

FURTHER PAPER, No.

473

OF 189

READ AGAIN ORDER OF GOVERNMENT, DATED
189, No. MISCELLANEOUS.

ENCLOSURES.

CURRENT No.

STATEMENT WITH DITO.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT.

STATEMENT WITH DITO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL (not paged).

N.R.-

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

A A

be constructed to burn for
forty eight hours without
attention. The decision
as to the illuminant to
be used is left to the
authorities at home.

2. As ^{the second} ~~one~~ light-house
^{is nearly} ~~has been~~ already com-
pleted I am to request
early compliance with
the indent.

3. The cost will be
met by ^{from} the Madras
Port Fund.

HP

30/2/95

Note.

It is perhaps unneces-
sary to delay the indent
for a further ref. to Mr. A.

Job.

29.3.95.

Notes

No - the points he raises are fully
answered.

It will be noted that the P.P.O.
did not carry out the instructions
issued to him in the G.O. of Dec. 18. 94
No. 25-21 Mar.

W
4 Apr

Issue. and

7 Nov

Marine Dept.

Currents 967/94, 1029/94,
49 and 258/95.

9/8/94
X 2/8/94

Order. 5 April 1895, N^o 102.

The indent will
be forwarded to the Home
Govt. for favour of com-
pliance.

to
4 Apr

To the P. P. Officer. despatch
9/4/95
X 8/4

Letter N^o 103. 30/8/95
To the U. S. of S. for India

dated 11-4-95
with Indent (in duplicate) and sketch.

in duplicate

a sketch accompanies.

Sir,
I am directed to
forward, for favour of
compliance, an indent
for three dioptric lights
required to mark the
entrance to the Madras
harbour. Two are for use
in the light houses on
the North & South arms
of the harbour, and one
is to be kept in reserve.
It will be observed that
the lights should show
allround and should
be

Marine C. No 967 of 9th

Order

The indent will be forwarded,
to the India Office for compliance

To the P.P.O.

Letter

To

The Under Secretary of
State for India.

Sir,

I am directed to forward,
for favour of compliance, an
indent in duplicate, with a
tracing, for three dioptric lights
required for the Madras Harbour
entrance light houses placed on
the arms of the Harbour.

2. The lights should be of
Messrs Chance Brothers' make
and should show 4 miles in
clear weather.

3. The cost will be met from
the Madras Port Funds.

For orders whether Mr. Ash-
pithel should be consulted.

Port for

pay

20/11/80

I think Mr. Ashpithel should

certainly be asked to advise

as to the suitability of
the proposed lights for the purpose.

NO 258

Marine 1895 DEPARTMENT.

From

THE PRESIDENCY PORT OFFICER,

Madras,

To

THE CHIEF SECY. TO GOVERNMENT,

MARINE DEPARTMENT,

Fort St. George.

No. 1708
80 9.

Dated 26

Received 27/3

March

1895

SECRET

Enclosures - 2.

Current No 49. Submarine

2967 enclosure No.

Returned

Subject.

Forwarding a revised
indent for the Lights
required for the Harbour
entrance at Madras.

[Faint, illegible handwriting on the left page]

1758
80

[Faint, illegible handwriting on the left page]

[Faint, illegible handwriting on the left page]

[Faint, illegible handwriting on the right page]

[Faint, illegible handwriting on the right page]

Heading.

No. 1708/80 g

250

PRESIDENCY PORT OFFICE,
Madras, 26th March 1895.

From

Commander W. Powell, R. I. M.,
PRESIDENCY PORT OFFICER,
Madras,

To

THE CHIEF SECRETARY TO GOVERNMENT,

MARINE DEPARTMENT,

Fort Saint George.

SIR,

With reference to your Endorsement, No. 222, dated 5th February 1895, on my, No. 1708/16 g, dated 22nd January 1895, herewith returned, I have the honor to enclose copy of the Proceedings of the Harbour Trust Board together with a revised Indent in triplicate for the lights required for the Harbour entrance at Madras.

I have the honor to be,

Sir,

Your most obedt. servant,

Walter Buxton

Commander, R. I. M.,
Presid. Port Officer

Read again letter from Mr. F. W. Ashpiter A. M. S. L. C., dated 3rd December 1894, No. 291, addressed to the Chief Secretary to Government reporting upon the indent submitted by the Port Conservator for entrance lights.

Resolved that the Trustees are of opinion that the lights should be constructed to burn for 48 hours, and that it is desirable to obtain a spare apparatus. The illuminant should be left to the discretion of the Home authorities.

True Extract

HARBOUR TRUST
MADRAS 12 MAR 95
CLERK'S OFFICE

C. P. Buxton

Secretary
Harbour Trust Board

EXTRACT of Proceedings of the TRUSTEES OF THE HARBOUR
OF MADRAS, at a Meeting held at the Offices of the
Board on Friday the 8th day
of March 1895.

4. Read letter No. 4244,
dated 28th February, from the
Board's Secretary to Messrs P. Orr
& Sons, requesting with reference
to Resolution No. 11 dated 22nd
idem, that they would place
themselves in communication
with the Dy. Conservator of the
Port, with a view to the preparation
of plans and Estimate, for
fitting the two light-house
towers on either side of the
Harbour Entrance, with lamps
burning gas.

Read letter from Messrs
P. Orr & Sons dated 5th March,
replying that they could not
recommend gas as an illuminant
for the Entrance light houses.

he made regarding the
practicability of using oil gas
with a suitable lantern.

True Extract

HARBOUR TRUST
MADRAS 12 MAR. 95
SECRETARY'S OFFICE

Print
Secretary
Harbour Trust Board

1895
Munis. Dept.
Enclos. No. 2
To
O. No. 258

EXTRACT of Proceedings of the TRUSTEES OF THE HARBOUR
OF MADRAS, at a Meeting held at the Offices of the
Board on Friday the 22nd day
of February 1895.

11. Read letter No. 1708 M
dated 7th February, from the
Presidency Port Officer forwarding
copy of memo No 2521 Marine,
dated 18th December '94, from the
Chief Secretary to Government
requesting the opinion of the
Harbour Trust Board upon the
points raised in Mr. Ashpitel's
note No 292 dated 3rd December 1894
regarding the incidents submitted
by the Dy. Port Conservator for three
dioptric lights, required for the
Madras Harbour Entrance light-
houses, upon the arms of the Harbour.

Read Mr. Ashpitel's
note referred to, and discussed
connected correspondence.

Resolved that enquiries

Marine (1895) DEPARTMENT.

URR

From

THE PRESIDENCY PORT OFFICER,

Madras,

To

THE CHIEF SECY. TO GOVERNMENT,

MARINE DEPARTMENT,

Fort St. George.

No. 1708
16 4

Dated 22nd

Received 23rd

Regd 24th

14
encls. 14

967, 1029

No.

January 1895.

Subject.

Returns with remarks
correspondence regarding
lights required for the
Madras Harbour Entrance
lighthouses.

476

Indt of 5. 2. 95 No. 222

Returned to the Presidency
Port Officer with the
request that copy of the
Harbour Trust Board's
Resolution on the Dy.
Conservator's letter No.
2123 of the 21st December
may be furnished. The
Presidency Port Officer
will observe from
Endorsement No. 2521
of the 18th December
that the Government
desired to have the
views of the Board
on Mr. Ashpitel's remarks.

Redundance

Chief Secretary.

4
the breakwater and make it more
or less dangerous for a person going
to the Pier head.

I have the honor to be,

Sir,

Your most obedt. servant,

Walter Bewle

Commander. R. I. M.,
Presidency Port Officer

of bad weather in the Bay heavy seas break over the pier heads long before local weather conditions make it necessary for vessels to leave the harbour. The mere fact of a Cyclone having formed in the Bay does not in itself necessitate sending ships to sea. It is only when there seems to be a probability of the port being brought within the actual storm area that such a course is adopted. As storms occasionally take several days to reach the coast, and sometimes only a few hours after the warning signal is hoisted, it is obvious that no risk whatever should be incurred but that the Harbour entrance should be efficiently lighted in good time. I certainly think the lights should be adapted to burn for 48 hours as even in the most ordinary fresh breeze the seas tumble up against

or South also require to see both lights to avoid any confusion of a single red light with a steamer's side light. A dim white light showing over 90° might be mistaken for a ship's riding light. The burners will require no manipulation. The question of the most suitable type of light was thoroughly gone into and the lights indented for will meet all the conditions of efficiency and simplicity in manipulation.

3. The second pier head being nearly completed good lights are urgently required. Enquiries into various patent methods will involve delay. Any automatic apparatus is sure to require great care and will probably be complicated. The illuminant recommended has stood the best of all tests - that of several years' practical experience.

4. As regards the burning of the lights for 48 hours I would remark that during the prevalence of

No. 14089
76

CLERK No. 49
PRESIDENCY PORT OFFICE,
Madras, 22 January 1895.

Heading.

From

Commander W. Powell, R.N.,
THE PRESIDENCY PORT OFFICER,

MADRAS,

To

THE CHIEF SECRETARY TO GOVERNMENT,

MARINE DEPARTMENT,

FORT ST. GEORGE.

SIR,

In returning the papers received with
marine department memorandum no. 2521
dated 18th December 1894 I have the honor to forward
copy of a letter from the Deputy Conservator of the
Port to the address of the Chaviman Harbour
Trust Board, in reply to the points raised in
Mr. Ashpitel's Note.

2. I would observe that the lights are
required to show all round the compass so that
a vessel leaving the Harbour at night
(a matter of almost daily occurrence) may see both lights from any part of
it, which would not be the case if they
showed over an arc of 270°. Vessels making
the outer anchorage at night from north

anchor light pattern showing the same
all round.

4. In ordinary bad weather it is difficult
at night for a man to get out on the harbour
arms, as the sea breaks over it, and until
a cyclone is actually on us, vessels should
be able to leave the harbour; the time
may be reduced to 36 hours if there is
any advantage.

5. Cera wax we have used and find
it answers well, it is understood by our
light man the special mineral oil men-
tioned (without name) is unknown to
me.

6. The special apparatus required
for burning Cera wax for 48 or 36
hours would be a bigger reservoir the
extra cost of which would be only a few
shillings.

I have &c

(S^d) Charles W. Hewett
Commander R. I. M.

Deputy Conservator of the Port.

True copy

Walter Powell

Commander R. I. M.

Presidency Port Officer.

1895
Mar Dept.
Enclos. No. 1
Q. No. 49

No 2123.

Post Office
Madras 21st December 1894.

From

The Deputy Conservator of the
Port of Madras.

To

The Chairman,
Harbour Trust Board,
Madras.

Enclosures
returned.

Sir, With reference to Mr. Ashpitel's letter
I have the honor to remark as follows.

1. Three sets of lights were indented for
in case of one being damaged or washed
away during a cyclone; we know the height
waves will wash at the Wolf and Eddystone
Lighthouses.

2. Nil.

3. The object of the lights is in the first
place to guide vessels out of the harbour
on dark rainy nights during bad weather
or when ordered out owing to definite infor-
mation having been received of a cyclone
approaching. As it brings the port into
discredit ordering ships away before it is
absolutely necessary I think that as good
a light as possible of the kind indented for
should be provided i.e. a dioptric light
anchored.

E. I. Form No. 10-1,000-22-4-93

1894

Mar
1029

From

Mr. R. K. Drake Brockman
Asst. Secy. R. E.,
CHIEF ENGINEER FOR IRRIGATION,

To

Honorable the
Secretary
to Government.

No.

292.

Dated

3rd December 1894

Despatched

6 - - - - -

Received

75...

Repd

75...

ENCLOSURES.

Mar. C. 20967
ret'd with Encl.

Subject.

I forward letter from
Mr. Ashpitel, inform-
ing that the apparatus
proposed to be installed
at the Madras Harbour
Light House is suitable
and suggesting certain alter-
ations in the indent
to be forwarded to
the Home Government.

Indt 2521 of 18-12-94
14 Dec
H. E. the Governor

Forwarded, with the
previous papers to the
Presy Port Officer, in
view to Mr Ashpitel's
remarks being con-
sidered by the Har-
bour Trust Board.

J. B.
10/12

22
12/12/94

Presiding Port Officer
15/12/94
Aspd
Aspd

No 2123.

Post Office
Madras 21st December 1894.

From

The Deputy Conservator of the
Port of Madras.

To

The Chairman,

Harbour Trust Board,
Madras.

Enclosures
returned.

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in case of one being damaged or washed
away during a cyclone; we know the height
waves will wash at the Wolf and Eddystone
Lighthouses.

2. Nil.

3. The object of the lights is in the first
place to guide vessels out of the harbour
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or when ordered out owing to definite infor-
mation having been received of a cyclone
approaching. As it brings the port into
discredit ordering ships away before it is
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E. I. Form No. 10-1,000-22-4-93

1894

Mar
1029

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Secretary
to Government.

No.

292.

Dated

3rd December 1894

Despatched

6 ——— 50 ———

Received

75...

Repd

75...

ENCLOSURES.

Mar. C. 20967
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Subject.

I forward letter from
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proposed to be installed
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Light House is suitable
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14 Dec
H. G. the Governor

Forwarded, with the
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Presy Port Officer, in
view to Mr Ashpitel's
remarks being con-
sidered by the Har-
bour Trust Board.

12/12/94

75B.
10/12

Presiding Port Officer
15/12/94
Asst. Secy.

sproach the tower it will probably be too bad
for ships to attempt to enter or leave the harbour.

5. Cera Wax has no doubt many advantages but
it is not obvious that for light house purposes, it can
compete with ordinary mineral oils. If the light is
required to burn continuously for 48 hours I would
suggest that the illuminant should be left to the
discretion of the home authorities. When I was
in England the Trinity House Engineers were
experimenting with a special mineral oil to burn
in the ordinary light house lamps and the French
Engineers with a special burner for use with ordinary
light house oil the lights to burn without attention
for considerable periods and I believe that the
experiments were entirely successful.

6. With ordinary burners and oil the lights
will burn for 16 hours continuously and to lengthen
this period to any considerable extent means either
special oil or special apparatus. The Presidency
Port officers might be asked to consider whether
a light to burn 16 hours continuously is not sufficient.

I have the honor to be,
Sir,

Your most obedient Servant.

No 29. L.

CURRENT NO. 1029

Forwarded

Asst Chief Engr for Engrs &

Resident Engineer

Under Secy to Govt P&D&B

Colonel R.E.

Asst Secy to Govt

W. H. P. L.

L

approach the tower it will probably be too bad
for ships to attempt to enter or leave the harbour.

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it is not obvious that for light house purposes, it can
compete with ordinary mineral oils. If the light is
required to burn continuously for 48 hours I would
suggest that the illuminant should be left to the
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in England the Trinity House Engineers were
experimenting with a special mineral oil to burn
in the ordinary light house lamps and the French
Engineers with a special burner for use with ordinary
light house oil the lights to burn without attention
for considerable periods and I believe that the
experiments were entirely successful.

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will burn for 16 hours continuously and to lengthen
this period to any considerable extent means either
special oil or special apparatus. The Presidency
Port officers might be asked to consider whether
a light to burn 16 hours continuously is not sufficient.

I have the honor to be,

Sir

Your most obedient Servant.

No 29. L.

CURRENT NO. 1029

Forwarded

Asst. Chief Engrs for Engrs &

Resident Engineer Under Secy to Govt P & D S & B

Colonel R.E.

Asst. Secy to Govt

W. H. P. L.

A

N. 29.4

Madras 3^d December 1894.

From,

W. Ashpitil Esq.

Asstt Chief Engineer for Irrigation

& Under Secretary to Govt P.W.D.

HARBOUR TRUST
MADRAS 21 DEC. 94
SECRETARY'S OFFICE

To,

The Hon: the Chief Secretary
to Government
Fort St George.

Sir,

3. With reference to your endorsement No. 2324. dated 23^d November 1894, I have the honor to inform you that the apparatus proposed to be installed at the Madras Harbour lighthouses is, in my opinion, suitable but I would suggest certain alterations in the indent.

(1) I do not understand the necessity for three sets of apparatus for two lighthouses.

(2) The cost of each set of apparatus landed in India will probably be about £ 45.

(3) The Presidency Port Officers might be asked to consider whether it is necessary that the apparatus should sub-tend more than 270° of the horizon. The light from the burner alone will be sufficient on the land side and to omit 90° of the lenticular apparatus will facilitate the manipulation of the burners.

4. The reason for requiring the lights to burn for 48 hours continuously is not apparent. If the weather is such that the attendants cannot

Triplicate

Indent on England for Stores required for the use of the Marine Department, Ma

Names of Articles.	Revenues to which cost is chargeable.	Imperial head of account or grant to which chargeable.	Established proportion.	How established proportion is calculated.	Number or quantity in store.	Number or quantity due on previous indents.	Number or quantity now indented for.	Rate.	VALUE.		Remarks.
									Of number or quantity due on previous indents.	Of number or quantity now indented for.	
Lanterns bi-optic copper anchor light pattern (largest size as made by Messrs Chance Bros) with red glass instead of white to show a uniform unbroken light all round the horizon on a clear dark night at least 5 miles and to burn for 48 hours continuously without attention. The lower part of lantern to be fitted with a flange and screws so that it can be bolted to the movable table as per plan attached. The choice of illuminant is left to the makers.	Port. Fund Madras						nil nil ⁽³⁾ Three				Leading light at the entrance of Madras Harbour and space

1708
399

Forwarded, observing

that the lights required should show in clear weather 4 miles. A remark to this effect has been entered by me in the Indent.

Charles - Hewitt.

Commander, R.I.M.,
In ch. Treas. Port Office.

Treas. Port Office,
Madras, 16 November 1894

R472

2324 d/23 November 94

Mr Ashpitel is requested to advise Govt. as to the suitability of the proposed lights for the purpose required of them.

Chief Secretary

PRESIDENCY PORT OFFICE,

Madras, 22. November 1895.

100-24-10-91.

Charles - Hewitt.

Commander, R. I. M.,

Commissioner of the Port.

Chair.

Harbours

3013
21/11

Indent on English¹dras Presidency.

Names of Articles.	Shipped or under provision.	Proposed to be provided.	Remarks by the Director-General of Stores.
<u>European Violin</u> <u>Cello</u> <u>and</u> <u>light</u> <u>hollow</u> <u>(largest</u> <u>right</u> <u>as</u> <u>made</u> <u>by</u> <u>the</u> <u>same</u> <u>maker</u> <u>as</u> <u>with</u> <u>red</u> <u>glass</u> <u>instead</u> <u>of</u> <u>white</u> <u>to</u> <u>show</u> <u>a</u> <u>uniform</u> <u>in</u> <u>broken</u> <u>light</u> <u>all</u> <u>round</u> <u>the</u> <u>house</u> <u>on</u> <u>a</u> <u>clear</u> <u>dark</u> <u>light</u> <u>at</u> <u>least</u> <u>5</u> <u>with</u> <u>and</u> <u>to</u> <u>be</u> <u>for</u> <u>48</u> <u>hours</u> <u>consequently</u> <u>without</u> <u>attention</u> <u>The</u> <u>lower</u> <u>part</u> <u>of</u> <u>the</u> <u>to</u> <u>be</u> <u>filled</u> <u>with</u> <u>a</u> <u>plan</u> <u>and</u> <u>seems</u> <u>to</u> <u>that</u> <u>it</u> <u>can</u> <u>be</u> <u>collected</u> <u>to</u> <u>the</u> <u>unreliable</u> <u>table</u> <u>as</u> <u>per</u> <u>plan</u> <u>attached</u> <u>The</u> <u>choice</u> <u>of</u> <u>illumination</u> <u>is</u> <u>left</u> <u>to</u> <u>the</u> <u>author</u>.			

MARINE DEPARTMENT.

FROM

THE CHALKMAN,

HARBOUR TRUST BOARD,

MADRAS.

10

THE CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

DATED 13th November 1894

1894

REGULATORY

ENCLOSURE 8 *For*

No. 241

SUBJECT.

Submitting an incident,
we anticipated, with a bearing
for those diaphane lights
requisite for the shadows
that our Entrance's light-
house, upon the arms
of the splendors

$$\begin{array}{r} 1708 \\ \underline{399} \\ 1309 \end{array}$$

Storvander del. Stenning

that the Light required should
show in clear weather 4 miles
A remark to this effect has
been entered by me in the
indent.

Charles - Bennett

Commander. D. D. M.

Indl: Treas: Post Office

Price: Post office's
Medina, 16 November

1894
1894

102324 d/23 Nov 1894

the Adipic acid is re-

.greatest to advise
 Govt: as to the wish-
 .ability of the proposed
 lights for the purpose
 required of them.

Reinhold
Kaufmann

三

11/2/11

~~PRESIDENT~~ PORT OFFICER.

Madras, 22. Euclid 1895.

100-24-10-91

~~Captain William~~

Indent on English Presidency.

Names of Articles.	Shipped or under provision.	Proposed to be provided.	Remarks by the Director-General of Stores.
Lanterns sixpence Copes and one light-batteries (largest size as made by Messrs Chance Bros) with red glass instead of white to show a uniform in dark light all round the harbour, on a clear dark night at least 5 miles and to serve for 48 hours continuously without attention. The lower part of lantern to be filled with a glass and seems to that it can be rolled to the accessible table as per plan attached The choice of illuminant is left to the maker.			

Penetration Port Office,
 Madras, 22. Decr 1895.
 100-24-10-01.

Capt. H. H. M. M.,
 Madras.

Madras Harbour Trust,
 SECRETARY'S OFFICE,
 13, November 1894

No. 4

Edward James Esq. & Co

CHAIRMAN, HARBOUR TRUST BOARD,
 MADRAS.

To The Director of P. & F. Price Rs. 8.0.0 & 8.0.0.

Chief Secretary to Government,
 Marine Department.

SIR,

I have the honour to
 submit herewith an indent, in triplicate,
 with a tracing, for three diaphane
 lights required for the Madras Harbour
 entrance light houses, upon the arms
 of the harbour; the estimated cost
 being Rs. 150/- and I request that
 this indent may be forwarded to
 the India Office for favour of
 completion.

I have the honour to
 remain, Sir,
 Yours faithfully,
 J. H. M.

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

TO

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

DATED 13th November 1894

DESPATCHED 14th — 1894

RECEIVED

ENCLOSURE 5 Four

No. 244

SUBJECT.

Submitting an indent
in triplicate, with a tracing,
for three dioptric lights
required for the Madras
Harbour Entrance light-
house, upon the arms
of the Harbour

1708
399

Forwarded, observing
that the lights required should
show in clear weather 4 miles
A remark to this effect has
been entered by me in the
Indent.

Charles - Hewitt.
Commander. R.N.M.
Inch. Presy. Port Office.

Presy. Port Office
Madras, 16 November
1894

2324 d/23 November 94

Mr Aschiptal is re-
quested to advise
Govt. as to the suit-
ability of the proposed
lights for the purpose
required of them.

Chief Secretary

3513
21/11

ORDINARY, MS.

Marine DEPARTMENT.
G.O., DATED 6/4/95
No. 104

INDEXED

When given for copying. 6/4.

[Despatch Abstract.]

Forwarding to the Chairman, H.Y.
Bd., Mily Dept. a copy of letter
from the G.O. accepting con-
ditionally the responsibility for
any damage that might occur to
the Steam launch which the Madras
Harbour Trust Board are prepared
to lend to the Mily authorities to
enable the annual practice from
the Madras defenses to be carried out.