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Judicial (1895) Department.

ORDINARY PRINTED.

G.O., No. 452.

DATED 1 Mar. 1895.

INDEXED.

[Despatch Abstract.]

Petroleum Testing Apparatus.

Ordering the distribution by the Chemical Examiner to the District Magistrates of Godavari, Tinnevely, Malabar and South Canara of the sets of lids and thermometers for the - forward -ed by the Government of India, and calling for early reports of the working of the apparatus.

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Govt. of {1895} Madras JUDICIAL.

Issued

Recd.

Encl.

G.O., 1st March 1895, No. 452.

MARCH.

Petroleum Testing Apparatus.

Ordering the distribution by the Chemical Examiner to the District Magistrates of Gódvári, Tinnevely, Malabar and South Canara of the sets of lids and thermometers for the — forwarded by the Government of India, and calling for early reports of the working of the apparatus.

1st MARCH 1895, No. 452, JUDICIAL.

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

READ—the following paper :—

From H. LUSON, Esq., Under Secretary to the Government of India, Home Department (Judicial), to the Chief Secretary to the Government of Madras, dated Calcutta, 22nd February 1895, No. 274.

In continuation of my letter No. 1336, dated the 7th December 1894, I am directed to state that the lids with thermometers for the petroleum testing apparatus have been received from England and six sets of them are now being forwarded to you by this office for use in the Madras Presidency.

2. A copy of the verification reports of the instruments is enclosed.

ENCLOSURE.

DETAILS of verification of fourteen modified apparatus for "testing crude petroleum."

The fourteen modified apparatus for "testing crude petroleum" have been verified by comparison with the Woolwich standard instrument.

The differences recorded below between the readings of the standard instrument and each of the fourteen new apparatus are inclusive of error (if any) of the thermometer (round bulb); for instance, the mean of five tests with the standard instrument is 77.2° F., the mean of five tests with instrument marked 070, fitted with round bulb thermometer marked 070, is 76.6 ; therefore the instrument 070 indicates the flashing point of an oil 0.6° F. too low. The thermometer 070 indicates temperature 0.5° F. lower than the standard thermometer. The actual difference therefore between the two instruments corrected for error of thermometer is 77.2 minus $77.1 = 0.1^{\circ}$ F., i.e., 0.1° F. below standard.

The instrument	070	indicates	flashing points 0.6° F. too low.
" thermometer	070	"	temperatures 0.5° F. "
" instrument	071	"	flashing points 0.2° F. "
" thermometer	071	"	temperatures correctly.
" instrument	072	"	flashing points 1.4° F. too high.
" thermometer	072	"	temperatures 0.3° F. too low.
" instrument	073	"	flashing points 0.6° F. "
" thermometer	073	"	temperatures 0.4° F. "
" instrument	074	"	flashing points 1.0° F. too high.
" thermometer	074	"	temperatures correctly.
" instrument	075	"	flashing points 2.2° F. too high.
" thermometer	075	"	temperatures 0.3° F. too low.

Note.—In using the "modified" cups and lids the lids should be so placed on the cups that the straight thermometer is nearest to the line scratched on the flange of each cup.

(Signed) W. KELLNER,
Chemist to the War Department.

18th December 1894.

ORDER—dated 1st March 1895, No. 452, Judicial.

The foregoing letter from the Government of India, with its enclosure, will be communicated to the Chemical Examiner and the District Magistrates of Gódvári, Tinnevely, Malabar and South Canara; and their attention will be invited to the note to the "Details of verification."

2. The six sets of apparatus will be forwarded to the Chemical Examiner who will examine them and arrange for their despatch to the Magistrates of the districts concerned.

3. The reports called for in paragraph 1 of G.O., dated 5th June 1894, No. 1360, should be submitted with as little delay as possible.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chemical Examiner.

"	District Magistrate of Górávari.
"	" " of Tinnevely.
"	" " of Malabar.
"	" " of South Canara.

Exd. C. A. Munisawmy.

28
Details of verification of 14 modified apparatus for " testing crude Petroleum. "

The 14 Modified Apparatus for " testing crude Petroleum " have been verified by comparison with the Woolwich Standard instrument.

The differences recorded below between the readings of the Standard instrument and each of the 14 new apparatus are inclusive of error (if any) of the Thermometer (round bulb), for instance: The mean of five tests with the Standard Instrument is 77.2°F., the mean of five tests with the instrument marked 070, fitted with round bulb thermometer marked 070, is 76.6, therefore the instrument 070 indicates the flashing point of an oil 0.6°F too low. The thermometer 070 indicates temperature 0.5°F, lower than the Standard Thermometer. The actual difference therefore between the two instruments corrected for error of thermometer is 77.2 minus 77.1 = 0.1°F i.e 0.1°F below standard.

The instrument 070 indicates flashing points 0.6°F too low.
The thermometer 070 ,, temperatures 0.5°F too low.

The instrument 071 ,, flashing points 0.2°F too low.
The thermometer 071 ,, temperatures correctly.

The instrument 072 ,, flashing points 1.4°F too high.
The thermometer 072 ,, temperatures 0.3°F too low.

The instrument 073 ,, flashing points 0.6°F too low.
The thermometer 073 ,, temperatures 0.4°F too low.

The instrument 074 ,, flashing points 1.0°F too high.
The thermometer 074 ,, temperatures correctly.

The instrument 075 ,, flashing points 2.2°F too high.
The thermometer 075 ,, temperatures 0.3°F too low.

x x x x

Note.— In using the " modified " cups and lids the lids should be so placed on the cups that the straight Thermometer is nearest

to the line scratched on the flange of each cup.

Sd/- W. Kellner.

Chemist to the War Department.

18-12-94.

True Copy.

Registrar, Home Department.

From

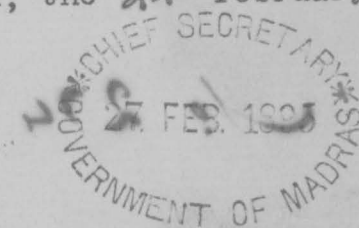
H. Luson, Esq.,

Under Secretary to the Government of India.

To

The Chief Secretary to the Government of Madras.

Calcutta, the 22nd February 1895.



Sir,

Home Department.

In continuation of my letter No. 1336 dated the 7th December 1894, I am directed to state that the lids with thermometers for the petroleum testing apparatus have been received from England and 6 sets of them are now being forwarded to you by this office for use in the Madras Presidency.

2. A copy of the verification Reports of the Instruments is also enclosed.

I have the honour to be,

Sir,

Your most obedient servant,

H. Luson.

Under Secretary to the Government of India.

US 28/2/35

Order of 1 March 95 No. 452.
P.S.

The foregoing letter from the Govt. of India, with its enclosure, will be con^d. to the Chemical Examiner, the Dt. Magistrates of Godavari, Timmerly, Malabar & S. Canara; and their attention will be invited to the note to the "Details of Verification."

2. The six sets of apparatus will be forwarded to the Chemical Examiner, who will ^{examine them and} arrange for their despatch to the Magistrates of the districts concerned.

3. $\frac{2}{28.295}$

3. The report called for in para. 1
of S.O. 975 June 1894 No. 1560 shd. be
submitted with as little delay as
possible D. 55 10
June 1895

To The Chemical Examiner with 6 sets
 of apparatus when recd.
 D. N. of Godavari
 Timmavelli
 Malabar
 S. Cauara

disps
 8/3/95

Note for orders.

Note for orders.
It will be seen from para. 2 of the G.I. letter in
pgs 5-6, 94 & 1360, ^{to be} that the a report on the trial
of the modified method of testing has to be sent ^{to be} at the
end of the current year, but as the new sets of appara-
tus required therefor have not yet been received, perhaps
the G.I. may be advised as to when the required report
might be necessary; unnecessary of para. 3

is added

28.2

Returned for signature