UTI/SAN/1#4

MEDICAL.

Board of Health.

1920.

No.

Board of Health.

SUBJECT.

192 o

C.S.

21st Sept:

Practice of dumping rubbish on the foreshore.

(1)

Suggests purchase of an Incinerator.

Previous Paper.

721/20

MINUTES.

H. E.

Submitted.

for C. S. 23/9/20.

Col. Ing: for his remarks the as form his land to gashing of an incinerator, or of the building of one locally - keeping the building of one locally - keeping in view his Sahmiake for 1921 for Expenses in connection with Scalball,

The Hon: We! Secretary.

To prepare plane so as to oftain the estimated word of con incinerator would take dometime, as data would have to be collected, I should be glad to know if H. I wishes me to go forward with this matter.

913/3. C.E. 3/3/21.

23. 9.20

Charles of

Subsequent Paper.

723/20

Submitted, for instructions to Col: Engineer.

Luckouper. A. C. S. 10/3/21.

H.C.S.

Will you plan ask the ledower scuper to advin on this proposed of the left of the light of the incidence of the mineral of the suitable of the suitabl

Hon: Col: Surgeon,

For the favour of your report please.

A. C. S. 11/3/21.

Report from Hon: Col: Surgeon, dated 15th March 1931, Encl: (2).

H.E. the Governor,

Submitted.

2. Presumably the cost will not be great, or have the Board of Health considered this, and at the present moment.

A. C. S. 15/3/21.

A. On sisternia today Cel: Scagen informed in
the it might be further to construer locally
an incincular which for practical purpless would
mus requirements of the trun: will year plan
infor this paper to Colonial Scageon for fruther
report.

2 may 1421.

Sheet No. 2

Hon: Colonial Surgeon,

For the favour of your report.

A. C. S.2/5/21.

Tax maker

Hen Celenial Secretary

The type of incinerator I would recommend is the one used in fixed camps in the Army, which could very easily be constructed locally at a small cost: sketch of which is Submitted please.

5/5/21

Celenial Surgeen

H.L. the Governor,

Submitted.

A. C. S. 9/5/21.

H.C.S.

Isili you phon ask Cd: Ingenia to

Mylan specificaling for the an

wineinerator of type shown in steph.

Hr. Cd: Ingenia a suitable bottom.

Show then specificaling an appeared

F.S.C. Inay of asked to prepare an

Shinat of corr of construction: it is

work which they can undertake.

13 has 1/21.

Colonial Engineer, Will you kindly comply with 1 & 2 of His Excellency the Governor's minte of 13/5/21. Auxhompen A. C. S.14/5/21. The Hon, Col. Secy., For the past few months particulars as to quantity and nature of Stanley refuse have been noted. 2. The average number of loads of refuse appears to be about IO loads per house per annum. Two hundred could be taken as the number of occupied houses in Stanley giving 2000 loads per annum. Half a ton is the estimated weight of the heaviest load, but the weight varies in accordance with the quantity of moisture in the refuse, making 1000 tons per annum, or 2.7 tons per day, as the approximate weight of refuse to be destroyed. The component parts of Stanley refuse are peat-ash | burnt to a fine powder), dust, bottles, metals (including tins), crockery, glass and a very small percentage of bone. The calorific alue, withthe exception of the bone, is practically nil. The carting of refuse is done at irregular intervals, the largest amount being removed duting the winter months. 3. To enable an incinerator or refuse destructor to work satisfactorily it requires that the refuse be combustible and have calorific value, such as breeze, cinders, rags, paper, straw, fibrous material and vegetable matter; also that the supply be constant. 4. Considering the nature of the refuse to be dealt with, I am of opinion that an incinerator could neither be run economically nor to advantage in Stanley. 5. From the

- 5. From the sectional elevation of suggested incinerator, prepared by the Hon. Col. Surgeon, it would appear that the plant works on the "Meldrum" system, though the uptake for the gases to pass through is not shewn. This is a most important item seeing that the gases require to heat the air, supplied to the blowers, to about 350 Fahr. so doing away withthe drying hearth.
- 6. Should it still be desired that a specification be prepared for the plant suggested by the Hon. Col. Surgeon, I should be glad if the following particulars, which are not shewn on the sectional elevation, could be given.
- A. Length and width outside measurement) of Plant.
- B. Length, width and height of furnace.
- C. Length and width of fire-grate.

RBBaseley.

Colonial Engineer.

15/12/22.

lon. [d. Imf. Refund
2 4/12/22

How Col. Secretary

suferred to the Consulli Engineer for les observations please? When peroposing this inceneral.

I meant that the anglet

Soil which curely has some alone value should be dealt with by It please. Elouice Swayer 23/12/22. Suhn illes 2 of the chief arich of calorific value for the side ale wall be night soil the proposed has better await he! Neaves recommendations which will it is under how cover provision for water trose server age Tille 29/12/12 This should awair In hums Accounter rations on 20 De412 In Tot. Day. · dr bets ttttl 20/12/22 Hum Col. Secondains notice please. 30/12/22 F. Colonine Swagen CS. In wals tittl 1/1/23

Sheet No. 4

The Hon. Col. Secy.,

Noted and returned.

P.B. Baseley.

Colonial Engineer.

2/1/23.

The Honourable
The Colonial Secretary.

The question of disposal of refuse has been dealt with in paragraphs 69 to 75 of my preliminary report on Port Stahley dated 28th February, 1925 in which the provision of an incinerator for the destruction of general household refuse (as distinct from peat ashes) was advocated. The question of incineration of E.C. pail contents was not at that time contemplated as I so strongly urged the adoption of a proper water borne sewage system for the town.

- 2. The position has however altered owing to the decision of the Executive Council at their meeting held on 29th March, 1923 that the expense of such sewage scheme could not be met, at any rate at present, although the drainage scheme is to be designed to such manner that it can ultimately be adapted to carry sewage and that the E.C. system is to be continued but on more 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.
- 3. The type incinerator I recommend is one in which has an overhead feed in which the refuse is shot on to a drying hearth situated between the furnace 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 furnace 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 handling.
- 4. The process of fractional distillation and recovery of ammoniacal liquor advocated by the Colonial Surgeon whilst admirable in suitable situations could not under local conditions be recommended as an economic proposition. The provision of forced draught either by way of steam or compressed air from a centrifugal fan or 'Roots' blower is advantageous but it is not absolutely essential to satisfactory incineration.

- 5. Whilst a suitable incinerator can be designed locally in view of local conditions regarding construction I do not recommend this course.
- 6. The Colony is totally lacking in natural resources in way of brick, firebrick or iron or steel and practically the whole of the materials (with the exception of aggregate for concrete foundations) would have to be imported, a dowing to the scarcity of skilled labour or modern workshops I do not consider that any advantage would be gained over the practical course already proposed in paragraph 75 of my preliminary report above mentioned of obtaining competitive tenders for supply from one of the several English firms who specialise in this class of work, and whose wide experience doubtless covers destruction of refuse in places where peat is the commonly used fuel.
- 7. I attach specification and submit that tenders for supply of an incinerator be invited through the Crown Agents from the following firms:

Messrs Manlove & Alliott & Co: Ltd:, Broomsgrove Works, Nottingham.

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

Messrs Meldrums Ltd:, 108 Victoria Street, Westminster, S.W.1.

Messrs Heenan & Frowde Ltd:, Worcester Engineering Works, Worcester.

 $\phi$  Wakers of the Horsfall Destructor.

8th August, 1923

AsseM. Inst. C.E.

An letter to CA. please regionship

them to call for knows on the lines of

the diefor that this two much

will be glad to preceive the knows for

consideration, as in the above of knowledge as to

cost, it has not yet then definitely decided to the 13/2012

Inside Minute Paper.

Sheet No. 5.

SEE UTI/PWD/1418

Sutting of "hieldrim Refuse Steetructors and Water Steater, Eucl. 4)

Specification for incrinerator Eucl. 5.

Letter 6 Crown agents, 16/8/23. Eucl. 6.

BOARD OF HEALTH, STANLEY.

21st September 1920.

Sir,

that at a meeting of the Board of Health to inform you that at a meeting of the Board held on the 20th instant, the present method of disposing of the Town's refuse was under discussion. The Board are strongly of the opinion that the practice of dumping rubbish in a heap on the foreshore is insanitary. Further a rubbish heap (besides being unsightly) is without doubt a breeding place for rats, and it will be useless to attempt to exterminate rats as long as the present system of dumping rubbish is continued.

2. The Board therefore desire to recommend to the Administrator that a proper Incinerator be produced from England, and erected on a suitable site at the east end of Stanley. All rubbish, refuse, offal, and other offensive matter could then be dealt with in a manner entirely satisfactory, and the Board have no doubt that the general health of the people would be greatly benifited thereby.

I have the honcur to be.

Sir.

Your obedient servant,

THE HONOURABLE

THE COLONIAL SECRETARY,

STANLEY.

Ag.Clerk to the Board.

· 13: 2"

2

## Hon Cel Secretary

Report on incinerator please-

- (I) The proposal to erect an incinerator is undoubtedly a good one.
- (2) The type of incinerator I would recommend is
  the installation which aims at destroying
  organic matter by a process of fractional
  distillation, the final product of which resmbles
  coke. The gases are aspirated off by means of a
  fan and are condensed, with the recevery of a
  valuable ammeniacal disinfectant and sufficient
  oil to work the oil-engine. The men-condensible
  gas is highly combustible and is led into a
  hopper where it is used to burn off the coke-like
  product of the distillation process. The oil-engin
  supplies all the power required to make the
  installation wheely self-supporting when once the
  cycle has been fully established.

Celenial Surgeen

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