9614 & 9930.

# Public Works (1896) Department.

G.O., No. 3291-92 W.

DATED 16th November 1896.

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[Despatch Abstract.]

"Improved Harden Star Grenade": Ordered that the Director General of Stores India Office be addressed for information as to whether the — is still considered in England to be effectual in extinguishing fires or whether it has been superseded by something more efficient.

T.F. 16/11.

17/11

[F.W. 25.
5,000—23-10-96.]

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | 967 W. | P W. | 17-3-96 | | | | |
| | 1822 C. | " | 2-4-96 | | | | |
| | 3794 C. | | 29-10-96 | | | | |
| | + papers. | | | | | | |

## FURTHER PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Harden Star Grenade.

DEPARTMENT.

A.G. 73/

No. 3291 W. dt. 16th November 1896.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Office note from the Chief Secy. Public Dept. No. 2151 dt. 23.10.96
— " — " — " — " Exp. P.W. account No. 3294 dt. 2-11-96.

To The Public Dept. ✓ R. 14/11

The Director Genl. of Stores India Office will be addressed—

A.G. No. 3292 W. dt. 16th November 1896
To the Dir. Genl. of Stores, India Office
London

Sir,

A.H. 11.11.96

I am directed to request that inquiries may be made as to whether the "Improved Harden Star Grenade" advertised by the Harden Star & Sinclair Fire Assurance Company, Limited, 114 Cannon Street, London E.C., is still considered in England to be effectual in extinguishing fires, or whether it has been superseded by something more efficient. The Govt. desire to provide important public

[P. W. 40. 50 — 3-0-96.]

buildings in this Presidency with some such appliance as a precaution against fire, and would be glad to be furnished with particulars as to the latest article of the kind used in theatres, hotels or public offices in Europe -

2. A prospectus received in this office some years ago quoted the English price of the Harden Star Grenade at 40 shillings per dozen, while a local firm advertises them at Rupees 25- per doz, which is considerably below the English price - The wire baskets to hold the grenades are advertised at 8 annas each -

3. On receipt of a reply to this letter, including details as to price of the best article of the kind which can be recommended, the question of forwarding an indent on the Home Govt for a supply, will be considered -

Yours &c

10/11/96

H.E. 10/11. R 13/11.

C.W.O. 7.11.96.

# Public Works (1896) Department.

**CURRENT No.** 9930

**Order**

**From** The Examiner
C. W. Receipts
Madras

**No.** 3284 G/A

**Dated** 2d Nov 1896.

**Received** 5.11.96

**Enclosures** one file.

**Spare copies**

## SUBJECT.

Fire grenades. Stating the source from which the cost of the ——— is to be met.

BACK PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|

FURTHER PAPERS.

| G.O. | No. | Department. | Date. |
|---|---|---|---|

No. 967 W., 17TH MARCH 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

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**Buildings and Roads.**
**Civil Works.**

READ—the following paper:—

From Lieutenant-Colonel C. C. RAWSON, R.E., in charge of Consulting Architect Division, to the Chief Engineer, Public Works Department, dated Chepâk, 28th February 1896, No. 4683.

With reference to your office-note No. 912 C., dated the 15th instant, I have the honour to forward, for your approval, a notice to be printed and issued to all heads of departments to take precautions against fire.

2. The superstructure of the Public Works Secretariat building at Simla was of half timber work, hence the almost entire destruction of the building; but there is also a great deal of timber in the roofs of public building of Madras, and, as a further precaution, I venture to suggest that enquiries be made through the India Office, if any reliable fire-proof paint is available, and, if so, that a small quantity may be sent for experiment with price lists, samples of the various tints available, &c.

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ENCLOSURE.

*Precautions to be taken against fire in the Public Works Offices, Madras.*

Heads of offices are to direct the head clerks of their offices to see that the following rules are carried out and the head clerk is to be held responsible for this being done.

2. Before closing the office for the night, the head clerk will go round each room and see that everything is safe, his special attention being directed to the receptacle for waste paper.

3. None but safety matches are to be used in the office.

4. The matches used for official purposes should be in the custody of one person in the office whose name should be registered.

5. The person named in paragraph 4 should keep the matches during the day under lock and key and should invariably take them away with him at night.

6. No naked lights should be used in any office. All candles or wicks must be protected by glass.

7. Fire-places for the preparation of paste should not be allowed near any building.

8. Any temporary sheds built of combustible materials required for any purpose should not be erected without the permission of the Consulting Architect.

9. Waste paper is not to be allowed to accumulate in large quantities in any office. Every evening the waste paper of the day is to be collected and put into a special place, the key of which should be in charge of the head clerk.

(Signed) C. C. RAWSON, Lt.-Col., R.E.,
In charge of Consulting Architect's Divn.

26th February 1896.

Order—No. 967 W., dated 17th March 1896.

The proposed rules, with slight modifications, are sanctioned for adoption as regards the Public Works offices at Chepâk. But it is desirable that similar precautions should be taken in all public offices. The rules will accordingly be circulated to heads of departments for information and guidance in drawing up rules, altered as may be necessary to suit local requirements.

2. The Consulting Architect will himself make such inquiries as he may consider necessary in regard to fire-proof paints.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation.
" Consulting Engineer for Railways.
" Consulting Architect.
" Superintending Engineers.
" Superintendent of Works, Periyár Project.
" Examiner, Public Works Accounts.
" Examiner, Railway Accounts.
" All departments of the Secretariat (Educational etc.)

Exd. T. K. Narayana Aiyangar.
Spare Copies

CURRENT NO. 480

Edul

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated March, 17th.

Read. 6/4/96

Rep 6/4 Encl. SC 6

G.O. No. 967 W., 17th Mar. 1896.

MARCH.

**Protection of public buildings from fire**

Orders sanctioning certain proposed rules for the — for adoption as regards the Public Works offices at Chepâk.

CS.

X

Order
R

Communicated to the D.P.I., the Comr for Govt Exams & the Subdl - E.E. M -

CR 8/4/96

TB 7/4. Note.

It is submitted that a more useful precaution than any amount of rules which will never be observed would be the provision in racks at frequent intervals throughout all public offices of the glass bottle hand grenades which are kept in all the theatres & hotels & many private houses at home. They require no skill to use & are most effective. Should a fire break out during the day in the Govt. office here nothing could save the place, as the pressure on the pipes below will never throw water up to the third story. Hand-grenades would be also useful at night, as any fire noticed by the watchman could be extinguished with them at once before it increased

To The D.P.I.
— C.E.E.
— S.E.Cir. } &c.

Wd 8/4/96.

H.E. 10/11 R 13/11

EXAMINED
30 OCT 1896

Ed Department

C. No. 480

FOR ORDERS.

I submit for the perusal of the Board Rules for the prevention of fire in public buildings laid down by the P.W.D with a note on the back of them. The contains a suggestion which seems worthy of consideration.

I quite agree with the C.S. as to the rules never being observed after - at any rate after the first week or two.

Some of the rules are right enough i.e. Nos. 3. 6 7 & 8. but it is absurd to lay down that the Hd Clerk shall go round every night and look into the waste paper basket in each room before it is closed. What on earth is the use of safety matches are used of keeping them in the custody of one person who is to keep them under lock and key for the day and take them away with him by night! The head of the office was intended as a

I don't see the absurdity of this

JS

To prevent other than safety matches being used

JS

Protection of buildings from fire

Joke.

Ruler 6 x 7 lay down merely what is done now.

As for 8 no temporary huts have ever been built or are likely to be.

Whether may be the conditions elsewhere it is impossible to suggest a place as the Chief Secretariat with a huge record room to prevent accumulation there being large quantities of waste papers at a time. There are never any lights there, the place is always cleared before dark and it would be absolutely impossible to take up every day to some [illegible] from all the waste papers of the day and lock them up [illegible] - How can what security from fire would be gained thereby?

One with lights and matches seems to me all that is necessary. If a fire did occur it would be impossible with a steam fire engine and a large supply of water to get (which there is) to put out the 1st storey. The Grenades mentioned by the U S are I believe very effectual and they might be provided to each floor by reason the consequence of the occurrence of a fire Ld 28/4/96

I am not sure that it is done now: indeed I am sure that it is not done even in many offices. Have been asked to go round in offices. Five places for making the same round in the Board's office

FOR ORDERS.

I would add "to after fresh [illegible]

H. M.

Why not at the time prescribed?

JG

If fire did break out it would help it to assume proper volume

JG

I know nothing about these Grenades. What are they charged with? What is the effect when they are used? What is the cost of them?

JG
29/4/96

C 29/4

EXAMINER
30 OCT 1896


## PROTECTION FROM FIRE.!!!

### THE IMPROVED HARDEN STAR GRENADE FIRE EXTINGUISHER.

As supplied to HER MAJESTY'S OFFICE of WORKS, H. R. H. The DUKE of CAMBRIDGE, H. R. H. PRINCE CHRISTIAN, and all the NOBILITY and GENTRY of GREAT BRITAIN.

*BEING MADE OF THINNEST GLASS AND HERMETICALLY SEALED WILL BREAK AS EASILY AS AN EGG, AND RETAIN EFFICIENCY UNIMPAIRED BY TIME OR CLIMATE.*

**CAUTION.**—The marvellous success of the Harden Star Grenade has resulted in the production and advertisements of *worthless articles of similar type*, claiming advantages they do not possess. The makers of these decline meeting the Harden Star in public competition, well knowing their defeat is inevitable. In order that the public may not be deceived into buying these inferior articles, it is pointed out that the BLUE MELON-SHAPED GRENADE, WITH A STAR BLOWN IN THE BOTTLE, is the only reliable appliance of the kind.

**FACTS WORTH KNOWING**—*Unsolicited Testimonials prove that in Great Britain alone* **2,100** *actual outbreaks of Fire have been Extinguished, and many Lives saved by their use.*

The Harden Star Grenade has made a record that stands without parellel in the history of Fire Appliances.—**Three Millions have been Sold in Two Years.**

| GOLD MEDAL, LONDON 1886. HIGHEST AWARD. | SILVER MEDAL, LIVERPOOL 1886. HIGHEST AWARD. | SILVER MEDAL, PARIS 1885. HIGHEST AWARD. |
|---|---|---|

**Agents for Madras, McDOWELL & CO.,**

Rs. 2-8 each or Rs. 25-0 per doz. } *SUB AGENTS REQUIRED.* { Wire baskets for attaching to wall to hold three Grenades each As. 8.

(48—1,000—17-12-95.)


29/4/96

No. 1693C

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Madras, 26th March 1896.

OFFICE NOTE.

W

A

There are several grenades hung on the these buildings. They are so placed for years, and it seems to me that their efficiency should be tested. I am obliged, therefore, if you will be so good as to put them to a practical test and report whether they can be relied on to extinguish a fire.

25/3/96

W.

R.S.

Protection of buildings from fire.

Joke.

Rules 6 & 7 lay down merely what is done now.

As for 8 no temporary roofs have ever been used or are likely to be.

Whatever may be the conditions elsewhere it is impossible in so large a place as the Chief Secretariat with a fine record room to prevent accumulations being large quantities of waste paper at a time. There are never any lights there, the place is always closed before dark and it would be absolutely impossible to take off & destroy every day the rooms' accumulation of waste paper all the waste paper of the day and lock the lot. accumulations of a month or more. What advantage from fire would be gained thereby?

One with lights and matches seems to be all that is necessary. If a fire did occur it would be impossible without a steam fire engine and a large supply of water to play (which there is not) to play on the lot of stores. The grenades mentioned by the C.E. are I believe very effectual and they might be provided to meet the very remote contingency of the occurrence of a fire. W. 25/4/96

What is the cost of them?

JG
29/4/96

C 29/4

No. 1693C

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Madras, 26th March 1896.

OFFICE NOTE.

There are several grenades hung in the Secretariat buildings. They are placed for years, and it seems that their efficiency should be tested. I am obliged, therefore, if you will be so good as to put them to a practical test and report whether they can be relied on to extinguish a fire.

25/3/96

W.

20/3/96

(48—1,000—17-12-95.)

Protection of buildings

Joke.

Rules 6 & 7 lay down merely what should be done now.

As for 8 no temporary Huts have been built or are likely to be whatever may be the condition it is impossible to do large as the Chief Secretariat could soon to prevent a being large quantities at a time. There are now there the place is alr before dark and it absolutely impossible every day to remove from the waste paper of the what security from fire thereby?

One with lights and he ch it is necessa did occur it would be impossible with a steam fire engine and large supply of water to (which there is) to the W.S. stores. The grenades mentioned by the U.S. are I believe very effectual and they might be provided to reach the by remote contingency of the occurrence of a fire. 28/4/96

PROTECTION FROM FIRE.

To

Sir,

The recent disastrous Fires at Tinnevelly and Madras at which several hundreds of lives were lost, have induced the Harden Grenade Company to send us some of their Grenades for extinguishing Fire, and the first consignment having just arrived, we should be glad to receive your orders for any you may require.

Refering you to details overleaf.

We are Sirs,
Your Obedient Servants
McDOWELL & Co.,

P. T. O.

work? What is the effect when they are used? What is the cost of them?

JG
29/4/96

C 29/4

No. 1693C

Government of Madras.

EXAMINED
30 OCT 1896

PUBLIC WORKS DEPARTMENT.

Madras, 26th March 1896.

OFFICE NOTE.

From W

To CA

There are several hand grenades hung on the walls of these buildings. They have been so placed for several years, and it seems desirable that their efficiency should now be tested. I shall be obliged, therefore, if you will be so good as to put them to a practical test and report whether they can be relied on to extinguish a fire.

25/3/96

W.

CAS
29/3/96

(48—1,000—17-12-95.)

Hand Fire Grenades in Public offices. - C22/9. C28/9
C27/9 D25/10

(grenades)

[G. 25 A.] 1,000—21-3-96.

Edl. Department.

EXAMINER 30 OCT 1896

Hon. Price.

C. No. 480

CHIEF SECRETARY 5 OCT. 1896 GOVERNMENT OF MADRAS

FOR ORDERS.

(Hon. Mr. Price mislaid these papers by accident, which explains the delay.)

Attention is solicited to the office note on the back of current 480, C8's note thereon, & Hon Mr. Grose's notes dated 29-11-95.

It has been ascertained that the grenades cost Rs. 25. a dozen & that Mr. Dowell & Co. are agents for them. A prospectus about them, and some notes in D.P.W.s. showing results of trials of some which were nine years old are also put up.

U.S. has not been able to discover exactly what they are charged with. It is probably a trade secret. It is believed to be some liquid which when heated gives off carbonic acid gas freely, the action of the grenades being due to the fact that

Seen: all public officers should gradually be supplied with these grenades

JG
25/9/96

The English price given in the prospectus is 40/- per dozen - The price Rs 25 in the A. & N. the list is 30/6 per dozen, So, if Mr. D & Co are still selling at Rs 25, they are selling below English prices, which is queer. I should say one had better be got out from home. It looks from the price, as if they were damaged stock. Wire basket & hold them wd also seem to be needed

HS
25/9/96

A.S.H. 7.10.96

It is a liquid.
ASH

No. 5323 dated 31st March 1896

To

W.

I had half a dozen of the hand grenades hung on the walls of those buildings taken out & tested, and found that they are still fairly effective for small fire, notwithstanding that they have been here for nearly nine years. The fire goes round anything melted with the liquid without injuring it. I think it advisable to obtain a quantity for use.

G.O. No. 1431 W dy: 25. 5. 87, sanctions the purchase of 3 dozen of these from Messrs McDowell & Co: of Madras at Rs 25 per doz: for the grenades & 5 annas per each wire bracket to hold the grenades. I annex a copy of the manufacturers prospectus.

C. Lamm
27/3/96
Lt: Colonel R
Insch: Comg: Archt: Dy

Ques 1
Rec: 1.4.96
No 1822 Cdy 2nd April 1896.

Memo

The Consulting Architect is requested to be so good as to submit an application in the form prescribed for the purchase of European Stores when the sanction of Govt will be obtained to the requisite number of hand grenades.

1/4/96

The E.A. to Govt.

No. 1693 C dy 26-3-96
1438 W dy 26-5-87
967 W dy 17-3-96
1821 C dy 31-5-87
2256 W dy 16-8-92

The ~~grenade~~ gas surrounds the fire & chokes it.

W Rainey 22.9.96

FOR ORDERS.

H. E. THE GOVERNOR.
THE HON'BLE MR. H. W. BLISS, C.I.E.
THE HON'BLE MR. J. GROSE, C.I.E.

C.S.
i/

Endt. No. 2042
Transferred to the D.P.W. with papers returned & Hon Members' notes in original

W Rainey
Q.V.S.

To D.P.W.

Ootacamund
8 October 1896

Rec-Q.

A.S. 7.10.96

8/10/96.

A/Circ

EXAMINED
30 OCT 1896

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

again
READ the following

G.O. 96 P.W. dated 17th March 1896.

His Excellency the Governor in Council directs that all public offices be gradually supplied with hand grenades which are believed to be effective for extinguishing fire. Heads of Departments will accordingly arrange for the submission of indents on the Secretary of State, "the improved Harden Star Grenade" being applied for. The English price quoted by the manufacturers is 40 shillings per dozen.

The Chief Secy to Govt 3 for favour of counter-
" Secy to Govt Rev. Dept. initials.

The Chief Engr. for Irrigation
" Consg Engr for Rys
" Consg Architect to Govt
Supdg Engineers
The Examiner P.W. accounts
" Examiner Ry accounts
All Depts of the Secretariat.

R.S.

12/10/96

C.W.P.D.
13/10/96.

(40—1,500—21-4-94.)

P. W. Department

EXAMINED
30 OCT 1896

Grenades for extinguishing fires in buildings

Note to accompany draft order.

It is not known whether the cost of supplying these grenades to all public offices has been considered. It will amount to a considerable sum. Taking an average of 6 grenades for each public building, and the number of buildings to be supplied at 1000 in round numbers, the cost will come to something like £5000 / £7000.

19/10/96

W

R.S.

[ G/73 ]
100—1-8-96.

Public DEPARTMENT.

P. W. Current Number 9614

OFFICE NOTE No. 2157

Dated 23rd October 1896.

Regd: 26. 10. 96

From

THE Ag. CHIEF SECRETARY,

To

THE SECRETARY, Public Works DEPARTMENT.

In returning the accompanying draft sent for counter-initials, the undersigned has the honour to suggest that, as these grenades have been in existence for some years, it is possible they have been superseded by something more efficient. It therefore seems advisable before indents are prepared as proposed that the India Office should be first addressed on the subject.

2. The draft does not mention the source from which the cost of the grenades is to be met, but, as the Public Works Department is in charge of public buildings, it is presumed that it will pay for all.

H Arundel

Ag. Chief Secretary.

P.T.O

EXAMINED
30 NOV 1896
A005

No. 3794C d/29 octobr

To C

For favour of Divisio
regard to para 2 of the Chief
Secretary's Office lette

24/10/96
W

With compliments file.

C.S.

No. 3284 D/A d/ 2-11-96

To W.

The fire grenades can be obtain-
ed through the P.W.Stores Division
on indent as usual. The cost can be
debited to "stock" in the first instance
and the issues treated as sales to the
Departments requiring them; or, prefer-
ably, the quantity required by each
department can be made over to it on
arrival, and the cost debited direct to
that Department.

C.
4/11

nt.