

Financial
~~Judicial~~ (1899) Department.

ORDINARY MS.

G.O., No. 349

DATED 9-3-99

INDEXED.

14/14

[Despatch Abstract.]

Recording papers regarding the introduction of
Wall's industrial lamps in public offices.

9-3-99

BACK PAPERS.

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

FURTHER PAPERS.

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

Financial Revenue (1898) Department.

CURRENT No. 3624



From

The Board of Revenue, Land,
Revenue, Madras.

Order

No. 5443 Misc.

Dated 6th December 1898.

Received }
Registered } 7. 12. 98

Enclosures one.

Spare copies.

SUBJECT.

Submitting report on the work-
ing of the Wells' Industrial oil --
lamps forwarded with G.O.No.95 Pnl.
dated 3rd February 1897.

Joda

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Industrial lamp.

The industrial oil lamp requires about $2\frac{1}{2}$ bottles (Imperial pint) of Russian Petroleum for the initial filling and three-fourths of a bottle daily for subsequent replenishment of the reservoir, the quantity of the oil required for an ordinary table lamp being $1\frac{1}{2}$ bottles and $\frac{1}{2}$ bottle respectively. Before the introduction of the Industrial oil lamp four table lamps used to be supplied to the "Current" section of the office comprising 8 clerks, but since its introduction the necessity for lighting the table lamps has been completely obviated. The saving thus effected is shown in the following table:-

Quantity of oil consumed in a month of 25 working days.

	Industrial oil lamp	Four table lamps.
Initial filling-----	$2\frac{1}{2}$ bottles-----	6 bottles ($4 \times 1\frac{1}{2}$)
Additional quantity required for 24 days.	18 ($24 \times \frac{3}{4}$) bottles---	48 bottles ($4 \times 24 \times \frac{1}{2}$)
	<u>$20\frac{1}{2}$ bottles</u>	<u>54 bottles</u>

Net saving $33\frac{1}{2}$ bottles or in round numbers 33.

The above at Rs. 2.2.0 a tin of 24 bottles represents

$$\text{Rs. } \frac{17}{8} \times \frac{1}{24} \times 33 = \text{Rs. } 2.14.9$$

a saving of Rs. 2.14.9 a month or Rs.---

35.1.0 per annum.

L. Swaminathan
52028
Ag. Secretary.

C.B.

Josa

Date.



Proceedings of the Board of Revenue (Land Revenue).

No. 3443 Misc. Dated 6th December 1898.

Read again Board's Proceedings No. 1733 Misc., dated 12th June 1897.

*origo 8597ml
13-10-97
17*
Read again Board's Proceedings No. 4014 Misc. dated 23rd October 1897, recording G.O. directing that the report called for on the superiority and economy of the Wells' Industrial lamps be based on the use of the oil known as "Russian Petroleum"; and - requesting the Board to intimate also its opinion on the suitability of the lamp for use in District offices and the economy --- which could be effected by their introduction.

Read also Official Memorandum from Government, --- Financial Department, dated 18th November 1898.

Resolution

The Board submits the following report on the work-
ing of the Wells' Industrial oil lamps forwarded with G.O. No. 95
Financial, dated 3rd February 1897.

2. Of the three lamps received with the above order, one was handed over to the Settlement Department which will separately report the results of the trial made by it. The two lamps retained ~~on~~ ⁱⁿ the Land Revenue Department were rarely used last -- year and have only been put to a fair test since the beginning -- of October last when the heavy rains and the cloudy weather rendered the use of lights necessary at an earlier hour than usual in the evening. The oil used for the lamps was at first that sold in the bazaars by the Agents of Messrs. Best & Co., and this was

1898
B. S. S. S.
G. No. 3524

also used for ordinary table lamps in the office in order to facilitate the comparison with Wells' Industrial lamps. This oil, however, was found to be ~~malicious~~ ^{malodorous} and very smoky and has recently been replaced by Russian Petroleum (125°). A memorandum showing the results of the trial made with one of the lamps is appended to these Proceedings from which it will be seen that a net saving of Rs. 2.14.9 a month, or Rs. 35.1.0 per annum is likely to be effected by its use. The experiments hitherto made have, however, been limited in their scope and duration, and the Board cannot therefore venture an opinion as to the desirability of the introduction of the lamps in question in district offices.

/True Extract/

W. W. Wamkannu
5/2/98

For Ag. Secretary.

Chief
To the Secretary to Government, Financial Department with Memo.

C.B.

[Signature]

$\frac{0}{18}$ 2, 2-50-3-98.

Revenue (1898) Department.

CURRENT No. 7897

Reminder
From

The Financial Dept.

Order

No. —

Dated 18th Nov

Received }
Registered } 19th Nov.

Enclosures —

Spare copies

SUBJECT.

Requesting the favour of an early reply to its communication, re: Wells' Industrial lamps.

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

[G.
70]

500-18-5-98.

Reminders

Financial DEPARTMENT.



MEMORANDUM No.

THE favour of an early reply to the communication noted in the margin is requested.

80 No. 859 , dated 13-10-97

Subject.

Well's Industrial lamps.

CHIEF SECRETARIAT,

18 - " - 1898.

To

The Revenue Department.

18/11/98

A. Blaginton
an Assistant Secretary.

Financial

Revenue Dept
3636 Officer's note
To Under Secy

With reference to G.O.

T No. 859 dated 13-10-97, forwarding it is submitted that the Well's Industrial oil lamps supplied to the Revenue Department have been tried with Russian petroleum oil and found to be not superior to ~~existing~~ ^{existing} Ditmar lamps. The quantity of oil consumed ^{by each} is detailed below:—

	Lamps	Quantity of oil consumed by each per hour.	No. of clerks who can conveniently work
(1)	Well's Industrial Lamps.	$\frac{1}{4}$ bottle.	4
(2)	Ditmar Lamps.	$\frac{1}{6}$ bottle.	4.

Besides, the Well's Industrial Lamp ~~light~~ is often put out by gusts of wind while ^{Ditmar's} ~~Ditmar's~~ lamp ~~light~~ is not so.

3/12/98
5.12.98

To File as
6/12/98



Recd 7.12.98
Regd 8.12.98

C. W. 3624 + 3636.

NOTE FOR THE Chief Asst

With reference to the disposal
C on Encl C.W. 3439 received from
the Public Works Dept, it is
respectfully submitted that
the P.W.D. refers to memo W. 79C
dated 7th January 1898 which
was reported by me to be 'not
traceable' in the margin of the
current. As a copy of that
memo is also necessary to make
the file complete the following
memo to DWD is submitted for
approval.

Telephone From CS

Memo To Secy (2WD)

With Reference to ^{your} memo
W. 5222C dated 23rd November
1898, ^{please send} ~~the P.W.D.~~ is requested to
furnish a copy of ^{your} memo W. 79C
dated 7th January 1898 ~~therein~~
~~referred to as the same does~~
~~not appear to have been~~
~~received in this office.~~

cmf
12/12/98

mcl

Recd 13/12/98

Sent
14-12-98
13/4

Return to me

To the B.D. (memo only)

Telephone

From
The Chief Secretary

To The Secretary to Govt.
P.W.D.

Reference your Memo: No:
5222 C d/23 Novr 1898 —

Please send a copy of
your memo No: 79 C dated
7th January 1898.

A.M. 2
14.12.98

No. 5657 C d/14 Decr 98

Copy furnished.

A. Russell.

Under Secretary to Govt.
P.W.D.

Rm.

To
The Financial Dept.

with copy of Memo No 79 C
d/7.1.98

No. 79C

Government of Madras,
Public Works DEPARTMENT.

MEMORANDUM.

16. DEC. 1898

Dated Madras, 7 January 1898.

With reference to G.O. No. 859 Financial
dated 13 October 1897, the undersigned has the honour
to state that the two Wills' Industrial Lamps supplied
to this office have been tried at Chepauk with
Russian kerosene oil. The lamps burn admirably,
but as stated in Memo No. 1686 D dated 15 October 1897,
are not quite suitable for the offices here owing to
their not being wind proof.

2. One of the lamps has been used in the
despatch section of this office instead of candles,
and it is found that the saving effected is about
6 pice per diem.

(Signed) S. B. Murray

As Under Secretary to Govt.

The Financial Department.

(True Copy)

M. A. Jayarama Mudra
Head Clerk P.W. Department

H.C.

Where is the report on
the lamps used here? Put in
soon please

Cust
17.12.25

to
Ca

The industrial lamps
are used in the library
in the copying section. The
light is not superior
to Dittmar's circular
wick lamps, and the
disadvantage in the
case of these industrial
lamps is, that they
are easily put out
when there is a stiff
breeze blowing.

The following table shows
the expenditure of oil
& the cost per day in
the case of each:-

Lamps	Quantity per day	Cost per day	Remarks
1 Industrial lamp	$\frac{1}{2}$ bottle	$\begin{cases} \$8 \text{ per } 100 \text{ lbs.} \\ \$10 \text{ per } 120 \text{ lbs.} \end{cases}$	+ Bulk oil petroleum
of Dittmar's lamps	$\frac{3}{8}$ "	$\begin{cases} \$10 \text{ per } 100 \text{ lbs.} \\ \$12 \text{ per } 120 \text{ lbs.} \end{cases}$	+ 150° "Snow-flake" kerosene oil

A3
Preserve the file
Cust
18/12/25

The bulk oil ~~smokes~~
and was found to be
smoky, the other
oil burns well. The
Industrial lamp costs
3 1/2 p^{rs} more than Dittmar's.
~~but it is a chimney~~
if refined kerosene
oil is used. If bulk
petroleum, Best of
kerosene oil, is used
the ~~cost~~ cost is 2 1/2
p^{rs} less than Dittmar's.

Yme
1st/199

Wells Industrial oil lamps

Financial Dep't

C. No 3624 3636

Note

Note Flagged G.
in S.D. No. 498-5
of 19.5.46.

his note of 4 May 1896. G.

Para 3 of his note of
28 July 1896

In April 1896 when
a draft order revising the
practice in regard to Con-
tingent expenditure was
submitted to Sir Henry Blais
K.C.D.E. he remarked "Kerosene
lamps of great power are now
made for use without chimneys
powerful enough for one in
each room occupied by clerks to
be ample. Mr. Ashpitel knows
about them, I think. The matter
is worth investigation."
2. Accordingly Mr. Ashpitel of the
~~Board~~ ^{and he} who was consulted, said
that lamps known as the "Industrial"
in which the ordinary glass
chimney was replaced by a
tall cylinder which was not
liable to be broken or damaged
by heat ^{could} he obtained of any
Candle power and suggested that
a dozen of these lamps might
be obtained from England and
tried. These lamps, he said,
gave excellent results

with Russian Petroleum (Best
+ Co's bulk oil)

3. A dozen lamps were indented
for from England and distributed
to the marginally indented offices
for report after a fair trial as
to the saving likely to be effected
by their introduction in public offices

4. In L.O. no. 859 Dated 8/13/10/1897
the Public, Revenue and P.W. Depts.
and the Board of Revenue (Land
Revenue) were asked to submit
Reports based on the use of Russian
Petroleum with these lamps, and
the Board was asked to intimate
its opinion as to the suitability of
the lamps for use in district
offices and the economy, if any,
which could be effected by their
introduction.

5. The reports received are abstracted
below:-

The Public, Revenue, and Public
Works Departments say that
these lamps are easily put
out when there is a stiff breeze
blowing, and the two former
think that ^{the Industrial Lamps} these are not
superior to Dehn's lamps.

Para 2 of this note
8/23/ Aug 1896

B

L.O. no 495 Dated

8/19/ Aug 1896

H

x. Chief Secretariat - 4

L.O. no 95 Dated F Revenue Dept - 3

8/3/ Feb 97 P.W. Dept - 2

Board of Rev - 3

12

T

currents flagged Q. S. & Y.

Dr Q & S.

at 3 1/2 p.m. per day.

Current flagged

at 2 1/2 p.m. per day

Current flagged

Memo recorded in L.O. no 140. 43 Dated
8/1/ Nov 1897.

C. no 3624 flagged

Head Clerk's report.

Flag Q

Current flagged

C. no 3624

As for the saving likely to be
effected by the introduction
of the "Industrial" lamps, Public
Dept. states that there would be
an extra cost of Rs. 7. 3 1/2 per
month of 25 days if refined kero-
sine oil is used and a saving of
Rs. 5. 2 1/2 if bulk petroleum is
used. It is expected that in the
P.W.D. there would be a saving
of Rs. 12. 6 a month (25 days) at
Madras and Rs. 1. 13. 0 a month at
Ottacamund ^{and} in the Board's Office,
a saving of Rs. 2. 10. 0 a month
(25 days).

6. There are some special
remarks offered by each and
they are stated below:-

Public Dept The bulk oil was
found to be smoky and the
refined kerosine oil burns well.
P.W. Dept These lamps burn
admirably but ^{are} suited only to
Ottacamund owing to their being
wind proof. ^{to} better

Board of Rev. (L.R.) 3
bazaar oil was
very smoky. ^{His} opinion
of this lamp was Compl.

obviated the necessity for 4
table lamps used before.
The Board cannot venture an
opinion as to the desirability
of the introduction of these lamps
in district offices as the experi-
ments made ^{have} been limited
in ~~the~~ scope and duration.

memo appended to
C. No 3624.

C. No. 3624

20/1/88.

For the C.S.

These lamps are not as good as
those on good as Detmair's, but
they are cheaper and there is no
breakage of chimneys. The
kerosene lamps which were
in 1897 cost Rs 312.8.7 altogether.
vide A.P. Memo. No. 58 G.P. 35 of
17. May 1897 - C.S. Rs 26.0.8

VI

Each - The results with
Russian Petroleum, which
would ^{by} decrease the cost of
the daily use, have not proved

The Prob. It is thought that
works ⁱⁿ favor of introducing
these lamps into the
Muzaffar. When the
oil is getting cheaper
than

superior to Detmair's lamps.

quality ^{the} introduction of
the Industrial lamps

7) Bazamun use them
now in their stalls
along the streets of
Madras
C.S.

and there is a large business
growing up in the ^{less expensive} ~~cheap~~
kinds of hanging lamps,
which would do for Subdivisional
offices in the mufassal. There
does not appear to be any
rule against Collectors
supplying their own and
subordinate officers with decent
lamps and ~~most~~ ^{most} Collectors
would ^{in cases of} ~~ordinarily~~ ^{necessity}
doubtless purchase ~~them~~
~~themselves~~ the matter
might in any case be
left to the Board. If it
considers this trial necessary,
half a dozen of these lamps
might be ordered out for
experiments in selected
Collectorate offices - e.g.

Vizagapatam, Ponnichy, Cuddap
Chimbatore, Malabar & N. Arcot.

C.S.
26/1/88

I think the matter
may disp.

Leave for C.S.
S.P.

Ind Dept

No 349 89-3-99

Order
ms

Recorded

cust.
2.3.24.

1892

Wells

Wells
Industrial Lamp

When given for copying _____
When copied _____
When examined _____
When signed _____

189 .

READ AGAIN G.O., No. _____, DATED _____
189 .

CURRENT No. _____

ENCLOSURES TO C. No. _____

ORDER OF GOVERNMENT A A A A A A A

LETTER OF GOVERNMENT. _____

STATEMENT WITH DITTO. _____

PAPER NOT FILED UP, BEING WANT FOR DISPATCH
ORIGINAL. _____

N.B.—

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