INTERNATIONAL COURT OF JUSTICE

CASE CONCERNING SOVEREIGNTY OVER
PEDRA BRANCA / PULAU BATU PUTEH,
MIDDLE ROCKS AND SOUTH LEDGE
(MALAYSIA / SINGAPORE)

MEMORIAL OF
SINGAPORE

VOLUME 3
(Annexes 31 to 60)

25 MARCH 2004
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Annex 31

Letter from the Court of Directors of the East India Company to the Governor General of India in Council dated 5 Sep 1849
Para: 1 Your letter No. 3 dated 3rd March last on the subject of the proposed Horsburgh Light House, informs us that the cost of that Building which originally was not expected to exceed 7000 Dollars, or Rs. 15,750 is now estimated at Rs. 29,417 exclusive of the cost of a lantern, which together with other expenses, will raise the total amount to Rs. 50,917 and this does not include the conveyance of the workmen and materials for which it is proposed that the Government shall be responsible. It is evident that even this increased estimate which is subject to several contingencies is very likely to be considerably exceeded in a work of such difficult construction.

2. The increased charge has been occasioned by the selection (made after communication with the Lords of the Admiralty) of the Island of Pedra Branca instead of Peak Rock, as the site of the Light House, the former being not only much more distant from Singapore and much less accessible, but being also so much more exposed to the influence of the waves during the North East Monsoon, as to render it absolutely necessary that the Structure should be "entirely faced with granite set in Cement", with a back work of
"Note
The Report of the Gov' Surveyor dated Singapore 8th March 1848 states it thus –
"Ashlar Masonry set in Cement for the facing of the Building with a backing of Brick set in common Mortar inside."

*Masonry instead of being composed of brick and Chunam Materials which would have sufficed on Peak Rock which is situated on the Northern Shore of the Straits.

3. The subscriptions hitherto received for the Light House amount to Rs. 22,194 leaving a deficit of Rs. 28,723, which you propose should be advanced by Government, and to ensure repayment of this loan, you further propose that the duty authorized by us to be levied on Vessels touching at Singapore or clearing out from Indian Ports to China or the Eastward of Singapore should be raised from one rupee to two dollars or 4 ½ rupees per 100 tons.

4. As the smaller rate would be quite inadequate to meet the expenses of a Light House on Pedra Branca and as there seems no more unobjectionable mode of providing for its construction and maintenance than the imposition of a suitable tonnage duty on Shipping, we authorize you to levy a duty as soon as a light is exhibited on that Station: but as we have no doubt that the expense will exceed the amount you have estimated we direct that a Tonnage duty of 2 ½ Dollars per 100 Tons be levied on the Shipping above described.

London
The 5th September 1849.

We are
Your affectionate friends.

A Galloway
J Sheperd
J Cotton
W L Meville
R Jenkins
C Mills
W H Sykes
The
Company's Letter to the Governor General of India in Council
No. 3 of 1849.

Via Marseilles & Bombay

Sd/...... ...... 20/10

...... ...... ...... 

Reply to Letter No. 3 d/ 3 March /49 respecting the expense of building the proposed Horsburgh Light House on Pedra Branca, and authorize levy of tonnage duty on Vessels touching at Singapore or clearing out from Indian Ports to China or the Eastward of Singapore of 2 ½ Dollars p. 100 tons.
Marine Department

No. 3 of 1849

Our Governor General of India
in Council

Par. 1. Your letter No. 3, dated 2d March last on the subject of the proposed Stonburgh Light House, informs me that the cost of that building will not exceed 7,000 Dollars, or Rs. 1,500, is now estimated at 1,394.47 exclusive of the cost of a foundry which, together with other expenses, will raise the total amount to Rs. 20,509.7 and this does not include the cost of the workmen and materials for which it is proposed that the Government would provide.
Government shall be responsible. It is evident that even that increased estimate which is subject to several contingencies is very likely to be considerably exceeded in a work of such difficult construction.

3. The increased charge has been occasioned by the selection (made after communication with the Lords of the Admiralty of the Island of Benbecula) of the site of the Rock, as the site of the Light House. The former being not only much more distant from Singapore and much less accessible, but having also so much more exposed to the influence of the waves during the South-East Monsoon. It is necessary that the Structure
Structure should be entirely faced with bricks set in cement; with

Note

The report of the late Mr. Whitaker, civil engineer, and of Surveyor, dated Singapore, instead of being composed of brick and cement, states that Materials which have been used for the scantling would have sufficed of the Building within one month Rock, which backing of Brick set in cement on the

Northern Island of the

3. The subscriptions letters received for the Light House amount to £22,194 leaving a deficit of £20,725, which you propose should be advanced by Government, and to ensure repayment of the loan, you further propose that the duty authorised by us to be levied on Purse trading at Singapore is to be sent to English ports.
to China or the estuary of Singapore should be
remitted from one neree to two dollars or 6½
nerees per 100 tons.

As the smaller
rate would be quite inadequate
to meet the expense of a
Lighthouse on Pedra
Vermelha and as there seems
no more objectionable
mode of providing for its
construction and maintenance
than the imposition
of an suitable tonnage duty
on shipping, we authorize
you to levy a duty as soon
as a light is established on
that Station, but as we
have no doubt that the
expense will exceed the
amount you have estimated
we direct that a tonnage
duty of 3½ dollars per
100 tons be levied on
the Shipping
above.
above described. We are Your affectionate friends,

Hackett

of the firm

W. Litchfield

Gentlemen,

W. F. Litchfield

W. J. Birtwhie

Mr. J. Masters

Mr. R. Monument

Mr. D. Mugler

John Masters

G. Monument

London

Mr. 5th September 1849.
O. 25 Oct. 1849

Marine Dept
5th Oct. 1849

The
Company's Letter to the Governor General of India in Council
5th Oct. 1849

Rt. Hon. Lord...

Reply to letter No. 3 of 3 March for copies of the plans relating to the proposed fortification of Fort St. George. The Governor-General of India in Council authorized the levy of a tax of 1/2 shilling per ton on all vessels touching at the fort. This tax was levied by the Danish Government.

What is the rate of this tax?
Annex 32

Letter from Grey W. (Under Secretary to the Government of India) to Seton Karr W. (Under Secretary to the Government of Bengal) dated 27 Oct 1849
Date: 27 Oct 1849

No. 607

From

W. Grey Esqr

Under Secretary to the Govt of India

To

W. Seton Karr Esqre

Under Secretary to the Government of Bengal

Dated the 27th October 1849

Home Department

Sir,

With reference to the correspondence noted in the margin*, I am directed by the President in Council to transmit the accompanying copy of a Despatch from the Hon'ble the Court of Directors, No 3, dated 5th September 1849, relative to the construction of a Light House on Pedra Branca, and to request that authority may be given to the Governor of Singapore for the immediate commencement of the building.

2. It will be observed that a duty of 2½ dollars per 100 tons is to be levied on the shipping as soon as the Light House is
completed. A Law will be necessary for the purpose and Colonel Butterworth should be directed to take an early opportunity of submitting the draft of an Act containing such provisions as may be deemed requisite.

Council Chamber
The 27th Oct' 1849.
I have &ca
/Sd/ W Grey
Under Secretary to the Govt of India
[Handwritten text]
Annex 33

Letter from Seton Karr W. (Under Secretary to the Government of Bengal) to Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) dated 12 Nov 1849
Date: 12 Nov 1849

No. 784

From
The Under Secretary to the Government of Bengal

To
Lieut' Col' W. J. Butterworth
Governor of Prince of Wales Island, Singapore and Malacca

Dated Fort William, The 12th November 1849

Sir,

With reference to the letter from this Office No. 314 dated the 19th April last, I am directed by the Deputy Governor of Bengal to transmit a copy of a communication from the Under Secretary to the Government of India in the Home Department, No. 607 dated the 27th Ultimo, and of its enclosure, from the Hon'ble the Court of Directors, and to request that you will take immediate measures for commencing the construction of the Horsburgh Light House on the Island of Pedra Branca.

2. His Honor also requests that you will submit the Draft of an Act for the purpose of legalizing the duty proposed to be levied on the shipping, as soon as the Light House is completed.

I have the honor to be
Your most obedt Servant
Sd/ W. Seton Karr
Under Secretary to the Govt of Bengal
From the Office of the Secretary of War

A. J. C. C.

To the Secretary of War

A. J. C. C.

To the Secretary of War

A. J. C. C.

Marin

J. H. C.

From the Office of the Secretary of War

January 1, 1819

To the Secretary of War

In the name of the President of the United States

J. H. C.

To the Secretary of War

J. H. C.
Annex 34

Letter from Thomson J.T. (Government Surveyor at Singapore) to Church T. (Resident Councillor at Singapore) dated 20 Dec 1849
Date : 20 Dec 1849

No 32

To the Honorable
T. Church Esquire
Resident Councillor

Sir

I have the honor of acknowledging the receipt of your letter No. 1217 of 1849 with annexed copies of letters from his honor the Governor No. 510, from the Under Secretary to the Gov. of Bengal No. 784, and from W. Grey Esq., Under Secretary to the Gov. of India No. 607 containing a copy of a despatch from the Honorable the Court of Directors No. 3 of Sept 1849, relative to a Light house on Pedra Branca, and sanctioning its immediate construction, under the designation of the "Horsburgh Light house" according to plans, specifications and estimate forwarded with my letters No. 19 and 20 of 1848 and further doing me the honor of intrusting its erection to my care.

In reply to your letter No. 1217 I beg leave respectfully to state that the two months and ten days that now intervene between this and the first of March, on which the building will be commenced will be fully occupied in making the requisite preparations – my absence at Malacca would consequently postpone the commencement of the work for as many days and months as I might be at Malacca. Further nothing could be done to the Survey of Malacca until the Instruments indented for an account of that Survey had arrived from Bengal, which will probably not be before the 1st of February and a further period of 3 months would be required to teach the measurers, and after they had been taught, they could not be left to themselves without a surveyor to direct and check their operations. I am consequently of opinion that no benefit would result by my proceeding to Malacca for the purpose of commencing that Survey.
The preliminary operations of the Light House that will be made during these 2 months and 10 days are as follows — 1st making model of Light house for guidance of Chinese workmen 2nd drawing up specifications, contract and agreements. 3rd In drawing plans of Cupola and Lamps &ca for transmission to Europe. 4th Constructing Derricks and stone lifters. 5th Fitting up Gun boats for the purposes for which they will be required, and having them thoroughly repaired, so that their deficiencies may not be the cause of stopping the works in the midst of operations. 6th erecting Carpenters and Blacksmiths shops near my dwelling for the purpose of having materials worked up under my own eye. 7th in making experiments in Cements so as to enable me to choose the most superior. 8th in making arrangements to procure Chinese stone cutters from China. 9th in preparing houses for self and workmen to be fixed on the rock — and many other minor details for all of which there is barely time left — between this and the 1st of March — but all of which must be carefully considered so that the progress of the works may not be detained for want of foresight in this period of the undertaking.

With Reference to the Honorable the Governor's letter No. 510 above mentioned, I beg leave to state that I have communicated with the Contractor, and it is so far settled, that he will undertake the masonry and brick work and most of the Carpentry, Ironwork and copper work which of course will be specified in detail in contract documents — for the sum of ten thousand five hundred Spanish Dollars. The name of the Contractor is Choa Ah Lam, and in a few days he promises to produce sufficient securities when the contract will be definitely settled.

I beg leave respectfully to make known to his honor the Governor that every caution and care will be used and no personal exertions spared to secure stability and permanence to a work in which my character and future good standing is so seriously involved. The gratifying assurance of his confidence I consider more than half the battle against the difficulties attending an unusual work of this kind, for with this in my fortunate possession, should these difficulties be encountered and such works are
seldom free of them during their progress/ whether from accident or by the action of the elements/ I will be able to act with vigour and without the tardy vacillation which under less propitious auspices would be the constant attendant on every operation.

I shall have great pleasure in communicating personally with Major Faber - at all times, and shall be grateful for any suggestions that his long experience may offer and such as may be adopted will be as thankfully acknowledged on the successful completion of the work. I will also greatly desire personal communication with Capt. Man whose great experience in the manufacture of cements and the blasting of rocks puts him in possession of a fund of most valuable knowledge applicable in the progress of the structure. In many operations that can only be successfully performed by practical Seamen I will be under the greatest obligations to Captain Congalton for advice and assistance as far as he can consistently render them.

Regarding the towage of materials from Singapore to Pedra Branca which is an important part of the undertaking for which the Govt will be responsible, and upon which subject misapprehension might arise were the part to be performed not sufficiently detailed and which misapprehension might be the cause of great loss to the Contractor and detention of the works – I will briefly recapitulate what is expected by the contractor of the Govt. 1st In sending materials from Singapore to Pedra Branca – the Contractor will deliver over his lighters to the steamer at the anchorage in Singapore roads and from whence they will be towed to Pedra Branca, and secured to a Buoy close to that rock, where again the contractor will take delivery of the lighters after they are unloaded the lighters will be attached to the buoy (sic) and from thence taken by the steamer to Singapore roads – or 2d if to Point Romania, where sand and wood will be procured the steamer will tow the lighters to the anchorage there from whence the contractor will carry them to the shore and after they are loaded, deliver them at the anchorage of the steamer from whence they will be towed and secured to the Buoy (sic) at Pedra Branca and so on - of course the Commander of the steamer will take care to only venture out with the lighters during the day at the rock, so that they may be unloaded
and secured to the steamer before night, as a loss of the lighters and cargo might be incurred during the heavy squalls or Sumatras – were they to remain at the rock or Buoy (sic) during the night. But there is no doubt that Capt. Congalton’s experience will easily show how to avoid accidents in this way – tho’ it may be here stated that such accidents may be expected to occur.

Regarding the two Gunboats that will be required during the operations, one will be required to be fitted up for my accommodation, and for which purpose I would respectfully ask the favor of your obtaining a survey report from the Master attendant, so that all necessary alterations may be effected. Both Gunboats will require to be decked over, and I would respectfully suggest that they be thoroughly examined so that all necessary repairs may be effected before the first of March, so that a want in this department may not be a cause of detention. The second gun boat will be principally required for procuring water and provisions from pt Romania and Singapore and for the carriage of work men.

It would much facilitate operations and give great confidence to the workmen, which is a very desirable object, should the steamer Hooghly remain near the rock for the first month or so, until everything be set agoing properly, after that her services would only be necessary when building materials were to be sent out to the rock - at the first setting out too it would be of great assistance could she convey planks, attap and spars so as to effect our quick establishment in houses on the rock these being the materials of which they will be composed. I hope this can be acceded to.

While I have no alterations to suggest on the plan of the solid part of the structure which was designed more to the view of strength than to any other object, and while I can state with considerable confidence that the estimate will not be exceeded in this part, as nothing was spared to make this part complete – still as the Honble the Court of Directors have made arrangements in full anticipation of the estimate being exceeded and as I exercised the severest economy in the interior fittings – I would humbly suggest that they be now of a superior style than that originally contemplated
as being more in accordance with the spirit of the undertaking now that there is not the same object in reducing everything to its lowest limit of expenditure, that originally was the case when the structure was planned. I would recommend particularly that the visitors' room, the stairs and other lesser conveniences – be fitted up in better style than originally designed.

As immediate measures will now be taken to commence this long desired undertaking, and the actual work of constructing apparatus &ca will commence on the first of January, not to mention other measures that have been already set agoing, I would humbly solicit the favor that the extra monthly allowance to my salary of 150 Rupees, so kindly acceded to by Govt may be allowed to commence from the 1st of January – also that I may be allowed to engage an overseer from that date on 100 Rupees per mensem.

I think I have touched upon every subject now requiring immediate attention – as occasion may require I will ask for the assistance of such departments of the Local Govt may be able to aid the undertaking so kindly ordered by his Honor the Governor –, and trusting that this letter will meet with your approval and also of his honor the Governor to whom I would beg the favor of your forwarding it.

Singapore
20th Dec 1849

I have the honor to be
Sir
Your most obed' Serv'
Signed J.T. Thomson
Govt Surveyor
1849
Government Surveyor
20 December

Relative to the construction of
the Light House on Pedra Branca &ca.
To the Amicable
J Church Esq
President Councill

I have the honor of acknowledging the receipt of your letter of 1st July 1868, which contains a copy of a letter from his honor the Governor 
Mr. S. from the Under Secretary to the Govt. of Bengal, dated, and from Mr. Greg, Esq.,
Under Secretary, to the Govt. of India, of 3rd September 1869,
containing a copy of a despatch from the Amicable the Court of Directors, dated 3rd September 1868, relative to a Light-house on the Brama, and sanctioning its immediate construction, under the designation of the "Government Light-house," according to plans, specifications & estimates forwarded with my letter dated 20th January 1869 and further stating, in the honor of instructing its execution to his care.

In reply to your letter of 1st July 1869, I beg to respectfully state that the best months and two days that were interposed between this and the 31st of March - in which the building will be commenced - will be fully occupied in making the requisite preparations, my absence at Allahabad having, consequently, postponed the commencement of the works for as many days and months as I might be at Allahabad. Further notice could be given to the Surveyor of Allahabad until the instruments required for an account of the latter had arrived from Bengal - which will probably not before the 1st February and a further period of 3 months would be required to teach the Surveyor and after they have
I now make a general description of the manufac-
ture of iron. The first part has an account of a pound of 
iron and its various forms of the structure. 

In my opinion, that part may be best performed by practical men. I will here 
write only the general directions to Capt. Baggha 
in order to assist you as far as I can con-
ductively render them.

Regarding the storage of materials for 
ships' stores, I find a formal - which is an insu-
ficient part of the undertaking for which the 
first will be responsible, and from which ab-
sent, independent and upright goods were the 
part to be performed with sufficient attention, 
which misapprehension might be the cause of 
great loss to the Company's and detention of the 
ships. I will briefly recapitulate what is 
expected by the Contractor of the lot. 11 in 
landing materials from Singapore to Rades 
Brookes. The Contractor will deliver the 
lighters to the steamer at the anchorage in 
Singapore, roads - from whence they will 
be taken to Rades. The Contractor will also 
be placed to that dock house, where again the 
Contractor will take delivery of the lighters 
after they are unloaded. The lighters will be 
transported to the buoy and from thence taken 
by the steamer to Singapore, roads - or to 
Pondicherry, where land and service will 
be purchased. The steamer will then land and 
to the anchorage there, from whence the 
Contractor will carry them to the shore, and 
after they are loaded, deliver them at the 
anchorage of the steamer, from whence they
with the tide and run up to the Battery or
change the Commander of the Battery and take care to only con-
tinue out until the lighted during the day
at the depth, that they may be noticed
as soon as it is safe to the batteries before night on a
less of the lighted, and common might the annual and all accidents that
may be noted in all the work or Battery during
the night. But there is no doubt, that a few
Council's experience will easily show how
to avoid such accidents in this way. This it may
be sure that such accidents may
be expected to occur.

In regard to the two steam boats that will
be required during the operations, one will be
required, to be fitted up for my accommodation
and for which purposes I should respectfully
ask the favor of you, obtaining a survey report
from the proper authorities, so that all
necessary alterations, may be effected
with the boats will require to be checked over
and I would respectfully suggest that they
be thoroughly examined that all necessary
repairs be done to be completed before the end of
the month so that is not in this department
may not be a cause of detention. The steam
boat will be principally required for
pursuing events or forwarding from the
Connaught, and for the Carriages
of such men.

It is, without further specific operation,
not great confidence to the meetings, which
are very desirable objects, would be the same
throughout, requiring near the clock for the first
month.
...until everything held well together. Afterwards, after that the pieces could be used and not made to break. A sectional view or sectional view in the wall, in the first instance, to be made, it would be of great assistance.

The drawing placed, always respecting the object, and in effect not being established in hand, the work, the whole, the material of which they will be employed. I hope this can be remedied.

While I turn my attention to larger plans of the different part of the church, which was designed ever to be more strong and to another object, while I am also, with considerable confidence, that the estimate will not be exceeded in this part—no nothing was done to make this part complete. But just at the Church of Christ, at the Church of Christ, I have made arrangements in anticipation of the estimate being exceed and as I exceeded the budget of economy in the interior fittings—I would strongly suggest that they be now of the same object, that originally contemplated, in being done in accordance with the spirit of the architect. I think now that this is the same object, the placing and joining to its lower height of upper stories, the originally kept the work when the structure was planned. I would recommend particularly that the stairs, the steps, the letter and window to be fitted up in a better style than originally designed.

The immediate improvements will not, therefore, commence their long desired object, and the actual work of constructing apparatus will not commence...
on the first of January and to maintain the measures that have been already adopted, I would humbly solicit the favor that the same monthly allowance to my salary of 155 Rupees may be kindly accorded to me that may be allowed to commence from the 1st of January, also that I may be allowed to engage in overseers from that date on 150 Rupees per month.

I think I have touched upon every subject now requiring immediate attention as regards my request I will ask for the assistance of each department of the Local Board as may be able to aid the undertaking so kindly ordered by his Honor, the Governor, and to stating that this letter will meet with your approval I also of his honor the Governor I would beg the favor of you forwarding it.

I have the honor to be
Your most obedient,

Singapore 20th Dec 1849

[Signature]

San Domingo
Annex 35

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Church T. (Resident Councillor at Singapore) dated 24 Dec 1849
To,

The Resident Councillor
at Singapore

Dated Singapore 24th December 1849

Sir

I have the honor to acknowledge the receipt of your letter under this date, with its enclosure from Mr Thomson the Government Surveyor, relative to my order delegating the task of constructing the Horsburgh Light House to that Gentleman.

The steamer and larger Gun Boat will be available for conveying materials supplies &ca to Pedra Branca for the work People to be located there, and if additional aid be required the Gun Boat from Malacca will be called for.

The extra allowance granted to Mr Thomson whilst employed on the Light House, as also that for an overseer will commence from the 1st January next, and you are hereby authorized to make such advances on account of the Horsburgh Light House as may be necessary.

I have &ca

Sd/ W J Butterworth
Governor

24th December 1849
The Chancellor for the Colony of New South Wales, as represented in this assembly, has been pleased to appoint me as Minister under the said Colony, to act in the administration of the Business of Medicine.

I have this day

Carlton

22nd December 1819, Exeter

No.

The Resident Gentlemen

at Exeter

H.E. the Governor and Commander of the Forces of the Colony of New South Wales

This is to certify that I have received a letter under the date and year

From the Governor & Commander-in-Chief relative to the subject alluded to.
the table of constructing the ship which is to be built by Mr. Hamilton.

The timber and labor will be available for covering the work, and sufficient to execute the work, and the vessel will be ready to sail as soon as is required. The name and form in which she will be called for.

She will be named "The Constellation" and will be placed on the right hand side of the port for an observer to commence from her. The command at hand and you are hereby authorized to sink such steamers as may be necessary.

Chase 1825

Wm. Hamilton

Seaport
Annex 36

Letter from Thomson J.T. (Government Surveyor at Singapore) to Church T. (Resident Councillor at Singapore)
dated 26 Dec 1849
Date: 26 Dec 1849

To the Honorable
T. Church Esqre
Resident Councillor

Sir

In Continuation of the subjects noticed in my letter No. 32 of 20th Dec', regarding the proposed Horsburgh Light house, I have the honor of informing you that I have carefully considered the most eligible means for the procuring of the Lamps, Lantern and machinery which his honor the Governor directs should be executed in communication with "one of the eminent parties of the Mother Country versed in such matters with a view of determining the light and the timely construction, of the necessary apparatus". I beg leave to state that I heartily concur with his honor the Governor that so important and delicate a part of the undertaking, can not be safely intrusted to any engineer, that is not of the most undoubted respectibility (sic) and whose qualifications have already been fully tested in the mother Country. The subject is so important that it has enlisted the efforts of the most eminent men of science in Europe.

The Gentleman whom I proposed as the most proper person to be intrusted with this part of the undertaking in my letter dated 24th May 1848 was the Engineer to the commissioners of the Northern Lights which office is held in the person of Mr. Allan Stevenson, son of the most Eminent Light house Engineer of the present century and himself ranking amongst the first of his profession by the successful completion of the Sherryone Light house, I would again humbly make the same proposition and solicit the authority of government to my at once entering into communication with this gentleman not only for the purpose of taking his opinion as to the nature of the Light and
requesting him to determine it for which purpose I will forward charts of the Straits of Singapore but requesting him to engage Mechanical Engineers to construct the Lantern, Lamps Machinery &ca also to request his personal superintendence and attention until the whole be completed and securely packed and shipped for Singapore by pursuing (sic) this mode I feel confident that the lighting apparatus will be of the best description now manufactured, to which the latest improvements will be adapted, and that the skill and experience for which Mr. Stevenson is so eminently known, will be a complete guarantee that the light when shown on Pedra Branca will give every satisfaction to the maritime public.

In the employment of an Engineer it will be necessary for me to give references in England to parties who will supply the funds when requisite, in this matter. I would humbly suggest that I be either permitted to transact the monetary business thro' a Singapore firm whom the Gov' will appoint, or that the honble the Court of Directors be moved to make the advances to Mr. Stevenson or his assigns when such are necessary, limiting the amount in the meantime to the sum of one thousand five hundred pounds sterling £1500.

I have the honor to be

Sir

Your most obed' Servant

Signed. J T Thomson
Gov'. Surveyor

Singapore 26th
Dec° 1849
1849
Government Surveyor
26' December

Respecting Lamps, Lanterns &ca, required for the Horsburgh Light House on Pedro Branca
The difference between the past and the present

Light may serve as a reminder of the power of change.

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I  

I am not sure what you meant on this paper. I'm sorry to make my experience feels. It's hard to understand the instructions. If you could provide more context, I would be a lot more helpful.

I've also noticed that the paper seems to be discussing some kind of a relationship or interaction between two entities. It's hard to make sense of it without more information. If you could provide more details, I would be more helpful.
to the sum of one thousand pounds sterling

I have the honor to be

Sir,

Your most obedient

Singapore 26th Dec 1849

[Signature]

J. C. S. Surveyor
Respecting camps, new lighthouses, &c., for the North Cape &c., on Pedro burns.
Annex 37

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Court of Directors of the East India Company dated 27 Dec 1849
To J.G. Melvill Esqre
Secy. to the Honble the Court of
Directors of the East India Company
East India House - London.
D/ Singapore the 27th Dec. 1849.

Sir,

With reference to the despatch from the Honble the Court of Directors under date the 5th Sept. No. 3 of 1849, to the Govt. of India, sanctioning the construction of a Light House on Pedro Branca in the China Seas, I have the honor very respectfully to transmit the copy of a letter from Mr. Thomson, the Gentleman entrusted with the work, and to solicit that the advances required by Mr. Stevenson, the Engineer selected to superintend the preparation of the Cupola and Light may be made by the Honble Court.

Should the advance of so small a sum be likely to cause trouble or inconvenience in the adjustment of the accounts with India, I shall be prepared to remit the amount so advanced, either by Navy or Labuan Govt. Bills, and I hope to be pardoned, if I have made an irregular request, which has been dictated solely by the difficulty, risk, and expense of negotiating through the Houses of Agency in these small stations.

The work to be executed is of such importance to the safety of the Mariner, that I am persuaded, in the event of the amount (£1500) determined upon for the Light proving insufficient, the Honble the Court will not refuse their countenance to any additional outlay that may be recommended by Mr. Thomson.
I have the satisfaction to report that arrangements have been made to commence on the Building in March next.

The 27th Decr. 1849

I have the honor to be etc.

Sd/ W.J. Butterworth
Governor.

(True Copy)
Sd/W. J. Butterworth
Governor.
I think I have treated upon every subject now requiring immediate attention, as occasion may require, and shall ask for the assistance of such Department of the local Government as may be able to aid the undertaking. I hereby send you a copy of the letter I have written to the Governor, and trust that this letter will mesh in the usual formalities of this House, the Governor to whom I would beg the favour of your forwarding it.

Singapore 22nd Dec. 1869

I have the honour to be

Yours sincerely,

[Signature]

J. C. Butterworth
Governor

To J. R. Marshall Esq.

Dear to the Honble the Court of Directors of the East India Company,

East India House — London.

To Singapore the 22nd Dec. 1869.

Sir,

With reference to the despatched from the Honble the Court of Directors as directed on the 5th Feb. 1869, to the Gov. of India, sanctioning the construction of an Lighthouse on Cape Penman in the Bombay tass, have the honour to respectfully to transmit the copy of a letter from Mr. Thomson, the gentleman interested with the work, and to state that the advances required by Mr. Thomson, the Engineer selected to superintend the preparation of the plans and design may be met by the Vote.

I would advert, on the advance of the same, to the likelihood of cause or inconvenience in the adjustment of the coasts with India, should be prepared to meet the

[Signature]
amount be advanced, either by Mr. Salmen, Mr. B. and B. to be proceeded, if I have anything irregular requested which has been directed solely by the difficulty, risk, and danger of negotiating through the

House of Agency in these small states

The worst is the exposure is of such importance to the safety of the learned that I may persuade, in the event of the amount (as 1000) determined upon for the light being insufficient, the Council will not refuse their assistance to any additional out

by that may be recommended by the House of Council.

I have the satisfaction to report that arrangements have been made to commence on the 27th of March next.

I have the honour to be,

M. J. Butterworth
Governor.

Abstract from the Minutes of a Meeting of the Committee of the Singapore Chamber of Commerce held on the 19th Dec 1849.

A letter from the Council to the Governor A.330, dated the 19th of the month and the receipt of the information with its enclosure was read from which it appears that the Council of Directors had authorized the construction of the Esnallagh Light House on Pulau Koa, to be commenced, and directing that a duty of 12 dollars per 100 tons should be levied on all shipping at Singapore, or clearing out at Indiam

Ports to China, or the coasting of Singapore, to meet the expenses of this Light House, and the compliance with the amount of the amount required in this behalf.
Annex 38

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Church T. (Resident Councillor at Singapore) dated 29 Dec 1849
No. 542

To The Resident Councillor
at Singapore
Dated Singapore 29th December 1849

Sir,

I have the honor to acknowledge the receipt of your letter of this date No 159 with its enclosure from the Master Attendant, showing the repairs necessary to the Gun Boat "Charlotte", and the alterations required consequent on her employment with the officer entrusted with the construction of the Light House on Pedra Branca.

I beg that the repairs and alterations may be forthwith effected and the latter debited against the Expenses attending the construction of the Light House on Pedra Branca.

I have &ca

Sd/ W. J. Butterworth

29th December 1849

Governor
The submarine was engaged in the mouth of the Firth of Forth on the 20th of September, 1860, to prevent the entrance of the enemy's vessels. The nearest land was distant about 100 miles, and the weather was extremely bad. The gunners were ordered to open fire on the enemy's vessels as soon as they entered the Firth of Forth.

John Brown

20th December 1860

To the Executive Committee,

At 10 a.m. on the 3rd of December, the submarine entered the Firth of Forth and opened fire on the enemy's vessels.
Annex 39

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Seton Karr W. (Under Secretary to the Government of Bengal) dated 13 Feb 1850
Date: 13 Feb 1850

No. 22

To

W. Seton Karr Esquire

Dated Singapore 13th Feby 1850

Sir

I have the honor to acknowledge the receipt of your letter under date the 12 November last No 784 with its enclosure from the Government of India giving cover to a despatch from the Honble the Court of Directors authorizing the immediate construction of the Light House on Pedra Branca to be called after the celebrated Hydrographer James Horsburgh Esquire.

2. Immediately on receipt of the above communication, I called upon the Government Surveyor Mr. Thomson to ascertain if the original Contractor "Choa Ah Lam" was still willing, giving good security to undertake the Work agreeably to the Plan Specifications and Estimate submitted by Mr. Thomson, approved of by the Superintending Engineer and forwarded to Government under date the 12th June 1848 No 72.
3. The accompanying Copy of a letter* from Mr. Thomson will show that all preliminary arrangements have been made with the aforesaid Contractor to commence on the Work in the early part of March next, and I have accordingly authorized the extra Establishment sanctioned by the Honble the Court of Directors, to be drawn from the 1st Instant, to ensure the preparation of Models &ca, as also such advances as the Contractor may desire for bringing Masons from China, who will be located on Pedra Branca, from which Rock the Blocks of Granite for the facement of the Light House will be prepared, and I have every reason to believe under the able superintendence of Mr. Thomson, who is thoroughly conversant with the management of the Chinese workmen, that the Light House will progress rapidly and successfully.

4. The great distance from Singapore, of the Rock on which the Light House is to be erected, and the exposed position render the task of superintendence, one of great bodily fatigue and exposure, but I have every confidence in Mr Thomson who is well inured to the Climate, and as previously observed most intimate with

*Vide enclosure to a letter from the Resident Councillor at Singapore d/24 Dec 1849 No. 156.
the habits, manners and customs of the people, indeed as the Superintending Engineer observes in his letter under date the 6th of June 1848, forwarded with my communication to your address of the 12th Idem, No.72, "The Gov' Surveyor, who alone in these Settlements possesses the practical knowledge of Building, familiarity with the language, the sway and control of the Chinese Head Men and Subordinates, and Acquaintance with the resources of Singapore necessary to ensure success without considerable increase of expense."

5. Mr Thomson would desire to add in a trifling degree to the comfort and convenience of the Visitors Room, and to make the fittings up of the interior of the Building, somewhat better than was originally proposed, and as this will cause but little further outlay on the Building, I have ventured to authorize his giving the necessary orders for such articles, from the Home Market.

6. The difficulty and risk, of negotiating through the Houses of Agency in these Small Stations, induced me to comply with Mr Thomson's suggestion for requesting the Honble the Court of Directors to make
the necessary advances to the Engineer entrusted with the preparation of the Cupola and Light. A copy of my communication* to the Sec'y at the India, I beg respectfully to enclose, and to express a hope that the course I have pursued will meet with the approval of the Hon'ble the Deputy Governor of Bengal.

7. I take this opportunity of submitting for the consideration of Government, the accompanying Extract* from the proceedings of the Chamber of Commerce at this Station, begging that the repayment of the money to be advanced by the Hon'ble the Court of Directors for the construction of the Horsburgh Light House, may be spread over a series of years, so as to make a portion of the proposed Light House Dues available for further facilitating Navigation through the Straits of Malacca.

8. The chief want of the Navigator is a Light on the “2½ fathom Bank” in the Straits of Malacca, as was shown by the Memorandum forwarded with my letter under date the 14th July 1849, No 91, and I am clearly of opinion that this would be the greatest boon that could be afforded, I therefore strongly recommend that the wishes of the several owners, and Masters
Vide enclosed printed Notice by Capt Congalton d/ 24 Jany 1850

of Vessels in this respect may be complied with, and in the meantime I am happy to report having despatched one of the Buoys* received from Calcutta, to the aforesaid 2½ fathom Bank.

9. The Committee of the Chamber of Commerce further desire one or more Lights in the vicinity of Singapore, and I am of opinion that one to guide vessels passing Tree Island, the Sultan Shoal, and the Rabbit and Coney, would be most beneficial to navigators, and would cause little expense beyond the small Establishment necessary for keeping the Light trimmed during the night.

10. The Chamber of Commerce have very considerably overrated the receipts by making their calculation from the number of vessels that have arrived at, and departed from, Singapore, without bearing in mind that one vessel may have entered the Port half a dozen times during the year. The amount of Tonnage upon which Light House Dues would be collected will not exceed 150,000 limiting the payment of Light House Dues* for each Square Rigged Vessel, to twice during the year.

* 2/2 cents per ton
11. The Committee also desire that the levy of these Dues may be confined as far as possible to the Presidencies, where Import and Export Duties obtain, under the impression, that the collection here may "operate prejudicially to the trade of the place, which hitherto has been unfettered by exactions for any purpose whatever", but this opinion, as I shall show, has undergone modification.

12. It appeared to me that difficulty and vexation might be engendered, by the original views of the Committee of the Chamber of Commerce being met on the present occasion, as Commanders of Vessels would have to produce Receipts at this Station, showing the payments made by them in India, which Receipts might not be forthcoming, and the Act for authorizing these dues, would necessarily be a very complicated affair, whilst the Public would be ignorant of the actual amount received on account of the aforesaid Dues.

13. Under these circumstances, and taking into consideration the fact that all, or nearly all, Vessels passing through the Straits of Malacca from the Presidencies touched at Singapore on their way to and from the China Seas, I have ventured to
draw up an Act for the levy of the Dues at this Port alone, which I trust will be approved of, more especially as I am able to state that the Chamber of Commerce have concurred in my reasoning and through their Chairman have expressed their satisfaction with the Draft Act* now submitted.

I have &ca,
Sd/ W.J. Butterworth
Governor

13th February 1850
Sir,

I have the honor to acknowledge the receipt of your letter under date the 12th November last No 754 with its enclosure from the Government of Siam. Commencing a Despatch from the Secretary of the Bank of Directors Authorizing the immediate Construction of the Light House in Perna Head to be called after the celebrated Hydrographer James Burningham Esquire.

Immediately on receipt of the above communication I called upon the Government. Surveyor Mr. Thomson to ascertain if the Original Contractor "Chew Ah Sam" is still willing, giving good security to undertake the Work according to the Plan Specifications.
and Estimate submitted by W. Thomson, approved of by the Superintendent Engineer and forwarded to Government, under date the 12th June 1848. Oct 4th.

The accompanying copy of a Letter from W. Thomson states that all preliminary arrangements have been made with the Aforesaid Contractor to commenced on the Work in the early part of March next. And I have accordingly Authorised the extra Establishment, same, under the Humble the Council of Directors, to be known from the 1st Instant, to ensure the preparation of Models for, or additional, drawings, and other such arrangements as the Contractor may desire for bringing Materials from Churia, who will be located on Pedro Resendes, for which Rock the Blocks of Granite for the foundations of the Light House will be prepared, and I have every reason to believe, under the able superintendence of W. Thomson, who is thoroughly conversant with the arrangements of the Council.
to

Northaven. that the Light House should
progress rapidly and successfully.

The Great distance from Singapore
of the Rock on which the Light House
is to be erected, and the exposed position
under the heat of the Sun, will
of great bodily fatigue.

I have, therefore, confided in Mr. Thomson
who is well accustom to the climate, and
is, personally, most intimate with
the habits, manners, and customs of
the people, and as the Superintendent
observing, in his letter undated
the 18th June 1828, forwarded with my
communication to your address of the
12th, Jan 21st, the great Surveyor who
alone in these Settlements possessed the
practical knowledge of Building, fami-
liar with the language, the usage and
control of the Chinese Head Men and
Subordinates, and acquainted with
the sound of Singapore necessary to
4. endeavour success without considerable increase of expense.

5. Mr. Thomson would desire to add a striking degree to the comfort and convenience of the Warden's Room, and to make the fittings up of the interior of the Building, somewhat better than first originally proposed; and as this would cause but little further outlay on the Building, I have continued to authorise his giving the necessary orders for such articles from the Homer Market.

6. The difficulty and risk of Regulating through the Houses of Agency in these small States, induced me to comply with Mr. Thomson's suggestion for engaging the Humble the Bount of Directors to make the necessary advances to the Engineers attached both the preparation of the Capital and Light. A copy of my Communication to the Secretary for the First of the Twelve

I beg respectfully to enclose, and to hope that the same shall be treated with the approbation of the Warden.
Humble the Deputy Governor of Bengal.

I take this opportunity of submitting for the consideration of Government the accompanying Extracts from the proceedings of the Chamber of Commerce at this Station, begging that the repayment of the money to be advanced by the Honble. the Court of Directors for the construction of the Stambhagh Light House, may be spread over a term of years, so as to make a portion of the proposed Light House Dues available for further facilitate Navigations through the Straits of Malacca.

The chief want of the Navigators is a Light on the 24th fathom Bank in the Straits of Malacca; as was shown by the Memorandum forwarded with my letter under date the 24th July 1849, No. 91, and I am clearly of opinion that it would be the greatest boon that could be afforded, I therefor strongly recommend
recommend that the owners of the several Owners and Masters of Vessels in the said port may be consulted with, and on the 24th and any steps may be taken towards the removal of the Barriers received from Calcutta, to the Company's further Bank.

The Committee of the Chamber of Commerce further advise one or more Lights be exhibited by the Trinity of Singapore, and Town of Singapore that one be Guide Vessel, by the Sandwich Island, the Sultan Hook, and to Rabbit and Long, would be most beneficial to Navigators, and could not add to the Expenses beyond the usual Establishment Necessary for Keeping the Lights trimmed among the Islands.

10. The Chamber of Commerce have considerably overset the Accounts by making their Calculation from the Number of Vessels that have arrived at and departed from Singapore, without taking into account that one Vessel may have entered the Port half a dozen times during the Year. The
General of Excise was to receive Light House Duty, and would be collected without
Vessels 150,000 pounds the payment of
Light House Duties for each Square Ray
Gd Vessl be hence during the Year.
11. The committee also desire
that the levy of these Duties may be con
fined so far as possible to the President
Act, where Import and Export Duties
obtain, under the impression, that the
Collection here may "operate prejudicially"
to the Trade of the Island, whereas, "it
has been conjectured by executors for any
purposes whatever," but this Opinion, as "I
show now, has undergone modification"
from 02.
12. It appeared to me that difficulty
have arisen might be organized by
the original views of the Committee of the
Chamber of Commercial King with, on the
former occasion, as Commandant of
Vessels, would have to produce Receipts
at the Officer, shewing the payment
made by them in India, which Act, I ought not to be forthcoming), and the Act for authorising these duties, would necessarily be a very complicated affair, whilst the duty would be equal to the amount of the actual amount received on account of the aforesaid Duty.

13. Under these circumstances, and taking into consideration the fact that all, or nearly all, vessels passing through the Strait of Malacca from the Peninsular portion of Singapore on their way to and from the China trade, I have ventured to draw up the Act for the levy of the Duty at this Port alone, which I trust will be approved of more especially as I am able to state that the Chamber of Commerce here comprised in my reasoning, and among those Chamber, I have expressed their satisfaction with the draft Act now submitted.

I have the honor,

Respectfully,

W. W. B. Bellhouse

13th February, 1839.
Annex 40

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Church T. (Resident Councillor at Singapore) dated 22 Feb 1850
Is true copy of a letter from the Under Secretary to the Government of Bengal dated the 29th January 1850 No 42. Approves the repairs and alterations authorised to the Gun Boat “Charlotte”, amounting to Dollars 620, previous to her being engaged in conveying to Pedra Branca Mr Thomson the officer entrusted with the construction of the Horsburgh Light House, and requesting that the same may be debited to the Light House in question. Furnished for the information of the Resident Councillor at Singapore, with reference to his letter dated the 29th December 1849 No 159.

Dated Singapore 22nd February 1850
Chase 1832
J. W. C. Buttsworth
W. December 1813

To the Mayor of Canton,

That we have respectfully addressed the Chamber of Commerce, the Legislature, the Board of Trade, the Municipal Committee, and the Chinese Merchants.

Acting Inspector of Trade from the

W. January 1823

The robes and salutations authorized to the Hon. W. L. Chase, amounting to $2,000, and 60 Chinese laborers engaged in conveying to

Acting Inspector of Trade from the

W. January 1823

The robes and salutations authorized to the Hon. W. L. Chase, amounting to $2,000, and 60 Chinese laborers engaged in conveying to

Acting Inspector of Trade from the

W. January 1823

The robes and salutations authorized to the Hon. W. L. Chase, amounting to $2,000, and 60 Chinese laborers engaged in conveying to
John Benson Esq. having the
office entrusted with the construc-
tion of the fire-hydrant light house,
and requesting that the same
may be subject to the light
force in operation. Furnished
for the information of the Dis-
trict Commissioner at Singapore, with
a copy of this letter dated the 29th December 1849.

Stated Singapore 23rd February 1850.

[Signature]

Commander of the Forces
Chief of Police at Cheekey and
Singapore. The Defence of
the Colony and Company
Director and Administrator for
the Year 1850.

Stated Singapore 23rd February 1850.
Annex 41

Letter from Bayley H.V. (Under Secretary to the Government of Bengal) to Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) dated 19 Mar 1850
Date: 19 Mar 1850

No. 171

From

The Officiating Under Secretary to the Government of Bengal

To

The Governor of Prince Wales Island
Singapore and Malacca

Dated Fort William, the 19th March 1850

Sir,

I am directed by the Deputy Governor of Bengal to acknowledge the receipt of your letter No 22 with enclosures, reporting the measures that have been taken for the immediate construction of the Horsburgh Light House on Pedra Branca.

2. His Honor approves of the preliminary arrangements which have been made by the Contractor "Choa Ah Sham" for the commencement of the work, as also of your having authorised the entertainment of the extra establishment sanctioned by the Hon'ble the Court of Directors from the 1st February and the advances to the Contractor to enable him to bring masons from China.

3. From Para: 6 of your letter and enclosures No 2 His Honor observes that in consequence of the difficulty and risk of negotiating remittances at Singapore, you have solicited the Hon'ble Court of Directors to advance Mr Stevenson the Engineer the sum of £1500, being the amount required by that gentleman for superintending and preparing the cupola and light for the Light House in question. Your
proceedings render it unnecessary for His Honor to pass any orders on the subject which will be duly taken up by the Home authorities.

4. As regards the proceedings of the Committee of the Chamber of Commerce at Singapore, in which that body solicit that the repayment of the money advanced by the Hon'ble the Court of Directors for the construction of the Horsburgh Light House, should be spread over a series of years so as to make a portion of the proposed Light House dues available for a light on the 2½ Fathom Bank in the Straits of Malacca, and for a light near Singapore, I am directed to inform you, that the earliest opportunity will be taken for submitting the proceedings of the Chamber for the favorable consideration of the Hon'ble the Court of Directors.

5. The draft act submitted with your letter has been forwarded for the consideration of the Most Noble the Governor General of India in Council, in the Legislative Department.

I have the honour to be,
Sir,
Your most obedient Servant
Sd/ H V Bayley
Off.g Under Sec'y to the Gov't of Bengal
1850
Bengal
19th March
No. 171

Acknowledging the receipt of the Gov's letter reporting the measures that have been taken for the immediate construction of the Horsburgh Lighthouse on Pedra Branca.
From

The Secretary to the Government of Bengal

To

The Governor of Prince Edward Island

Fort William, the 1st March 1860.

Sir:

I am directed by the Deputy Governor of Bengal to acknowledge the receipt of your letter No. 32, and to beg the favor of you to report the measures that have been taken for the immediate construction of the Harbour Light House on Porta Dinouar.

2. The Board approves of the preliminary arrangements which have been made by the contractor, and are shown for the commencement of the works, as also of your having authorized the payment of the expenses of the work, and of the establishment sanctioned by the Board to the Court of Directors, from the funds of the Company, and the advance to the Contractor to enable him to bring work from China.

From
From para. 6 of your letter and enclosure (Act of this House)  observe that in consequence of the difficulty and risk of accommodating remittance at Singapore, you have directed the Board of Directors to advance Mr. Stevenson the Engineer the sum of £1000 being the amount required by that gentleman for superintending and preparing the capstan and light for the light house in question.

Your proceeding render it unnecessary for the House to have any order on the subject which could be duly taken up by the House authorities.

In regard the proceedings of the Committee of the Chamber of Commerce at Singapore, in which that body directed that the repayment of the money advanced by the Board of Directors for the construction of the Northburgh Light House should be spread over a series of years so as to make a portion of this expended light house available for a light in the Fathom Bank.
in the charts of Malacca, and for a light near Singapore. I have directed to inform you, that the

in strict opportunity will be taken for submitting the
proceedings of the Chamber for the favorable con-

sideration of the Board, the Court of Directors,

The draft not submitted with your letter
has been forwarded for the consideration of the

H.I. M. the Governor General of India in
Council, and the Secretaries Department.

Have the honor to be,

Your most obedient Servant,

Mr. ----

Off-bearer of the Governor-General.
Annex 42

Letter from Lettler J.H. of the Marine Department of the Government of Bengal to the Court of Directors of the East India Company dated 30 Mar 1850
Letter from No 13 dated 30th March 1850

Reports the arrangements that have been made for the construction of the Horsburgh Lighthouse on the Island of Pedra Branca.

Secretary's Office
Marine Branch
1850
I now beg to report the measures which have been adopted consequent on the sanction conveyed in Your Honorable Court's Marine Despatch to the Gov't of India, in the Home Department No 3 of the 5th September last, to the construction of the Horsburgh Lighthouse on the Island of Pedra Branca.

2. On the receipt by this Gov't of the Despatch in question from the Home Depts the Governor of the Straits Settlements was desired to take immediate steps for commencing the work, and also to submit the Draft of an Act for the purpose of legalizing the duty of 2½ Dollars per 100 tons proposed by Your Honorable Court to be levied on the shipping as soon as the Light House should be completed.

3. In his annexed reply No 22 dated 13th February last, giving cover to five enclosures on this subject, Colonel Butterworth reported that all the preliminary arrangements had been made with the original Chinese contractor "Choa Ah Lam" for commencing the building in the early part of the current month, and that he had accordingly authorized the extra Establishment sanctioned by your Honorable Court to be drawn from the 1st Ult. to ensure the preparation of models &ca as also such advances as the contractor might require for bringing masons from China, who were to be located on the island itself, from which at the same time the blocks of granite for the foundation of the Light House were to be prepared.

4. The superintendence of the undertaking has been entrusted to Mr Thompson the Gov't Surveyor at Singapore, and tho' a task involving great bodily labour and exposure, Colonel Butterworth feels confident, from that officers being well inured to the climate, and his being thoroughly conversant with the management of the Chinese workmen that the work will progress rapidly and successfully.
5. I approve of the above proceedings as reported by Colonel Butterworth.

6. In paragraph 6 of his letter under notice, Colonel Butterworth refers to the difficulty of negotiating through the Agency Houses in the small stations of the Straits Settlements, but as he had already addressed Your Honorable Court on the subject of making the necessary advances to the Engineer entrusted with the preparation of the Cupola and Light, I did not consider it necessary to pass any orders on this subject.

7. With reference to the imposition of 2½ Dollars per 100 tons, and to the amount advanced by Your Honorable Court for the erection of the Light House, Colonel Butterworth submitted an extract from the Proceedings of the Committee of the Chamber of Commerce at Singapore begging that the repayment of that sum may be extended over a series of years, so as to make a portion of the proposed Lighthouse dues available for further facilitating navigation through the Straits of Malacca by erecting a light on the 2½ fathom Bank, and another in the vicinity of Singapore.

8. On this subject Colonel Butterworth remarked that the Chamber of Commerce had calculated the yearly amount of tonnage at the Port of Singapore at 200,000 tons thereby greatly overrating the receipts by taking their calculation from the number of vessels that went in and out, without bearing in mind that the same vessel might re-enter that Port many times during the year, whereas the actual amount of tonnage upon which Light House dues would be collected would not exceed 150,000 tons, limiting the payment of those dues for each square rigged vessel to twice during the year.

9. I beg to submit the proceedings of the Committee of the Chamber of Commerce referred to for the favourable consideration of your Honorable Court.
10. The Chamber further desired that the levy of the Horsburgh Light House might be confined as far as possible to the Ports of Calcutta, Bombay, Madras &ca, where Import and Export dues obtain, under the impression that the collection of such dues at Singapore might operate prejudicially to the trade of that place, which had hitherto been unfettered by pecuniary exactions of any kind.

11. Colonel Butterworth's opinion on this point was that a compliance with the Committee's proposition would entail difficulty and vexation inasmuch as commanders of vessels would have to produce receipts at Singapore for payments made by them in India and elsewhere which receipts might not always be forthcoming. Besides Colonel Butterworth considered that an act authorizing those dues would necessarily be too complicated and lead to confusion.

12. Under the above circumstances Colonel Butterworth transmitted the Draft of an Act which he had drawn up for the levy of the Light House dues at the Port of Singapore alone; which was likely to provide for the due interests of all parties. This Draft act had been submitted for the consideration of the Gov't of India in the Legislative Dept.

- J. H. Lettler
Bengal
Marine Department

Collection No. Engr No 0670
17/1835

Letter from No. 13 dated 20th March 1830

Reports the arrangements that have been
made for the construction of the Harald's
Light House on the Island of Peter
Branch.

Secretary's Office
Marine Branch
1850
Copy of Marine letter from Bengal

I now beg to repeat the reasons
which have been adopted consequent on the
sanctions conveyed in your Honorable Court's
Marine Despatches to the Govt. of India, in the
Home Department 21st of the 5th October last, to the Construction of the Hastings
Light-house on the Island of Pelem Bank.

2. On the receipt by this Govt.
of the Despatches in question from the Home
Dept. the Governor of the Straits Settlement
was desired to take immediate steps for
Commencing the work and also to submit the
Draft of an Act for the purpose of legalizing
the duty of 2½ Dollars $2.00一次 proposed
by your Honorable Court to be levied on the
shipping as soon as the Light-house should
be completed.

3. In the annexed reply (No. 22 dated
13th February last), giving cover to five
enclosures on the subject, Colonel Bentinck
reported that all the preliminary arrangements
had been made with the original Chinese
Contractor "Chow Ali Lam" for Commencing
the building in the early part of the current
year, and that he had accordingly authorized

The
The letter Establishment sanctioned by your 

Honorable Court to be drawn from the 1st Octo-

to secure the preparation of models was also 

such advances as the Contractor might require 

for bringing materials from China, who were to 

be located on this island itself, from which 

at the same time the blocks of granite for the 

foundation of the Light House were to be 

prepared.

4. — The superintendence of the 

Construction has been entrusted to Col.

Thompson at the Cape of Good Hope, 

and the task involving great bodily labor 

and expense, Colonel Bulfinch feels 

confident, from that Office being well armed 

to the Climate, and his being thoroughly 

Conversant with the Management of the Chinese 

workmen that the Work will progress 

rapidly and successfully.

5. — I approve of the above proceeding 
as reported by Col. Bulfinch.

6. — In paragraph 6 of his letter 

under notice, Colonel Bulfinch refers to 

the difficulty of negotiating through the Agency 

Homes in the small station of the Dutch 

settlements, but as he had already advised 

Sir, a Memorable Court on the subject of 

Making the necessary advances to the Engine 

intended with the preparation of the Cupola 

and Light I did not consider it necessary 

to
to pay any duties on this subject.

7. With reference to the extraction of 2½ dollars per 100 Zns, and to the amount advanced by your Honourable Court for the erection of the light-ship, Colonel Bateman submitted an extract from the Proceedings of the Committee of the Chamber of Commerce in Singapore begging that the repayment of that sum may be extended over a series of years so as to make a portion of the reduced light-ship dues available for further facilitating navigation through the straits of Malacca by creating a light on the 2½ Kilometre Bank, and another in the vicinity of Singapore.

8. On this subject Colonel Bateman remarked that the Chamber of Commerce had calculated the yearly amount of tonnage at the Port of Singapore at 200,000 thereby greatly overrating the receipt by taking their calculation from the number of vessels that went in and out, without bearing in mind that the same vessel might visits more than one Port twice within the same year, whereas the actual amount of tonnage from which light-house dues would be collected would not exceed 150,000, limiting the payment of these dues for each light-house respect to twice during the year.
9. I beg to submit the proceeding of the Committee of the Chamber of Commerce referred to, for the favorable consideration of your Honorable Court.

10. The Chamber further desired that the levy of the newly-created light-duty duties might be confined as far as possible to the ports of Calcutta, Bombay, Madras, etc., where import and export duties obtain, under the impression that the collection of such duties at Singapore might operate prejudicially to the trade of that place, which had hitherto been unfettered by pecuniary restrictions of any kind.

11. Colonel Buttersworth's opinion was that a compliance with the Committee's proposal would entail difficulty and confusion as much as command of belles would have to produce receipts at Singapore in payment of duties in India and elsewhere, whilst receipts might not always be forthcoming. Besides Colonel Buttersworth considered that an act authorizing these duties would necessarily be too complicated and lead to confusion.

12. Under the above circumstances, Colonel Buttersworth transmitted the draft of the Act which he had drawn up in the levy of the light-duty duties at the port of Singapore alone, which was likely to provide for the due interests of all parties. This draft was then submitted to the Committee, and the Colony of India to the Legislative Council of the colony.
Annex 43

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to the Resident Councillor at Malacca dated 4 Apr 1850
To, The Resident Councillor
at Malacca
Dated Singapore 4th April 1850

Sir,

I have the honor to request, that the Gun Boat “Nancy” may be sent to this Station for temporary employment in conveying Stores to Pedra Branca for the workmen engaged in constructing the “Horsburgh Light House”.

The Resident Councillor at this Station, has been directed to replace the Gun Boat “Nancy” by the Barge “Francis”, whilst the former may be employed on the above duty.

I have &ca

Sd/W. J. Butterworth

4th April 1850

Governor
The Resident Commissioner

at Singapore

1 April 1832

Sir,

I have the honor to request that the light of the "Famine" may be increased at that station for the services required for conveying supplies to the "Famine" for the wanton negligence of the officer in charge.

The Resident Commissioner should be directed to increase the light of the "Famine" by the officer in charge, as the former may be employed in the above duty.

Yours,

Capt. K. M. Lister

1 April 1832
Annex 44

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to the Resident Councillor at Malacca dated 19 Apr 1850
To,
The Resident Councillor
at Malacca
Dated Singapore 19th April 1850

Sir,

I have the honor to acknowledge the receipt of your letter under date the 15th Instant No. 201, bringing to notice the very unsatisfactory state of the Honble East India Company's Gun Boat "Francis" sent from hence to replace the "Nancy", whilst the latter may be employed in conveying stores &ca for the workmen engaged in constructing the Light House at Pedra Branca.

I regret that the "Francis" should have been permitted to leave Singapore in so inefficient a state, and I have not failed to direct the attention of the authorities here, to the circumstance which does not reflect credit on the Marine Department; I now beg that such immediate repairs and additions, as have been found necessary to the Gun Boat may be forthwith made, and debited to this Residency, and that hereafter when you can spare her, that she may be sent back for the purpose of being placed in a completely serviceable condition.

I have &ca

19th April 1850

Sd/ W. J. Butterworth
Governor
Later States, and however far this may be deemed
presumable in its present, it will appear to
be strengthening my position
in knowing, thereof, as being
that all repairs to the
to the present, in what

have

T. H. I. Gattwood
19th April 1852

The Resident Governor
of Malacca
Passed Singapore 19th April 1852

Chandor Ernbrock, acknowledge
the receipt of Governor underwrite
the 14th Instant No. 28, among
another the required draft
state of the North East Wind
Company's Bank, London

17th
sent from hence to replace the "Nancy", which the latter may be
employed in conveying stores to
for the workmen engaged in con-
donstructing the right tower of Eden
American.

Subject that the "George" should
have been permitted to leave Cape
town in such insufficient a state,
and Simon not failed to direct
the attention of the authorities to
the circumstance which does
not reflect credit on the revenue
department; Simon kept his word
immediate supply and addition
as have been found necessary.
To the "Sambo" too may for such
meet, and dedicated to the Educa-
dency and that hence this when
you can show her that the
may be such lack of the pre-
ience of having been so
ably, honorable condition.

Lent in

W. W. W. Northcott

W. W. W. Northcott
Annex 45

“The Horsburgh Lighthouse” in the Straits Times and Singapore Journal of Commerce (28 May 1850)
The Horsborough Light-House.—The Hon- 
ble. the Governor of the Straits Settlements, Lieu-
tenant-Colonel W. J. Butterworth C. B., having 
requested the Brethren of "Lodge Zelopheeha in the East No. 746 to lay the Foundation Stone of 
the Horsborough, Testimonial, or Light-House for 
all Nations, with the honours of their craft 
and of the Anniversary of Her Majesty's 
Birthday,—the Hon. Thomas Church Esq. Lient. Colonel Mes-
stier, several of the foreign Consuls, and 
 Merchants of Singapore were invited by the Governor's 
invitation to witness the ceremony and 
accompanied him in the ceremony. The party 
arrived at Pedro Branco about | hour A. M. 
and, having disembarked, the Masonic Body mar-
ch'd in the following order of Procession to the 
summit of the Rock:

- The Band.
- Tyler with Journal and Sword
- Brethren not members of the Lodge
- two and two.

Members of the Lodge, one and one.

Cornwallis with Cart, borne by the War. Past. Master Bro. J. B. Cowdery
Two cups with Wine and Oil
The Wine borne by the War. Past. Master Bro. J. B. Cowdery and the Oil by Bro. George Trotter
The Organist Bro. G. H. Brown
The Inner Guard of Two. Two Hawking.

The Secretary, Brother T. H. Campbell
holding a Companion on a silk cushion
The Treasurer and two.

A Brethren with Cart, to be deposited in the Stone

The Horsborough Light House
borne by Brother H. Murchison Smith
Brother W. Pattinson bearing the Mallet.

The Junior Warden
bearing the Pins Rules

The Master of the Lodge

To the Editor of the STaTIs TIMES.

May 33rd, 1850.

N. HECKFORD

Commander Brig. Rimpine Anna Martha
Singapore Roads.

The Inscription Plate having also been placed in the cavity, the Worshipful Master received 
from the architect a silver trowel with salute 
cement, with which he proceeded to close the cavity, this having been done, and the stone 
lowered into its bed, he directed the Architect to see that it was properly adjusted. The Square, 
Level and Plumb Rule were then handed to the 
Worshipful Master, who applied each instrument 
successively to the stone, and having struck it three times with his mallet, said:—"May the Great 
Architect of the Universe grant a blessing on this stone which we have now laid, and by 
His Providence enable us to found and every 
other virtuous undertaking." The Brethren replied:—"So be it," and gave the usual 
Masonic salute. The Worshipful Master next 
called for the cornucopia containing corn, and the cups with the wine and oil, and having poured 
the contents of each successively over the stone, said:—"May the All-Bounteous Author of 
Nature bless our Island, of which this Rock 
is a dependency, with Corn, Wine, and Oil, and 
with all the necessary comforts and conven-
tiences of life." The Brethren again responded:—"So mote it be," and saluted as above.
The chaplain pronounced an appropriate prayer, and the Worshipful Master then addressed 
the Governor and gentlemen present in the following 
next speech:

It will be impossible to convey to you in adequate terms, the very high sense entertained by myself and 
brethren of the honor you have done us, in having thus publicly called upon us to associate with our Masonic 
articles laying the foundation stone of the Light-
House, a step to be constructed on this spot, as con-
memoration of the services of that distinguished Hy-
drographer, James Horsburgh, by whose unceasing 
genius, and surpassing zeal, the navigation of these 
innumerable seas, has been so greatly facilitated. As a body we feel justly proud of the distinction thus 
conferred upon us, in having committed to our care, the commencement of a work of such vast importance 
to every maritime nation in the world, and a per-
fectly connected with those principles of philanthropy which form the basis of our ancient institutions; and I shall ever esteem it one of the happiest circum-
cstances of my life that the Brethren of this Rock, and to the East have been called upon to exercise their Craft 
so amiable and great an undertaking during the period that I enjoyed, through their kind offices, the honor to ascribe the Masonic Hospital.

Present at this event was a Miss, a most auspicious event that the noblest work has been honored on a day held in
borne by the Wor. Past. Master Bro. J. B. Cumming
Two ropes with Wine and Oil
The Wine borne by Bro. T. O. Grafton and the Oil by Bro. G. E. Ormond
The inner Guard Bro. Thos. Hewston
bearing the INSCRIPTION PLATE
The Secretary Bro. E. S. Campbell
bearing the book of Constitutions on a silk cushion
The Treasurer Bro. J. C. Smith
bearing a censer of Holy Water, in a censer
The Constitution light
borne by Brother H. Stinson Broderick
Brother W. Paterson, the Doyen
The Junior Warden Bro. R. Bain
bearing the Plumb Rule
The Senior of the Lodge
The Senior Warden Bro. J. Jarvis
bearing the Level
The Chaplain Bro. the Rev. F. W. Longworth
bearing the Sacred Law on a cushion
Junior Deacon
The Worshpful Master Robert Deacon
bearing his Word Bro. M. D. Davidson
bearing his Word

Having halted and formed a street for the Worshpful Master to pass through, the Chaplain, the Pastmaster with the cornucopia, the Senior and Junior Wardens, the Brethren with the wine and oil, and the Deacons with their wands followed the Worshpful Master to the Foundation-stone, where they were received by the Governor, who, in the following words, requested them to proceed at once with the ceremony:

The Worshpful Master and Gentlemen of the Lodge Zeland in the East,—I have solicited the favour of your laying, on this the anniversary of our beloved Queen's Birthday, the foundation stone of the Light-house to be erected on this spot for the safety of the Mariner, and in commemoration of that celebrated hydrographer James Horsburgh P. R. S. to whose labours the merchantile world is so much indebted for the easy navigation of these seas. The philanthropist object of the building appears especially to call for the exercise of that good which has charity and good-will to all mankind as its ground work; and it affords me deep and unfeigned gratification to see so large an assembly of Masons here from the newly formed 'Lodge Zeland in the East,' at our littleemporium Singapore, for the purpose of taking part in this day's ceremony, to which gentlemen I will thank you to proceed with the least practical delay.

The Worshpful Master having taken up his position on the East side of the stone, with the Lodge Chaplain the Rev. Bro. F. W. Linstedt on his right, and on his left the Past Master with the Senior and Junior Wardens, Treasurer, Secretary and other Office-Bearers immediately around him, requested the Chaplain to open the ceremony with prayer, which he did in a suitable and appropriate form. The architect of the building, J. T. Thomson Esq, now submitted his plans of the construction for the Worshpful Master's inspection, and having received their approbation, they were returned to the architect for his guidance. The Worshpful Master, requested the Treasurer and Secretary to collect the current English coinage, also an original edition of Horsburgh Directory, a copy of the Straits Times, and the other publications at Singapore, he deposited the bottle with the coins in the

— and we feel truly proud of the distinction conferred upon us in having committed to our care, a commencement of a work of such vast importance to every maritime nation in the East, and in conjunction with those principles of philanthropy, which form the basis of our Association, and which to our the record of the highest commendations of the highest approval of the highest praise. We shall now set down in our book of Constitution the names of those gentlemen who have done so much to further the glory of this noble body. The names of those gentlemen who have done so much to further the glory of this noble body. We shall now set down in our book of Constitution the names of those gentlemen who have done so much to further the glory of this noble body.

A
osti, to our the record of the highest commendations of the highest approval of the highest praise. We shall now set down in our book of Constitution the names of those gentlemen who have done so much to further the glory of this noble body. We shall now set down in our book of Constitution the names of those gentlemen who have done so much to further the glory of this noble body.

The Senior Worshipful Master Bro. D. B. McCall
bearing his Word
Bro. F. W. Linstedt

The Worshpful Master and Gentlemen of the Lodge Zeland in the East,—I have solicited the favour of your laying, on this the anniversary of our beloved Queen's Birthday, the foundation stone of the Light-house to be erected on this spot for the safety of the Mariner, and in commemoration of that celebrated hydrographer James Horsburgh P. R. S. to whose labours the merchantile world is so much indebted for the easy navigation of these seas. The philanthropist object of the building appears especially to call for the exercise of that good which has charity and good-will to all mankind as its ground work; and it affords me deep and unfeigned gratification to see so large an assembly of Masons here from the newly formed 'Lodge Zeland in the East,' at our littleemporium Singapore, for the purpose of taking part in this day's ceremony, to which gentlemen I will thank you to proceed with the least practical delay.

The Worshpful Master having taken up his position on the East side of the stone, with the Lodge Chaplain the Rev. Bro. F. W. Linstedt on his right, and on his left the Past Master with the Senior and Junior Wardens, Treasurer, Secretary and other Office-Bearers immediately around him, requested the Chaplain to open the ceremony with prayer, which he did in a suitable and appropriate form. The architect of the building, J. T. Thomson Esq, now submitted his plans of the construction for the Worshpful Master's inspection, and having received their approbation, they were returned to the architect for his guidance. The Worshpful Master, requested the Treasurer and Secretary to collect the current English coinage, also an original edition of Horsburgh Directory, a copy of the Straits Times, and the other publications at Singapore, he deposited the bottle with the coins in the

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The Senior Worshipful Master Bro. D. B. McCall
bearing his Word
Bro. F. W. Linstedt
The Inscription plate having also been placed in the cavity, the Worshipful Master received from the architect a silver trowel with some cement, with which he proceeded to close the cavity; this having been done, and the stone lowered into its bed, he directed the Architect to see that it was properly adjusted. The Square, Level and Plumb Rule were then handed to the Worshipful Master, who applied each instrument successively to the stone, and having struck three times with his mallet, said: "May the Great Architect of the Universe grant a blessing on this stone, which we have now laid, and by His Providence enable us to finish the work and ever other virtuous undertakings!" The Brethren replied: "So be it: let us give the usual Masonic salute." The Worshipful Master next called for the cornucopia containing corn, and the cups with the wine and oil, and having poured the contents of each successively over the stone, said: "May the All-Bounteous Author of Nature bless our Island, of which this Rock is a dependence, with Corn, Wine and Oil, and with all the necessary comforts and conveniences of life." The Brethren again responded: "So mote it be: and saluted as above. The chaplain pronounced an appropriate prayer, and the Worshipful Master then addressed the Governor and gentlemen present in the following neat speech:

"It will be impossible to convey to you the adequate terms of the high honour concentrated upon myself and brethren of the honours you have done us, in having thus publicly called upon us to assist with our Masonic art, in laying the foundation-stone of the Light-House, about to be constructed on that spot, in commemoration of the services of the distinguished Hydrographer, James Horsburgh, Esq., whose enterprise, genius, and perseverance, in the exploration and navigation of the inestimable seas, has been so greatly celebrated. As a body, we feel justly proud of the distinction thus conferred upon us, in having unanimously concurred to our care, the commencement of a work of such vast importance to every maritime nation in the world, and so perfectly accordant with those principles of philanthropy which form the basis of our Ancient Institutions; and I shall not fail to impress upon the minds of my Countrymen the truth of that statement: it is one of the highest recommendations of my life that the Brethren of Lodge Zealand in the East have been called upon to execute their Craft most laudably and great; an undertaking during the present day, and through their kind suffrages, the honor of occupying the Master's chair.

"All present, regard it as a most auspicious event that we are assembled on a day set apart in the highest veneration to some British Subjects..."

"Doubtless the recollection of this day's proceedings will remain with you for ever after years, when you may be removed from the scene of your present labours, not only the least pleasing of your circumstances, but such as may long live in the contemplation of your past useful and honourable career is my sincere wish. I feel that I should not be allowed myself of the task you have assigned me were I not to pay a just tribute to the munificence of those merchants and manufacturers whose liberal and generous contributions to the fund raised for the erection of the edifice of which we have this day laid the foundation stone.

"Thanks are also due to the noble Council of Directors of the East India Company for having advanced its remaining sum necessary to effect this desirable object, and to the respective districts of the island whose memory the Light-House is to be dedicated, are most respectfully acknowledged, to any lengthened panegyric on my part.

"It is impossible to enter into a description of the labours of years of untiring exertion and devotion, which have at length accomplished this object, and which the architects and builders are at present engaged in carrying into effect.

The Governor replied as follows:—

Worshipful Master and Gentlemen of the Lodge Zealand in the East.

I thank you for the able manner in which you have been pleased to perform this day's most interesting ceremony. I have here honored the Craft of Masonry, and the solemnity which has characterized this day's proceedings has made me feel the deepest respect for what I had previously honored.

The kind terms in which you, Gentlemen Masons, have been pleased to speak of myself cannot all to be deeply gratifying; and what has passed this day will indeed have a most prominent place amongst the many pleasing recollections which I shall take with me to the man who directed the laying of the Straits, where, I may truly say, I have principally labored to the utmost of my ability for the advancement of the three branches.

I should be wanting in justice to the mercantile community and members in China if I omitted to notice what you mention of their liberality, or their donations towards the Edinburgh testimonial, presented by the munificence of Messrs. Matheson, Mathison and Co. in allowing compound interest on the sum raised in 1842, most certainly enabled me to call upon the Government of the East for aid in this matter. The call was readily responded to, and liberally received by the Hon. the Court of Directors, as per telegram hereby by "Echo," gentlemen, there is one person who, if I may say so, is not yet sighted. I allude to one of the oldest and most respected Residents in Singapore, John Purvis Esquire who has narrowly watched and earnestly sided the authorities on this occasion, and whose able suggestions for the more safe and speedy navigation of the Straits of Malacca, subsequently engaged upon and recommended by that excellent body the Singapore Chamber of Commerce, I hope eventually may be carried into effect."
Other person whose zeal in this cause must not be lost sight of. I allude to one of the oldest and most respected Residents in Singapore, John Norris Paqure, who has narrowly watched & earnestly aided the authorities on this occasion, and whose chief suggestion for the more safe and speedy navigation of the Strait of Malacca, subsequently enlarged upon and recommended by that excellent body the Singapore Chamber of Commerce, I hope eventually may be carried into effect.

Gentlemen, I trust the completion of the building, of which you have now laid the foundation stone, to that valuable and indefatigable public servant and able architect, Mr. Thomson, with the utmost confidence, and I again thank you most sincerely for the labors of this day and for the impressive manner in which you have exercised your Masonic Craft on the occasion, accompanied by the warmest expressions of loyalty to our most Gracious Majesty Queen Victoria, whilst some of the greatest Potentates of the Earth have either fallen from or tottered on their Thrones, has remained firmly seated, supported solely by the affection of her people, and how far spread and deep rooted are those affections, the sentiments promulgated by the little Band here collected on this isolated spot, will still further testify to the World at large. Let us now unite in three hearty cheers to the health, prosperity & long continued reign of our Queen, God bless her!

The Brethren then opened a passage to allow the Governor to return, and the Party embarked at 2 P. M. on board the Hooghly, where a most sumptuous dinner was prepared, and by His Excellency the Naval commander-in-chief, the Governor and his guests did acknowledge their loyal attachment to our beloved Sovereign and acknowledged the kindness of their host by enthusiastic acclamations. Her Majesty's Steamer Fury took the Hooghly in tow, and in the dazzling splendor of the scene, broach both vessels into Harbour by half past six in the evening. After, as we assured, a most delightful and majestic excursion, the felicity of which was heightened not only by the benevolent object, they had compassed but by the hearty cooperation and aid afforded by His Excellency the Naval Commander-in-chief, and the gallant Commander of the Fury.
 Doubtless the recollection of this day's proceedings will form in after years, when you may be removed from the scenes of your present labours, not the least pleasing of your reminiscences, and that you may long recall the contemplation of your past useful and honourable career in my sincere wish.

I feel that I should all arrogate myself of the task you have assigned me were I to omit to pay a just tribute to the munificence of those merchants and citizens to whose liberality we are indebted for the nucleus of the fund raised for the erection of the edifice of which we have this day laid the foundation stone.

Thanks are also due to the Honorable the Court of Directors of the East India Company for having advanced the remaining sum necessary to effect this desirable object.

The marble of the distinctive mass in whose memory the Light-House is to be dedicated, are too universally acknowledged, to need any lengthened panegyric on my part. His comprehensive views, and ample and liberal sufficing directions, the labours of years of untiring exertion and devotion, stamp him as a man of almost unexampled genius and industry. To the navigator whose name the name of Storrsburgh is almost as familiar to his own and among those who are engaged in commerce in this quarter of the Ocean, who is there that does not feel and acknowledge the deepest debt of gratitude to him.

In the memory of one so devoted to the cause in which almost his whole life was spent, what more portentous an immortal soul, he offered than the edifice now to be erected. And I supplicate the Supreme Architect of the Universe to bless the work that it may long withstand the ravages of time, and vie defiance to the billows of destruction that surround it, to be a tower by day and a light by night to guide the mariner in his course for ages to come, and that succeeding generations, whilst they admire the genius of him to whose memory it is raised, may have cause to regard with gratitude those in whom its erection is done.

The Governor replied as follows:

Worshipful Master and Gentlemen of the Lodge Zeland in the East.

I thank you for the liberal manner in which you have been pleased to perform this day's most interesting ceremony. I have ever honored the Craft of Masonry and the solemnity which has characterized this day's proceeding has made me feel the deepest respect for what I had previously honored.

The kind terms in which you, Gentlemen Ma-

sons, have been pleased to speak of myself cannot fail to be deeply gratifying, and what has passed this day will indeed have a most prominent place amongst the many pleasing recollections which I shall take with me to my native land, where leaving the Strals, where, I may truly say, I have honestly labored to the utmost of my ability for the advancement of the three stations.

I should be waiting in justice to the mercantile community and mariners in China if I omitted to notice what you mention of their liberality for their donations towards the Storrsburgh testimonial, magnified by the munificence of Messrs. Jazziell, Marsden, and Co. in allowing compound interest on the sum raised in 1842, most certainly enabled me to call upon the Government of India in this matter. The call was readily responded to and favorably received by his Honorable the Council of Directors, as our pleasure here this day shows. But gentlemen, there is one other person whose zeal in this cause must not be lost sight of. I allude to one of the oldest and most respected Residents in Singapore, John Purvis Esquire who has narrowly watched & earnestly aided the authorities on this occasion, and whose able suggestions for the more safe and speedy navigation of the Straits of Malacca, subsequently enlarged upon and recommended by that excellent body, the Singapore Chamber of Commerce, I hope eventually may be carried into effect.
conferred upon us in having committed to our care, the commencement of a work of such vast importance to the prosperity of our nation in the world, and so perfectly consistent with those principles of philanthropy which form the basis of our Ancient institutions; and I shall ever esteem it one of the happiest circumstances of my life, that the Brethren of Lodge Zeeland in the East have been called upon to exercise their Craft in so laudable and great an undertaking during the period that I enjoy, through their kind suffages, the honor of occupying the Master's chair.

All present, I must regard it as a most auspicious event that this noble work has been begun on a day held in the highest veneration by a subject, as being the anniversary of Her Most Gracious Majesty's birthday; and to you, Hon'ble Sir, I am the more indebted for having selected this most fitting mode of testifying our loyalty to our beloved sovereign on this occasion, who I feel assured could desire no greater and more pleasing proof of our attachment to her royal person, than our being engaged on this day, laying the foundation of a structure which will tend to promote the welfare of so many of her subjects. It would, perhaps, be no very difficult task to trace the extent of our attachment to the commerce of our own country and that of equally civilized powers; but when we contemplate its effect in fostering our intercourse with the semi-barbarous nations of the world, in which surround us, whose want of skill in the art of navigation renders them so frequently a prey to the mysteries of the mighty, huge and so munificent, to attempt to ascertain their advancement, we shall see lost in a maze of conjecture and surmise.

The disastrous effects resulting from the absence of a Line of Communication in this locality, in the loss of human life and the extensive destruction of property, have been too frequently and too severely felt within late years not to render the subject one of the deepest concern to all who feel an interest in the prosperity of commerce and the welfare of their fellow creatures that this work, which under your auspices we have now happily begun, should have been so long deferred. I should therefore be doing you a great injustice, were I to refrain from noticing how much the work is indebted to you, Hon'ble Sir, for having brought the necessary arrangements to a conclusion, which but for your unceasing and ardent advocacy of the cause, might have been delayed to an indefinite period. You cannot permit this opportunity to escape me of offering you my most hearty congratulations that your long and useful career as the chief authority in the Straits of Malacca, which has tended so much to the improvement and embellishment of the settlements under your care, should be crowned by a labor calculated to adorn their history, and to reflect everlasting honor on yourself.

The Brethren then opened a passage to allow the Governor to return, and the party embarked at 2 P.M. on board the Hooghly, where a most sumptuous dinner was prepared, which His Excellency, the Naval Commander-in-chief, the Governor and his guests did ample justice to, displaying their loyal attachment to our beloved sovereign and acknowledging the kindness of host by enthusiastic acclamations. Her Majesty's Steam Yacht Fury took the Hooghly and Ayreshire in tow, and in the dazzling high service-like character of that ship, brought both vessels into harbour by half past six in the evening, after, as we ascertained, a most delightful and pleasant excursion, the felicity of which was heightened not only by the benevolent objects they had compassed but by the hearty cooperation and aid afforded by His Excellency the Naval Commander-in-chief, and the gallant Commander of the Fury.

Indebted to the courtesy of the Hon'ble the Resident Councillor for an abstract of the receipts and disbursements at Singapore for the official year 1846-7. We have no time to set the whole up in type for our present issue, but will endeavour to do so next week. In the meantime we may state that the sums total are thus stated—
Annex 46

Letter from the Court of Directors of the East India Company to the Marine Department of the Government of Bengal dated 18 Sep 1850
Para 1  In your letter No. 13 of the 30th March last, acquainting us with the preparations made under your authority, for the construction of the Horsburgh Light House on the Island of Pedra Branca, we are informed that an agreement had been made with a Chinese contractor for the commencement of the building early in March last under the Superintendence of the Government Surveyor, Mr. Thomson, whose qualifications are represented to be such as to justify the hope that the work will be conducted rapidly to a satisfactory termination.

2. We cannot comply with the desire of the Committee of the Chamber of Commerce at Singapore, that the repayment of the sums to be advanced from the public treasury towards the expenses of the Lighthouse may be extended over a series of years. It is the wish of the Committee that, part of the produce of the proposed tonnage duty* on shipping should be available for the establishment of two other lights in the neighbourhood of Singapore, but we must decline to accede to any such proposition until the Pedra Branca Lighthouse shall have been completed; We shall require the debt incurred on account of that lighthouse to be entirely liquidated before any part of the surplus dues is appropriated to any other purpose.

*2 ½ Dollars per 100 tons
3. The letter mentioned by you as having been addressed by the Governor of the Straits Settlements to our Secretary has been received, but we deferred taking any steps in consequence, until the communication should reach us in the regular course through the medium of your Government. It appears by the papers transmitted by Colonel Butterworth that Mr. Allan Stevenson, Engineer to the Commissioners of the Northern Lights, has been selected by Mr. Thomson to superintend the construction of the lanterns, lamps and machinery, for the Horsburgh Light house, also that the amount determined upon for the Lights &ca is £1500; and, on the ground of the difficulty, risk, and expense of negotiating through the houses of agency in the Straits Settlements. Colonel Butterworth has preferred the request that we will advance to Mr. Stevenson such sums as he may require for the provision of the articles in question; not having been parties to these arrangements, we should have preferred the adoption by Colonel Butterworth of the alternative suggested by himself, namely that he should remit the necessary advances to Mr. Stevenson either by Navy or Labuan Government Bills; under all the circumstances however we shall not now object to make advances from our Treasury to Mr. Stevenson not exceeding the £1500 upon production of proper vouchers from Mr. Thomson or the local authority by whom he is instructed.

4. You will communicate the substance of this Despatch to Colonel Butterworth, and at the same time acquaint him that it is our particular desire that he should exercise a vigilant control over the expenditure on account of the undertaking which we wish to be kept as nearly as possible to the amount of the original estimate.
London
18th September 1850

We are
Your loving friends
(Signed) John Shepherd

J. W. Hogg
W. Wigram
J. L. Lushington
Russell Ellice
W. B. Bayley
E. Macnaghten
J. Petty Muspratt
J. Masterman
J. A. Moore
J. Oliphant
W. H. Sykes
Henry Willock
H. Alexander
Bengal
Finance Department

1 Coll.

19th Committee
24th August 1850

Officer 26th August 1850

In your letter
No. 13 of the 30th March last, commenting on the
inquiries made under the
authority for the Construction
of the Nabobnagar Light-
House on the island of
Pedra Branca, we are
informed that an Agreement had
been made with a Chinese
Contractor in the commencement
of the building, and in
March last under the
supervision of the
Government Surveyor, Mr.
Hinman, whose
qualifications are represented
to be such as to justify the
hope that the work will be
conducted expeditiously to a
satisfactory termination.

W.E
9. We cannot comply with the desire of the Committee of the Chamber of Commerce at Singapore, that the amount of the sums to be advanced from the public treasury towards the expenses of the siege during its duration, be extended over a series of years. It is the wish of the Committee that, out of the produce of the erected tax and duty on shipping which is available in the establishment of two other lights in the neighborhood of Singapore, but we must decline to accede to any such proposition until the Perak Bight question(1) that has been completed. We shall reserve the debt incurred on account of that question to be settled before we are 'paid' the sum of due to appropriated to any other purpose.

10. The letter mentioned by you as naming your address of the Governor of the Malacca Settlements, the late Secretary, as your residence, has been received, but was delayed, taking any other as consequence, until the communication should arrive.
Bengal Marine 18th September (No. 31) 1830. 461.

as in the regular course.

though the measures of your Government. It appears by
the papers transmitted by
Colonel Brittenworth that
Mr. Allan Stevenson,
Engineer to the Commissioners
of the Northern Lights, has
been selected by Mr. Stevenson
to undertake the construction
of the lighthouse, lamps and
machinery. In the Sheringham
light-house, also that the
amount determined aon for
the lights cost is £ 1500;
and, on the ground of the
difficulty, risk, and expense
of negotiating through the
Kness of Agency on the Native
Settlements. Colonel
Brittenworth has deferred
the bargain that we will
abridge to Mr. Stevenson
due sum as he may
require for the provision of
the Articles in question.

But having been parties to

there
these arrangements, we should have preferred the adoption by Colonel Buttmere of the alternative suggested by himself, namely, that he should instruct the necessary advances to Major Stobart, either in large or smaller

14. You will communicate the substance of this Despatch to Colonel Buttmere, and at the same time acquaint him that it is our particular desire that he should exercise a vigilant control over the expenditures on account of the undertaking which we are to be kept as near as

Bengal Marine 18th September, (No. 31) 1850.

As possible to the amount of the original Estimate...

London
18th September 1850

Your loving friends
(Signed) John Shephard
J.W. Hogg
W. Milburn
J. Washington
R. Williams
W. Bayley
E. Macnall
J. Kelly, Meerpratt
J. Marshall
H. Corry
J. Dick
W. H. Lyall
Henry Bellcock
H. Alexander
Annex 47

Letter from Thomson J.T. (Government Surveyor at Singapore) to Church T. (Resident Councillor at Singapore) dated 2 Nov 1850
Date : 2 Nov 1850

No. 28

To,

The Hon'ble
Thomas Church Esq
Resident Councillor

Sir,

On the completion of this Season’s operations at the Horsburgh Lighthouse now in the course of erection on Pedra Branca and do myself the honor of reporting thereon to you for the information of Government.

It will not I presume be necessary for me at this stage of the works to trespass on your time and attention in detailing the obstacles and difficulties encountered during the progress of this unusual engineering undertaking in which I and my assistants have been engaged. I will therefore merely confine myself to laying before you a Statement of the work executed and what it is proposed to be done next Season for completing the whole.

The Masonry of the building has nearly been finished. This places the early and successful completion of the remainder beyond a doubt. The highest course laid is 80 feet above the level of high water, Spring Tides – 59 feet above the first entire course of masonry and 64½ feet above the lowest stone in the foundation. 11½ feet in height remain to complete the total elevation of the tower - which will be 91½ feet above N W Sp Tides. The original proposed height was 90 feet but 1½ feet will unavoidably have to be added to the height of the Light room wall to conform to the plans of the Lighting apparatus designed by Messrs Stevenson of Edinburgh.
The total sum expended on the works (exclusive of superintendence) this season amounts at this date to the sum of 9061 Sp. Drs. 23 Cents and the following is an estimate of the probable Cost of the remainder.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashlar stone work of Capital including parapet and Light room wall</td>
<td>1200.--</td>
</tr>
<tr>
<td>do of out offices</td>
<td>180.--</td>
</tr>
<tr>
<td>Granite pavement to rooms</td>
<td>250.--</td>
</tr>
<tr>
<td>Labour in erecting do</td>
<td>300.--</td>
</tr>
<tr>
<td>Tackle and machinery</td>
<td>100.--</td>
</tr>
<tr>
<td>Windows doors stairs and all fixtures including labor</td>
<td>500.--</td>
</tr>
<tr>
<td>Temporary houses for workmen</td>
<td>100.--</td>
</tr>
<tr>
<td>Hoisting and placing lantern and setting up</td>
<td></td>
</tr>
<tr>
<td>Lamp Machinery</td>
<td>200.--</td>
</tr>
<tr>
<td>Repairs to Tonkangs</td>
<td>100.--</td>
</tr>
<tr>
<td>Pay of her Crew for 3 months</td>
<td>192.--</td>
</tr>
<tr>
<td>2 Iron Rings let into Masonry</td>
<td>30.---</td>
</tr>
<tr>
<td>Nails baskets saws chisels hammers and other small articles</td>
<td>100.--</td>
</tr>
<tr>
<td>8 barrels cement</td>
<td>64.---</td>
</tr>
<tr>
<td>Cash Keeper and watchmen 10 mos</td>
<td>150.---</td>
</tr>
<tr>
<td>Contingencies and unforeseen expenses 10%</td>
<td>346.60</td>
</tr>
<tr>
<td>Amount already expended</td>
<td>3812.60</td>
</tr>
<tr>
<td>Total</td>
<td>12873.83</td>
</tr>
</tbody>
</table>

The original Estimate amounted to 13, 101 Sp Dollars 78 cts it may therefore with confidence be anticipated that the work according to the original plans and specifications – if not somewhat less in Cost will not be exceeded.

The sum expended for superintendence amounts to 527$22 – 454$50 having been paid to Mr Bennett the foreman for 10 months services at 100 Rs and 72$72 to the temporary extra foreman Mr Lewis at Pulo Ubin for 1 month and 20 days. The anticipated remaining Cost on this head will be
My own deputation allowance for 2 years @ 150 Rs  
Mr. Bennett’s salary for 1 year @ 150 " 818.04
Mr Lewis do for 1 month at 100 " 45.45
My table allowance when on board the “Hooghly” 227.25

Amount already expended 527.22

Total Sp Drs 3253.94

Adding the Cost of works to the Cost of superintendence the total anticipated Cost of works already sanctioned (exclusive of lantern and machinery) will be 16, 127 Sp Dollars 77 cts.

The experience of a season’s operations at the work has shown me the necessity of some additions to the original plan which I could not possibly have anticipated as being required for the comfort and safety of the light keepers having only had prior to the commencement of operation a few cursory visits when any peculiarities in the formation of the rock did not strike me as being possible to be taken advantage of also the action of the waves around the rock have proved considerably different to what I had expected. The arrangements that I had designed for the landing have thereby proved ineffectual.

The first addition I would humbly proposed is a platform of stone 18 feet by 20 feet to be constructed near the entrance to the light house where stores and water could be laid preparatory to their being hoisted into the building. The rock being rugged and uneven makes the construction of a platform extremely desirable.

The second addition I would propose tho’ not necessary, I feel convinced will meet your ready sanction is in having a small garden - which it happens can easily be made in a gully between two of the highest rocks. The size will be in miniature only 14 feet by 20 feet but the recreation and occupation of mind not to say relief to the eye by giving it something green to
rest upon in the surrounding expanse of sea will I hope be accorded to the solitary beings that will tenant the rock.

The third is in a new landing place to be cut out of the north east rock. This I find is the only place that a landing can be effected during the strength of the South West Moonsoon. In the light where I had made the present landing stairs the influx and reflux of the Sea is so great that unless in calm weather it is unapproachable.

The fourth is for channels for collecting rain water. The utility of this I need hardly dilate upon.

And the last in the construction of a wooden pier of the best timber on the south side of the rock so that by its means a landing may be effected during calmer days of the North East monsoon — its mode of construction cannot yet be determined upon until I have an opportunity of viewing the force and play of the waves rained the rock during the strongest part of the NE monsoon for which purpose it would be of great consequence that I frequently visit the rock in these coming months.

The following is the probable cost of the above additions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>388. - -</td>
</tr>
<tr>
<td>Garden</td>
<td>86. - -</td>
</tr>
<tr>
<td>Landing place</td>
<td>100. - -</td>
</tr>
<tr>
<td>Channels to catch rain water</td>
<td>50. - -</td>
</tr>
<tr>
<td>Wooden pier on south of rock</td>
<td>200. - -</td>
</tr>
</tbody>
</table>

Total: 824. - -

Contingencies and unforeseen expenses 10% 82.40

Sp. dollars 906.40

I would humbly solicit the early decision of Gov. regarding these additions as in order to have them finished in good time next year. The stone part should at once be commenced upon at Pulo Ubin. If these additions be sanctioned they will render the works at the rock as complete as could be desired. The construction of proper landing places as experience of the action of the waves have pointed out in the passed SW monsoon and will point out in this coming
NE monsoon, I conceive, will be a great desideratum to obtain, and they will obviate much expense trouble and accidents in future times and they cannot be more easily and unexpensively executed, than while the other works are progressing. These will complete the permanent works.

I would next beg your kind attention to the furniture and moveable articles which tho not in the original estimate are essential to the completion of arrangements for showing the light and the works could not be handed over with safety by me to the functionary who will be intrusted with the maintenance of the light, until everything has been satisfactorily put into regular routine. I can scarcely anticipate every minute article that will be required but will enumerate the following articles and fittings which I think will include nearly the whole

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock</td>
<td>1</td>
<td>bro 1 forward</td>
<td>30.</td>
</tr>
<tr>
<td>Argand Lamp</td>
<td>1</td>
<td>20 water barrels</td>
<td>10.</td>
</tr>
<tr>
<td>Hanging Tackle for heaving up</td>
<td>3</td>
<td>6 brass wash basons</td>
<td>9.</td>
</tr>
<tr>
<td>1 Boat</td>
<td>1</td>
<td>Davits for do</td>
<td>100.</td>
</tr>
<tr>
<td>provisions</td>
<td>100.</td>
<td>8 chairs</td>
<td>30.</td>
</tr>
<tr>
<td>9 bedsteads</td>
<td>27.</td>
<td>3 Tables</td>
<td>16.</td>
</tr>
<tr>
<td>1 Telescope</td>
<td>16.</td>
<td>30.</td>
<td>192.</td>
</tr>
<tr>
<td>over</td>
<td>192.</td>
<td>30.</td>
<td>454.</td>
</tr>
<tr>
<td>Contingencies 10%</td>
<td></td>
<td>12.</td>
<td>45.40</td>
</tr>
<tr>
<td>Sp h Dollars</td>
<td></td>
<td>499.40</td>
<td></td>
</tr>
</tbody>
</table>

Regarding the requisite Establishment of Keepers &ca I did myself the honor to offer some suggestions in my letter No. 20 of 1848. In that I proposed that the gunboat should be charged with the duty of carrying out stores and provisions and that 3 Europeans and 3 natives should be employed to watch the light. Subsequent experience and close attention to the subject which I then had not had opportunity to obtain have considerably modified my opinions. I therefore now take this opportunity to lay before Government the alterations that I would humbly suggest in this department with such information as bears on the point. The objections that occur to me against the former proposed arrangements are in the smallness of the party of Keepers left on so solitary and distant a position without protection at hand. And the great length of time they would be debarred communication in case of
sickness or accidents to any of them. In similar situations in Britain the
greatest case is taken that the Keepers should never be debarred from
communication with the shore. Thus the Bell rock light house has its shore
station 12 miles distant at Arbroath where a party is always on the watch for
the signal from the lighthouse denoting that communication is required, where
a vessel that is kept solely to tend that light house immediately puts to sea.
The same is the case at Skerryvore(Sic) and I believe at every other
lighthouse of kindred nature - Such as the Eddystone Tuscar, Carlingford,
Naplin and one or two others. The Horsburgh lighthouse which is as distant as
any of these from the nearest shore namely 10 English miles, on a rock as
barren, situated in a position most important to the valuable trade of the East
where cargoes of the richest and vessels of the largest and most valuable will
depend for their safety on the uninterrupted showing of the light. I trust that it
will appear to Gov1, should have all the care and attention paid it that such
structures have in the mother Country. The employment of a larger body of
men at the lighthouse on another account which does not exist on British
Shores is in the number of Pirates that continually infest these Seas. I need
hardly recall the many instances that occur to prove the extent of Piracy. I
may mention one in the plunder of the town and the capture of the inhabitants
of Singkil by the Lanuns two years ago, a place situated only 90 miles from
Singapore. It may be true that the building as constructed would hold out
against most of the piratical vessels that would attempt to molest it if they
should be so inclined, but I would humbly suggest that means should be taken
to prevent altogether such an occurrence. Point Romania the nearest land to
Pedra Branca is the best situated for such a station as are always attached to
the British Light houses, it is also the point most notorious for the piracies
committed in its proximity and consequently the most dreaded by native
traders. The fact that as piracies have been committed at the spot this year
where one or the other of the Gunboats was always stationed, strongly
convinces me that a station there would be eminently subservient to two
purposes viz the protection of the native trade from pirates and the tending of
the Lighthouse. Were I not aware from previous conversations with you that
there are insuperable objections to erecting a station there, I would have
earnestly recommended to your favorable consideration the erection of a
station on that point in which an armed party of not less than 14 men and two boats could be placed, one a fast pulling boat for in shore duty and the other a safe built boat for Sea duty. Here a constant watch could be maintained on the lighthouse and their rapid presence could be had at the rock in case of need. If such an arrangement could be made I would not advise more than 3 men being stationed at the light house at one time viz 1 European and 2 natives which would render a total establishment of 2 Europeans and 3 natives sufficient. The Europeans changing duty monthly and the natives every two months by turns in having a small establishment at the rock a great desideratum is gained in the small quantity of water and provision required to be sent out. In case of this arrangement being found inadmissible as the next best course, I would humbly propose that a Gunboat be always stationed at Point Romania, and in case of her absence to be relieved by another, but in case of the absence of both - a boats crew of 6 men to be left with the light keepers who would thus form a party that would prevent the risk of any molestation. The lighthouse boat of course would be there to carry off the 6 men in case of necessity, such as the want of water and provisions. The third and last proposal that I would trespass on your consideration, should the other two be found impracticable, is in the augmenting the party at the rock to 1 European and 8 natives, 2 of the latter would be light keepers and the others to form a boat's crew for a boat which should always be hoisted upon the rock this would render a total establishment of 2 Europeans and 12 natives necessary the former to change monthly and the latter every two months - but a serious objection against this proposal is in the large quantity of water and provisions that would be required - but it appears to me to be the smallest scale that could safely be maintained to carry out the permanent object of the service, viz the steady maintenance of the light where once shown, under this arrangement it would be only necessary for the Gunboat or Steamer to carry out provisions and water monthly to the rock and for the changing of the watches.

Where the lantern is to be of valuable metal and the lamps and reflectors to be of the finest and latest improved construction, in which much silver and copper is used, I hardly need suggest that strict rules should be
carried out against those half fishing half piratical sect called the Orang Ryot or Laut, being allowed to obtain admittance into the building. They frequently visit the rock, so their visits should never be encouraged nor any trust be put in them as they would be sure to pillage the building if they found themselves strong enough. In the Straits and inlets of the neighbouring shores and Islands many are the lives taken by these people, when the object to be obtained is only a bag of rice or other articles of little more than one or two dollars value.

It remains for me to state what is proposed to be done now and next season. The Capital of the Pharas Pillar is now in the hands of the Stone Cutter at Pulo Ubin. It is to be of Superior style of workmanship to accord with the beautiful design for the lantern sent out by Messrs Stevenson. Mr Bennett the foreman is now there engaged on that work. I would also propose to place in hand immediately the extra stone work required for the platform if sanctioned. The Tonkang boats &ca are also undergoing repairs at Pulo Ubin. These were much damaged against the rocks at the Light house. In Singapore the stucco mouldings, doors windows copper and brass work and all other fittings and finishings will directly I have leisure from other duties have to be commenced upon and finished before we proceed out to the Rock again. The repairs to the Gunboat “Nancy” should also be completed as early as possible, her reported crazy state was a constant source of anxiety to me during the last season. It is of the greatest importance that we should now be well informed of the state of the weather out at the rock during the North East monsoon such as the times that the monsoon sets in, ceases for a time and when it blows strongest. Also the action of the waves on the rock should be narrowly watched so that the requisite arrangements may be made for the construction of the landing pier &ca - for that purpose I would propose keeping the “Charlotte” stationed at Point Romania to put out to the rock as opportunity offered and to register facts connected with the above points. It would also be extremely desirable that I should go out at least once every month to judge for myself, for upon these facts when ascertained will depend all concluding arrangements and plans which could scarcely be made without a thorough knowledge of them.
By the first of March next year the gunboats should proceed to Point Romania to prepare spars, watering place &c, and to be ready to report when a landing can be effected. When a landing is reported possible I would first propose, after our water and provisions have been got on shore landing with only Malays, Convicts and 2 Chinese Carpenters. The former to prepare the attap sheds. The Convicts to bore and blast the rocks at the new landing place and the Carpenters to erect our temporary house and also the temporary pier. These arrangements would be sufficiently forwarded in 14 days to receive the Stone Cutters and masons, when the building and outworks can be at once commenced on, we would have the building ready for the Light Apparatus and lantern by the middle of June and the outworks &c during July and if no accident occur everything would be completed by September. The showing of the light could probably take place in October. For this purpose it would be necessary to have the light Keepers and their establishment ready in August so that they might undergo two months instructions before having the duties left to their sole charge.

I have the honor to be
&c
Sd/ J.T. Thomson
Gov't Surveyor

Singapore 2nd
Nov/50

True Copy
(signed)
No. 29

To, Mr. Biddle
Thomas Church Esq.
Secretary Censor

Sir,

On the completion of this season's operations at the Hendon Lighthouse near the cause of the Lighthouse on Long Island, I do myself the honor of giving you to know, for the information of the Scrutineers.

It will not be necessary to explain the nature of the works to be proceeded on at this time; and attention is directed to the obstacles and difficulties encountered during the progress of this unusual engineering work, and taking in which I and my assistants have been engaged. Sufficient, therefore, I concur myself to laying before you a statement of the work executed and which was proposed to be done next season for completing the whole.

The building of the lighthouse has nearly been finished; this season's efforts and successful completion of the structure beyond a doubt. The highest course has been 90 feet above the level of high water. Spring Line, 63 feet above the first course of brickwork and 42 feet above the lowest stone in the foundation. Height in height remains to complete the total height of the tower — which will be 91½ feet above sea level. The original proposed height was 90 feet but 1½ feet was uneasily done; it has been added to the height of the light-house wall to conform to the plans of the lighting apparatus designed by Messrs. Stevens, Edinburgh. The total sum expended on the works (exclusive of superintendence) this season amounts to the sum of
The original estimate amounted to 13,101$. of which 7000$ were paid to M. Antignac, for 10 months' services at 100$. per month, and 7000$ to the temporary workmen. M. Lewis at 60$, twice for 1 month and 20 days. The amount of the original estimate, which has been paid for, is 489. 20.

The amount already expended is 3911. 25.

Intentional allowance for 1 year to the Intendant amounts to 527. 22.

Wages to the Intendant for 1 year, 841. 00.

Wages to the Intendant for 1 month, 100. 68.

The total amount paid for the Intendant's services is 947. 90.

The amount already expended is 3263. 99.
Adding the Cape of Good to the Cape of Spain, we introduce the totally anticipated Cape of Good already sanctified by ceremonies of devotion and machinery. It will be 19,127.66 dollars 77 cents.

The experience of past years' operations at the most has shown how the immediate benefits of these additions to the original plan, which it was not thought necessary to encroach on, are not being realized. The economy and safety of the lightkeepers' quarters have been hindered by the commencement of works from the commencement of works, and some/visits show any peculiar advantage in the formation of the rock. The cost and the size of the rocks and the rock have proved considerably greater.

The first addition: I would hereby propose is a platform of stone 18 feet by 20 feet to be constructed near the entrance to the light house where stores and water could be laid preparatory to their being painted into the building. The rock being rugged and uneven makes it difficult to construct a platform externally desirable.

The second addition I would introduce the 'not necessary idea that would meet you. The advantage is in having a small garden which it happens can easily be made in a well between, two of the rocks. The rock will be in miniature only 14 feet 6 inches, but the recreation and occupation of space must be of service to the eye by giving it something green to rest upon in the
I am happy to report that the works are progressing well. The work is expected to be finished in good time next year. The small part should be done before - at least until the heavy rains set in. The works at the rock as complete as could be desired. The construction of the lighthouse at the entrance of the river is at a standstill and will not be completed before the next season.

I am sure you will be agreeable to the idea of improving the works. The works are now in hand and will be completed in time.

I would request your kind attention to the furniture and musical instruments. The work of the original setup is essential to the completion of the arrangement. I am confident that the works could not be handled except with the assistance of the light. The maintenance of the light will be entrusted with the attention of the light. Until everything is in order, I can not anticipate every minute article that will be required. But will enumerate the following articles and fittings which I think will include nearly the whole.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock</td>
<td>1</td>
</tr>
<tr>
<td>Grand lamp</td>
<td>1</td>
</tr>
<tr>
<td>Piano</td>
<td>1</td>
</tr>
<tr>
<td>Table for living room</td>
<td>1</td>
</tr>
<tr>
<td>Bedstead</td>
<td>1</td>
</tr>
<tr>
<td>Telescope</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total:** 450

Cost: 199.40
Regarding the recent establishment of
navigators & I did myself the honor to offer
some suggestions in my letter No. 20 of 1848.
In that I proposed that the navigators should
be charged with the duty of conveying chart
papers and provisions and that 3 pilots and 3
assistants should be employed to
watch the light. Subsequent experience,
and closer attention to the subject, has led
me to realize that I had not had opportunity to obtain
the information and warnings that
were necessary for the establishment of
this department
and that it is necessary to have
such information and warnings as are on the
proper
The objects that occur to me against the
former proposals of arrangement are in
the smallness of the post, if keepers left
on its duties and distant a position without
protection as land. And the great length
of time they would be isolated communication
in case of sickness or accidents to any of
these. In similar situations in Britain
the greatest care is taken that the keepers
should never be isolated from communica
on with the shore—thus the Bell rock
light house has its shore station 12 miles
distant at Harrow. Where a post is alone
on the watch for the signal from the light
Hereby denoting that communication is required
when a vessel that is kept called to land
that light house immediate puts to sea.
I have in the case at Flensfjord and
the crews at every other lighthouse of
This is in fact the case with the
Edystone, Scapa, Cape Flack, Muckle and others.
others - The Kendaligh Lighthouse which is as distant as any of three from Had. Crescent there amount to Light House, on a rock as heretofore situated in a position most important to the valuable trade of the East. The Cargoes of the richest and most valuable will depend for their safety on the uninterrupted throw of the light. It is said that it will appear to the ship as if it should have all the care and attention paid to it that such structures have in the Western Country. The employment of a large body of men at the light house on another account which does not exist - British ships is in the number of Irish that continually infect these seas. Irish hand are the same witnesses that have ever before the excitement of terror. Every one in the plume of the town by the capture of the inhabitants of Kendaligh by the French two years ago: a place situated out 90 miles from Singapore. It may be true that the building as constant would hold out against most of the partial rebels who would attempt to molest it by force. The people not inclined, but some kindly suggest that means should be taken if not altogether such an occurrence. I want Romanov Russian land to Osaka. Besides is the best situated for such a station as are always attacked to British light house. It is also the point most notorious for the piracies committed in its proximity, and consequently the most need
In Native trade. The fact that no peace
had been concluded at the end of the year
while one of the chiefs of the seamen was
always stationed, though continuous, was not
a station. These would be a magnificent detriment
to our purposes by the protection of the Native
trade from pirates and the tendency of the
Lighthouse. Were I not aware from
previous conversations with you that there
are insuperable objections to erecting a
station here, I would have earnestly
recommended to Government the necessity
of erecting a station on that point, in
which an armed boat can be stationed
for two months with as much
result: once a month a boat could be
used, and two boats could be
planted. One a fast pulling boat for
shoaling and
the other a safe, shallow boat for
the river. Here a constant watch could be
maintained, in the light-house, and the lighthouse
service could be had at the rock in
case of need. If such an arrangement
could be made, I would not advise
more than 2 men being stationed at the
light-house at one time or 3 quarter-
hour watches. Each would render a
total establishment of 2 seamen and
3 watches sufficient. The seamen
changing duty monthly, and the watches
every two months by turns, is having
a small establishment at the rock
a great desideratum gained in the
small quantity of water and provisions
required to be kept on the spot.

This arrangement being fixed as the best
cost I would humbly
suggest not as a station to be always
stationed at Port Harman, and in
valuable metal and the launders and reflect to be of the finest and latest improved construction, in which much surface and coffee is used. I firmly need suggest that strict rules should be expedient against these half falling, half projecting posts called the strong lights. The coal, being allowed to obtain accommodations into the building, they frequently visit the room, to their credit would never be encouraged and any trust be put in them. As the would be sure to fill the building of their sound remedies strong enough. In the straits and islands of the neighboring shores, lands money are the lives taken by these people, when the object to be obtained is only a bag of rice or other articles of little more than one or two dollars value.

It remains for me to state what is proposed to the above among west seasons. The cataract of the Negro Belle is now in the hands. The stone cutter at Sulphur Wharf. It is to be of superior style of partnership to accord with the beautiful design of the mantels of the house of Belle's Wharf. We Bennett, the immediate former seven were engaged on that work. I would also propose to place in hand immediately the extra stone work required for the platform if sanctioned. The blockhouse boats were also undergoing repairs at Sulphur Wharf. They were much damaged against the rocks at the Lighthouse at Singapore. The stone buildings, doors, windows, coffee, rice work and all other fittings to finishings will directly have been from other duties have the commenced.
upon and furnish before we proceed out to the Rock again. The repairs of the "Punch" should also be completed as early as possible. The dry dock was a constant source of anxiety to me during the last season. It is of the greatest importance that we should now be well informed of the state of the weather and at the rock during the Northeast monsoons, such as the times that the Freshens set in. It is not often that it blows strong gales, and it seldom comes up at a time and place of my choosing. The waves on the rock should be narrowly watched so that the requisite arrangements may be made for the construction of the landing from it. If it is not possible, I would propose having the "Charlotten" stationed at Point Romania to put out to the rock as opportunity offered and to report facts connected with the same points. It would also be altogether desirable that I should go out at least once every month to judge for myself of what these facts were. The arrangements will be found all considered arrangements.
To Chinese Contractors: The Governor proposes the establishment of a lighthouse at the New London place and the Contractor to erect a temporary house and also the temporary pier. These arrangements would be sufficient for work and in 14 days to receive the stonecutters and masons, when the building and works could be at once commenced on. We would have the building ready for the lighthouse and lantern by the middle of June. The works to be done July, and if no accident occurs, everything would be completed by September. The showing of the light could be probably take place in October. For this purpose it would be necessary to have the lightkeepers and their establishment ready in August so that they might undergo two months instruction before having the duties left to their sole charge.

Jane McNaughton

S J Thomson, Superintend.

Fort Sherman

Nov 18...
Annex 48

Letter from Church T. (Resident Councillor at Singapore) to Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) dated 7 Nov 1850
Date : 7 Nov 1850

No. 128

Ans'd 4th Feb/51

To

The Hon'ble the Governor &ca

Sir,

I have the honor to annex transcripts of a Report from Mr. Thomson, the Government Surveyor (No. 28 dated 2nd Instant) on the completion of this season's operations at Pedro Branca.

2. Mr. Thomson's communication is extremely satisfactory, the Horsburgh Light House so auspiciously commenced and successfully prosecuted during the past season, may be viewed as an earnest, that under so able and energetic an officer as the present Government Surveyor, this most important work will be finished within the ensuing Year.

3. It will be seen, that Mr. Thomson recommends certain additions, the aggregate expense will be under 1,000 Dollars, they are obviously extremely desirable, and I would beg to recommend that Mr. Thomson be authorized to carry them into execution.
4. I observe Mr. Thomson advocates the Establishment of a Station near Point Romania, for the purpose of affording assistance to the inmates of the Light House in case of need, and also to suppress Piracy; an armed party of the strength suggested would, doubtless, be of some Service, but I doubt whether such is absolutely necessary, or commensurate with the permanent expense which such an establishment must necessarily occasion. Romania moreover belongs to the Sovereign of Johore, where the British possess no legal jurisdiction; it will of course, be necessary for the Steamer or Gun Boats to visit Pedro Branca weekly; some benefits would also accrue by requesting His Highness the Tumongong to form a village at Romania under the control of a respectable Panghuloo to render assistance to the inmates of the Light House in a case of emergency.

5. A short time prior to the withdrawal of the workmen, I visited Pedro Branca, and was equally surprised and gratified at the vast rapidity with which the operations had been carried forward, and the substantial and imposing aspect of the Edifice, it was distinctly seen at a distance of 12 Miles.

I have &ca

Sig'd. T. Church

Res’l. Councillor

The 7th Nov’ 1850
Sir,

I beg to inclose the Monthly Return of Trade, by which it will be seen that the trade on hand on the 1st instant, aggregated 1724 3 26.

The 5th Novr 1809.

I have the Honor to be,

Respectfully,

[Signature]

and 1 Febbr 128

I have since the honor to annex a copy of a Report from Mr. Thomson the Government Surveyor [128 20th 2] instant for the said completion of the survey of Forts at 29th and 30th.

2. Mr. Thomson's communication is entirely satisfactory, the Corsair having been so unanimously commented on and successfully prevented during the past season, may be regarded as an earnest that under the able and efficient care of the present Governor and Surveyor, the most important work will be finished within the ensuing Year.

3. It might be said, that Mr. Thomson recommends certain additions, the approximate expense will be under 1000. S. and as they are obviously calculated for future and would be difficult to get from the present Surveyor, he is authorized to carry them into execution.

4. I have since Mr. Thomson advises the Establishment of a Station near Louis D. 32, for the purpose of affording protection to the Africans of the Light. An isolated post of men, and also to suppress piracy an armed post of the strength suggested would, I doubtless, be of

[Signature]
Dear Mr. [Name],

I would like to express my gratitude for the kindness and assistance you have shown to the British community in this time of need. The recent events have been unprecedented, and your efforts have been crucial in ensuring the safety and well-being of everyone here.

The situation is rapidly changing, and it is likely that we will face more challenges in the coming days. I am confident that with your help and the support of the local authorities, we will overcome these difficulties.

Thank you once again for your invaluable assistance.

Yours sincerely,

[Signature]

April 12, 1858

129 No.

The Honble. the Governor.
Annex 49

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Seton Karr W. (Under Secretary to the Government of Bengal) dated 9 Nov 1850
To W. Seton Karr Esquire  
D/ Singapore 9th November 1850

Sir,

I have the honor to transmit the accompanying copy of a Letter from the Resident Councillor at Singapore*, giving cover to a Report from Mr Thomson the Government Surveyor on this Season's operations at the Light House, under construction at Pedra Branca, the first stone of which was laid, with masonic honors, on the 24th May last, being the anniversary of the Birthday of our Most Gracious Majesty Queen Victoria.

2 Mr Thomson has fully realized my utmost expectations, in the zeal, energy and skill, with which he has prosecuted his labors on this much responsible work, the most difficult part of which has been accomplished. The Structure which is most strongly built of the best Granite, now stands 80 feet above the level of high water, Spring Tides, and $64\frac{1}{2}$ feet, from the foundation, and this within 5 months of laying the first Stone.

3 If the Work in question had been executed within the same period at Singapore, it would have reflected great credit on Mr Thomson, but when the isolated position of Pedra Branca, 40 miles from this Town upon which he has been dependent for all supplies, and 10 from the nearest Land, is taken into consideration coupled to the fact of the contractor having run away, on the first appearance of the difficulties which surrounded the undertaking, and these were many and great (the Workmen on one occasion, having been brought away from the Rock on Casks, so fearfully did the surf break over it, and on
another, having mutinied,) I am sure that the Honble the Deputy Governor will concur with me in thinking that too much praise cannot be accorded to this most perseveringly zealous, and practically skilful officer Mr Thomson.

4 The success of the Work is now past doubt, but experience has shown the want of some adjuncts to the Light House, which it is desirable to put in hand forthwith. The first is a Platform of stone 18 feet by 20 feet, to be constructed near the entrance of the Building, for the reception of stores, preparatory to their being hoisted into the Light House. The next, although not imperatively necessary, will add so much to the comfort, and content of the Light House Keepers, by affording amusement, and preserving them from some portion of the excessive heat which strikes from the bare Rock, that it is a most desirable measure. This is a miniature garden, which it is proposed to make in a Gully between two of the highest Rocks. The third is a Landing Place, which I can speak from experience, is indispensable, to enable parties to visit the Light House but I would call particular attention to the thoughtfulness which has dictated the suggestion of channels, for the collection of Rain Water and these with a wooden Pier on the south side of the Rock, to facilitate landing during the Calmer Days of the North East Monsoon, when it would be impracticable from the force of the waves to approach close to the Rock, will complete the additional works required.
5 It is very desirable, as previously observed, to make every preparation for prosecuting the above Works during the present season, when all operations at the Rock have necessarily ceased, and I have therefore ventured to sanction them in anticipation of the approval of the Honble the Deputy Governor of Bengal, at the probable cost noted in the margin*, and at the same time, I authorised the following Articles of furniture & interior fittings for the Light House, with a Boat complete* &ca.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>$388.00</td>
</tr>
<tr>
<td>Garden</td>
<td>86.00</td>
</tr>
<tr>
<td>Landing Place</td>
<td>100.00</td>
</tr>
<tr>
<td>Channels to catch Rain Water</td>
<td>50.00</td>
</tr>
<tr>
<td>Wooden Pier on South of Rock</td>
<td>200.00</td>
</tr>
<tr>
<td>Contingencies + Unforeseen expenses</td>
<td>10% 82.40</td>
</tr>
<tr>
<td>Spanish Dollars</td>
<td>906.40</td>
</tr>
</tbody>
</table>

*taken from Mr Thomson report – See Enclosure to Mr Church’s letter dated 7 Nov 1850 No 128

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 clock</td>
<td>$30</td>
</tr>
<tr>
<td>1 Argand Lamp</td>
<td>10</td>
</tr>
<tr>
<td>3 Hanging Lamps</td>
<td>9</td>
</tr>
<tr>
<td>Tackle for heaving up provisions</td>
<td>100</td>
</tr>
<tr>
<td>9 Bedsteads</td>
<td>27</td>
</tr>
<tr>
<td>1 Telescope</td>
<td>16</td>
</tr>
<tr>
<td><strong>Carried forward</strong></td>
<td>$192</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broth (Brought)</td>
<td>$192.00</td>
</tr>
<tr>
<td>20 Barrels</td>
<td>100.00</td>
</tr>
<tr>
<td>6 Brass Wash Basins</td>
<td>12.00</td>
</tr>
<tr>
<td>1 Boat</td>
<td>90.00</td>
</tr>
<tr>
<td>Davits for ditto</td>
<td>40.00</td>
</tr>
<tr>
<td>8 chairs</td>
<td>8.00</td>
</tr>
<tr>
<td>3 Tables</td>
<td>12.00</td>
</tr>
<tr>
<td><strong>Contingencies 10%</strong></td>
<td>45.40</td>
</tr>
<tr>
<td><strong>Spanish Dollars</strong></td>
<td>499.40</td>
</tr>
</tbody>
</table>

6 Mr Thomson has offered some further suggestions regarding the Establishment for the charge of the Light House, and I am disposed to give much weight to what he has advanced, but I think it would be expedient to await the termination of the present inclement season during which every means will be resorted to, for the purpose of obtaining information, regarding the force of the waves upon the Rock, and the possibility or otherwise, of access to it, between this time, and March next, when I shall be better able to give my final views upon this important point but I am persuaded the Hon’ble the Deputy Governor, will countenance me, in having an establishment, for the first few months at least, somewhat in excess, rather than in the smallest degree below, what may eventually be found absolutely necessary.
7 I am disposed to combine Mr Thomson's several propositions, by having a large party at the Light House, ie One European, and 8 Natives - with one European, and 4 natives on leave, so as to give the former relief every month, and the latter every two months. During the fine weather, when the Rock is readily accessible, and provisions can be furnished without difficulty, and having a small party, say one European, and 3 natives on the Rock, during the north east monsoon, with a fast pulling Boat, and 9 natives at Point Romania, with one of the Singapore Gun Boats, but I shall do myself the honor to report again on this subject, after the termination of this monsoon.

I have &ca
Sd/W. J. Butterworth

9th November 1850 Governor
his labor on this most responsible Work, the most difficult part of which has been accomplished—the
Arch that is most strongly built of the best Granite, now stands 80 feet above the level of high water
Spring Tided, and 64½ feet from the foundation, and that within 5 months of laying the first stone.

3. If the Work in Question had been executed within the same period at Singapore, it would have reflected
Great Credit on Mr. Thomson, and fixed the isolated position of the Frigate, which by landing troops, had been supplied
40 miles from the Sunda; and 10 from the Manar. Indeed, is taken into Consideration, should be the fault of the Contractor having
run away, or the first appearance of the Afflicted which surrounded the undertaking, and those were many
and
and great (the Workmen on some occasions, having been brought away from the Rock on Cohk, the fearfully and the Surf break over it, and on another, having continued,) I am led to believe the Deputy Governor will come to this point, and to my thinking, that so much more can be done. Accorded to this most perseveringly Zealous, and painstaking Officer Mr. Thondow.

The success of the Work is now past doubt, but experience has shown the want of some adjacent is the Light House, which it is desirable to billimbrand forthwith. The first is a Platform of Stone 6 feet by 20 feet, to be constructed near the entrance of the Building, for the reception of Stairs, preparatory to their being bored into the Light House. The next is nothing that Temporarily necessary, will add so much to the Comfort and Content.
of the Light House Receipt, by
affording Amusement, and thus
removing them from some portion
of the excessive heat which strikes
from the back Rock, that it is by
midst Asriable measures, thus. As a
Miniature Garden, which it is proper
to make in a Gully between two
of the highest Rocks. The Mind is
a Landmark Place, which I could
speak from experience, is in itself
valuable, to enable Parties to visit the
Light House, but Scared only
particular attention to the thought
which have indicated the
Suggestion of Chandler, for the Collection
of Rain Water, and lined with Al
Wooden Pier on the South Side of
the Rock to facilitate landing during
the Calmer Days of the North East
Monsoon, when it would be for

Practical
Mr. Thomson has offered some
further suggestions regarding the re-
stitution for the change of the Light
House, and I am disposed to give
much weight to what he has proposed
but I think it would be expedient
to expect the termination of the Pre-
sent preludial season, during which
meanwhile will be resorted to, for the purpose
of obtaining information regarding the
force of the Wavc upon the Rock, and
the possibility of otherwise of gaging
to it, between this time, and March
next, when I shall be better able to
to give any final decision upon this point.
Permit me, Sir, to say earnestly to
the Hon. the Deputy Governor, and
Commissary, that, in having an Es-
cablishment for the first few months at
least, somewhat in excess, rather than
in the smallest degree below what may
eventually...
Eventually he found absolutely need

I then decided to combine the

Shoemore's several propositions, by having

a large party at the Light-House &c.

One European, and 8 Fakir's with One

European, and 4 Fakir's on leave, as

so to give the former relief every month;

and the latter every two months, during

the fine weather, when the Rock is

readily accessible, and provision can

be furnished without difficulty, and

having a small party, say one European

and 3 Fakir's on the Rock, during

the south east Monsoon, with a good

fulling Boat, and I Fakir on Paul

wwwanipal, with one of the Bengalmeer

Gun Boys, but I chose to myself

the honor to perform Agama on this subject.

After the determination of this business

Thirteenth

1st November 1831

Garrard

C. M. Tren

Garrard
Annex 50

Letter from Thomson J.T. (Government Surveyor at Singapore) to Allan Stevenson (Engineer to the Northern Light Board at Edinburgh) dated 20 Jan 1851
Date : 20 Jan 1851

No. 6 of 1851

To Allan Stevenson Esquire

Engineer to the Northern Light Board

Sir

I ...... Thomas Stevenson last month enclosing a despatch from the Court of Directors ..... in which they agreed to advance you £1,500 on showing voucher from me, have since thought that the Honble Court would require more formal documents and consequently send of the ..... ..... ..... by the Resident Councillor which (if you have not already received the amount) you will be so good as forward to the ..... ..... and I would no doubt that the amount will be immediately paid to you.

Further ..... ..... ..... that as possible delay may occur in forwarding the articles out to Singapore. I have written to Messrs K. W. Rawson & Co of Singapore placing in their hands the sum of 2000 Sp Drs (nearly £500) with a request that they transmit the sum to their firm in London Messrs Rawson Norton & Co. who will communicate with you and who are empowered to receive the cases containing the Lantern machinery and lighting components ..... ..... ..... and to pay you what were extra expenses beyond the £1500 you have expensed should they not exceed the £500 inclusive of shipping charges.

..... working ..... is near at hand and as it will be without fail be ready to place the Lantern on by the end of May next at furtherest, I trust you will forward the articles without delay, as the Govt and shipping interest - will feel the greatest disappointment if the light cannot be shown before next stormy season which comes on in October or November.

If possible also please send plans of the machinery & directions to put it up, also directions for maintaining the light and cleaning the reflector, a year
or two has supplies of ..... and ..... ..... ..... and any other ..... articles you think may not be procurable ..... ..... ..... 

..... ..... No ..... of 18 ..... ..... to Mr Thomas Stevenson, I requested him to ..... shipping agents this ..... ..... necessary I remain 

Your _ 

Sd/ J T Thomson 

Surveyor 

Singapore 20th Jany 

1851
Annex 51

Letter from Thomson J.T. (Government Surveyor at Singapore) to Allan Stevenson (Engineer to the Northern Light Board at Edinburgh) dated 6 Feb 1851
Date: 6 Feb 1851

No 7

To Allan Stevenson Esquire

Sir,

I addressed a letter to you on the 20th January and as since then the mail ..... ..... England. I am much disappointed that it ..... no communication from you, as the time is fast approaching that the articles belonging to the Horsburgh light house, construct in the ..... ..... ..... ..... will be urgently required and the early receipt of which will present the showing of the light next stormy season. I should have been glad to have however the cause of the delay, from yourself whether owing to misunderstandings with the Court of Directors or ..... other cause. I am under the circumstances only guess at, and under this state of ..... ..... at a loss what ..... ..... ..... to satisfy you or the ..... ..... which if I had been made aware of, I would have promptly ..... ..... probably ..... this ..... delay. ..... ..... ..... ..... would be ..... may have shown as I ..... made ..... by ..... ..... my relative ..... Mr John ..... ..... ..... by Mr David ..... to ..... the case, maybe perfectly justifiable by circumstances connected with ..... ..... upon this subject with ..... ..... by ..... ..... to ..... £1500 ..... ..... ..... but you ..... ..... told me that anything disagreeable has happened, and it would be improper in me to anticipate that such should have been the case, as I am not aware of it.

If you have not received the £1500 from the Court of Directors. I hope there will be no trouble in your obtaining it, on the showing of the document signed by myself and the Resident Councillor forwarded with my letter dated 20th Ulto and that Messrs Rawson Norton & Co of London, will do all the rest required and I trust it will appease to you, if you consider the position I am placed in, by your silence as to have the work under your charge is ..... - the ..... cost – which information ..... ..... that I have .... all that could be
expected. I may mention that the cost of the light house is not defrayed by any private body nor any special fund, tho' nearly half the expenses were met by private subscriptions, but that the Govt ...... ...... have undertaken the work on their own responsibility, and will have it executed at whatever cost, and thus I am glad to say is placed beyond question will not exceed by £500 my original estimates nor will it amount to anything near what the Court of Directors in sanctioning the work anticipated and subsequently were ready to pass.

On receipt of this letter I would beg the favor of your informing me. Should the articles not yet have been shipped – when they will be ready for shipment & the cost including your commission ...... if this does not exceed £2000 ...... ...... ...... will meet the demand, but if ...... further reference to Govt will be necessary before I could disburse the amount.

Singapore no. 6th Feby 1851
I remain Sir
Your Obd' St
Sd/ J T Thomson
and the President Council from which will it be published. I wish that no rank

have the honor of presenting to you—by your Excellency and your friends the public service of the President of the United States—a

the honor of presenting to you—by your Excellency and your friends the public service of the President of the United States—a...
Annex 52

Letter from Thomson J.T. (Government Surveyor at Singapore) to Allan Stevenson (Engineer to the Northern Light Board at Edinburgh) dated 1 Apr 1851
Date: 1 Apr 1851

No. 10

To:

Allan Stevenson Esquire
Engineer to the Northern light house Board
Edenburgh

Sir

I acknowledge receipt of your letter dated 23rd Dec & Mr Thomas Stevenson dated 18th Jan, & duplicate of the same dated 20th Jany.

In reply I trust the financial arrangements have now been placed on a satisfactory footing. The misunderstanding regarding this subject had been the cause of great perplexity to us, and I am glad to note that it originated from Mr Thomas Stevenson mislaying the original letter which referred you to the Court of Directors for payment, and that it was not deemed by that disavowal of that body of commission with the light house, as I had been led to anticipate, from the great delay that has taken place in executing the stone (?) of the light house works entrusted to you.

I have redesigned the plan of the ...... instrument and have no doubt when we once get it that it will be a most satisfactory apparatus ...... to note that you are ...... the works, ...... ...... ...... The weight that ...... to the machinery, does it ...... ...... ...... ...... the building, are to the ...... floor of the Light room. ...... channel down ...... of the walls for this purpose in case the weight ...... ...... the rooms.

...... ...... ...... ventilation will ...... be required. We have too little air ......

If the apparatus be yet shipped Messrs Rawson Norton & Co. of London will take charge, you I trust will see the absolute necessity of dispatch.
We have ..... operations and will not be later than end of May in having the building ready for the Lantern.

On my last ..... to the rock I found every thing swept away except the Light hanger and a few materials packed in a sheltered part of the rock near to its base, a heavy spray only affects this part. There is no remnant of out ..... ..... dwelling houses and work sheds, there have been partly re-erected and were not entrusted to stand the force of the N.E Monsoon, their loss is easily repaired by the abundant materials in the forests of the adjacent coasts. The building will be finished. ..... at a sum less than the original estimate.

Singapore 1st April 1851 Sgd. J T Thomson
Annex 53

“Statement of the Proper Receipts and Disbursements at Singapore for the Official Year 1850-51, exclusive of Military and Convicts” in the Singapore Free Press and Mercantile Advertiser (31 May 1851)
to the tiger, who was dragging his victim into the jungle. Instead of us usual, skulking off when thus overtaken,

<table>
<thead>
<tr>
<th>Statement of the Proper Receipts and Disbursements at Singapore for the Official Year 1850-51, exclusive of Military and Convicts.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>Amount of Excessive Fines received in 1850-51</strong>: 245,832</td>
</tr>
<tr>
<td><strong>Do. of Fees from the Court of Judicature ditto</strong>: 20,853</td>
</tr>
<tr>
<td><strong>Do. of do. from the Court of Requests ditto</strong>: 8,984</td>
</tr>
<tr>
<td><strong>Do. of Quid Rent ditto</strong>: 21,180</td>
</tr>
<tr>
<td><strong>Do. of Transfer Fees under Act 16 of 1850 ditto</strong>: 3,024</td>
</tr>
<tr>
<td><strong>Do. of Fees on Surveying Land ditto</strong>: 333</td>
</tr>
<tr>
<td><strong>Do. of Land sold for Agricultural purposes ditto</strong>: 6,410</td>
</tr>
<tr>
<td><strong>Do. of Fees on the Registry &amp;c. of Vessels ditto</strong>: 1,180</td>
</tr>
<tr>
<td><strong>Defeat—Credited to H. M. Government ditto</strong>: 7,482</td>
</tr>
<tr>
<td><strong>Do. Rent of Government Houses ditto</strong>: 1,061</td>
</tr>
<tr>
<td><strong>Do. Premium on Bills of Exchange and on Subscriptions to the Loan ditto</strong>: 12,002</td>
</tr>
<tr>
<td><strong>Do. Miscellaneous Receipts ditto</strong>: 5,186</td>
</tr>
<tr>
<td><strong>Company's Rupees ditto</strong>: 435,811</td>
</tr>
</tbody>
</table>

| **B** |
| **Salary of Resident Councillor**: 24,000 |
| **Do. of Assistant Resident**: 4,000 |
| **Do. of Assistant to the Governor**: 9,000 |
| **Resident Councillor's Establishment**: 3,800 |
| **Court of Judicature Establishment at Singapore**: 16,463 |
| **Sheriff's ditto**: 6,076 |
| **Coroner's ditto**: 1,834 |
| **Court of Requests ditto**: 4,974 |
| **Seaman's Hospital ditto**: 2,493 |
| **Pauper and Insane Hospital ditto**: 1,989 |
| **Vetingilling Paupers**: 1,084 |
| **Salary of Chaplain and Establishment**: 6,086 |
| **Salaries of Senior and Assistant Surgeons**: 11,841 |
| **Post Office Establishment**: 5,013 |
| **Revenue Department Establishment**: 5,290 |
| **Import and Export Office Establishment**: 5,420 |
| **Signal Establishment**: 340 |
| **Political Pensions**: 18,539 |
| **Local Pensions**: 4,239 |
| **Schools**: 5,014 |
| **Master Attendant's Department**: 7,090 |
| **Establishment, Provisions & Co. of Gun-boats**: 6,113 |
| **Charlотов and Franchise**: 4,160 |
| **Buildings and additions to Buildings**: 9,020 |
| **Repairs to Buildings**: 5,657 |
| **Loss on discharging Salaries &c**: 4,880 |
| **Assessment on Government Buildings**: 3,989 |
| **Contingencies General**: 3,000 |
| **Do. Judicial**: 15,800 |
| **Do. Medical**: 15,000 |
| **Do. Post Office**: 1,130 |
| **Do. Ecclesiastical**: 118 |
| **Do. Revenue**: 182 |
| **Do. Import and Export**: 258 |
| **Do. Marine**: 186 |
| **Do. Military**: 187 |

| **Company's Rupees**: 435,811 |

(continues to next page, overleaf)
Statement of Expenses incurred for the Military serving at Singapore during the Official Year 1850-51:

- Amount paid at Singapore to the Troops stationed there, including Commissariat, Engineers and Magazine Dept.: 108,488.5.1
- Amount paid at Madras on account of Family Certificates: 85,833.8.11
- Value of Provisions issued to the Troops: 8,665.12.8
- Military Pay of his Honor the Governor: 2,992.0.0
- Military Stores issued to Troops (unknown): 1,481.0.0
- Expenses incurred for the Periodical relief of Troops (do):

1st May, 1851

Singapore, 1st May, 1851.

Piracy.

A case of piracy on a small scale has just been reported. Several Bugis had proceeded to the Carimona for the purpose of avenging the murder of their countryman, afterwards went out in search of the pirates but returned unsuccessful, having probably found them on Pulo Damulor, engaged the boat of a Bugis woodcutter, intending to cross to Singapore. When at a short distance from Pulo Damulor, they met a large sam...
Annex 54

Letter from Thomson J.T. (Government Surveyor at Singapore) to Church T. (Resident Councillor at Singapore) dated 20 July 1851
Date: 20 Jul 1851

No. 15 of 1851

To the Honorable

T Church Esquire
Resident Councillor

Sir

As the Horsburgh Lighthouse on Pedra Branca is near its completion so that on the early expected receipt of the Lighting apparatus the light may be shown in the building, and as at present I am only under orders to complete the building and its appurtenances. I would humbly solicit information regarding the instructions of Govt – whether or not I should be of service in carrying out the arrangements for future maintenance of the Light, in the procuring of Light Keepers, purchase of stores and in the executing of the other duties that will be necessary to keep the establishment in an efficient condition, or whether another officer would be appointed for this purpose.

As I have been orally informed by you that no final arrangements have been determined upon and that I might forward to you any suggestions that I might think worthy of the attention of Govt. I trust the following remarks and annexed papers may be of service. I have necessarily given much of my time to subjects connected with light houses and that illumination during these last two years, and I may not be forward in thinking that they will be useful, as they are connected with a subject that is part of general interest and are consequently little understood.
Light Keepers

On the subject of Light Keepers and establishment for the Light house, I made some suggestions in my letters No. 20 of 1848 and No. 28 of 1850 at the period of writing the former letter, the estimates of the building had just been made, at which time the rock had only been once or twice visited. My remarks regarding the future maintenance of the light (at that time uncertain of accomplishment) were necessarily short and immature as the peculiarities of the position had not been studied there having been no opportunity to do so, they were therefore subject to future correction. At the period of writing the second though I had the experience of one fair season spent in building operations, yet the knowledge of the state of the weather in the vicinity of Pedra Branca and of the action of the waves at and around the rock during the stormy season of the N E monsoon had not yet been observed. What remarks I have now to submit to your consideration I make under greater advantages than I possessed at these former times, having on several occasions put out to the rock during the last North East monsoon in order to ascertain the facts requisite to be known with regard to communication with the light house during that season, such as the possibility of changing the Light Keepers, furnishing stores &ca. What I now humbly suggest regarding the establishment necessary to the permanent showing of the light, I trust will be worthy of your favorable consideration.

In my letter No. 28 of 1850, I suggested three methods of keeping up an establishment for lighting the building. The last method proposed in that letter viz; of always maintaining on the rock a party consisting of one European and eight natives, seems now to me considering all circumstances, to be the best with some slight modifications. I have found that during every month of the N E monsoon that there will be opportunities to land the Keepers, tho’ water and heavy provisions may not always be possible to land; at the same time, access to the rock will not be closed for 4 or 5 months as formerly supposed. The difficulty of keeping all the establishment at the rock is therefore now not so great as formerly supposed, and the keeping of part of their body at Pt. Romania is consequently unnecessary. By having their whole
body at the Light House, this advantage is further gained in the sufficient protection of the building and its contents against pirates and other evil disposed persons, which would not be the case were only 3 or 4 men stationed there.

The establishment that I would now proposed will consist of thirteen individuals instead of fourteen as proposed in my letter No. 28 of 1850. And I believe it would answer all purposes if placed under efficient superintendence. It is as follows –

2 head Light Keepers Europeans
2 assistants – do – Malays
3 Tindals – do –
6 Lascars one of whom to cook – do –

13 Total establishment

The Light Keepers I would propose to change monthly and the Tindals and Lascars every two months, thus there would be always at the light house

1 head Light Keeper
1 assistant – do –
2 Tindals
4 Lascars

8 Total at the lighthouse

On shore on leave at Singapore there would be
For assistant Light Keepers Tindals and Lascars, I believe the Malays to be best adapted, in case of difficulty in landing which is of frequent occurrence, they are more expert than either Chinese or natives of India, in the management of boats they are in their element, while other natives are quite at a loss, either from inexperience or sea-sickness, to be good boatman is necessarily indispensable for Light Keepers in such a situation. For head Light Keepers, I fear Europeans, will not be obtainable under any moderate cost but respectable Indo Europeans will suit as well.

Superintendence

The establishment of a light house, held of the highest estimation to the maritime world, as the mariner looks to it to guide him on his approach to the dangers and narrow passages thro' which he had to pass out or in from the open sea, it is consequently of the utmost importance that the light be kept in an effective state. To this end the appointment of a responsible officer will be greatly conducive, without supervision the Light Keepers would be apt to relapse into carelessness, and the apparatus under their charge would inevitably be spoiled or very much damaged in its brilliancy. The practical effects of which would be in the devices of the light and consequently instead of being seen by the mariners 15 or 20 miles distance, it might only be observed half that distance in which case so far from .......... of use to shipping it would be a sure guide to their destruction. The Light houses of England which I believe are now mostly under the charge of the Trinity board have an eminent Engineer Mr .......... who is responsible for the practical working of the systems. The Scotch lighthouses, with which I am better acquainted thro' the writings of Mr Stevenson are under the Northern Light
House board to whom Mr Stevenson also an eminent civil engineer is responsible. The engineer's duty is to supervise the Light establishments, carefully examine the edifices and repair them when necessary also the lighting apparatus and machinery and to see that they are kept in an effective working order, and that the reflectors and refractors are not scratched and otherwise spoiled from the carelessness of the Keepers, so particular are they with regard to this that the slightest uncleanness about the light room that is detected is held sufficient cause of dismissal to the Light Keeper. The object of this careful attention to the conservation of the edifices and contents is that in distant places such as light houses generally occupy, large and costly repairs are avoided by immediate attention, and what is of greater importance any interference with the permanent showing of the light is also avoided. In the case of the Northern Light houses and I presume it is also the case with the English Light houses, all Light houses beacons, buoys Light house tenders, and establishments are under the direct orders of the Engineer and he is responsible for their efficiency. For the permanent maintenance of the Horsburgh Light House which occupies a very important position to the safety of the shipping touching at Singapore and these carry on valuable cargoes as in any part of the world, I believe if well will equally useful and necessary that the building and its establishment be placed under professional supervision. The light when first shown will not be equalled in brilliancy by any in India and its machinery and appliances to maintain its characters will require that knowledge and care which a person unacquainted with the subject or the construction and uses of the various parts cannot give. The art work to the building and appurtenances that do not form an integral part of the main building will require equal attention that their repairs may be effected before their stability be endangered. The efficient working of the whole system, depends on all the parts being kept in good order, otherwise the object of the establishments of the light is jeopardized.

**Light house tender**

The vessel that carries out provisions and water I presume will be one of the Gunboats, by her also the light keepers and establishment will proceed,
at intervals also the Superintendent, as the duty on which she proceeds will at
times be trying and hazardous. It would be of much importance to the Light
house interests that she be under the orders of the superintendent, were the
commander and crew in an independent position towards him the duties
where difficult would not be encountered but be shunned. To make the
gunboat efficient as a light house tender I would recommend that a bulwark
be placed all round her deck to keep out the sun, and a cabin constructed
after the ............. with port holes thro' the bulwark - the present cabins are
insufferably hot and ill ventilated and consequently are seldom entered even
during the hottest days. The exposure to the sun being more easily borne
than the heat below. If the establishment that I have proposed meet the
approval of the Govt it would be necessary for the Gunboat to proceed to the
light house once a month to land provisions and water and to change Light
Keepers. Should accidents occur at the Light house so as to demand
immediate communication with Singapore, the boat that is attached to the
rock could be manned with five Lascars and sent for that purpose. These men
when sent from the Light house should go well armed to enable them to resist
if molested. But the knowledge that they carried arms would probably entirely
deter the piratical orang laut from making the attempt.

Provisions

In making arrangements as to the pay of the Light Keepers, I would
humbly propose that the provisions necessary to life, excluding curry stuffs
and spices, be furnished by the Govt. The following I think would be a fair
allowance per man

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rice</td>
<td>(45 catties per mensen)</td>
</tr>
<tr>
<td>Saltfish</td>
<td>6</td>
</tr>
<tr>
<td>Oil</td>
<td>1</td>
</tr>
<tr>
<td>Salt</td>
<td>¼</td>
</tr>
</tbody>
</table>

The Malays are too heedless characters to be intrusted with furnishing
themselves. It appears from Smeaton's account of the Eddystone Light house
that the Keepers when they furnished their own provisions, were frequently reduced to eat the candles. On the 1st of November 5 months’ provisions and wood and water should be stored on the rock, for tho’ the light keepers may be able to land, probably provisions will be difficult to get upon the rock during the North East Monsoon, at all other times 2 months provisions should be placed on the rock in advance, so as to prevent the possibility of the men being forced to leave the rock from starvation.

Anchorage

Connected with the furnishing of provisions and changing of keepers I may mention that the gunboats or steamer can anchor to the North East of the rock distance of a mile during the S. W. Monsoon in 12 to 14 fathoms and the same distance to the S. W. of the Rock during the N. E. Monsoon in 10 to 12 fathoms. For the purpose of landing during the prevalence of the N. E. Monsoon a chain ....... has been erected, at this they will be able to land excepting when the sea is very high. For the guidance of the Light house tender or steamer, I propose minutely surveying the vicinity of Pedra Branca and ...... on a large scale.

Rules for Light Keepers

The accompanying Rules for Light Keepers I humbly submit for the consideration of Govt. In drawing them up I have been guided by those addressed to the keepers of the Northern Light houses of Great Britain, by the Engineer to the Commissioners. I have only modified them to suit the circumstances of this climate. Should they be approved of, I would suggest that a copy both in English and Malay, be hung in the Light-room of the Building.
Instructions to Light Keepers

For these I am also indebted to Mr Allan Stevenson the engineer to the Northern Lighthouse Commissioners. They will be of use at .......... and a copy might be given to the head Light Keepers.

Oil

The lamp oil should be the best coconut oil to be had in Singapore. There are 9 argand lamps which will consume 360 gallons or nearly that quantity per annum. I have placed a sufficient number of the earthen jars in the building to contain that quantity so would suggest that the annual supply be forwarded to the Lighthouse during the calm month of October. 360 gallons of coconut oil is equal to 22 piculs 50 catties a greater or less quantity than this may be actually consumed as my calculations are based on the quantity of ..... oil consumed in the Northern Light houses, and coconut oil may burn more or less freely than that kind of oil.

Journal

Accompanying is the form of journal I would propose to be kept by the Light Keepers who should daily write it in duplicate. One copy to be kept at the Light house and the other to be forwarded monthly to the superintendent.

Store Book

In this head no form need be given as what is received need only be put on one page and what is expanded on the opposite.

Visitors Book

This book should be kept in the visitors room and all visitors should be requested to sign their name and designation.
Arms and ammunition

I would humbly recommend the following to be furnished to the Light house to be kept in the head Keepers room.

8 percussion muskets
16 – do – pistols
8 swords
8 boarding pikes
250 muskets cartridges
250 pistol – do –
500 caps

When the lascars require to proceed in the boat either for water or to communicate with Singapore, the fire arms being percussion ones will possess great advantages over the common muskets in wet weather.

Meteorological Observation

In an establishment of this nature – where duty is regular and continuous these observations can be made with little labour or troubles to the Keepers. Had they proper instruments supplied their observations on the density of the air, its moisture and might be taken, observations on the tides, force of waves, fall of rain, heat of a .......... and direction and strength of winds. In the mean time I have only proposed observations in the thermometer and rain gauge to be placed in the Light house Journal, the former if not of practical use will be interesting, the latter will show the quantity of water that can be collected on the rock for the use of the Light Keepers and stand a check against waste. I have constructed this instrument and before the light house operations are finished will have ascertained the number of gallons that can be collected on the rock to every inch of rainfall.
I think I have taken into consideration every thing necessary to the working of the Light house. If any thing has escaped my attention it would be of minor importance, and trusting that my suggestions may be found of service.

I have the honour to be

Sir
Your most obedient servant
Sd/ J T Thomson
Govt Surveyor

Singapore 23rd July 1851

P.S
Uniform

I do not know whether it would be of much service in making the Light Keepers wear a uniform dress. There would be some difficulty regarding this with the Malays as I believe they generally object to appear in other costumes than their own. The Northern Light house board furnish to their keepers a dress once every three years and the rule as to its use, is as follows --

Extract from Table of instructions to the Light Keepers in the service of the Commissioners to the Northern Light houses.
Para 29. “The Light Keepers are to appear in their Uniform dress when any of the Commissioners or principal officers visit a station and also on Sunday, on which day at noon the weather permitting the Light house flag shall be hoisted by the assistant Light Keeper or in his absence by the principal Light Keeper when it shall .......... displayed until sunset.

The Light house flag I presume is different from the national one.
[Handwritten text with indiscernible content]
we can suggest that our uncertainty was not due to lack of information, but to the fact that the data we had was not sufficient to make a clear prediction. However, in the face of further evidence, we have decided to revisit the data and re-examine the results. The decision to conduct this experiment was made based on the compelling evidence presented in the previous study. We are confident that the results of this study will shed light on the nature of the phenomenon under investigation.
and then call the gendarmerie, which was not in the case more of 1 by some mistake
here.

The article was that people were probably well versed of the time or individuals in the situation
of facilities on people in any little vice, I. B. and declared it would have to
purposes of places under different supernumerary
considerations. It is as follows:

1. hear light beating screened
2. signed on the
3. invalid
4. learned today what the body co-
15. first notable incident

The letter before I would propose it change
quickly, and the invalids and tenancy every
but infinite. Thus there would be always to
the light hand.

1. heard light beating
2. signed on
3. invalid
4. learned today what the body co-
15. first notable incident

2. Light on the Light hand.

Other
command the presence. This could

1. heard light beating
2. signed on
3. invalid
4. learned today what the body co-
15. first notable incident

To proceed from the letter. I would like to
be done as happy to be best understood, as some
advice of light which is of frequent cases.
We should demand of us the light or instance
of things, in this case are most

1. heard light beating
2. signed on
3. invalid
4. learned today what the body co-
15. first notable incident

2. Light on the Light hand.

Other
command the presence. This could

1. heard light beating
2. signed on
3. invalid
4. learned today what the body co-
15. first notable incident

2. Light on the Light hand.
not to expel light from all lights, because, if the latter were ever to succeed in making the earth incapable of its former light, the former would disappear from the face of the sun, and the sun would be rendered invisible to the eye of man. Hence, the idea of as well equal.

As the construction was not new, and necessitated the rebuilding of
the whole, it was but just that the plan in modern methods
were introduced. The old work was
more and more, until it was

that at first

an integral part of the general plan of the building. The next plan of the building

attention was.

The next plan of the building

attention was.
The text is not legible due to the quality of the image.
least 120 times 1200, divided once by 4, then raising to the 19th power of the 4th term.

If one object be being subjected any other time
of use, is of much importance, and to what
that end the question may be formed of these;

Supposed to be 1858

S. W. Whipple
M. Assistant

Sec. F. W. Whipple

1857

Supposed to be 1858

S. W. Whipple
M. Assistant

Sec. F. W. Whipple

1857
Annex 55

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Church T. (Resident Councillor at Singapore) dated 23 Aug 1851
To,

The Resident Councillor at Singapore

D/ Penang 23rd August 1851

Sir,

I have the honor to acknowledge the receipt of your letter under date the 7th Instant No. 100, with its enclosures from Mr. Thomson, on the subject of the Establishment, Supervision &ca &ca for the Horsburgh Light House.

2. I shall take an opportunity hereafter, of expressing my sense of Mr. Thomson's Services, and of bringing the same to the special notice of Government. In the meantime, I beg you to tender him my cordial acknowledgements for his able, and acceptable Communications.

3. The Rules and Instructions, drawn up by Mr. Thomson, for the Light House Keepers, which you inform me, have been framed in the Regulation in force in Great Britain – and adapted to the position of the Horsburgh Light House, and persons to be in charge of it, appear excellently well suited to the end in view.

4. The Establishment proposed by Mr. Thomson, will be entertained, and instructed by him, immediately on the arrival of the Lantern, in fact all arrangements made, and conducted by him, till the Light shall have been fairly established, so that he may have the full and entire credit of this valuable work to the Mariner, in the China Seas, but I am sure, both you, and Mr. Thomson, will bear in mind, how much his Services, are required on the Survey of Malacca.
5. The observations of Mr. Thomson, are most just, as to the necessity of the Horsburgh Light House Establishment, being under the supervision of some responsible person - but this is a matter quite distinct from the position held by Messrs Stevenson and Walker to the Scotch Light Houses, and Trinity Board, for these Gentlemen are consulting engineers & referees on all occasions, with reference to the Establishment of Lights, their nature, and construction, now these are for persons in India, having a practical knowledge of the description possessed by these Gentlemen, indeed I know not one, except Capt Smythe of the Madras Engineers, and to obtain the Services of such an Officer, would add considerably to the Tonnage Dues on the shipping. I propose therefore eventually, to give the supervision and control of the Horsburgh Light House, to the Master Attendant, as at the Presidencies, and out Stations in India; he appearing to be the most available Government Servant for the Duty.

6. The employment of a Gun Boat, as a Light House Tender, appears to me to be quite unnecessary, and such a charge on the Light House, would also fall heavily on the shipping interests, and cause great, and just dissatisfaction. It is my intention therefore, to send the Steamer once every Month, to Pedra Branca, and oftener if required, and in her absence, the Gun Boat will of course be despatched, but I should not be disposed to make any alteration in the latter vessel, for such temporary purposes, moreover the accommodation, which Mr. Thomson has so readily put up with, during the Building of the Light House can hardly fail of being sufficient for any other party, in case of emergency, when the Steamer may not be available.
7. Before moving further in the matter with Govt, I must beg the favor of your drawing up a regular Statement, in communication with Mr. Thomson, showing the case of the proposed Establishment in Detail - Pay, Provisions - Feeding the Light and all contingencies of every description, including such allowance, as you may deem expedient to grant, to the person, who will have the supervision, and control of the Light House Establishment, for the days on which he may visit the Building on Duty, in order that the same may be submitted to Government, with a view of finally determining the Port Dues, that it will be necessary to charge on the Shipping.

8. There is one point, which must not be lost sight of, and that is, the employment of the men, who will be periodically on leave to Singapore – seeing, that it would be highly inexpedient, to permit the Light Keepers to be Six months, and the Tindals and Lascars three months in every year, doing nothing, whilst drawing their full Pay, and I shall be glad to have your, and Mr. Thomson's views on this subject, as well as on any other that may occur to you, with reference to the complete efficiency of the Horsburgh Light House, but the first thing, that Government will desire from me, is an exact Statement of the Expenses of the Light House Establishment &ca &ca to regulate the Tonnage Dues, and I beg that this may be furnished, at your earliest convenience.

I have &ca
Sd/ W.J. Butterworth

23rd August 1851 Governor
preparation of provisions in the meantime, you are at liberty to frame instructions by the Bengalee in the cutting, grading, drying and packing of this commodity, which I believe constitute the only difficulty, that has hitherto prevented you from shipping this article saleable at remunerative prices in the China market.

I have the honor to be,

Your obedient servant,

[Signature]

23rd August 1857. Governor

No. 813

To the Resident Councillor at Singapore

23rd August 1857.

Sir,

I have the honor to acknowledge the receipt of your letter under date the 7th instant No. 109 with its enclosure from Mr. Thorton on the subject of
of the Establishment, supervision lastly for the Droshburgh
Light-House.
2. I shall take an opportunity hereafter of expressing my
sense of the=Donor's= service, and of bringing the same to the special notice of the
moment. In the meantime,
they pro tenders bosom cordial acknowledgments for able and acceptable
communications.
3. The Inhabitants, drawn up by Mr.
Dunton, for the Light-House
Keeper, which you inform me
have been framed on the
Regulations in force in
Great Britain—and adapted to
the purpose of the Droshburgh
Light-House and persons to be in charge of, appear excellently well suited to
the end in view.
4. The Establishment.
Informed by Mr. Thomson, will be entertained, and instructed by him immediately on the arrival of the Lantines; we shall all arrangements made and conducted by him till the light shall have been set up; that he may have the full and entire credit of the valuable work to the humour, in the China deal, and some care both you and Mr. Thomson will bear in mind how much his services are required on the Survey of Scotland.

The situation of Mr. Thomson, and much justifies the necessity of the Aberdeenshire Light House Establishment, being under the direction of one responsible person, and the sea-area quite distinct from the situations held by Messrs. Stevenson and Walker to the Scotch Light House and Trinity Board, for these
Sailors were committing crimes of small
enemies for small occasions, in reference to the estab-
lishment of lights, the nature, and construction nor these
are for present use, having a practical knowledge
The description followed
by these sailors indeed
I know not one except Captain
Smith of the Naval Engineers
and to obtain the service of
such an officer would add
considerably to the strength
and efficiency of the shipping. I
propose therefore, to give the supervision
and control of the harbours
light houses, to the Master
attendant, at the shippers
and all other
in India, he appearing
to be the most available
government steersman for
the duty.
6. The employment of a
 Came
Lawn Brook, as a灯光 interpolation, appears to me to be quite unnecessary, and such an alteration of the lights would also fall heavily on the shipping interests, to cause great and just dissatisfaction. This intention therefore, to send the steamer once every month, to Lydd, Rye, and others, if required, and either abstain; the Lawn Brook will of course be despatched, but I would not be disposed to make any alteration in the letter head for such terms. For my purposes, moreover, the accommodation, which Mr. Thomson has most kindly supplied with, during the Building of the Lighthouse, can hardly fail of being sufficient for any other party in case of emergency, when the steamer may become available.

1. Before moving further
in the matter with which
I am acquainted, I have
thought of a regular state
ment in communication
with the Durham having
the part of the person, State
ments in detail. Day
Provisions leading the Light,
and all contingent
of every description, including
such allowance as may
draw expedient. Be grant
to the person, who will have
the supervision and control
of the Lighthouse Establishment
for the days on which he
may visit the Building
in duty in order that
the same may be sub-
mitted in agreement with
a man of reasonably deter-
ned. The Lord does that it
will be necessary change
on the shipping.
8. The one found
which must be the bill
right. And that is the,
employment of the men, which will
be periodically change to
Singapore, seeing that it will
be highly inexpedient to permit
the light kept the six months,
and the islands and latan
three months in every year
doing nothing, while leaving
their full duty, and I shall
be glad to have yours, and
Mr. Somnerton on this
subject, as well as any other
that may occur to you, with
reference to the complete effi-
ciency of the Andover Light
House, but the first thing, that
Government will desire from
me, is an exact statement
of the expense of the light house
establishment, & kg to regulate
the convoys, that and they
shall hear may be furnished, as
soon as things convenience.

I have the

Capt. H. B. Rutnworth
23rd. August 1857.

Governor.
Annex 56

Relevant Extracts from

(i) the Straits Times and Singapore Journal of Commerce
   (23 Sep 1851, 30 Sep 1851 and 7 Oct 1851), and

(ii) the Singapore Free Press & Mercantile Advertiser
    (3 Oct 1851 and 6 Oct 1851)
The steamer was reached, should the cargo turn out not to be much damaged, the salvors may expect a handsome reward for their services.

We learn that Captain Penny, his officers and crew reached Rio in safety; they had been compelled to abandon the vessel on the 5th. instant, and betake themselves to the boats. The particulars of the casualty have not reached us.

We are happy to report that the Horsburgh Lighthouse at Pedra Branco is now completed, and that H. E. the Admiral and the Hon'ble Colonel Butterworth will proceed to the spot to examine the work prior to the establishment of the Light for all Nations.

The Dutch ex-Governor General has not yet arrived; he has been expected hourly since the 12th instant,—the day fixed for his arrival, unless public service required the steamer placed at his disposal. The disturbances at Palembang have, it is conjectured, detained the steamer in that quarter.

We are sorry to learn that fearful ravages are being made in the rural and planting districts by the numerous Tigers infesting the jungle. Two coroner's inquests were held last week on view of the remains of persons killed.
NOTICE TO MARINERS.

HORSBURGH LIGHT-HOUSE.

Notice is hereby given, that a Light-house bearing the above designation in co-ordinates of the celebrated Hydrographer, has been erected on Bedok Barren, on a rock which lies off the western entrance of the Straits of Singapore.

The Light will be exhibited on the night of the 10th of October, 1851, and every night thereafter from sunset to sunrise.

The following is a specification of the position of the Light house; the dangers which come within the influence of its Light, and its appearance of the Light—by Mr. J. T. Thomson, Government Surveyor.

The Light-house is situated according to the Admiralty Chart, in Lat. 1° 20' 20" N. and Long. 104° 03' East of Greenwich, and its Compass bearings from Barnet Point—East distant 15 1/2, South 11 miles, and from the N.W. point of Kintang N.W. by W. 2 W., distance 12 miles.

The following rocks and shallows lie in the way of vessels, and coming within the influence of the Light 'bear', from the Light-house—

<table>
<thead>
<tr>
<th>Direction</th>
<th>Distance</th>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. by N.</td>
<td>1</td>
<td>Rocks, 'auf' at the L.W. by the Touch.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>2</td>
<td>Rock, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>3</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>4</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>5</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>6</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>7</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>8</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>9</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>10</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>11</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
<tr>
<td>S. by E.</td>
<td>12</td>
<td>Rocks, 10 fathoms on it.</td>
</tr>
</tbody>
</table>

The Light will be known to mariners as a revolving Light, which gradually changes its direction. In every minor and of its whole, it totally disappears to meet the vessel, which, when cleared from a short distance, is to be entirely extinguished.

The Light, which is in the sound, can be seen from the level of the sea at the nearest point of the Light-House.

The Light-House is a pillar of stone, propped and upheld by a steel framework.
THE HORSBURGH LIGHTHOUSE—In our advertising columns will be found a government notification respecting the above useful public work.

On Saturday last His Honor the Governor, and a select party, proceeded in the Hooghly steamer to examine the Lighthouse, which has been executed in a manner highly creditable to Mr. Thomson, the Architect, and his assistant Mr. Bennett. The Governor's party waited until 7 P. M. in order to have an opportunity of observing the light, which gave the utmost satisfaction. The light was visible from the Hooghly's deck at the distance of fourteen miles.
NOTICE TO MARINERS

**HORSBROUGH LIGHT-HOUSE**

NOTICE is hereby given, that a Light house has been erected, on a rock which lies off the eastern extremity of the Island of Singapore, and exhibits, on the night of the 10th of October, 1854, and every night thereafter from the most distant points.

The following is a specification of the position of the Light-house; the dangers which come within the influence of its light, and the appearance of the Light—by Mr. J. F. Thornton, Government Surveyor.

The Light-house is situated according to the Admiralty Chart in lat. 1° 20' 40" N. and long. 104° 33' 30" E. of Greenwich and by Computation from the French Point—East distant 12½ Nautical miles, and from the N. E. point of Bentong N. X. by W. 24 W. N. distant 12½ miles.

The following rocks, and shoals lying in the way of vessels—and coming within the influence of the Light—bear from the Light-house:

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Rock which shows at L. W. Sp. Tides.</td>
</tr>
<tr>
<td>2.</td>
<td>Rock with a fathom on it.</td>
</tr>
<tr>
<td>3.</td>
<td>Position rock with 15 fathoms on it at distance.</td>
</tr>
<tr>
<td>4.</td>
<td>Rocks which always show.</td>
</tr>
<tr>
<td>5.</td>
<td>Rock, Long's Light; of 4° obs.</td>
</tr>
<tr>
<td>7.</td>
<td>Shallow, with 12 fathoms; on L. W. Sp. Tides.</td>
</tr>
<tr>
<td>8.</td>
<td>Shallow, with 12 fathoms; on L. W. Sp. Tides.</td>
</tr>
<tr>
<td>10.</td>
<td>Shallow, with 12 fathoms; on L. W. Sp. Tides.</td>
</tr>
<tr>
<td>11.</td>
<td>Congregation's Car with 15 fathoms on 4° 45&quot;.</td>
</tr>
<tr>
<td>12.</td>
<td>Round Rock, Ideal 30° 15&quot;.</td>
</tr>
<tr>
<td>13.</td>
<td>Round Rock, Ideal 30° 15&quot;.</td>
</tr>
<tr>
<td>14.</td>
<td>Round Rock, Ideal 30° 15&quot;.</td>
</tr>
<tr>
<td>15.</td>
<td>Round Rock, Ideal 30° 15&quot;.</td>
</tr>
<tr>
<td>16.</td>
<td>Round Rock, Ideal 30° 15&quot;.</td>
</tr>
</tbody>
</table>

The Light will be shown, to mariners as a Revolving Bright Light, which gradually changes its light; every minute and 30 seconds, and it totally disappears to the distant observer, when viewed, from a short distance, it is never entirely invisible.

The Light is fixed and open all round, elevated 100 feet above the level of the sea at High Water Spring Tides, will be seen from the top of a creset at a distance of 18½ Nautical miles.

The Light, during the day, will be shown by the following description:

It is seen as a rock, which measures 100 feet long and 150 feet wide, and is 24 feet high at its highest point above the level of H. W. Sp. Tides. The Light is a fixed light, and the lighthouse covered by a spherical dome, which is painted white.

W. J. BUTTERWORTH,

Sailor of the H. M. Island Singapore and Malacca.

Sailor of the H. M. Island Singapore and Malacca.
The guests, in number about fifty, down to dinner on board the “HOBBY” at 4 past 6, and soon after the removal of the cloth, a simultaneous singing announced the process of illumination had commenced.

Three hearty cheers resounded like the meteor-like brilliancy which will probably serve to guide the midnight path of the mariner for a thousand years to come. A breathless silence ensued, as every one seemed absorbed in watching the flashes which appeared each minute, and lighted up the surface of the sea for more than a mile around the tower. At 7 o’clock the anchor was weighed, and the steamer proceeded on her return to the settlement. The light now diminished in its brilliancy, till it disappeared below the horizon, a distance of 15 miles, but it still continued visible to those who ascended the riging for nearly an hour afterwards; and it was the general opinion that the light will be seen as brilliant, however, this move, if the main head of the large ship at a distance of 10 miles.

The Horsburgh Light House.—On Saturday last, the Honble. the Governor, accompanied by Sir Wm. Jayne, Colonel Munster, and a large party of gentlemen, including many of our oldest residents, proceeded to Pedro Bank in the H.C. Steamer “Hobby” for the purpose of inspecting the Light house, and observing its illumination for the first time. The steamer left the buoys at 6 o’clock in the morning, and anchored a little to the westward of the rock at 10 A.M. The afternoon was spent in inspecting the tower and lantern, together with the numerous conveniences that have been constructed for the comfort of the lightkeepers, including a store, and kitchen, comfort, and all the comforts of home. The gentlemen were entertained during the afternoon, and from the good impression which the minds of the visitors were acquainted, that this Light House will be completed, and the Goods of the Strata for some time to come. It is, indeed, an office of which Singapore may well be proud. The granite blocks which form the walls were quarried and shipped at Pulo. Doing the timber used in the building is the growth of our island, and the frames of the storeroom were milled and turned in this settlement, and not least the Architect and Engineer acquired the skill and experience which enabled them to effect so rapidly, this useful, and stately building, during a long and useful career, as Government Surveyor at Singapore. The curtains, doors, and lanterns are the only outside productions. For these we are indebted to the Messes. Stevenson, of Edinburgh, the Engineers of the Northern Light House, and to the completeness of the details, there can be little doubt that all the modern improvements have been introduced. The lamps are fixed on a brace frame, which corresponds in form with the dome-shaped lantern, but is much smaller. This frame is fixed between the frame and the lantern for the wheelmen to pass round to trim the lights. The lamps are arranged on the frame in three groups, consisting of three lamps each, backed by a silver reflector to concentrate the rays of light. The frame revolves horizontally by means of a clock, and the apparatus operates in three minutes, so that a brilliant flash which lasts about 15 seconds is presented to the distant beholder once a minute.
NOTICE TO MARINERS.

HOBSBURGH LIGHT-HOUSE.

NOTICE is hereby given, that a Light-house bearing the above designation in commemoration of the celebrated Hydrographer, has been erected on Pedra Branca, a rock which lies off the extreme entrance of the Straits of Singapore. The Light will be exhibited the night of the 15th of October, 1851, and every night thereafter from sunset to sunrise.

The following is a specification of the position of the Light-house; the dangers which come within the influence of its Light, and the appearance of the Light.—by Mr. J. Thomson, Government Surveyor.

The Light-house is situated according to the Admiralty Chart in Lat. 1° 20' 20" N. and Long. 104° 25' East of Greenwich and by Compass bears from Brunei Point—East distant 125 Nautical miles, and from the N.W. point of Bintang N. W. by W. 4 W. distant 11 miles.

The following rocks and shoals lying in the way of vessels—and coming within the influence of the Light, bear from the Light-house:

<table>
<thead>
<tr>
<th>Course</th>
<th>Compass</th>
<th>Distance (N. W.)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. E. by E. E.</td>
<td>8</td>
<td>8 Rock with a flag on it at ditto.</td>
<td></td>
</tr>
<tr>
<td>S. E. by E. E.</td>
<td>102</td>
<td>8</td>
<td>Pillow rock with 8 fathoms on it at ditto.</td>
</tr>
<tr>
<td>S. S. E. E.</td>
<td>8</td>
<td>8</td>
<td>E. rocks which always show.</td>
</tr>
<tr>
<td>S. by E. E.</td>
<td>6</td>
<td>8 Diana shoal with 2 fathoms on it at L. W. Sp. Tides.</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>2</td>
<td>8</td>
<td>Rocks which always show.</td>
</tr>
<tr>
<td>S. by W. 4 W.</td>
<td>2</td>
<td>8</td>
<td>Scarih, ledge dries at 8 ch.</td>
</tr>
<tr>
<td>S. by W. 4 W.</td>
<td>71</td>
<td>8</td>
<td>Rock with 1 fathom on it at L. W. Sp. Tides.</td>
</tr>
<tr>
<td>W. W. 1 S.</td>
<td>114</td>
<td>8</td>
<td>Crocodile shoal with 9 fathoms on it at ditto.</td>
</tr>
<tr>
<td>W. N.</td>
<td>71</td>
<td>8</td>
<td>Rock with 9 fathoms on it at ditto.</td>
</tr>
<tr>
<td>W. N. W. 1 W.</td>
<td>6</td>
<td>8</td>
<td>Stark. rock, dries at L. W. Sp. Tides.</td>
</tr>
<tr>
<td>W. N. W. 1 W.</td>
<td>64</td>
<td>8</td>
<td>Congaloon's Carr with 1 fathom on it at ditto.</td>
</tr>
</tbody>
</table>

The Light will be known to mariners as a revolving light, which gradually attains its brightest period every minute, and as gradually declines until it totally disappears in the distant observer,—while, when viewed from a short distance, it is never entirely invisible.

The lighthouse, which is open all round, elevated 55 feet above the level of the sea at High Water Spring Tides, will be seen from the deck of a vessel at a distance of 12 Nautical miles.

As a beacon during the day the light-house will be known by the following description. It stands on a rock which measures 150 feet long and 180 broad, and is 34 feet high at its highest point above the level of H. W. Sp. Tides. The Light-house is a Pillar of dressed granite and the Lantern covered by a Spherical dome which is painted white.

W. J. BUTTERWORTH.

Govt. of P. W. Island, Singapore and Malacca.

Singapore, 25th Sept. 1851.
Annex 57

Letter from Butterworth W.J. (Governor of the Prince of Wales Island, Singapore and Malacca) to Church T. (Resident Councillor at Singapore) dated 28 Oct 1851
To,
The Resident Councillor
at Singapore
D/ Singapore 28th Oct 1851

Sir,

I have the honor to acknowledge the receipt of your letter under date the 27th Instant No 134, reporting on the Establishment necessary for the Horsburgh Light House, as requested in the 8th Para, of my letter under-date the 23rd August last No 313, and intimating that a detailed Statement of expenses incurred, with Plans &ca, will be transmitted at the close of the year.

The whole of the arrangements proposed in your communication have my entire approval, and the Establishment noted in the margin* is hereby sanctioned from the 25th Ulto. The Lantern which is of a more complicated construction, than I could have wished, will remain under the charge of Mr Thomson, to whom my best thanks, are due for his readiness in undertaking this additional work.

The Horsburgh Light House, which will hand down Mr Thomson’s name to the latest posterity, is a noble structure,
and when the difficulties encountered by that Gentleman in the commencement of this novel undertaking, at a distance of 40 Miles from Head Quarters, on a bare Rock in the midst of the open Sea, are taken into consideration, its completion in the incredibly short space of 16 Months, speaks volumes for Mr Thomson's skill, perseverance, tact and temper with the Natives, which I shall not fail to set prominently before the Government of India.

I have &ca
Sd/ W J Butterworth
28th Oct 1851 Governor
Print copy of a letter from the Resident Councillor at Malacca of 16th October 1851 No. 595 reporting on the practicability of arrangements for the delivery of unfixed letters by the contract mail packets at Malacca direct en route of sending such as to Singapore. Furnished for the information of the Resident Councillor at Singapore and for communication to the Public Office.

By Singapore 28th Oct 1857

Sincerely,

The Resident Councillor at Singapore

By Singapore 28th Oct 1857

Sir,

I have the honor to acknowledge the receipt from your letter under date the 27th instant No. 134, reporting on the establishment necessary for the shipment of goods as requested.
in the K. Oman, of my letter under date the 25th August last of this year, was introducing what a detailed statement of offenses incurred, with Plan No. will be submitted at the close of the year.

The whole of the arrangements proposed in your communication have my entire approval, and the establishment noted in the

<table>
<thead>
<tr>
<th>Warf Light Keeper</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Light 1000 L.-</td>
<td>80</td>
</tr>
<tr>
<td>2 Light 1000 L. 25</td>
<td>75</td>
</tr>
<tr>
<td>3 Light 1600 L. 2</td>
<td>95</td>
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<tr>
<td>4 Light 1600 L. 2</td>
<td>95</td>
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<tr>
<td>5 Light 1600 L. 2</td>
<td>95</td>
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<tr>
<td>6 Light 1600 L. 2</td>
<td>95</td>
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<td>7 Light 1600 L. 2</td>
<td>95</td>
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<td>8 Light 1600 L. 2</td>
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<td>9 Light 1600 L. 2</td>
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<td>10 Light 1600 L. 2</td>
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<td>11 Light 1600 L. 2</td>
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<td>12 Light 1600 L. 2</td>
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<td>13 Light 1600 L. 2</td>
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<td>14 Light 1600 L. 2</td>
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<td>15 Light 1600 L. 2</td>
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<td>17 Light 1600 L. 2</td>
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<td>18 Light 1600 L. 2</td>
<td>95</td>
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<tr>
<td>19 Light 1600 L. 2</td>
<td>95</td>
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<table>
<thead>
<tr>
<th>Inauguration</th>
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</thead>
<tbody>
<tr>
<td>Of Service</td>
<td>15</td>
</tr>
<tr>
<td>Of Ensigns</td>
<td>10</td>
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<td>Of Officers</td>
<td>9</td>
</tr>
<tr>
<td>Of Acting Officers</td>
<td>20</td>
</tr>
<tr>
<td>Of Officers</td>
<td>122</td>
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<tr>
<td>Total Number of Officers</td>
<td>250</td>
</tr>
<tr>
<td>Total Annual Pay</td>
<td>1000</td>
</tr>
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</table>

...
due for his readiness in undertaking this additional work.

The Edinburgh Light-house, which will stand down all
Dr. Thomson's name to the latest
hostility is a noble structure,
and when the difficulties
encountered by that gentleman
in the commencement of this
novel undertaking, also dis-
tance of 4000 miles from abroad.

Quarried on a bare rock in
the midst of the open sea, are
taken into consideration, its
completion in the incredibly
short space of six months depths
volumes for Dr. Thomson's
skill perseverance, tact and
temper with the nature which
shall not fail to be prominent
ly before the Government
of India.

S.H. B.

Sy. H. Butterworth

26th Oct. 1851
Annex 58

Letter from Butterworth W.J. (Governor of Prince of Wales Island, Singapore and Malacca) to Halliday F.J. (Secretary to the Government of Bengal) dated 1 Nov 1851
Date: 1 November 1851

From
The Governor of P. W. Island
Singapore, and Malacca.

To
F. J. Halliday Esquire
Secretary to the Government of India
Fort William
Dated Singapore 1st November 1851

Sir,
I have the honour to transmit for the information of the Government of India, the accompanying copy of a letter from the Resident Councillor at this Station reporting on the establishment that is deemed necessary for the Horsburgh Light House, recently completed on Pedra Branca at the entrance of the China Sea, of which I submitted a Notice under date the 26th September last No. 25.
2. I will not trouble Government with the lengthened correspondence that has passed on this subject, since the transmission of my last communication dated 9th November 1850 No. 133*, but I should be doing injustice to one of the most zealous, and indefatigable public Servants in the Straits, Mr. Thomson the Government Surveyor at this Station, if I omitted to notice the difficulties he had to encounter at the outset of this work, difficulties which would have rendered the undertaking hopeless to most people. The Contractor ran away. The workmen mutinied and on one occasion, when supplies failed them, they were removed to the Gun boat on Casks, so great was the force of the waves upon the Rock, and yet in the short space of 16 Months from the time, the foundation Stone was laid, during Six of which, the North East Monsoon prevailed, and all work was suspended at Pedra Branca. This noble Structure of Cut Granite has been raised a proud beacon to the Mariner; the advantage of which may be estimated, by the fact of 24 Vessels having been lost or damaged in that vicinity during the past quarter of a century.

3. I cannot speak too highly of the Skill, perseverance, tact, and temper displayed by Mr. Thomson throughout the period that he has been engaged in this novel undertaking, which would be attended with much anxiety in any part of the Straits Settlements, and how much this anxiety must have been augmented by the distant position of Pedra Branca, an Isolated Rock detached 40 Miles from Singapore, at the entrance of the China Sea, which at particular Seasons is most boisterous, will readily be believed.
4. The Light House is now completed, and in full operation, and I may say, that a more brilliant Light, is not to be seen in the Indian Seas, combining all the modern improvements adopted in the Mother Country a little too complicated perhaps for so isolated a position, but readily managed by the present attendants, under the direction and control of Mr. Thomson, the Government Surveyor, who has consented to take charge without any addition to his Salary as Surveyor till the subordinates have become thoroughly conversant with the Machinery.

5. The Cost of the Light House, Lantern &c &c, will not exceed the original Estimate, and Subsequent additions Sanctioned by Government, an unusual, if not an unprecedented fact in Engineers estimates generally and I should wish, with the permission of Government, to present Mr. Thomson with the sum of 1000 Rupees or £100 for bringing the work to such a speedy and satisfactory conclusion, just as a mark of Special approbation which would, I think, prove very gratifying to that gentleman.

6. The details of Expenditure, Survey Plans &c with a full report of all his proceedings will be sent in by Mr. Thomson at the close of the Year; in the mean time I am able to mention that the total outlay has been only Spanish Dollars 24,141-81 or C. Rs 54,206-6-6 as noted in the margin, and I now turn to the chief object of this letter, Viz. to make known to Government the cost of the Establishment which is found necessary for the efficient management of the Light.
The difficulty of obtaining trustworthy people has been very great, and the necessity, imperative, for increasing the number of persons, and the rates of pay, originally proposed for the charge of the Light House, so as to render the Service desirable, and thereby to prevent the frequent changes, which would otherwise take place, to the probable injury of the Machinery of the Light, or Lantern, and possible peril of the Navigator; I am therefore satisfied that Government will approve of my having Sanctioned the Establishment noted in the margin from the 26th Ultimo the day the people were entertained which and with the probable contingencies will amount to C⁰ Rs. 5856 per annum.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Head Light Keeper</td>
<td>90.00</td>
</tr>
<tr>
<td>1 Second Ditto Ditto</td>
<td>80.00</td>
</tr>
<tr>
<td>2 Syrangs 25 Rs each</td>
<td>50.00</td>
</tr>
<tr>
<td>3 Tindaies 16 *</td>
<td>48.00</td>
</tr>
<tr>
<td>5 Lascars 13 *</td>
<td>78.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>346.00</strong></td>
</tr>
<tr>
<td>Add</td>
<td></td>
</tr>
<tr>
<td>Rice, Salt, fish, Oil and Salt to</td>
<td></td>
</tr>
<tr>
<td>8 men on duty at the Light House</td>
<td>20.00</td>
</tr>
<tr>
<td><strong>Total Establishment and Rations</strong></td>
<td><strong>366.00</strong></td>
</tr>
<tr>
<td>Contingencies</td>
<td></td>
</tr>
<tr>
<td>Oil for Lantern 2½ Picul</td>
<td>55.00</td>
</tr>
<tr>
<td>Cotton Wicks Cloths &amp; Rouge</td>
<td>10.00</td>
</tr>
<tr>
<td>Glasses chimney</td>
<td>17.00</td>
</tr>
<tr>
<td>Paint &amp; varnish for lantern</td>
<td></td>
</tr>
<tr>
<td>Railings .... 8&quot; 6*</td>
<td>20.00</td>
</tr>
<tr>
<td>Expenses of Superintendent</td>
<td></td>
</tr>
<tr>
<td>In visiting Light House</td>
<td>20.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>122.00</strong></td>
</tr>
<tr>
<td><strong>Total Monthly Expenses</strong></td>
<td><strong>488.00</strong></td>
</tr>
<tr>
<td><strong>Total Annual Ditto</strong></td>
<td><strong>5856.00</strong></td>
</tr>
</tbody>
</table>
8. I beg in conclusion, to suggest that the Draft Act, submitted with my letter under the date 13th February 1850, No. 22*, for the Levy of Light dues, may have early publication, should it have received the approbation of the most Noble the Governor General in Council with a view of meeting the above expense, and that which will be incurred for the Establishment of the Light Ship on the 2½ fathom Bank, in the Straits of Malacca: the only alteration I have to propose is, that the rate of Light Dues should be raised to three Cents of a Dollar per Ton for all square rigged Vessels on the principle laid down in the 2nd Clause of the aforesaid Draft Act.

I have the honour to be &c.

Sd/ W. J. Butterworth

1st November 1851

Governor
Forward with observations a Dispatch from the Resident Councillor at Singapore relative to the Estab' necessary for the Horsburgh Light House on Pedra Branca. Requests early passing of the Draft Act relating thereto and suggests that the rate of Light Dues in that Act be raised to 3 cents of a Dollar per Ton for all square rigged Vessels.
1. Black and white photographs with the exception of those published in a periodical.

2. Black and white photographs with the exception of those published in a periodical.

3. Black and white photographs with the exception of those published in a periodical.

4. Black and white photographs with the exception of those published in a periodical.

5. Black and white photographs with the exception of those published in a periodical.

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22. Black and white photographs with the exception of those published in a periodical.

23. Black and white photographs with the exception of those published in a periodical.

24. Black and white photographs with the exception of those published in a periodical.

25. Black and white photographs with the exception of those published in a periodical.

26. Black and white photographs with the exception of those published in a periodical.

27. Black and white photographs with the exception of those published in a periodical.
occasion, when supplied with fuel, they were conveyed to the gun boat on whose innumerable the fires of the enemy, were the work of the enemy, and yet in the short space of 16 months from the time the foundation stone was laid, during one of which the North East Monsoon prevailed, and all went was suspended at Poona. If we will but enter into the Library of Lord Lieutenant, we shall be able to trace the advantage which the enemy have enjoyed in that vicinity during the past quarter of a century.  

We must refer too, of the South, the Presidency, and it has been displayed by the Thanes through the period during which they have been engaged in this novel institution, which would be attended with such benefit in many parts of the South Settlements, and how much this country must have been augmented by the constant, periodical, of Poona, by means of the northern ports, and the present state of the carrying trade, will probably be sufficient to establish the views of the Thanes.  

The South Monsoon is now completed, and on full adaption, small isles, that a more brilliant light is not to tell other in the Indian Seas, combining all the modern improvements adopted from the other countries, or little too complicated, for we are led to a footing, but readily organized by the
present attention, and the election and content of Mr. Thomson, the government surveyor, who has consented to take charge, without any addition to his salary as surveyor till his subordinates have become thoroughly conversant with the machinery.

5. The head of the Lighthouse —

Lodges No. 9 and No. 2 will not exceed the original estimate, and subsequent additions sanctioned by government are not necessary. I have added first an engine estimate generally agreed with the head of government, to purchase Mr. Thomson with the sum of $200. Pressure at $100 for laboring the work to such a speed and satisfying some laborers as a mark of special approbation, which I consider well done, having my gratification to that gentleman.

6. The details of expenditure Lynsey

Plan No. 9 entailing a full report of all the proceedings will be sent up by Mr. Thomson at the end of the year, on the average time, from this to ascertain that the laboring parties have been paid.

Spanish Dollars $2,611 - 07 130. - 06 - 0.300 - 0.000 - 0.000 - 0.000

<table>
<thead>
<tr>
<th>Spanish Dollars</th>
<th>1871 - 72</th>
<th>1872 - 73</th>
<th>1873 - 74</th>
<th>1874 - 75</th>
<th>1875 - 76</th>
<th>1876 - 77</th>
<th>1877 - 78</th>
<th>1878 - 79</th>
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<td></td>
<td>4,500</td>
<td>5,000</td>
<td>2,500</td>
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<td>1,000</td>
<td>1,500</td>
<td>2,000</td>
<td>2,500</td>
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</table>

The survey and plans have been prepared by the chief of the establishment, and the best of the establishment.
They in conclusion do suggest that the Draft Act mentioned with many other acts date the 10th February 1852, for the story of England's Light dues and having early publications, should it have received the approbation of the most noble the Governor General, in Form to be a new station, with a view of erecting the same engine and that which will be required for the completion of the Light House on the Helgoland Banks in the Chart of South Africa. The only alteration I have to propose is that the rate of Light Due should be raised to three Cents of a Dollar per Ton for all vessels rigged Vessels on the principle laid down in the Bills of the aforesaid Draft Act.

Where the house to be seen.

R. W. B. Cuthbert

1st November 1851

Governer
Annex 59

Act No. VI of 1852 (India)
Whereas it has been deemed expedient, for the safety and guidance of Ships navigating the China Seas, to build a Light-House on the Island Rock called Pedra Branca, situated at the Eastern entrance of the Straits of Singapore; And whereas certain sums of money were subscribed by private individuals for that purpose, but the same were insufficient to defray the expense of building such Light-House; And whereas the East India Company agreed to build such Light-House, and to advance certain sums of money to complete the same, on condition that the said sums of money were repaid to them by the levy of a toll on Ships entering the harbour of Singapore; And whereas the said Light-House has been built by the East India Company, and it is desirable that the expense of building the same, and of maintaining a Light thereon, should be defrayed out of the monies arising from such toll; And whereas it may hereafter be deemed expedient to establish other Lights or beacons in the Straits of Malacca, or elsewhere near thereto, It is enacted as follows:

I. The Light-House on Pedra Branca aforesaid shall be called "The Horsburgh Light-House," and the said Light-House, and the appurtenances thereunto belonging or occupied for the purposes thereof, and all the fixtures,
ACT No. VI. OF 1852.

I. The apparatus, and furniture belonging thereto, shall become the property of, and absolutely vest in, the East India Company and their successors.

II. From the first day of March 1852, every Ship, being of the burden of fifty tons and upwards, which shall arrive at, or enter the harbour or roadstead of Singapore, from any part of the world, shall pay a toll of three cents of a dollar per ton for every ton of her registered burden or tonnage; Provided always that no ship shall pay such toll more than once in every six calendar months.

III. All Ships of War belonging to Her Britannic Majesty, or any Foreign Government or State, and all armed Ships belonging to the East India Company, shall be exempt from the payment of such toll.

IV. The management and control of the said "Horsburgh Light-House," and of the keeper thereof, and of everything relating thereto, is hereby vested in the Governor of the Straits Settlements.

V. The said Governor may appoint any person he may think fit, to be a Collector of the tolls, payable under this Act.

VI. Out of the funds raised by such tolls, an efficient Light shall be constantly kept up and exhibited during the night-time in and from the said Light-House, and the surplus monies arising from such tolls, after deducting the expense of maintaining such Light as aforesaid, shall, from time to time, be paid over to the said East India Company, in liquidation of the monies they have advanced towards the erection and completion of the said Light-House, and the apparatus and furniture thereof.

VII. The toll to be levied under this Act shall become due and payable immediately on the arrival of every Ship liable thereto within the harbour.
harbour or roadstead of Singapore; and, immediately on the arrival of any such Ship within the said harbour or roadstead, the Collector appointed under this Act shall demand, or cause to be demanded, from the Master or other person in command of such Ship, payment of the toll of three cents of a dollar per ton for every ton of the registered burden or tonnage of such Ship, and if the same be not paid within two days after such demand made as aforesaid, or if, at any time after the arrival of such Ship as aforesaid, the said Collector shall have cause to suspect, or believe, that such Ship will immediately leave the said harbour or roadstead without paying such toll, it shall be lawful for any Justice of the Peace, upon an affidavit to that effect being made before him on oath by such Collector (which oath the said Justice is hereby authorized to administer), to issue his Warrant under his hand, directed to any Peace Officer of Singapore aforesaid, to enter on board such Ship and to seize and carry away any of the Goods, Merchandise, Guns, Tackle, Apparel or Furniture of or belonging to or on board such Ship, and to keep the same for the space of three days then next, unless the said toll shall be in the mean time paid; and in case the amount of the toll due by such Ship shall not before the expiration of such three days have been paid, then the said Collector may cause the said Goods, Merchandise, Guns, Tackle, Apparel or Furniture so seized to be sold, and out of the proceeds of such sale shall pay the amount of the said toll to which such Ship shall be liable, together with the reasonable charges of the seizure, detention, and sale, rendering to the Master or Owner, or other person having the command of such Ship, the overplus (if any) on demand.

VIII. The Officer of Government whose duty it shall be to grant a Port-clearance for any Ship clearing out of or leaving the port of Singapore aforesaid, shall refuse to grant such Port-clearance to any Ship until the Owner, Agent, Master or other person in command of such Ship shall produce a certificate from the Collector appointed under this Act that such
such Ship has paid the amount of toll to which she is liable under this Act.

IX. Notwithstanding anything in this Act contained, the said Collector appointed under this Act, may sue for and recover the amount of any tolls payable to him under this Act, by action of debt or suit in Equity in any of Her Majesty's Courts in India, against the Owner, or Master, or other person who, at the time of default made in the payment of such toll, owned or had the command of any Ship liable thereto.

X. In order to ascertain the exact burden or tonnage of any Ship liable to pay the toll leviable under this Act, the Collector appointed under this Act may apply to any Justice of the Peace to require, and such Justice of the Peace shall thereupon summon and require the Owner, Master, or other person in command of such Ship, or any person having possession of the same, to produce the register of such Ship for the inspection of such Justice, and upon the refusal or neglect of any such Owner, Master, or person to produce such register, it shall be lawful for such Justice to adjudge such Owner, Master, or person to pay a fine not exceeding one hundred dollars, and in default of payment, to be imprisoned in Her Majesty's Gaol for any period not exceeding two calendar months.

XI. When and so soon as the monies to be advanced by the said East India Company towards the erection and completion of the said Light-House shall have been fully repaid and liquidated in manner herein provided for, it shall be competent for the Governor of the Straits Settlements to build, or cause to be built, one or more other Lights or beacons for the safety and guidance of Ships in such part or parts of the Straits of Malacca, or near thereto, as shall be deemed expedient, and the cost thereof, and of maintaining the same, and of keeping up and exhibiting a Light
or Lights therefrom, shall be defrayed out of the surplus monies arising from the toll payable under this Act, after defraying the current expenses of maintaining the "Horsburgh Light-House" aforesaid.

XII. Nothing in this Act contained shall be construed to authorize the levy of a toll upon any Ship passing through the Straits of Singapore and not entering the said harbour or roadstead of Singapore aforesaid.

XIII. The word "Ship" throughout this Act mentioned, shall be held to mean and include a Schooner, Cutter, Brig, Brigantine, Burque, Junk, Steam-Boat, and every other Vessel, as well as a Ship; and words importing the singular number only shall include the plural number, and words importing the plural number only shall include also the singular number, and words importing the masculine gender shall extend to females, unless there be something in the subject or context repugnant to such construction.
Annex 60

“Statement of the Proper Receipts and Disbursements at Singapore for the Official Year 1851-52, exclusive of Military and Convicts” in the Singapore Free Press and Mercantile Advertiser (18 June 1852)
Statement of the Proper Receipts and Disbursements at Singapore for the Official Year 1851-2, exclusive of Military and Convicts.

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<tr>
<td>Do. of Fees from the Court of Judicature</td>
<td>15,053 5 5</td>
</tr>
<tr>
<td>Do. of Fees paid by the Collector of Cess</td>
<td>10,050 2 3</td>
</tr>
<tr>
<td>Do. of Fees paid by the Collector of the Custom House</td>
<td>8,899 4 2</td>
</tr>
<tr>
<td>Do. Miscellaneous receipts</td>
<td>3,420 10 4 400.971 10</td>
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</table>

**B**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary of Resident Councillor</td>
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</tr>
<tr>
<td>Do. of Assistant Resident</td>
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<tr>
<td>Resident Councillor's Establishment</td>
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<tr>
<td>Court of Judicature Establishment at Singapore</td>
<td>13,825 0 0</td>
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<td>Sheriff's Ditto</td>
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<td>Court of Requests Ditto</td>
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<tr>
<td>Salary of Chaplain and Establishment</td>
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<tr>
<td>Do. of Surgeon and Assistant Surgeon</td>
<td>4,074 0 0</td>
</tr>
<tr>
<td>Steward's Hospital Establishment</td>
<td>5,416 0 0</td>
</tr>
<tr>
<td>H. Coyle's Dispensary</td>
<td>830 0 0</td>
</tr>
<tr>
<td>Fan Yoke's Hospital Establishment</td>
<td>1,528 0 0</td>
</tr>
<tr>
<td>Post Office Establishment</td>
<td>6,912 0 0</td>
</tr>
<tr>
<td>Revenue Department Establishment</td>
<td>8,180 0 0</td>
</tr>
<tr>
<td>Import and Export Office Establishment</td>
<td>5,400 0 0</td>
</tr>
<tr>
<td>Signal Department Establishment</td>
<td>240 0 0</td>
</tr>
<tr>
<td>Political Pension</td>
<td>18,800 0 0</td>
</tr>
<tr>
<td>Local Pensions</td>
<td>6,000 0 0</td>
</tr>
<tr>
<td>Schools</td>
<td>5,010 0 0</td>
</tr>
<tr>
<td>Master Attendant's Deput. Establishment</td>
<td>7,020 0 0</td>
</tr>
<tr>
<td>Buildings and additions to Buildings</td>
<td>10,811 0 0</td>
</tr>
<tr>
<td>Seaport Buildings</td>
<td>2,876 1 0</td>
</tr>
<tr>
<td>Less on distributing Salaries &amp;c.</td>
<td>4,918 1 0</td>
</tr>
<tr>
<td>Administrative on Government Buildings</td>
<td>8,518 1 0</td>
</tr>
<tr>
<td>Contingencies General</td>
<td>4,053 11 0</td>
</tr>
<tr>
<td>Do. Judicial</td>
<td>20,177 9 2</td>
</tr>
<tr>
<td>Do. Medical</td>
<td>600 0 0</td>
</tr>
<tr>
<td>Do. Ecclesiastical</td>
<td>510 0 0</td>
</tr>
<tr>
<td>Do. Post Office</td>
<td>1,750 8 3</td>
</tr>
<tr>
<td>Do. Revenue</td>
<td>103 3 7</td>
</tr>
<tr>
<td>Do. Importation</td>
<td>920 9 11</td>
</tr>
<tr>
<td>Do. Marine</td>
<td>9,041 11 7</td>
</tr>
<tr>
<td>Do. Military</td>
<td>995 0 0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34,754 11 11 211,195 10 8</strong></td>
</tr>
</tbody>
</table>

**ADD C**

1. Salaries and allowances of the Governor and his Family, Governor & Establishment | 10,529 6 11 |
2. Do. Do. of Mr. H. G. Mackenzie, Asst. under the Governor of the Straits | 9,167 0 3 |
3. Do. Allowance of Mr. G. Andrews, Civil Servant, out of empoly, from 20th Dec. 1851 to 31st March 1852 | 251 1 9 |
4. Do. Salary of the Recorder & Establishment | 12,001 13 4 |
5. Do. Do. of Registrar of the Court of Judicature &c. | 6,071 5 4 |
6. Do. of Pension of Mr. T. G. Mitchell | 333 5 4 |
7. Do. of Excess of the H. G. Cooker | 9,445 0 0 43,014 1 4 1 |

**Excess of Receipts** | **145,909 9 8**
Statement of Expenses incurred for the Military serving at Singapore during the Official Year 1851-52, debited to Madras.

Amount paid at Singapore to the Troops stationed there, including Commissariat, Engineers and Magazine Department

Do. paid at Madras on account of Family Certificates

Do. value of Provisions issued to the Troops

Do. of Military Contingencies including repairs

Do. Military Pay of his Honor the Governor

Do. due to Superintendent of Convicts

Do. of Military stores issued to Troops (unknown)

Excess incurred for the Periodical Relief of Troops (unknown)

Company's Rupees: 400,911 10 1

Company's Rupees: 187,566 7 6

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Statement of Expenses incurred for Convicts at Singapore during the Official Year 1851-52, debited to the Presidencies.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount (in Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary of Superintendent of Convicts, exclusive of Military Pay</td>
<td>4,739 0 0</td>
</tr>
<tr>
<td>Establishment of the Convict Department</td>
<td>6,502 5 5</td>
</tr>
<tr>
<td>Establishment of Convict Hospital</td>
<td>1,620 0 0</td>
</tr>
<tr>
<td>Contingencies</td>
<td>6,023 12 7</td>
</tr>
<tr>
<td>Rations and Clothing of Convicts including Money allowance</td>
<td>44,326 10 7</td>
</tr>
<tr>
<td>Total</td>
<td>85,213 12 7</td>
</tr>
</tbody>
</table>

DEDUCT

Received from Municipal Fund for hire of Convicts | 5,533 0 0

Company's Rupees: 89,631 12 7

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T. CHURCH,
Resident Councillor.