rs 1.4
per bottle, & therefore the cost per
hour is nearly pice 4 as estimated
by Mr. Ashpitel. The expenditure
of milk was so very trifling that I
took no note of it.

With this I compared Bitumens
hanging lamp with the circular one.
The oil consumption in latter was

proof but since I believe answers
will within present state of
not being up in a direct draught.
They should be hung ^{as} high up as
possible. I think you will
find that But & Co's oil will
do perfectly well. I send the
lamps back filled & trimmed
so that you can try them - they
will burn better than the wicks are
not quite new. If you want
any ~~of~~ of them made would

proof I think there will be no
difficulty in doing so.

Yrs sincerely

W. Ashpitel

$5\frac{1}{2}$ oz, or $1\frac{1}{6}$ more per hour
Bitumens has a chimney, and
though the light has been in
use for some years, strange to
say that chimney has not had
escaped breakage. As for
range of light, Bitumens is
certainly superior, & it has
the further advantage that it
is not extinguished by a little
extra breeze as the Industrial
is.

W.

19/3/82

He
M.

But how does the cost
of oil for the two lamps
compare?

Cms
20/3/82

C.A.

Bulk oil is Rs 1.12.
the tin of 4 gallons while
Kerosene oil, which we purchase
from the English Warehouse, is
Rs 3.12 - the tin of 4 gallons
- difference Rs 2 per tin.

The former oil is used with
the Industrial Lamp & the
latter with Bitumens hanging
lamp

W. 23/6/82

H.C.
m

But the relative price
of the two oils convey little
information. What would the
comparative cost of oil for month
of 25 days in the case of each
lamp. We want to find out the approximate
savings in cost

Ans.
25/6/92

C.A.

I make out that the difference
of cost of oil for a month of
25 days, the lamps burning
for $1\frac{1}{2}$ hours per day, to be
as follows -

1/ Industrial with bulk oil -
burns for the month 200 oz.
24 oz cost 16 pias
 $\therefore 200 \text{ oz} - \text{As } 11 - \frac{1}{3}$

2/ Ditmar's with Kerosene oil -
burns for the month $\frac{825}{4}$ oz
24 oz cost 30 pias
 $\therefore \frac{825}{4} - \text{Rs } 1 - 5 - 6$

Difference between 1 & 2 is
Rupees 10 - 5.

6/6

28/5/92

* for the number of hours
lamps are on the average
burnt in the office when
Jnt. is at Madras

$1\frac{1}{2}$ hours

Note

Mr. Ashpitel writes - Vide flag
in G.O. 494 Finl., d/19-8-97 - that Wells'
Industrial Lamp burns about 8 oz. of oil
per hour, or approximately a gallon in
20 hours. In my calculation I found,
after a trial of some days, that the
consumption was $5\frac{1}{2}$ oz. the hour. Best
& Co's bulk oil was used priced Rs. 1-12
a tin of 4 gallons, or purchasing by the
bottle, As. 1-4. The cost per hour
comes nearly to 4 pies as estimated by
Mr. Ashpitel. So little of the wick was
burnt that it hardly worth while to
allow for it in reckoning the cost of oil,
&c.

2. With Wells' I compared Ditmar's
hanging lamp, circular wick. The oil
consumption in this was $5\frac{1}{2}$ oz. or $\frac{1}{6}$ th
more per hour. Ditmar's has a chimney,
and though the light has been used for
years that chimney, wonderful to say,
has hitherto escaped breakage. Kerosene
oil was used, purchased from the English
Warehouse at Rs. 3-12 a tin.

3. The difference in the cost of oil
consumed in a month of 25 days between
the two lights, burning for $1\frac{1}{2}$ hour
per day, works out thus. -

(i) Industrial with bulk oil -
burns for a month 200 oz.

24 oz. cost 16 Pias

$\therefore 200 \text{ oz. } ,, \text{ As. } 11 - 1 \frac{1}{3}$

(ii)

Ditmar's with kerosine oil -
burns for a month - $\frac{825}{4}$ oz.

24 oz. cost 30 Pies

$\frac{825}{4}$ oz. R.1-5-6

Difference between (i) and (ii) is
As.10-5.

4. As for range of light, Ditmar's
is certainly superior, and it possesses
the further considerable advantage that
it stands a stiffish breeze, which is
always welcome in hot Madras, while the
Industrial is readily extinguished by
a little extra puff.

6h

[3.]
74
200-6-2-07.

REVENUE DEPARTMENT.

CURRENT NO. 2083
OFFICE NOTE No. 55.

Dated 8th July 1897.

Recd 10/7/97

From

THE SECRETARY TO GOVERNMENT, REVENUE DEPARTMENT,

To

THE Hon'ble the Chief Secretary to Government.

With reference to Memo. dated
the 12th June 1897, the undersigned
has the honour to state that the
Well's Industrial Oil Lamps supplied
to the Revenue Department have been
tried for about three months and found
to be not superior to any appreciable
extent to those ordinarily sold in
the market, such as, Ditmar's. The quan-
tity of oil consumed is greater as de-
tailed below:-

	Quantity of oil con- sumed per hour. (ave- rage after trial for 7 hours in all.)	No. of clerks who could conveniently work.
1. Well's Industrial lamp	1/4 of a bottle.	4.
2. Ditmar's lamp	5/28 ..	4.
3. Ordinary country lamps in hexagon lanterns	1/24 ..	nil.

It is doubtful whether any great
saving would be effected by their in-
troduction in Public offices.

G. L. ...

Ag. Secretary to Government

2/7/97

Financial Dept.

Read again G.O. No. 95 Junt 7

3.2.97 (Q)

C. No. 2083. (Q)

Ob

Order W. 859 of 13 Oct 97

In continuation of G.O.

F No. 95 Junt. 7 3.2.97 the
Public, Rev. P. W. Dept. will
and the B^d of Rev (Land Rev)
will be supplied with a copy of
the note of May 1896 + 23^d

Q
N^o 2 G.O. 494/5 July 1896 by W. Ashpitel in
19.8.96 regard to Wells' Industrial
Lamps from which it will be
seen that Russian petroleum
should be used with these
lamps. The report called for
in the order quoted above
should be based on the use
of this oil. The Board of Rev.
will be requested, in sub^d. The
above report, to intimate its
opinion on the suitability
~~of economy~~ of the lamps
for use in district offices +
the economy, if any, which
could be effected by such use
C^{mt} 14.4.97 their introduction
do 12/10/97.

Pub. }
Rev. } Dept } with
P.W. } } com^{rs} of
B^d of Rev (L.R) } } W^d
} } by W^d
} } Ashpitel

Given for copying 15/10
copied 16/10
examined 16/10
signed 16/10 1897

AGAIN G.O., No.
189

DATED

AGENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT

A A A A A A A

LETTER OF GOVERNMENT

STATEMENT WITH DITTO

PAPERS NO. FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL.

N.B.—

A = Copy in full.
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.