Referred

Grefse

Stany 1924 Mr. Keave. Hon C.S. The only incincator offered is a thoroughly good type but its free (-12433. f. o.b. Liverpool) mould affer to rute out The frasibility of accepting this tender in Virol of the himited amount of funds apidale for public works. I consider that a very much simples from of incinerator weld de divided beatly which would meet requirements it only a fruction of the cost. Please allach buf a which a form of incineration was purposed by the Col. August and on which Mel. fave HHH 3 had 24 M. P. 122/20 attachedy

Inside Minute Paper.

Sheet No.

Pan Kis to CS. and to CSI.

Sugar fluer

till 24 had 24

bolonial Engineer. ? Hon Colonial Swegeon?

Cassed to you accordingly.

Cassed to you accordingly.

Collect

Oriefcer

Out Thurshaps

The Hon. Col. Secy.,

Though greatly in favour of the introduction of modern methods and appliances for the improvement of the sanitary conditions in Stanley, I would respectfully draw attention to the following:

- (I) Messrs Heenan & Froude's specification provides for the destruction of 8 to IO tons of refuse per day of 8 hours; the quantity named includes "house and trade refuse, nightsoil together with an added proportion of dry peat to assist combustion".
- (2) As previously reported (vide 722/20) only about 2.7 tons per day of house refuse would have to be dealt with, there being practically no trade refuse. It is estimated that the collection of nightsoil during 5 nights of each week does not amount to more than 80 to 90 gallons per night and of this amount at least 50% is liquid. To absorb this moisture before tipping on to the drying hearth would necessitate a considerable quantity of peat loam and considering that the peat sgeds are only cleared once a year (in November and December), xx, for a

great part of the year the supply of peat loam would have to be specially provided.

(3) In my opinion the amount of refuse from all sources would not average, at the most, more than four tons perday.

Colonial Engineer.

9/4/24.

How Col. Learner with her heaver suggestion It Whene 21.4.24 Colone Durge On Somothed Some See 23 april 1994. (an the Consulting Engineer Device an affropriele from findingralis? Mr. das. Neave, Exerced Served of the order tttl 23 april 24

Returned By regular

Sheet No. 5

Grown agent Letter of 21 or feb. 1924 Copy of Fetter from memerator Po of 14 "December 1923 - " (50)

h: a.a. P. Neave (3) and the enclosure famuelles for farmer you vers

- HHH 17 kg 24 /Am C.S.

The incin Erator aftered su The Incinerator wrogany is a aschel Type but requires some modification as reads feeding arrangment in REW of the tout nature of the E.C. paid contents Des inansrated.

! require an overhead reding platform inthe happer feed and ramped cart approachway as mentioned in my Aport of 8th Thigast 1923 Essential 5 satisfactory horking.

BE necessary arrungment is Ence 6 indicated on the attacked wigh shitch. to the two hail system is adopted this platform need met be very large - a milk Equal to the anyth of the industry. under review (6-11" on sheefint)

should & ample Suft to headwom

under must be at heat 6-6" clear

for attention of this ramoval of

ashes re.

the whole should be covered both a steel & formed covered the limb the steel of many be of an to the fact.

Caseful refection of site in order to reduce excantion or two involved in approach was will a desirable.

(rontwork only the wit include for onch or historick R. / suggest a renied for onch or historick Re. / suggest a renied for mentioned to obtained for the him in question, such quotient on the inchesia of all brickmost, historich lineings R. Complete.

it will is need say to rigidly enforce fral By a law No/4 Clause 3 regarding "Electual application" of scale comb to pail contents - such application can only be regarded as "Electual" when the amount of boat amb is sufficient to the two yells and is sufficient.

Contents.

Enchoure - Sketch

14 June 1524.

4.5. Submilled. m. Neaves proposal is to do away with the last family of 3' x 6' 2" and to sub thick a hoffer feed and also to raise the height of the brockwork from 3' 8" to 6' 6" to found of earlier stoking. 2. The spening as proported in the design appears outlable and likely & facilitate dumping and with the por wear the fewer blatform and shed protection on three sides no of-Jedin ohould exist. a good copy and be printed if thought directle. The increase in the height of the brickwork seems unecessainly freat - ar would have kought 5 6 and 3. I do not think that be sufficient there should be much difficulty in making and enforcing a by law as proposed by her Near 4. In addition to the furchase

if an incener alor a prefer cart for the how fail offen would have to be bought They are probably Expension Those I know have hor obvies and carry I think about 800 24 buckels The whole being completely covered The sides Mexicaleur consiste of doors. 5. The me sering walter for Consideration is whether The professed incineralir will in fact incineralt. He C.S. Thinks not and her Veave of understand knows of no reason why they should not. It is not a Valistactory basis for launching wit Expend hue? titlet 15 hours H.C.S. Wile you plean han the cliculated In couri dualin in Ex: Co in Connection WIT 254/1923 + 465/24 Hon Ag. (learner .)
Hon Colonial Swiger S.

Corenlated

Gor Colonial Secretary
14 July 1924



The Honourable the Colonial Secretary.

refuse has been dealt with in a regraphs 69 to 75 of my preliminary report on Fort Stanley dated the S8th Pebruary, 1983 in which the provision of an incident for the destruction of general household refuse (as distinct from peat ashes) was advocated. The amestion of incidention of E.C. pail contents was not at that time contemplated as I so strongly arged the adoption of a proper water borne sewage system for the town.

- the decision of the Theoretive Council at their meeting held on 53th Jarch, 1923 that the expense of such sewage scheme could not be not, then retail present. Elthough the drainage scheme is to be designed in such manner that it can ultimately be adopted to carry sewage and that the 1. C. system is to be continued but on nors sanitary lines than those now in existence. It will therefore be necessary to provide for the incineration of earth closet refuse in addition to household refuse.
- which has an overhead feed in which the refuse is shot on to a drying hearth situated between the furnice proper and the main flue outlet so that the hot and flaming gases passing over it exercise a drying effect prior to the refuse being raked into the furnice proper. This is preferably arranged with a ramp so that carts can reach the high level and shoot the refuse direct into a hopper leading down to the drying hearth without double han ling.
- 4. The process of frectional distillation and recovery of amoniacal liquor advocated by the Colonial Surgeon whilst admirable in suitable cituations could not under local conditions be recommended as an economic

Proposition. The provision of forced drught either be was of steam or compressed air from a centrifugal fan or 'Acots' blower is advantageous but it is not absolutely essential to satisfactory incineration.

- 5. Thilst a suitable incinerator can be designed locally in view of local conditions reperding construction I do not recommend this course.
- resources in way of brick, firebrick or iron or steel and practically the whole of the acterials (with the exception of argregate for concrete foundations) would have to be imported, and owing to the accreity of skilled labour or modern workshops I do not consider that any idvantage would be gained over the practical course slready proposed in a regraph 75 of my ireliainary report above mentioned of obtaining competitive tenders for supply from one of the saveral inclish firms who specialise in this class of work, and whose wide experience doubtless covers destruction of refuse in places there pest is the conventy used fuel.
- 7. I attach specification and submit that tenders for supply of an incinerator be invited through the Grown gents from the following firms:Heasts Manlove & Alliott & Co. Ltd.,

Broomsgrove .orks,

Hottingham.

✓ Messrs The Nev Destructor Co,

Malter House,

Bedford Street,

Strand, W.C. 2

Messrs Heldruns Ltd.,

108 Victoria Street,

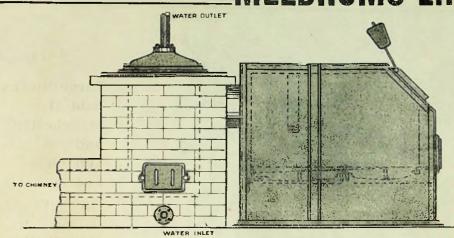
Vestainster, S. a. 1.

Messrs Heenan & Frowde Ltd.,
...orcester in ineering forks,
orcestester.

8th usust, 19:3.

(sgd) A. A. I. Helve, Assoc H. Inst. C. L.

MELDRUMS LIMITED



WORKSHOP HEATING
FROM
INDUSTRIAL REFUSE
BY MEANS OF

THE "MELDRUM"
REFUSE DESTRUCTOR
WATER HEATER.

REAL TANGIBLE ECONOMY.

Live steam — using Coal — is an expensive means of Works Heating — but a "Meldrum" Destructor will efficiently transform waste into useful heat for that purpose at practically no cost. Any waste from dry paper and sawdust to wet spent tan, hops, fruit pulp, etc. Many and varied are the industries to which we have applied our experience — one Tannery consumes 120 tons per wiek of wet spent tan and tan-pit refuse and heats a Lancashire Boiler; another Tannery uses 20 tons per day of Myrabolums and Mimosa Bark and heats a Babcock Water Tube Boiler; a big Shipyard burns 40 tons per 24 hours and so raises all the steam required in its Smithy; another big Shipyard burns 50 tons per day, and so on; WRITE US—WE MAY BE ABLE TO GIVE YOU A SIMILAR SAVING. Ask for List 106 D and tell us just what waste you have for disposal. Small quantities may have possibilities

7283

Ask for List No. 106 1). 04 above; 106 F. and S. on Forced Draught and Mechanical Stokers; 106 C. on Chemical Plant.

London Office: 108, Victoria Street, Westminster, S.W.1.

TIMPERLEY nr. MANCHESTER





Copy of Minute from the Acting Governor, deted the 13th of Lugust, 1963.

Letter to Grown Lents please requesting them to all for tenders on the lines of the drift and string that this Government will be also to receive the tenders for consideration, as in the absence of knowledge as to cost, it has not get been definitely decided to instal an incinerator.

722/20. 16th August, 23. Gentlemon, I am directed by the Acting Governor to inform you that the question of disposing of the refuse of Stanley by incineration is at present receiving attention, and that although, in the

absence of a knowledge of the cost of an incinerator, it has not yet been definitely decided to adopt this method, it would be of great assistance if in the meantime, quotations could be obtained for consideration.

In duplicate.

2. A list is attached of firms which have been suggested as makers of the plant required and I am to request that you will be so good as to call for tenders from them on the lines of the enclosed specification.

5 copies.

I am,

Gentlemen,

Your obedient servant.

G. R. L. Brown.

for Colonial Secretary.

The Crown Agents for the Colonias,

4, Millbank, Westminster,

London, S.W. 1.

LIST OF FIRMS SUGGESTED AS MAKERS OF INCIDERATORS.

Messrs Manlovo & Alliott & Co: Ltd:,

Broomsgrove Works,

Nottingham.

Messrs The New Destructor Co.,
Walter House, Bedford Street,
Strand, W.C. 2.

Mesars Heldrums Ltd.,

108 Victoria Street,

Westminster, S.W. 1.

Messrs Heenan & Frowde Ltd.,

Worcestor Engineering Works,

Worsester.

The first was deposited by the late with the second

add make wood to age. for lighting Think, the second in

shirty will be totalned murthy from the fresh most minhes,

which is used in the earth placets in live of hale or cook

refuse to be destroyed that have a los cally the value

Makers of the Horsfall Destructor.

(3a)

PORT STANLEY, FALKLAND ISLANDS.

INCINERATOR.

Tenders are invited for the supply f.o.b.

Liverpool of a small incinerator suitable for dealing with the whole of the general refuse and E.C. pail contents of the town.

The contractor is to base his tender on the following information :-

The town is a small one consisting a population of about 900 dwelling in about 200 houses and workshops etc which latter are small in numbers and size; a margin of at least 10% is to be allowed on these figures for future development. The climate is very similar to the North of Scotland, i.e. generally cold with a good deal of wet and very windy.

The fuel universally used is peat which burns to a fine ash the calorific value of which is practically neglible. There are no trees in the Colony and wood is consequently extremely scarce and practically all odd waste wood is used for lighting fires. Consequently refuse to be destroyed will have a low calorific value which will be obtained mostly from the fresh peat combs, (i.e. sifted unburnt peat dust from the peat store floor) which is used in the earth closets in lieu of loam or sand.

The incinerator should be capable of properly incinerating on trial run 1 ton per hour or 8 tons per 8 hours day of general domestic refuse including offal from butcher's shops and E.C. pail contents, and the design is to include for ample arrangements for readily and efficiently getting rid of peat ashes from under the furnace observing that the combustion of peat leaves a large quantity of fine ash which tends to choke the draught unless raked clear from the fire and also tends to burn out the fire bars.

The site of the incinerator will be one sloping downhill from North to South situated to the East of the town; prevailing winds being from the West. The general slope of the ground is about 1 in 10 but a position could probably be found with a slope of about 1 in 5., and it will be desirable to have something in the nature of an inclined road and tipping platform so that refuse can be shot from carts direct into the hopper feeding the drying hearth without lifting by hand. In view of the objectionable nature of the E. C. pail contents the hopper mouth should be of suitable design and dimensions to readily take refuse. A natural draught system is to be preferred as no electric power is available for forced draught, and if forced draught is required the source of power will have to be taken from a boiler in the incinerator flue and steam led to steam jet or fan all to be included in the tender if required.

Concrete foundations and reinforced concrete tipping platform if required will be provided locally.

The contractor is to give particulars as to the capacity of the plant for which he quotes and is to state whether a natural or forced draught system is intended, and special attention is drawn to the nature of the household refuse in its lack of coal ashes. He is to state also the approximate quantity of fresh peat or peat comb likely to be required (if any) to be added to the general refuse in order to sufficiently raise its calorific value sufficiently for the proper hygienic destruction of the refuse. He should also give some indication as to the extent of concrete foundations etc: required for the plant observing a good foundation is to be met at a comparatively shallow depth in the stiff clay and rock on the site.

The contractor is to include in his tender for the supply f.o.b. Liverpool of the whole and complete installation including steel plate smoke stack and guys and fixings etc: all properly crated or bundled for safe transit and ready for erection on site and all properly marked and lettered to agree with erection drawings or key plans to accompany the materials, and also two spare sets of firebars as replacements.



ALL COMMUNICATIONS

TO BE ADDRESSED TO THE

CROWN AGENTS FOR THE COLONIES.

THE DATE OF THIS LETTER BEING QUOTED,
AND THE FOLLOWING REFERENCE: 148
TELEGRAMS, "CROWN, LONDON."
TELEPHONE 7730 VICTORIA

W/Falkland Is.1700 4, MILLBANK,

WESTMINSTER,

LONDON, S.W. 1.

28th November 1923.

Sir,

W/Falkland Islands Requisition No.1700

I have the honour to acknowledge the receipt of your letter No.722/20 of the 16th August, relative to the question of disposing of the refuse of Stanley by incineration, and the question of obtaining a suitable incinerator for this purpose.

- 2. We invited tenders for the supply of an incinerator to the specification which accompanied your letter, and I enclose for your information, Messrs Heenan & Froude's tender, accompanying letter of the 31st October, specification and prints, from which it will be clear to you, the type of machine the firm propose to supply.
 - Messrs Manlove, Alliott & Co.Ltd., state that they are unable to supply an incinerator sufficiently large to meet your requirements. Messrs Meldrums Ltd., and The New Destructor Co. did not quote.
 - 4. In the event of you wishing us to place an order for an incinerator similar to that quoted for by Messrs Heenan & Froude we shall be glad if you will return their tender and accompanying papers with your indent.

I have the honour to be,

Sir,

Your obedient Servant,

for Crown Agents

The Colonial Secretary,
Falkland Islands.

GRL

31.10.23





ALL COMMUNICATIONS

TO BE ADDRESSED TO THE

CROWN AGENTS FOR THE COLONIES,

THE DATE OF THIS LETTER BEING QUOTED.

AND THE FOLLOWING REFERENCE: 31 V/Falkland Is. 1700

TELEGRAMS, "CROWN, LONDON."
TELEPHONE, 7730 VICTORIA.

14th Dec: 123

4, MILLBANK,
WESTMINSTER,
LONDON, S.W. 1.
21 st February 1924.

Sir,

Falkland Island Requisition No. 1700

With reference to our letter Mo.148 dated 28th Movember, with which we enclosed a tender from Messrs.

Hecanh Froude for a refuse destructor, I have the honour to enclose a letter dated 14th December from the Incinerator Company, together with shipping specification and blue print which furnishes particulars of a small incinerator for night soil for a population of 1,000 people

I have the honour to be, Sir,

Your obedient servant,

The Colonial Secretary,
Falkland Islands.

for Crown Agents.

Lhrchhat

h.

THE INCINERATOR COMPANY.

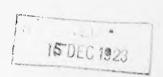
G. WATSON.

TELEPHONE: GERRARD 1840. WALTER HOUSE, BEDFORD STREET, STRAND, LONDON, W.C.2.

14th. Dec. 1923.

GW/ACM.

The Chief Engineer's Office; Crown Agents for the Colonies, 4, Millbank, S.W. 1.



Dear Sir,

With reference to the enquiry received this morning from Mr. Eraud, we have much pleasure in sending you herewith in duplicate, a blue print of our "Duplicate D", destructor, as designed for the use of Urban District Councils and other local Authorities.

This furnace as you will see is practically two of the "D" type built together to form one large combustion chamber 6 ft x 3 ft. on plan. This enables rather bulky articles, such as condemned mattresses and such like to be burnt without cutting up.

It is also a most efficient furnace for burning refuse of the kind indicated, and will take the place of sanitation in any community such as you mentioned, having a population of from 900 to 1,000 people. It is difficult without having exact data of the proportion of moisture and fuel value of the refuse to give exact particulars, and of course anything in the nature of a definite guarantee is impossible, but it is well that with an apparatus such as this and with sufficient heat added to absorb the moisture you would easily be able to do the whole sanitation for a population of 1,000 people. Assuming that the peat is fairly dry, we should think that a mixture of about half and half of wet night soil and peat should burn all right.

Our price for the ironwork, packed for shipment and delivered f.o.b. in this country would be £92, plus

10% for the cost of packing and putting f.o.b. = £9/4/- giving a total of £101/4/-. Enclosed we send you approximate shipping specification to enable you to calculate freight.

We are entirely at your service for any further information which might be of use.

We are, dear Sir,

Yours faithfully, For THE INCINERATOR COMPANY.

Makon

THE INCINERATOR COMPANY.

G. WATSON.

TELEPHONE: GERRARD 1840. WALTER HOUSE, BEDFORD STREET, STRAND, LONDON, W.C.2.

14th. Dec. 1923.

Approximate Shipping Specification for the "Duplicate I" Type, Incinerator.

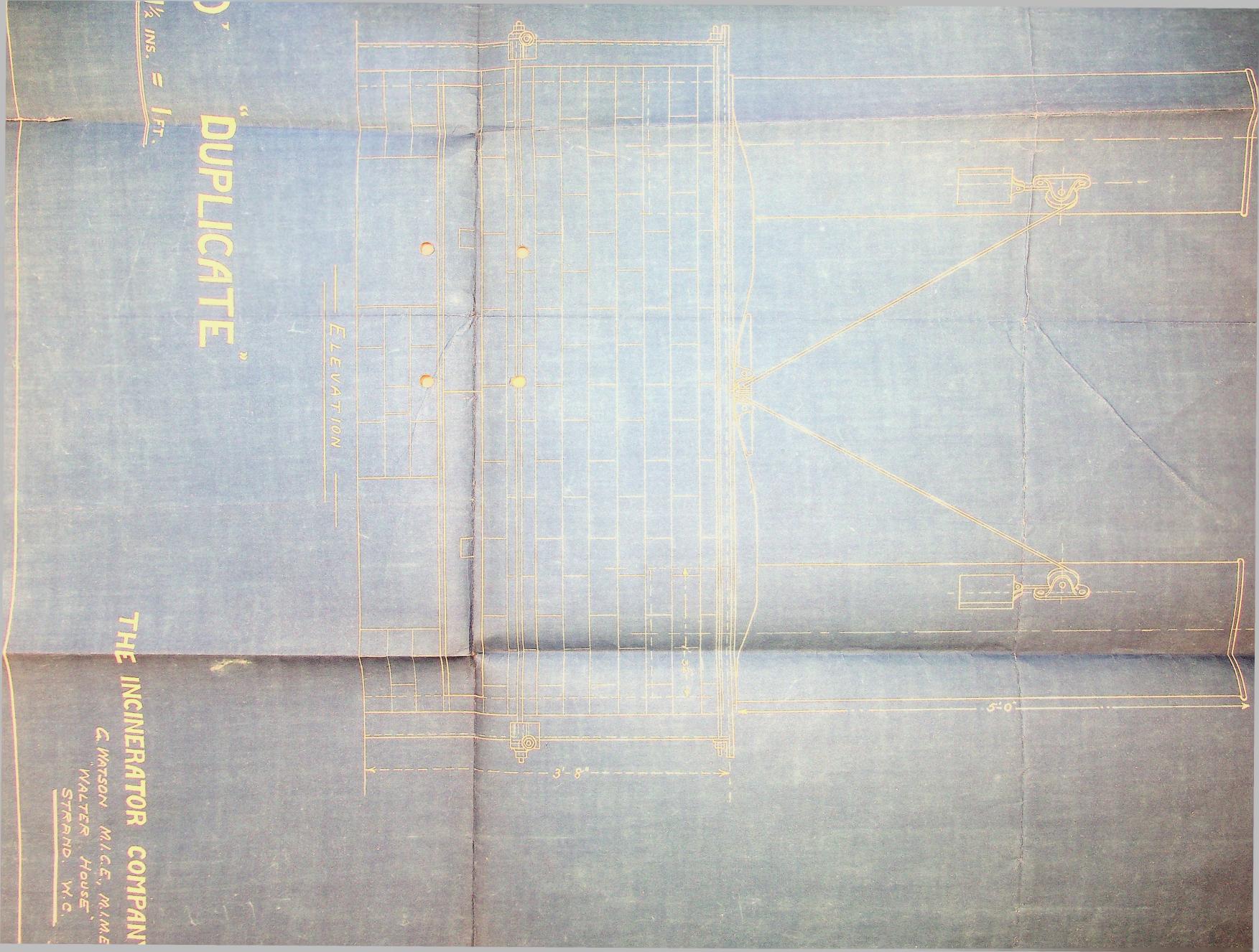
4 Cases Two 3'6" cube.

Two 5'6" x 1'6" x 1'6".

One bundle of rods 7'0" long 7 4" diam.

Gross weight 1 ton 4 cwts.





Proposed - Frangment for Inconscionator cristings to East with when wont Singh shen wy This fortion of shell offen to - Eaves to want with closed back Rendered concrete slat. Concrete retaining mill Girders Itealway to be at heart 6-6" INCINERATOR Sketch Coops Section
from West Looking Lost. y Concrete floor N.B. Rough sketch for guidance = not to scale