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

LIST OF ANNEXES

(VOLUME 3)

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

Date : 5 Sep 1849

Marine Department

No. 3 of 1849

Our Governor General of India in Council.

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[t] 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 R[s.] 22,194 leaving a deficit of R[s.] 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

J W Hogg

W J Eastwick

W H C Plowden

J Masterman

R D Mangles

J C Whiteman

F Warden

Marine Dept

5th Sept 1849

D/ 19 Oct / 49

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

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 7,000 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

No. 8 of 1849

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 Pelak 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

Structure should be entirely faced with granite set in cement, with a back work of 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. 20.723, which you propose should be advanced by Government, and to ensure repayment of the 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

* Note

The Report of the Government 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"

No 3 Letter 1849

to China or the Eastward of Singapore should be raised from one rupee to two dollars or 4½ 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 2½ Dollars per 100 Tons be levied on the Shipping above

above described.

We are

Your affectionate friends

London

the 5th September 1849.

Macaulay

[illegible]

Stuart

W L Mackenzie

D Jenkins

[illegible]

W A Lykes

[illegible]

Wm. I. Eastwick

W A C Dundas

Masterman

[illegible]

John C Whitemore

Morris

Mos
9 to Sept 1849

No. 3 of 9 Septr 1849

No. 4 O.I. 25 Octr 1849

Marine Dept
5th Septr 1849
12/19 Octr 49

The Company's Letter to the Governor General of India in Council No. 3 of 1849.

Vide Marine Letter of 3 Sept.

20/10

Reply to letter No. 3 of 3 March last 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 2½ Dollars p. 100 tons.—

Vide Marine Letter of 5th Sept.

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 Esq[re]

Under Secretary to the Government of Bengal

Dated the 27th October 1849

Home Department

Sir,

To: Bengal d/ 24th April 1847 No 284
From: -Do- d/ 6th October 1848 No 1363
To: -Do- d/ 21st Octr 1848 " 920
From: -Do- d/13th Decr 1848 " 949
From: -Do- d/ 5th April 1849 " 271
To: -Do- d/ 7th April 1849 " 237

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 Octr 1849.

I have &ca
/Sd/ W Grey
Under Secretary to the Govt of India

[illegible]

[illegible]

[illegible]

To

W. Sikinkar Esq.

Under Secretary to the Government of [illegible]

Dated the [illegible] October 1839

Home Department Sir,

With reference to the [illegible] marginal note in the Margin [illegible] I am directed by the President in Council to transmit to you the accompanying copy for Information of the Board of the Court of Directors [illegible] dated 3rd September last, relative to the construction of an [illegible] Bungalow, and to request that [illegible] may be given to the Government of Bombay for the immediate commencement of the building.

2. It will be seen that the duty of 25 dollars per ton is to be levied on the shipping [illegible] Bombay is completed. It [illegible] necessary for the purpose and Colonel Sutherland is directed to take an early opportunity of submitting the draft for a set of the required [illegible] as may be deemed requisite.

Council Chamber
the 27th Oct. 1839

I have &c.
(Sd.) W. Sikinkar
Under Secretary to the Government

Home Dep.t No. 1 [illegible]
Dep.t No. 1 [illegible] 1839 No. 1333
Dep.t No. 1 [illegible] 1839 No. 920
Dep.t No. 1 [illegible] 1839 No. 1271
Dep.t No. 1 [illegible] 1839 No. 237

516

591

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[t] Col[l] W.J. Butterworth
Governor of Prince of Wales
Island, Singapore and Malacca

Dated Fort William, The 12th November 1849

Marine

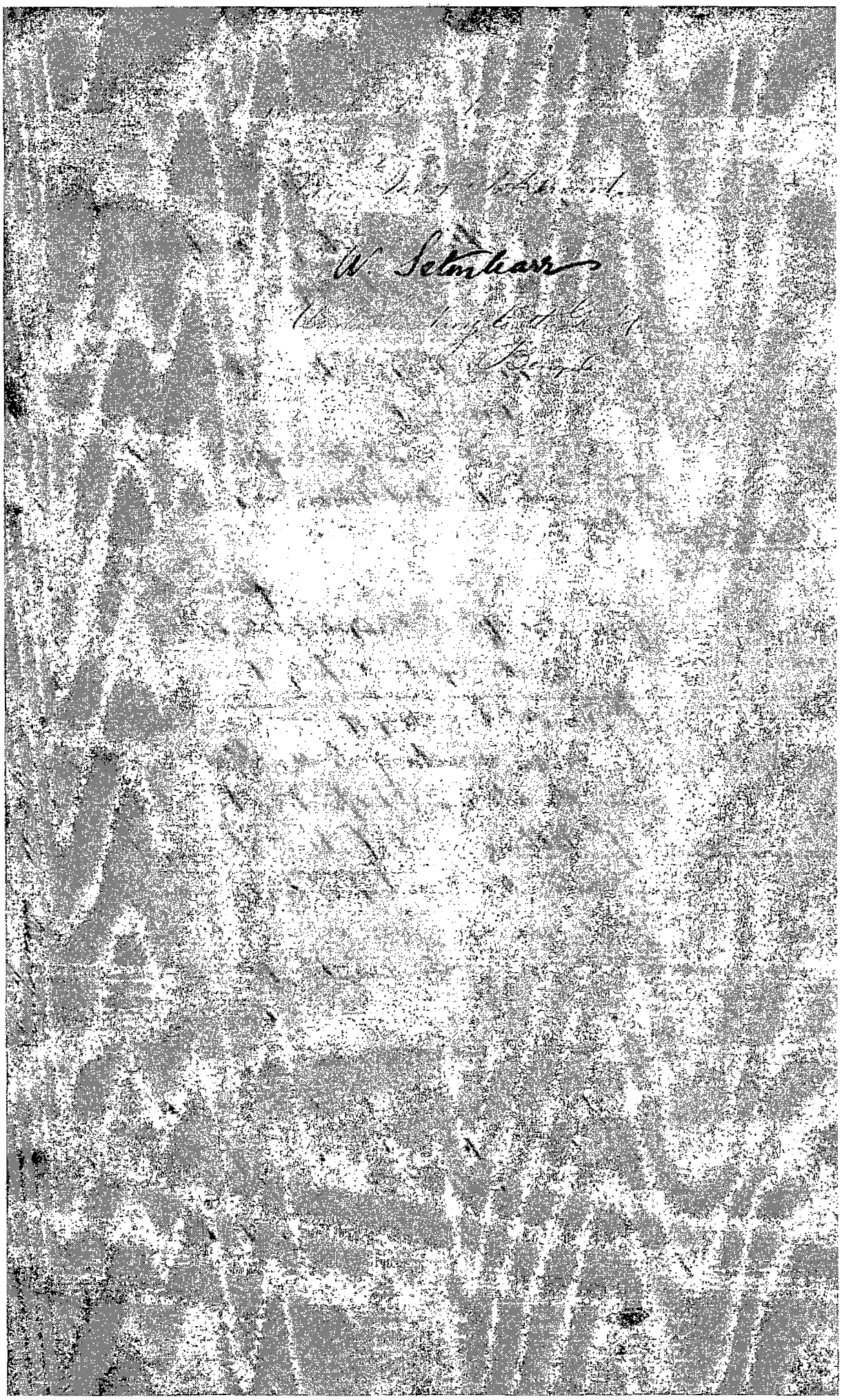
Sir,

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

Marine



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^{t}. of Bengal No. 784, and from W. Grey Esqre, Under Secretary to the Gov^{t}. 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 Decr 1849

I have the honor to be
Sir
Your most obedt Servt
Signed J.T. Thomson
Govt Surveyor

1849

Government Surveyor

20 December

Relative to the construction of
the Light House on Pedra Branca &ca.

Copy forwarded to the Gov. 24. Dec. /49
Ans. 24 D. No. 32 172

To the Honorable
J. 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 Govt. of Bengal No. 784, and from H. Grey Esqr., Under Secretary to the Govt. of India No. 607 containing a copy of a dispatch 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 & estimate forwarded with my letters No. 19 & 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 two days that may 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 on 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

been taught they could not be left to themselves without a Lighter to direct and check their operations – I am consequently of opinion that no benefit would result by my proceeding to Matacoa for the purpose of commencing the survey –

The preliminary operations of the Lighthouse 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 2d drawing up specifications, contracts & agreements – 3d In drawing plans of Cupolas and Lamps &c for transmission to Europe – 4th Constructing Derricks & stone lifters – 5th Fitting up Quarters 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 & Blacksmiths shops and any 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 stones Cutters from China, 9th in preparing houses for self & workmen to be fixed on the rock – and many other minor details for all of which there is fairly time left – between this and the 1st of March – but all of which must be carefully considered so that the progress of the work may not be detained for want of proper light in this period of the undertaking –

With Reference to the Minerals the Governor's letter No. 510 above mentioned, I beg leave to state that I have communicated with

with the Contractor and it is so far settled that he will undertake the Masonry and brick work & most of the Carpentry, Smith, & Copper work – which I am sure will be specified in detail, in contract documents – for the sum of two thousand five hundred Spanish Dollars – The name of the Contractor is Chea Ah Lam and in a few days he promises to produce sufficient security when the Contract will be definitely settled –

I beg leave respectfully to make known to your 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 & future good standing is so sensibly involved – The gratifying assurance of his Confidence I consider more than half the battle against the difficulties attending an undertaking 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 & by the action of the elements) I will be able to cope with them, & 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 Fraser – at all times and shall be grateful for any suggestions that his long experience may offer and such as may be adopted will be so thankfully acknowledged in the successful completion of the work – I will also greatly desire personal communication with Capt

man

Mr. whose great experience in the manufacture of Cements & the Setting of rocks puts him in possession of a fund of most valuable knowledge - applicable in the progress of the structure. The many operations that can only be successfully performed by practical Seamen - I will be under the greatest obligations to Capt Angelbeck for advice & assistance as far as he can consistently render them -

Regarding the transport 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 not just misapprehension might arise were the part to be performed not sufficiently detailed & which misapprehension might be the cause of great loss to the Contractor & detention of the work - 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 - & from whence they will be towed to Pedra Branca & 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 & from thence taken by the steamer to Singapore roads - or 2d if to Point Romania where sand & 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

will be towed and secured to the Buoy at Pedra Branca & be ready — 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 & secured to the Steamer before night — as a loss of the lighters and Cargo might be incurred during the heavy squalls & Sumatras — were they to remain at the rock or Buoy during the night — But there is no doubt that Capt Coughtrie'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 should 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 cleaned out — and I would respectfully suggest that they be thoroughly examined that all necessary repairs may be effected before the first of March so that a wait in this department may not be a cause of detention — The Lorcha Gunboat will be principally required for procuring water & provisions from Pt Romania & Singapore & for the Carriage of most urgent —

It would much facilitate operations & give great Confidence to the workmen, which is a very desirable object, could the Steamer strongly remain near the rock for the first month

month or 6 – until everything be set again properly, after that the services would only be needed any when building materials were to be sent out to the rock – at the first setting out to it would be of great assistance with the Canary plants, attaps & spars – they to effect and quick establishment in hand in 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 in the plan of the other part of the structure which was designed more to the view of strength than to any other object – & while I am stated with considerable confidence that the estimate will not be exceeded in this part – as nothing was spared to make this part complete I still as the Board 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, than originally was the case when the structure was planned – I would recommend particularly that the visitors room – the stairs – & other lesser conveniences – be fitted up in better style than originally designed –

The immediate measures will now be taken to commence this long desired undertaking and the actual work of constructing apparatus &c will commence on

on the first of January not to mention the measures that have been already set agoing I would humbly solicit the favor that the extra monthly allowance to my salary of 150 Rupees ~~[illegible]~~ 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 necessity may require I will ask for the assistance of such departments of the Local Govt as 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 & also of his honor the Governor to whom I would beg the favor of your forwarding it

I have the honor to be
Sir
Your Mostt obedt Servt

Singapore
20th Decr 1849

P Murchy
Govt Surveyor

1869.

Government Surveyor
20. December

Relative to the construction of the Light House on Pedro Branca Rock.

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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

Date : 24 Dec 1849

No. 528

GI No. 1088
of 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.

No. 156

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

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I feel satisfied by your that the
application of Hanna, as long
continued will have unpleasant
effect in the eyes of the
Bengal Government on your
administration of the Bombay
Presidency.

I have &c
C. H. W. C. Bruton

22nd March 1849. Confd

No. 528

Recd. 1st
April 1849.

To,
The Resident Comptr.
at Singapore —
Letter Singapore 24th March
1849

Sir,
I have the honor to acknowledge the receipt of your letter under this date, with the enclosure from Dr. Thomson the Government Surgeon, relative to imported delegating

No. 156.

&c

the task of constructing the Southwest Light House to Lieut. Buttman.

The Steamer and Lighter Gen. Bragg will be available for conveying materials & laborers to and from the work while the boat lies, and if additional aid is required the Gen. Bragg for a schooner will be called for.

The extra allowance granted to Capt. Hudson while employed on the Light House, is also that for an Engineer will commence from the 1st January last, and you are hereby authorized to make such an account of the Southwest Light House as may be necessary.

Yours &c.

C. H. Buttman

Lieut.

Lt. Colonel Cullum Corps Engr.

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

No. 33

To the Honorable

T. Church Esqre

Resident Councillor

Sir

In Continuation of the subjects noticed in my letter No. 32 of 20th Decr 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 pursueing (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^{t}. 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^{t} Servant
Signed. J T Thomson
Gov^{t}. Surveyor

Singapore 26th
Decr 1849

1849

Government Surveyor

26' December

Respecting Lamps, Lanterns &ca,
required for the Horsburgh Light House
on Pedro Branca

The Governor 29th Dec. 1849 —

No. 33

28. do

To the Honorable
T. Church Esqre
Resident Councillor

Sir

In Continuation of the subjects noticed in my letter No. 32 of 20th Decr. 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 & machinery — which his honor the Governor directs should be expedited in communication with "one of the eminent parties of the Mother Country versed in such matters with a view of determining the light & 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 part of the undertaking can not be safely intrusted to any engineer — that is not of the most undoubted respectability & 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

by the successful completion of the Skerryore 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 & 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 &c also to request his personal superintendence and attention until the whole be completed & securely packed & shipped for Singapore - by pursuing 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 & 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 Govt will appoint, or that the humble 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

to the sum of ~~one~~ five hundred thousand pounds sterling
Provided £500 -

I have the honor to be
Sir
Your most obt. Servant

Singapore 26th
Dec. 1849

J. Thomson
Govt. Surveyor

1869.

Government Surveyor
26. December.

Respecting lamps, Lighthouse Keep. required for the Moresburgh Lighthouse on Pedro Blanco.

213.

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

No. 340 Genl. No. 109G of 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 Decr. 1849.

Sir,

With reference to the despatch from the Honble the Court of Directors under date the 5th Septr. No. 3 of 1849, to the Gov^{t}. 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 Gov^{t} 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.

I have the honor to be etc.

The 27th Decr. 1849

Sd/ W.J. Butterworth
Governor.

(True Copy)
Sd/W. J. Butterworth
Governor.

125763

Bengal

Marine Department.

Collection No. Sragt 1856/8
of 1858

Letter from No. 13 dated 30th March 1858

Reports the arrangements that have been made for the construction of the Sheatmah Light House on the Island of Pedra Branca, –

Secretary's Office
Marine Branch
1858

3

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. as 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 favour of your forwarding it.—

Singapore
The 20th Decr. 1849

I have the honor to be &c
Sd/ J. T. Thomson
Govt. Surveyor.—

/True Copy/
Sd/ W. J. Butterworth
Governor.—

/No 340/

To J. C. Melvill Esqre
Secy. to the Honble the Court of Directors
of the East India Company.—
East India House — London.—
Singapore the 27th Decr. 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

amount to 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 Ports. –

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. –

I have the honor to be &c
sd/ W. J. Butterworth
Governor. –

The 27th Dec. 1849.

True Copy
sd/ W. J. Butterworth
Governor. –

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

Submitted
Trivian 13/1/01

A letter from the Honble the Governor No. 330 dated the 11th Inst. to the address of the Chairman with its enclosures was read, from which it appeared that the Honble the Court of Directors had authorized the construction of the Horsburgh Light House on Pedro Branca to be commenced, and directing that a duty of 2½ dollars per 100 tons should be levied on Vessels touching at Singapore, or clearing out at Indian Ports to China, or the Eastward of Singapore, to meet the expenses of the Light House, and to ensure repayment of the amount required in addition to the

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

Date : 29 Dec 1849

No. 542

GI No 1113 of 1849

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
Governor

29th December 1849

No. 1

Copy of a letter from the Secretary to Government of Bombay to the Secretary to Government of India in the Foreign Department, forwarding a copy of the proceedings of the Bombay Government for the purpose of being submitted to the Governor General in Council for the information of the Court of Directors.

Dated Singapore 28th March 1824

Received
Pay 29

— No. 1 —

Extract from a letter from the Secretary to Government at Singapore —

Dated Singapore 29th March 1824

Sir,

I have the honor to inform you that I received your letter of the 5th instant, forwarding the proceedings of the Bombay Government, relative to the Chinese Junk and the Siamese Junk, and

[illegible]

[illegible] the Light House on Cape Breton.

Shewing that the repairs and alterations may be profitably effected and the latter objected against the Expense attending the construction of the Light House on Cape Breton.

Chas. Fox
Oldham & Burton
29th Gandy Place Strand

No. 3745.

[illegible]

The Admiralty Commissioners
at Whitehall
Sir Thos. Hastings
Sir
Chas. Fox
[illegible]

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

Genl No 158 of 1850

Dated Singapore 13th Feby 1850

Ans^d 19 March 1850
No. 171
" 5th Nov / 50 No. 103.
" 24th Oct / 51 No. 603.

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.

*Vide enclosure to a letter from the Resident Councillor at Singapore d/24 Dec 1849 No. 156.

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

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 Govt 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.

*d/27 Dec 1849 No. 340 see Local Book

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 Honble 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.

*Vide enclosure to a letter from the Chamber of Commerce d/24 Dec 1849

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 Memorundum 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

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.

*Vide enclosed printed Notice by Capt Congalton d/ 24 Jany 1850

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.

* Sent in original copy retained vide local file under d/13 Feby 1850

I have &ca,

Sd/ W.J. Butterworth

Governor

13th February 1850

62

No 22

Genl No 158 of 1850

To
W. Seton Kerr Esquire
Dated Singapore 13th July 1850

Sir

I have the honor to acknowledge the receipt of your letter under date the 12 November last No 784 with its enclosures from the Government of India giving Course to a Despatch from the Honble the Court of Directors Authorizing the Immediate Construction of the Light House in Pedra Blanca 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 Sam" was still willing, giving Good Security to undertake the Work Agreeably to the Plan Specifications

and

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 shew 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 Hon'ble the Court of Directors, to be drawn from the 1st Instant, to ensure the preparation of Models &c, as also such advances as the Contractor may desire for bringing Masons from Chunial 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 Chunial Workmen

* Vide enclosure to a Letter from the Resident Councillor at Singapore dt. 24th Decr. 1849 No. 156.

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 & exposure; but I have every confidence in Mr. Thomson who is well inured to the Climate, and as formerly observed most intimate with the habits, manners and customs of the people, indeed as the Superintending Engineer observes in his letter under date the 13 June 1848, forwarded with my Communication to your address of the 12th Idem No 72.- "The Govt. 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

insure 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 Smale 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 Capital and Light. A Copy of my Communication to the Secy at the India[1] Office, I beg respectfully to enclose, and to express a hope that the course I have pursued will meet with the Approval of the Honble

[1] of 27 Dec 1849 No 340, Lone Book

Pr

Honble 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 Honble the Court of Directors for the Construction of the Horsburgh Lighth House, may be spread over a series of Years, so as to make a Portion of the proposed Lighth 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 shewn 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

* Vide enclosure to a Letter from the Chamber of Commerce of 24th Decr 1849.

recommend that the wishes of the Several Owners and Masters of Vessels in this respect may be complied with; and in the mean time I am happy to report having despatched one of the Buoys received from Calcutta, to the aforesaid 2½ fathom Bank.

*Vide under Printed Notice by Capt. Condalton of 24 Jany 1850.

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 the Island, the Sultan Shoal, and the Rabbit and Cony, would be most beneficial to Navigators, and would cause little Expence 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

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,

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 shew, has undergone modification" on

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, shewing the payments made

* 2½ Cents per ton

made by them in India, which Receipt 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 touch 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 &c.

Sd/ W. S. Butterworth

Governor

13th February 1859

+ Sent in Original to Proprietary Vide Secy file minute of 13 Feby 1859

+ Sent in Original to Proprietary Vide Secy file minute of 13 Feby 1859

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

Date : 22 Feb 1850

No. 76 GI No 188 of 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

287.

authorised reclamation.

Yours &c
Sd/ W. A. Buttonworth
Secretary.

29th January 1888.

C.P.C. Schedule initiation.
That Chan Apartly petitioned the Chairman of Municipal Commissioners, after his letter of the 22nd, the Municipal Committee, and the Chinese merchants.

No. 46

Lib. 188
Folio

Letter Copy of a letter from the Under Secretary to the Government of Bengal, dated the 29th January 1888 No. 40 - Approving the reclamation authorised to the Municipal Committee, amounting to Rs. 620, having regard to the fact that engaged in conveying [illegible]

John Cornes Esq. Shewing the Officer entrusted with the construction of the Raffles Light House and requesting that the same may be added to the Light House in question. Furnished for the information of the Chairman & Committee at Singapore with reference to his letter dated the 29th December 1849 No. 189

Dated Singapore 22nd February 1850.

Cashier
Dec 189
for 50

— Ofc. 4/4 —

Forwarded to the Chairman Committee at Penang and Singapore, one Copy each of the Original and Extra Journal Directory and Almanac for the year 1850 ——

Dated Singapore 22nd 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

Marine

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 $2^1/_2$ 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.

Extract Para 4 Letter to the Chamber of Commerce dated Fort William 20th 1850

No. 171

From

The Officiating Undersecretary to the Government of Bengal

To

The Governor of Prince Wales Island Singapore and Malacca.

Dated Fort William, the 19th March 1850.

Marine.

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 "Loa Ah Shang" for the commencement of the work, as also of your having authorized the entertainment of the extra establishment sanctioned by the Honble the Court of Directors from the 1st February, and the advances to the Contractor to enable him to bring materials from China.

From

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 Honble 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 Honble 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

on

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 Honble the Court of Directors.

6. 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 honor to be
Sir,
Your most obed. Servant.

[illegible]

Offg Under Secy to the Govt of Bengal.

No. 330

Bengal

19th March

[illegible]

Acknowledging the
receipt of the Govt.
letter, reporting
the measures that
have been taken
for the [illegible]
and [illegible] of the
[illegible] light
[illegible]
[illegible]

Rd. 1 May 1850

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

Date : 30 Mar 1850

Bengal
Marine Department

Collection No Draft
No 670 of 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

Copy Marine letter from Bengal dated 30th March 1850 No 13

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$^{o.}$ 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 re-payment 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: Bragt No 670
of 1850

Letter from No: 13 dated 30th March 1850

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Secretary's Office
Marine Branch
1850. –

Copy. (Marine) Letter from Bengal dated 30th March 1850. No 13.

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the

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4. — The superintendence of the — undertaking has been entrusted to Mr. Thompson the Govt. Surveyor at Singapore, and tho' a task involving great bodily labour and exposure, Colonel Butterworth feels confident, from that Officer 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. —

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9

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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 has been submitted for the consideration of the Govt of India in the Legislative Dept — J. H. Little

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

Date : 4 Apr 1850

No. 127

GI No 302 of 1850

To, The Resident Councillor
at Malacca
Dated Singapore 4th April 1850

Ans.d 15th April/50
No. 207

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
Governor

4th April 1850

24

No. 124.

Lt. Gov. No. 302
of 1850

To,

The Resident Councillor
at Malacca.

Dated Singapore 4th April 1850.

Sir,

I have the honor to request that the Gun Boat "Fancy" may be sent to this station for temporary employment in conveying stores to Pulo Brani for the Workmen engaged in constructing the Pedra Branca Light House.

The Resident Councillor at this station has been directed to replace the Gun Boat "Fancy" by the Barge "Tamid" which the former may be employed on the above duty.

I have &c

Sd/ W. J. Butterworth

Governor

4th April 1850.

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

Date : 19 Apr 1850

No. 155

Gl. No. 350 of 1850

To,

The Resident Councillor
at Malacca
Dated Singapore 19th April 1850

Ansd 23rd April / 50
No. 220
Ansd 3rd (?) May / 50
No. 249

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

Sd/ W. J. Butterworth
Governor

19th April 1850

Native stated, and however false this may be, it is very desirable not to give any colour to it, by appearing to be strengthening our position in banning. I therefore beg that all repairs recd. to Fort Cedmore, may for the present be suspended.

I have &c
Saml. S. Butterworth
Lieut.

19th April 1850.

No. 155

Copy

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 10th instant No. 201, bringing to notice the unjustifiable factory state of the Honble. East India Company's Gun Boat "Francis

Dwt

No. 330
J. 1850.

The Resident Councillor
Malacca
19th April 1850
Recd. 24th do.
Ans. 26th do.

sent from home to replace the Nancy; whilst the latter may be employed in conveying stores to for the Workmen engaged in constructing the Light House at Point Bonaco.

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 home Department; I know they will that such immediate repairs and additions as have been found necessary to her Gun Boat may be forthwith made, and debited to the Admiralty, and that hereafter when you can spare her, that she may be sent back for the purpose of being refitted in a condition of serviceable condition.

I have &c

Chas. W. Butterworth

Commdr

Wm. Lind Esq

Annex 45

"The Horsburgh Lighthouse" in the Straits Times and Singapore Journal of Commerce (28 May 1850)

To the Editor of the Straits Times.

Dear Sir,—For the information of masters of vessels leaving this for China, I beg to send you the following notice of some suspicious junks I fell in with on the passage from Macao to Singapore:—May 15, at sun down; two junks were reported from the mast head; one bearing East, the other N. E., the wind being then light and variable from E. S. E. At daylight on the 16th we descried Pulo Timoan bearing S. by W. distant 40 miles; one of the junks had managed during the night to get to the southward of us, the other still keeping to the N. E. When dead to windward, the former goose-winged his sails and bore right down upon us, the wind freshening from the S. E. Our Ship's guns and small arms were immediately got ready; when distant about one mile and bearing S. S. W., we hoisted the English Ensign and fired a gun to leeward; we then tacked and weathered the junk, passing within pistol shot, but without anything occuring. The junk was furnished with five screens on the starboard side and a great number of shields. This junk then bore away to the northward.—Yours, &c.

N. HECKFORD
Commander Brig *Ripsima Anna Maria.*

Singapore Roads,
May, 23rd, 1850.

The Horsburgh Light-House.—The Hon'ble the Governor of the Straits Settlement, Lieutenant Colonel W. J. Butterworth C. B. having requested the Brethren of "Lodge Zelland in the East No. 748" to lay the Foundation Stone of the Horsburgh Testimonial, or Light-House for all Nations, with the honours of their craft on the 24th inst.—the anniversary of Her Majesty's Birth-day,—the Worshipful Master and Brethren of the above Lodge, in number about thirty, accompanied by several visiting Brethren, started for Pedro Branca on the morning of the 24th in the H. C's. steamer Hooghly and the barque Ayrshire, in tow of Her Majesty's steamer Fury. Several distinguished visitors, including His Excellency Rear Admiral Sir E. Austin C. B. Naval Commander-in-chief and suite, the Hon'ble Thomas Church Esqr. Lieut. Colonel Messister, several of the foreign Consuls, and Merchants of Singapore availed of His Honor the Governor's invitation to witness the ceremony, and accompanied him in the Hooghly. The party arrived at Pedro Branca about 11½ hours A. M., and having disembarked, the Masonic Body marched in the following order of Procession to the summit of the Rock:—

The Band
Tyler with drawn Sword
Brethren not members of the Lodge
two and two.
Members of the Lodge out of Office
two and two.
Cornucopia with Corn
borne by the Wor. Past Master Bro. J. B. Cummine
Two cups with Wine and Oil
The Wine borne by Bro. T. O. Cairns and the Oil by Bro. Gardnerville
The Organist Bro. G. H. Brown
The Inner Guard Brother Tho. Hewetson
bearing the Inscription Plate
The Secretary Brother T. H. Campbell
bearing the Book of Constitutions on a silk cushion
The Treasurer Bro J. C. Smith
bearing a purse containing Coins to be deposited in the Stone
The Corinthian Light
borne by Brother H. Minchin Simons
Brother W. Paterson bearing the Mallet.
The Junior Warden Bro. R. Bain
bearing the Plumb Rule
The Banner of the Lodge

cavity prepared for its reception. The Inner Guard then presented the Worshipful Master with a copper plate bearing the following inscription:—

In the year of our Lord 1849
and
in the 13th year of the reign of
Victoria
Queen of Great Britain and Ireland;
The Most Noble
James Andrew, Marquess of Dalhousie K. T.,
being Governor General of British India;
The Foundation Stone
of the Light-house to be erected on Pedro Branca and dedicated to
the memory of the celebrated Hydrographer
James Horsburgh F. R. S.,
was laid on the 24th day of May
the anniversary of the Birth day of
Her most Gracious Majesty,
by the
Worshipful Master M. F. Davidson Esq.
and the
Brethren of the Lodge Zelland in the East
No. 748.
In the presence of the Governor of the Straits Settlements, and
many of the British and Foreign Residents of Singapore

J. T. Thomson
Architect.

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 them handed to the Worshipful Master, who applied each instrument sucessively 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 finish this and every "other virtuous undertaking." The Brethren replied "So mote it be" 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 conve-"niences 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 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 assist with our Masonic art, in laying the foundation stone of the Light-House, about to be constructed on this spot, in commemoration of the services of that distinguished Hydrographer, James Horsburgh, by whose enterprizing genius, and surpassing zeal, the navigation of these intricate 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 so perfectly accordant 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 Zelland 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 must regard it as a most auspicious event that this noble work has been begun on a day held in

borne by the Wor. Past Master Bro. J. B. CUMMING
Two cups with Wine and Oil
The Wine borne by Bro. T. O. CASSE and the Oil by Bro. GREENFIELDS
The Organist Bro. G. H. BROWN
The inner Guard Brother THO. HEWETSON
bearing the INSCRIPTION PLATE
The Secretary Brother T. H. CAMPBELL
bearing the Book of Constitutions on a silk cushion
The Treasurer Bro J. C. SMITH
bearing a purse containing Coins to be deposited in the Stone
The Corinthian Light
borne by Brother H. MINCHIN SIMONS
Brother W. PATERSON bearing the Mallet.
The Junior Warden Bro. R. BAIN
bearing the Plumb Rule
The Banner of the Lodge
The Senior Warden Bro. J. JARVIS
bearing the Level
The Chaplain Bro. the Rev. F. W. LINSTEDT
bearing the Sacred Law on a cushion

Junior Deacon bearing his Wand	The Worshipful Master Bro. H. F. DAVIDSON	Senior Deacon bearing his Wand

Having halted and formed a street for the Worshipful 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 Worshipful 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:—

Worshipful Master and Gentlemen of the Lodge Zetland in the East.—I have solicited the favour of your laying, on this the anniversary of our beloved Queen's Birth-day, 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 F. R. S. to whose labours the mercantile world is so much indebted for the easy navigation of these seas. The philanthropic object of the building appears especially to call for the exercise of that craft 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 this day from the newly formed "Lodge Zetland in the East," at our little emporium Singapore, for the purpose of taking part in this day's ceremony, to which gentlemen I will thank you to proceed with the least practicable delay.

The Worshipful 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 Worshipful Master's inspection, and having received his approval, they were returned to the architect for his guidance. The Worshipful Master received from the Treasurer and Secretary a Bottle containing 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

dy we feel justly proud of the distinction thus
nferred upon us in having committed to our care,
e commencement of a work of such vast importance
every maritime nation in the world, and so perfect-
accordant with those principles of philanthropy
hich form the basis of our Ancient institutions; and
shall ever esteem it one of the happiest circumstan-
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e East have been called upon to exercise their Craft
so laudable and great an undertaking during the
riod that I enjoy, through their kind suffrages, the
nor of occupying the Master's chair.

All present must regard it as a most auspicious event
at this noble work has been begun on a day held in
e highest veneration by every British subject, as being
e anniversary of Her Most Gracious Majesty's birth
y; and to you, Hon'ble Sir, is the credit due of having
lected this most fitting mode of testifying our loyal-
to our beloved sovereign on the occasion, who I feel
sured could desire no greater and more pleasing proof
our attachment to her royal person, than our being
gaged, as we are this day, laying the foundation of a
ructure which will tend to promote the welfare of so
any of her subjects. It would, perhaps, be no very
fficult task to foresee the extent of usefulness to the
mmerce of our own country and to that of equally ci-
lized powers; but when we contemplate its effect in fos-
ring our intercourse with the semi-barbarous nations
Eastern Asia which surround us, whose want of skill
the art of navigation render them so frequently a
ey to the mysteries of the mighty deep, and tends so
aterially to restrict their advancement, we shall be lost
a maze of conjecture and surmise.

The disastrous effects resulting from the absence of a
ight-House in this locality, in the loss of human
fe and the extensive destruction of property, have been
o frequently and too severely felt within late years not
render it a matter of the deepest concern to all who
el an interest in the prosperity of commerce and the
elfare of their fellow creatures that this work, which, un-
er your auspices we have now so happily begun, should
ave been so long deferred. I should therefore be doing
ou a great injustice, were I to refrain from noticing how
uch the world is indebted to you, Hon'ble Sir, for ha-
ing brought the necessary arrangements to a conclu-
ion, which but for your unceasing and strenuous advo-
acy of the cause, might have still been protracted to an
ndefinite period. Nor can I permit this opportunity
escape me of offering you my most hearty congratulations
hat your long and useful career as the chief authority
n the Straits of Malacca, which has tended so much
o the improvement and embellishment of the settlements
nder your rule, should be crowned by a labor calculated
o be an era in their history, and to reflect everlasting
onor on yourself.

---

* The silver pieces were, a Crown, half crown, shilling, sixpence, penny, half penny, farthing, rupee, half and quarter rupee: the copper coins consisted of a penny, half penny, farthing, eighth, and sixteenth of a penny, Anna, half and quarter; cent, half and quarter cent.

The following statement of the trade was also deposited in the cavity:—

The Trade for the year 1848-49 of Prince of Wales Island, Singapore and Malacca, aggregated the sum of Company's Rupees 45,926,727 in Merchandise and Company's Rupees 12,184,372 in Bullion and Treasure, making a Grand Total of 61,121,099 Rupees (exclusive of the Trade between the three Settlements) as follows:

		Imports	Exports	
P. W. Island	Rs.	5,538,347	6,424,067	12,032,416
Singapore	"	25,401,568	22,670,003	48,071,571
Malacca	"	607,382	409,027	1,017,019
			Grand Total Co. Rs.	61,121,099

Singapore
23d April 1849

W. J. BUTTERWORTH
Governor P. of W. Island
Singapore and Malacca

The Revenue and Charges for the year 1848-49 of Prince of Wales Island, Singapore and Malacca including Civil, and Military, Marine, Judicial, convicts &c. &c. were as follows, the Stations being under the direction of the Hon'ble E. A. Blundell Esq. The Hon'ble T. Church Esq. and the Hon'ble Captain L. Fender respectively.

Charges:			
P. W. Island Co's	Rs.	411,787-15-7	
Singapore	" "	620,827-5-2	
Malacca	" "	321,804-13-2	Rs. 1,154,420-3-11
Revenue:			
P. W. Island Co's	Rs.	196,772-9-2	
Singapore	" "	395,322-4-9	
Malacca	" "	124,545-3-4	Rs. 716,550-1-5
Total deficit at the 3 Settlements Co's.			Rs. 537,870-2-6

Singapore
24th April 1850

W. J. BUTTERWORTH
Governor of P. W. Island
Singapore and Malacca

* N. B. 1 Company European artillery, 1 Company Golandauze, 1 regiment Native Infantry under the command of Lieutenant Col. Lionel Mcester 51st regt. M. N. I. 1341 convicts, 1 steamer and 4 Gun Boats.

cavity prepared for its reception. The Inner Guard then presented the Worshipful Master with a copper plate bearing the following inscription:—

In the year of our Lord 1840
and
in the 13th year of the reign of
Victoria
Queen of Great Britain and Ireland;
The Most Noble
James Andrew, Marquess of Dalhousie K. T.,
being Governor General of British India,
This Foundation Stone
of the Light-house to be erected on Pedra Branca and dedicated to
the memory of the celebrated Hydrographer
James Horsburgh F. R. S.
was laid on the 5th day of May
the anniversary of the Birth day of
Her most Gracious Majesty,
by the
Worshipful Master M. P. Davidson Esq.
and the
Brethren of the Lodge Zetland in the East
No. 749.
In the presence of the Governor of the Straits Settlements, and
many of the British and Foreign Residents of Singapore

J. T. Thomson
Architect.

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 them handed to the Worshipful Master, who applied each instrument sucessively 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 finish this and every "other virtuous undertaking." The Brethren replied "So mote it be" 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 conve-"niences 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 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 assist with our Masonic art, in laying the foundation stone of the Light-House, about to be constructed on this spot, in commemoration of the services of that distinguished Hydrographer, James Horsburgh, by whose enterprizing genius, and surpassing zeal, the navigation of these intricate 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 so perfectly accordant 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 Zetland 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 must regard it as a most auspicious event that this noble work has been begun on a day held in the highest veneration by every British subject on being

Doubtless the recollection of this day's proceedings will form in after years, when you may be removed from the scene of your present labours, not the least pleasing of your reminiscences, and that you may long live to enjoy the contemplation of your past useful and honorable career is my sincere wish.

I feel that I should ill acquit myself of the task you have assigned me were I to omit to pay a just tribute to the munificence of those merchants and mariners 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 Hon'ble the Court of Directors of the East India Company for having advanced the remaining sum necessary to effect this desirable object.

The merits of the distinguished man to whose memory the Light-House is to be dedicated, are too universally acknowledged, to need any longthened panegyric on my part. His comprehensive charts, and elaborate and invaluable sailing directions, the labor of years of untiring exertion and devotion, stamp him as a man of almost unexampled genius and industry. To the navigator of these seas the name of Horsburgh is almost as familiar as his own, and among those who are engaged in commerce in this quarter of the Globe, who is there that does not feel and acknowledge the deepest debt of gratitude to him. To the memory of one so devoted to the cause in which almost his whole life was spent, what more appropriate testimonial could be offered than the edifice now to be erected. And I supplicate the Supreme Architect of the Universe so to bless the work that it may long withstand the ravages of time, and bid 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 to whom its erection is due.

The Governor replied as follows:—

Worshipful Master and Gentlemen of the Lodge Zetland 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 ever 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 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, when leaving the Straits, 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 wanting 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 Horsburgh testimonial, magnified by the munificence of Messrs. Jardine, Matheson and Co. in allowing compound interest on the sum raised in 1842, most certainly enabled me to call upon the Government of India for aid in this matter. The call was readily responded to and favorably received by the Hon'ble Court of Directors, as our presence here this day bears evidence. 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 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 ever esteem it one of the happiest circumstances of my life that the Brethren of Lodge Zetland 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 suffrages, the honor of occupying the Master's chair.

All present must regard it as a most auspicious event that this noble work has been begun on a d y held in the highest veneration by every British subject, as being the anniversary of Her Most Gracious Majesty's Birth day; and to you, Hon'ble Sir, is the credit due of having selected this most fitting mode of testifying our loyalty to our beloved sovereign on the occasion, who I feel assured could desire no greater and more pleasing proof of our attachment to her royal person, than our being engaged, as we are 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 forecast the extent of usefulness to the commerce of our own country and to that of equally civilized powers; but when we contemplate its effect in fostering our intercourse with the semi-barbarous nations of Eastern Asia which surround us, whose want of skill in the art of navigation render them so frequently a prey to the mysteries of the mighty deep, and tends so materially to restrict their advancement, we shall be lost in a maze of conjecture and surmise.

The disastrous effects resulting from the absence of a Light-House 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 it a matter 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 so 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 world is indebted to you, Hon'ble Sir, for having brought the necessary arrangements to a conclusion, which but for your unceasing and strenuous advocacy of the cause, might have still been protracted to an indefinite period. Nor can I 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 rule, should be crowned by a labor calculated to be an era in their history, and to reflect everlasting honor on yourself.

The silver pieces were, a Crown, half crown, shilling, sixpence, penny, half penny, farthing, rupee, half and quarter rupee: the copper coins consisted of a penny, half penny, farthing, eighth, and sixteenth of a penny, Anna, half and quarter; cent, half and quarter cent. The following statement of the trade was also deposited in the cavity:—

The Trade for the year 1848-49 of Prince of Wales Island, Singapore and Malacca, aggregated the sum of Company's Rupees 42,988,717 in Merchandise and Company's Rupees 19,124,372 in Bullion and Treasure, making a Grand Total of 61,121,089 Rupees (exclusive of the Trade between the three Settlements) as follows:

		Imports	Exports	
P. W. Island	Rs.	5,608,347	6,424,067	12,032,414
Singapore	"	20,601,653	24,470,003	45,071,656
Malacca	"	607,992	409,097	1,017,089
			Grand Total Co. Rs.	61,121,089

Singapore
25th April 1850 }

W. J. BUTTERWORTH
Governor P. of W. Island
Singapore and Malacca

The Revenue and Charges for the year 1848-49 of Prince of Wales Island, Singapore and Malacca including Civil, and Military, Marine, Judicial, convicts &c. &c. were as follows, the Stations being under the direction of the Hon'ble E. A. Blundell Esq. The Hon'ble T. Church Esq. and the Hon'ble Captain E. Forster respectively.

		Charges	
P. W. Island Co's	Rs.	411,787-10-7	
Singapore	"	620,827-5-5	
Malacca	"	221,804-15-1	Rs. 1,254,420-9-13
		Revenue	
P. W. Island Co's	Rs.	190,775-9-4	
Singapore	"	383,802-4-8	
Malacca	"	102,842-9-4	Rs. 677,550-1-4
Total deficit at the 3 Settlements Co's.			Rs. 577,870-8-9

Singapore
25th April 1850 }

W. J. BUTTERWORTH
Governor of P. W. Island
Singapore and Malacca

N.B. 1 Company European artillery, 1 Company Gorundauze, 1 regiment native Infantry under the command of Lieutenant Col. Final Master Slat maj. M. B. L. 1847 [illegible], 1 Steamer and 4 Gun Boats.

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.

Gentlemen, I entrust 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, who 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 affections 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 *dejeuner* was prepared, to which His Excellency the Naval commander-in-chief, the Governor and his guests did ample justice, displaying their loyal attachment to our beloved sovereign and acknowledging the kindliness of their host by enthusiastic acclamations. Her Majesty's Steamer Fury took the Hooghly and Ayrshire in tow, and in the dashing high service like character of that ship, brought both vessels into Harbour by half past six in the evening, after, as we assured, a most delightful and pleasant excursion, the felicity of which was heightened not only by the benevolent object they had compassed but by the hearty co-operation and aid afforded by His Excellency the Naval Commander-in-chief, and the gallant Commander of the Fury.

SINGAPORE REVENUE RETURNS.—We are 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 1849-50. 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;—

Total Receipts	Rs.	386,1[illegible]
Civil expenditure	"	258,3[illegible]
Military ditto	"	200,8[illegible]

y prepared for its reception." The Inner Guard presented the Worshipful Master with a copplate bearing the following inscription:—

In the year of our Lord 1850
and
in the 13th year of the reign of
Victoria
Queen of Great Britain and Ireland;
The Most Noble
James Andrew, Marquess of Dalhousie K. T.
being Governor General of British India
The Foundation Stone
Light-house to be erected on Pedro Branca and dedicated to
the memory of the celebrated Hydrographer
James Horsburgh F. R. S.
was laid on the 15th day of May
the anniversary of the Birth day of
Her most Gracious Majesty,
by the
Worshipful Master M. P. Davidson Esq.
and the
Brethren of the Lodge Zetland in the East
No. 766.
the presence of the Governor of the Straits Settlements, and
many of the British and Foreign Residents of Singapore

J. T. Thomson
Architect.

he inscription plate having also been pla- in the cavity, the Worshipful Master receiv- from the architect a silver trowel with some ent, with which he proceeded to close the y; this having been done, and the stone low- into its bed, he directed the Architect to that it was properly adjusted. The Square, el and Plumb Rule were them handed to the shipful Master, who applied each instrument ssively to the stone, and having struck it e times with his mallet, said: "May the Great rchitect of the Universe grant a blessing on is stone which we have now laid, and by is Providence enable us to finish this and every her virtuous undertaking." The Brethren ed—"So mote it be," and gave the usual onic salute. The Worshipful Master next d for the cornucopia containing corn, and cups with the wine and oil, and having pour- the contents of each successively over the e, said: "May the All Bounteous Author of ature bless our Island, of which this Rock a dependency, with Corn, Wine and Oil, and ith all the necessary comforts and conve- ences of life." The Brethren again respon- "So mote it be" and saluted as above. chaplain pronounced an appropriate prayer, the Worshipful Master then addressed the ernor and gentlemen present in the following speech:—

will be impossible to convey to you in adequate s, the very high [illegible] entertained by myself and ren of the honor you have done us, in having publicly called upon us to assist with our Ma- : art, in laying the foundation stone of the Light- se, about to be constructed on this spot, in com- oration of the services of that distinguished Hy- rapher, James Horsburgh, by whose enterprizing s, and surpassing zeal, the navigation of these ate seas, has been so greatly facilitated. As a we feel justly proud of the distinction thus irred upon us in having committed to our care, ommencement of a work of such vast importance ery maritime nation in the world, and so perfect- ccordant with those principles of philanthropy h form the basis of our Ancient institutions; and ll ever esteem it one of the happiest circumstan- f my life that the Brethren of Lodge Zetland in Est have been called upon to exercise their Craft laudable and great an undertaking during the d that I enjoy, through their kind suffages, the r of occupying the Master's chair.

present may regard it as a most auspicious event his noble work has been begun on a day held in ighest veneration by every British subject as being

Doubtless the recollection of this day's proceedings will form in after years, when you may be removed from the scene of your present labours, not the least pleasing of your reminiscences, and that you may long live to enjoy the contemplation of your past useful and honourable career is my sincere wish.

I feel that I should ill acquit myself of the task you have assigned me were I to omit to pay a just tribute to the munificence of those merchants and mariners 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 Hon'ble the Court of Directors of the East India Company for having advanced the remaining sum necessary to effect this desirable object.

The merits of the distinguished man to whose memory the Light-House is to be dedicated, are too universally acknowledged, to need any longthened panegyric on my part. His comprehensive charts, and elaborate and invaluable sailing directions, the labor of years of untiring exertion and devotion, stamp him as a man of almost unexampled genius and industry. To the navigator of these seas the name of Horsburgh is almost as familiar as his own, and among those who are engaged in commerce in this quarter of the Globe, who is there that does not feel and acknowledge the deepest debt of gratitude to him. To the memory of one so devoted to the cause in which almost his whole life was spent, what more appropriate testimonial could be offered than the edifice now to be erected. And I supplicate the Supreme Architect of the Universe so to bless the work that it may long withstand the ravages of time, and bid 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 to whom its erection is due.

The Governor replied as follows:—

Worshipful Master and Gentlemen of the Lodge Zetland 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 ever 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 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, when leaving the Straits, 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 wanting 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 Horsburgh testimonial, magnified by the munificence of Messrs. Jardine, Matheson and Co. in allowing compound interest on the sum raised in 1842, most certainly enabled me to call upon the Government of India for aid in this matter. The call was readily responded to and favorably received by the Honorable Court of Directors, as our presence here this day bears evidence. 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 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 ever esteem it one of the happiest circumstances of my life that the Brethren of Lodge Zetland 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 suffrages, the honor of occupying the Master's chair.

All present must regard it as a most auspicious event that this noble work has been begun on a day held in the highest veneration by every British subject, as being the anniversary of Her Most Gracious Majesty's birth day; and to you, Hon'ble Sir, is the credit due of having selected this most fitting mode of testifying our loyalty to our beloved sovereign on the occasion, who I feel assured could desire no greater and more pleasing proof of our attachment to her royal person, than our being engaged, as we are 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 forcsee the extent of usefulness to the commerce of our own country and to that of equally civilized powers; but when we contemplate its effect in fostering our intercourse with the semi-barbarous nations of Eastern Asia which surround us, whose want of skill in the art of navigation render them so frequently a prey to the mysteries of the mighty deep, and tends so materially to restrict their advancement, we shall be lost in a maze of conjecture and surmise.

The disastrous effects resulting from the absence of a Light-House 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 it a matter 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 so 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 world is indebted to you, Hon'ble Sir, for having brought the necessary arrangements to a conclusion, which but for your unceasing and strenuous advocacy of the cause, might have still been protracted to an indefinite period. Nor can I 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 rule, should be crowned by a labor calculated to be an era in their history, and to reflect everlasting honor on yourself.

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.

Gentlemen, I entrust 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, who, 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 affections 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 *dejeuner* was prepared, to which His Excellency the Naval commander-in-chief, the Governor and his guests did ample justice, displaying their loyal attachment to our beloved sovereign and acknowledging the kindliness of their host by enthusiastic acclamations. Her Majesty's Steamer Fury took the Hooghly and Ayrshire in tow, and in the dashing high service like character of that ship, brought both vessels into Harbour by half past six in the evening, after, as we assured, a most delightful and pleasant excursion, the felicity of which was heightened not only by the benevolent object they had compassed but by the hearty co-operation and aid afforded by His Excellency the Naval Commander-in-chief, and the gallant Commander of the Fury.

The silver pieces were, a Crown, half crown, shilling, sixpence, penny, half penny, farthing, rupee, half and quarter rupee: the copper coins consisted of a penny, half penny, farthing, eighth, and sixteenth of a penny, Anna, half and quarter; cent, half and quarter cent.

The following statement of the trade was also deposited in the cavity:—

The Trade for the year 1848-49 of Prince of Wales Island, Singapore and Malacca, aggregated the sum of Company's Rupees 42,926,711 in Merchandise and Company's Rupees 18,194,371 in Bullion and Treasure, making a Grand Total of 61,121,099 Rupees (exclusive of the Trade between the three Settlements) as follows:

		Imports	Exports	
P. W. Island	Rs.	6,505,347	6,444,067	12,949,414
Singapore	"	20,401,555	22,570,005	42,971,564
Malacca	"	607,321	409,037	1,017,618
			Grand Total Co. Rs.	61,121,099

Fort Singapore
25th April 1850

W. J. BUTTERWORTH
Governor P. of W. Island
Singapore and Malacca

The Revenue and Charges for the year 1848-49 of Prince of Wales Island, Singapore and Malacca including Civil, and Military, Marine, Judicial, convicts &c. &c. were as follows, the Stations being under the direction of the Hon'ble R. A. Blundell Esq. The Hon'ble T. Church Esq. and the Hon'ble Captain L. Forder respectively.

		Charges	
P. W. Island Co's.	Rs.	411,761-15-7	
Singapore	"	520,327-6-4	
Malacca	"	221,504-15-1	Rs. 1,154,420-4-11
		Revenue	
P. W. Island Co's.	Rs.	196,775-2-1	
Singapore	"	341,823-4-6	
Malacca	"	178,845-9-6	Rs. 716,440-1-5
Total deficit at the 3 Settlements Co's.			Rs. 437,979-3-6

Singapore
25th April 1850

W. J. BUTTERWORTH
Governor of P. W. Island
Singapore and Malacca

N. B. 1 Company European artillery, 1 Company Golundauze, 1 regiment Native Infantry under the command of Lieutenant Colonel Moubray (1st regt. M. N. I.) 1247 convicts, 1 Subaltern and 4 Gun Boats.

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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 1849-50. 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:—

Total Receipts	Rs.	386,119
Civil expenditure	"	258,332
Military ditto	"	200,892

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

Date : 18 Sep 1850

18th September (No 31) 1850

Bengal

Marine Department

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.

*2½ 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

670 459.

18th September (No. 31) 1850.

Bengal
Marine Department

1 Coll:

Para 1. In your letter No 13 of the 30th March last, acquainting us with the precautions made under your authority, for the construction of the Horobuzzi Light-House on the Island of Pedra Branca, we are informed that an Agreement had been made with a Chinese Contractor - & the commencement of the building carry 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. -

Fd Ct (Committee) 27 August 1850

Affirmed 28 August 1850 Said before Court do die

affd Court 4 Sept

We

#60.

2. We cannot comply with the desire of the Committee of the Chamber of Commerce at Singapore, that the disbursement of the sums to be advanced from the public treasury towards the expenses of the lighthouse should be extended over a series of years. It is the wish of the Committee that, out 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 revenue dues is appropriated to any other purpose.

2½ Dollars ₩ 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

Bengal Marine 18th September (No. 31) 1850. 461.

as 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 Cantons, Camps and
machinery, for the Horsburgh
Light House; also that the
amount determined upon for
the Lights &c 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 referred
the request that we will
advance to Mr. Stevenson
such sums as he may
require for the provision of
the Articles in question;
but having been parties to
these

462.

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 in Money or Russian 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 Stevenson or the local authority in 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

Bengal Marine 18th September, (No. 31) 1850. 468.

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. Nizam
J. 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

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 Mess^{r} 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.

Ashlar stone work of Capital including parapet and Light room wall	1200. - -
do of out offices	180. - -
Granite pavement to rooms	250. - -
Labour in erecting do	300. - -
Tackle and machinery	100. - -
Windows doors stairs and all fixtures including labor	500. - -
Temporary houses for workmen	100. - -
Hoisting and placing lantern and setting up Lamp Machinery	200. - -
Repairs to Tonkangs	100. - -
Pay of her Crew for 3 months	192. - -
2 Iron Rings let into Masonry	30. - -
Nails baskets saws chisels hammers and other small articles	100. - -
8 barrels cement	64. - -
Cash Keeper and watchmen 10 mos	150. - -
	3466 -
Contingencies and unforeseen expenses 10%	346.60
	3812.60
Amount already expended	9061.23
Total	12873.83

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	1636.08
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
	2726.72
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.

Platform	388. - -
Garden	86. - -
Landing place	100. - -
Channels to catch rain water	50. - -
Wooden pier on south of rock	200. - -
	824. - -
Contingencies and unforeseen expenses 10%	82.40
Sp. dollars	906.40

I would humbly solicit the early decision of Gov^{t} 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

1 Clock	30. - -	bro^{t} forward	192.00
1 Argand Lamp	10. - -	20 water barrels	100. - -
3 Hanging	9. - -	6 brass wash basons	12. - -
Tackle for heaving up		1 Boat	90. - -
provisions	100. - -	Davits for do	40. - -
9 bed steads	27. - -	8 chairs	8. - -
1 Telescope	16. - -	3 Tables	12. - -
over	192. - -		454. - -
		Contingencies 10%	45.40
		Sp^{h} Dollars	499.40

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 Skerryrore(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 Gov^{t}, 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 &ca 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 out works 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 &ca 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
&ca
Sd/ J.T. Thomson
Gov^{t} Surveyor

Singapore 2nd
Nov/50

True Copy
(signed)

No. 28

To, The Honble
Thomas Church Esq
Resident Councillor

Sir,

On the completion of this season's operations at the Hirsburgh Lighthouse now in the course of erection on Pedra Branca - I 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 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 H 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 Dr 23 Cents and the following is an estimate of the probable Cost of the remainder.

Ashlar Stone work of Capital including parapet and Light room wall	1200.–
do of Out Offices	180.–
Granite pavement to rooms	250.–
Labour in erecting do	300.–
Tackle and Machinery	100.–
Windows doors Stairs and all fixtures including Labor	500.–
Temporary houses for Workmen	100.–
Hoisting and placing lantern and setting up Lamp Machinery	200.–
Repairs to Lookouts	100.–
Pay of her Crew for 3 months	192.–
2 Iron Rings let into Masonry	30.–
Nails baskets Saws chisels hammers and other small articles	100.–
8 barrels Cement	64.–
Cash Keeper and Watchmen 10 mos	150.–
	3466.–
Contingencies & unforeseen expenses 10%	346.60
	3812.60
Amount already expended	9061.23
Total	12873.83

The original Estimate amounts to 13,101 Sp Dollars 78 Cts it may therefore with confidence be anticipated that the work according to the original plans and specification - 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 Sp Dr 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

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Mr Bennett's Salary for 1 year	@ 150 "	818.04
Mr Lewis do for 1 month	@ 100 "	45.45
My table allowance when on board the Hooghly		227.25
		2726.72
Amount already expended		527.22
Total Sp Dr		3253.94

Adding the Cost of Works to the Cost of Supe-
-intendence 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 an-
ticipated as being required for the comfort
and safety of the light keepers having only
had prior to the commencement of operations
a few cursory visits when any peculiarities
in the formation of the rock did not
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-vantage of also the action of the waves around
the rock have proved considerably different
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that I had designed for the landing have
thereby proved ineffectual.

The first addition I would humbly
propose is a platform of stone 18 feet
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could be laid preparatory to their being
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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 be lost be accorded to the solitary beings that will tenant the rock.

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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 the 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 round 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.

Platform	$88. —
Garden	86. —
Landing place	100. —
Channels to catch rain water	50. —
Wooden pier on South Rock	200. —
	824. —
Contingencies & unforeseen expences 10%	82.40
Mr dollars	906.40

I would humbly solicit the early decision of Govt. 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 S.W. Monsoon and will point out in the coming N.E. 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 inexpensively 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 do 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 every thing 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

1 Clock	30. –	bt. forward	192: 00
1 Argand Lamp	10. –	20 Water barrels	100. –
3 Ranges	9. –	6 brass wash basons	12. –
Tackle for heaving up provisions	100. –	1 Boat	90. –
9 bed steads	27. –	Davits for do	40. –
1 Telescope	16. –	8 Chairs	8. –
over	192.	3 Tables	12. –
			454. –
		Contingencies 10%	45: 40
		Sp. Dollars	499. 40

Regarding the requisite establishment of Keepers &c 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 Keepers and 3 Natives should be employed to watch the light - Subsequent experience and closer 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 care is taken that the keepers should never be debarred from communication with the shore - Thus the Bell rock lighthouse 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. When a vessel that is kept solely to tend that lighthouse immediately puts to sea - the same is the case at Skerryvore and I believe at every other lighthouse of kindred nature - Such as the Eddystone Tuscan, Carlingford, Maplin and one or two

others - The Raulingh lighthouse which is as distant as any of these from the nearest shore namely 60 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 & most valuable will depend for their safety on the uninterrupted showing of the light - I trust that it will appear to you, 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 & 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 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 no 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 & the other a safe built boat for sea duty. Here a constant watch could be maintained on the lighthouse and their rapid pieces 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 lighthouse at one time viz 1 European & 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 provisions required to be sent out. In case of this arrangement being found inadvisable 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 and the ~~latter case of the 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 boats 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 when 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 lanterns 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 pirtical sect called the Orang Kyota 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 & 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 Pharos 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 Looking boats &c are also undergoing repairs at Pulo Ubin - these were much damaged against the rocks at the Lighthouse - In Singapore the stucco mouldings, doors windows copper & brass work and all other fittings & 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 &c. 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 & plans which could scarcely be made without a thorough knowledge of them.

By the first of March next you the Gunboats should proceed to paint Romania to prepare spars, watering places &c and be ready to depart when a landing can be effected. When a landing is reported possible I would first propose, after our water & provisions have been got on shore landing with only Malays, Convicts and

2 Chinese Carpenters - I shall prepare the attap sheds - the Convicts to bore and blast the rocks at the new landing place and the Carpenters to erect an temporary house and also the temporary pier - These arrangements would be sufficient if 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 & the outworks &c during July and if no accident occurs 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 establishments ready in August so that they might undergo two months instruction before having the duties left to their sole charge.

I have the honor to be

&c

J T Thomson

Lt Governor

Singapore 2nd Nov 1850

Mr Cuting

Mr Mr B

Dr

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

The 7th Novr. 1850

Res^{t}. Councillor

70.

127 To,

The Hon'ble the Governor &c.

Sir,

I have to enclose the monthly return of Coal, by which it will be seen, that the Stock on hand, on the 1st instant, aggregated 188 T. 8 C. 0 Qr. 26 lbs.

I have &c.
Wm. P. Thirsk
Res. Commissioner

The 5th Nov. 1850.

128 To,

The Hon'ble the Governor &c.

Ans. 4 Feb (51)

Sir,

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

2. Mr. Thomson's communication is extremely satisfactory, the Moresburgh 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 should feel 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 Pomania, 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 benefit would also accrue by requesting His Highness the Tumongong to form a village at Romania under the control of a respectable Panghulou 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 surprized and gratified at the 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 &c.
Sig.d J. H. Church
Act. Councillor

Sing.e 10th Nov. 1850.

129 No.

The Honble the Governor &c.

Sir,

I beg leave to transmit herewith the accompanying Tabular and other figured Statements having reference to the Commerce and Shipping of Singapore for the Official Year ending the 30th April 1850. —

No. 1 — Detailed Statement of the quantity and value of Merchandize and Treasure Imported —

No. 2 — D.o — D.o — Exported —

No. 3 — Statement of Merchandize Transhipped in the Harbour, not included in Statements No.s 1 and 2. —

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

Date : 9 Nov 1850

No. 133

Genl No 865 of 1850
4th
Ansd Jany/ 51
No 6

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 Birth day of our Most Gracious Majesty Queen Victoria.

*d/ 7 Nov 1850 No 128
Copy retained

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 64½ 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.

*Platform	$388.00
Garden	86.00
Landing Place	100.00
Channels to catch Rain Water	50.00
Wooden Pier on South of Rock	200.00
	$824.00
Contingencies + Unforeseen expenses 10 %	82.40
Spanish Dollars	906.40

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

1 clock	$30
1 Argand Lamp	10
3 Hanging Lamps	9
Tackle for heaving up provisions	100
9 Bedsteads	27
1 Telescope	16
Carried forward	$192

Brot (Brought) (?) forward	$192.00
20 Barrels	100.00
6 Brass Wash Basins	12.00
1 Boat	90.00
Davits for ditto	40.00
8 chairs	8.00
3 Tables	12.00
	454.00
Contingencies 10%	45.40
Spanish Dollars	499.40

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
Governor

9th November 1850

No 133 —

Genl No 865 of 1850

To W Seton Kerr Esquire

Ans. 12 Jany 57. No 6.

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 Birth day of our Most Gracious Majesty Queen Victoria.

+ Of 7 Nov. 1850 No 128. Copy received

Mr Thomson has fully realized my utmost expectations, in the Zeal, Energy and Skill, with which he has prosecuted

his

his labors on this most 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 64½ 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, upon which he had no dependent for supplies 40 Miles from this Town, 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 there were many

and

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 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 Shewn 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

of the Light House Keeper, by affording Amusement, and Preserving them from some Portion of the Excessive heat which Strikes from the bare Rock, that it is an 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 those 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

practicable, 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 &c^a.

*Platform	$388:00
Garden	86:-
Landing Place	100:-
Channels to catch Rain Water	50:-
Wooden Pier on South of Rock	200:-
	$824:00
Contingencies & unforeseen expenses 10%	82:40
Spanish Dollars	906:40

1 Clock	$30.
1 Argand Lamp	10.
3 Hanging Lamps	9
Tackle for hearing up Lanterns	100.
9 Bedsteads	27.
1 Telescope	16
Carried forward	$192

Brought forward	$192:00
20 Barrels	100:00
6 Brass Water Vessels	12:00
1 Boat	90:00
Davits for Ditto	40:00
8 Chains	8:00
3 Tables	12:00
	$454:00
Contingencies 10%	45:40
Spanish Dollars	499:40

*Taken from Mr Thomson's Report — Lee Enclosure to Mr Chunder's letter dated 7 Novr 1850 — No 128.

6. Mo.

126.

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 prolement 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 Honble 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

Eventually be found absolutely necessary.

I am disposed to combine Mr Thomson's Several Propositions, by having a large Party at the Light House i.e. 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 Ramanial, 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 &c

Sd. W. J. Butterworth

Governor

9th November 1850

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 _

Singapore 20th Jany

1851

Sd/ J T Thomson

Surveyor

Received [illegible] which (if you have not already received the amount) [illegible] will be forwarded as forward to the [illegible] [illegible] I [illegible] have doubt that the amount will be immediately paid to you

Furthermore so that no possible delay may arise in forwarding the articles out to [illegible] I have written to Messrs [illegible] of Singapore placing in their hands the sum of Dollars 500 (nearly £100) with a request that they transmit the same to their firm in London Messrs [illegible] [illegible] who will communicate with your [illegible] who are empowered to receive the [illegible] containing the Lantern [illegible] for [illegible] to pay you what [illegible] extra expenses beyond the £100 you have [illegible] though they will include the [illegible] in [illegible] of shipping [illegible]

[illegible] monthly [illegible] is now at hand and so as [illegible] the [illegible] shall be ready to [illegible] the Lantern [illegible] [illegible] [illegible] May next at furthest I trust you will forward the articles without delay on the [illegible] and shipping [illegible] [illegible] [illegible] greatest disappointment [illegible] [illegible] [illegible] almost the [illegible] before [illegible] [illegible] [illegible] which came on my [illegible]

[illegible] I [illegible] [illegible] [illegible] [illegible] of the [illegible] [illegible] to put it up [illegible] [illegible] [illegible] the light and [illegible] the [illegible] a [illegible] [illegible] [illegible] [illegible] large and [illegible] [illegible] [illegible] [illegible] to be [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Tuesday

I remain [illegible]
Yours [illegible]

[illegible] 20th May
1867

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.

I remain Sir

Singapore no. 6th Feby 1851

Your Obdt St

Sd/ J T Thomson

766

[illegible] on the 20th Jany
[illegible] Lastly [illegible] as from
[illegible] that at
[illegible] as the
[illegible] articles
[illegible] conse-
[illegible] of which will pre-
[illegible] light [illegible] any
[illegible] Lane
[illegible] from you
whether [illegible] with it
[illegible] other cause
[illegible] only guess
[illegible] satisfy
[illegible] of Stud
[illegible] property
[illegible] made
[illegible] Lane [illegible] made
[illegible] John
[illegible] by Mr David
[illegible] be
[illegible] Con-
[illegible] £1500
[illegible] you
[illegible] the agra-
[illegible]

[illegible] improper in me to antici-
pate that cash should have been the case —
as I am not aware of the
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 Commissioner forwarded with your letter dated Oct. 18th and that Messrs Rankin Lorton & Co of Boston will do all the work required and I trust it will appear to you if you consider the proceedings I am placed in by your delay in to have the work [illegible] the profit cost [illegible] that I have done all that could be expected. I may mention that the Cost of the light house is not disparaged by any private body nor [illegible] from any special fund [illegible] the expenses were not [illegible] private [illegible] but that the Cost of the [illegible] taking the [illegible] what was [illegible] and [illegible] to say is [illegible] not exceed by [illegible] for cost is [illegible] but the Cost of Dividers [illegible] the [illegible] were made [illegible] the [illegible] when they [illegible] cost in charging [illegible] will make [illegible] to cost if [illegible] will be necessary [illegible] this under the [illegible]

[illegible] to your letter dated 19th of [illegible]

[illegible] 18th Feb 1857

[illegible]

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

409

[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] kindly
inform [illegible] [illegible] [illegible] for Light house
[illegible] [illegible] [illegible] the [illegible]
[illegible] [illegible] [illegible] [illegible] and
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] that [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] will be [illegible] to
place the [illegible] [illegible] the [illegible] [illegible]
the [illegible] the [illegible] [illegible] for the
[illegible] [illegible] [illegible] and its [illegible]
will fully [illegible] the [illegible] the [illegible]
[illegible] [illegible] in [illegible] you of this you
will [illegible] [illegible] [illegible] [illegible] be
[illegible] with [illegible] [illegible] [illegible]
[illegible] or [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] from the
Lighthouse [illegible]

[illegible] with the protracting or [illegible] non completion of the works this [illegible]

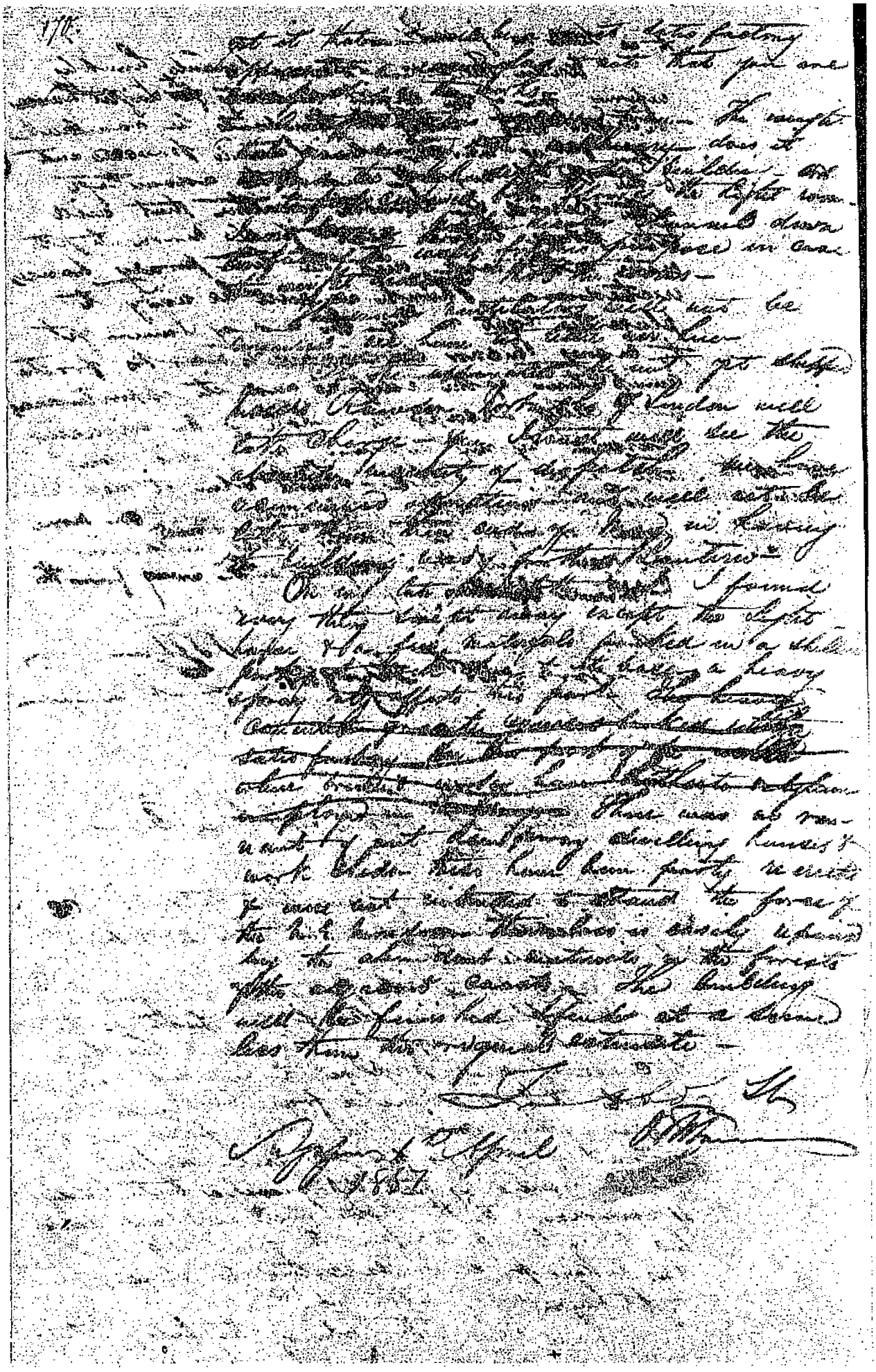
Singapore 25th May 1868

To Allan Stevenson Esqr
Engineer to the Northern Light house Board
Edinburgh

Sir
[illegible] [illegible] of your letter dated 28th [illegible] [illegible] [illegible] dated 18th [illegible] [illegible] of the [illegible] dated 20th [illegible]

In reply [illegible] the [illegible] arrangements have now been placed on a satisfactory footing. The misunderstanding [illegible] this subject has been the cause of great perplexity to [illegible] and I am glad to note that it originated from Mr Thomas Stevenson having the original letter which refers you to the Board of Directors for payment and that it was not caused by their [illegible] that body of Commissioners with the Light house as I had been led to anticipate from the great delay that has taken place in [illegible] the [illegible] of the Light house works [illegible] to you.

I have [illegible] the [illegible] the [illegible] plates [illegible] [illegible] no doubt when we [illegible]



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, as usual, skulking off when thus overtaken,

of upwards of Rs 70,000. The chief increase in the receipts arises on Excise Farms to the amount of Rs 19,923;

and the large outlet she is thereby enabled to afford to the goods of the Mother country, India, China &c. &c.—*Ibid, May* 30.

Statement of the Proper Receipts and Disbursements at Singapore for the Official Year 1850-51, exclusive of Military and Convicts.

A

Amount of Excise Farms received in 1850-51	249,852	2	2	
Do. of Fees from the Court of Judicature ditto	20,823	4	5	
Do. of do. from the Court of Requests do.	8,954	2	3	
Do. of Quit Rent do	21,198	9	2	
Do. of Transfer Fees under Act 16 of 1889 do	2,024	11	6	
Do. of Fees on Surveying Land do	233	9	3	
Do. of Land sold for Agricultural purposes	6,410	6	8	
Do. of Fees on the Registry &c. of vessels	1,180	6	6	
Do. of Postage collected 41,371. 0. 4 — Deduct—Credited to H. M. Government. 33,918. 1. 4	7,452	15	0	
Do. Rent of Goverment Houses	1,591	13	0	
Do. Premium on Bills of Exchange and on Subscriptions to the Loan	12,602	15	10	
Do. Miscellaneous Receipts	8,136	5	9	435,311 4 6
Company's Rupees				435,311 4 6

B

Salary of Resident Councillor				24,000	0	0
Do. of Assistant Resident				4,403	9	7
Do. of Assistant to the Governor				600	0	0
Resident Councillor's Establishment				3,684	0	0
Court of Judicature Establishment at Singapore				13,458	0	0
Sheriff's ditto				5,078	6	0
Coroner's ditto				1,324	14	10
Court of Requests ditto				4,074	0	0
Seamen's Hospital ditto				2,496	0	0
Pauper and Insane Hospital ditto				1,082	0	0
Victualling Paupers				1,084	11	11
Salary of Chaplain and Establishment				10,536	0	0
Salaries of Senior and Assistant Surgeons				11,341	15	0
Post Office Establishment				0,912	0	0
Revenue Department Establishment				8,282	0	0
Import and Export Office Establishment				5,400	0	0
Signal Department				240	0	0
Political Pensions				18,860	13	0
Local Pensions				4,329	15	0
Schools				5,214	5	8
Master Attendant's Department				7,020	0	0
Establishment, Provisions &c. &c. of Gun-boats *Charlotte* and *Frances*				9,113	10	0
Buildings and additions to Buildings				5,920	15	7
Repairs to Buildings				4,889	6	10
Loss on disbursing Salaries &c.				5,657	14	8
Assessment on Government Buildings				3,463	4	8
Contingencies General	3,659.	7.	3			
Do Judicial	18,805.	1.	3			
Do Medical	226.	11.	4			
Do Post Office	1,763.	14.	2			
Do Ecclesiastical	681.	0.	0			
Do Revenue	162.	0.	5			
Do Import and Export	65.	10.	10			
Do Marine	1,456.	10.	6			
Do Military	137.	10.	4	26,954	2	1
						195,357 0 10

ADD C.

Salary of the Governor (less Military Pay) and Establishment during 1850-51	12,420	0	0	
Do. of the Recorder and ditto during ditto	15,001	13	4	
Do. of the Registrar of the Court of Judicature do.	5,073	5	4	
Do. of Pension of Mr T. G. Mitchell do	333	5	4	
Do. of expences of the H. C. stmr. *Hooghly* do	11,120	13	0	44,865 5 6
Excess of Receipts				195,098 14 1
Company's Rupees				435,311 4 6

(continues to next page, overleaf)

(continued from previous page)

Company's Rupees.....

D.

Statement of Expences 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.	109,486	5	1
Amount paid at Madras on account of Family Certificates.	55,833	8	11
Do value of Provisions issued to the Troops.....	17,079	11	5
Do of Military Contingencies including repairs.....	8,965	12	8
Do Military Pay of his Honor the Governor.....	2,922	0	0
Do ditto Superintendent of Convicts.....	1,461	0	0
Do of Military Stores issued to Troops (unknown.)			
Expences incurred for the Periodical relief of Troops (do)			
Company's Rupees..	195,248	5	8

E. E.

Singapore, 1st *May*, 1851.

Company's Rupees..... 435,311 4 5

E

Statement of Expences incurred for Convicts at Singapore during the Official Year 1850-51

1st May, 1851	Supported by Government	Support themselves
Bengal	28	78
Madras	607	109
Bombay	492	40
Total No. of Convicts	1,127	227

Salary of Superintendent of Convicts exclusive Military Pay.....	5,739	0	0
Establishment of the Convict department.	8,533	9	8
Do of the Convict Hospital..	945	0	0
Contingencies.....	5,576	6	4
Rations and Clothing of Convicts including Money allowance.....	42,844	11	1
	63,138	11	1
DEDUCT			
Received from Municipal Fund for hire of Convicts.....	5,346	0	0
Company's Rupees....	57,792	11	1

ABSTRACT

Receipts per particulars A..... Company's Rupees....				435,311	4	5
DEDUCT						
Disbursements Local charges B.....	195,357	0	10			
General charges C.....	44,855	5	6			
Military charges D.....	195,248	5	8			
Expense of Convicts E.....	57,792	11	1	493,253	7	1
Nett Deficit, Coy's Rs....				57,942	2	8

T. CHURCH,
Resident Councillor.

PIRACY.

A case of piracy on a small scale has just been reported. Several Bugis had proceeded to the Carimons for the pur- wishing to avenge the murder of their countryman, afterwards went out in search of the pirates but returned unsuccessful, having probably found on on Pulo Dammar, engaged the boat of a Bugis woodcutter, intending to cross to Singapore. When at a short distance from Pulo Dammar, 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

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

5 Total on leave

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 uncleanliness 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

Rice	(45 catties per mensen)	
Saltfish	6	-
Oil	1	-
Salt	¼	-

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 earthern 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.

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August 4 1851

[illegible]

[illegible] Edward Evans

[illegible] Esq.

As the Morehead Light House is being Released [illegible] that arrangements be made for the early erection of the building, procuring of Materials [illegible] Contractors as soon as completed so that in the early expected arrival of the Lighting Apparatus the Light may be shown in the building — and as it stands out from only certain notes & Complete the Building and its appurtenances — I would humbly submit information regarding the intentions of Government with respect to the erection of Cisterns in connexion with the building & the provision for the future maintenance among the Light — in the procuring of Light Keepers, Purchase of stores and the execution of the other duties that will be necessary to be performed hereafter in an efficient manner — or whether some other arrangement should be adopted for the purpose —

As I have been orally informed by you that the Proper arrangements have been determined upon and that you would be pleased for me to forward to you any Report that I might think worthy of the attention of Government I beg to submit the following [illegible] remarks as may be of service. I have recently passed much of my time to subject connected with Light Houses during these last two years and I may say to forward on this that they will be acceptable as they are connected with a subject that [illegible] interest and are consequently well considered.

Light Keepers — the subject of Light Keepers and establishment for the Light House. I made some communication in my letter to you of 1848 and in 1849 at the period of writing the former letter the estimates of the building had not been made — at which time the work had only been one or three months — my remarks regarding the future maintenance of the Light (at that time under the [illegible] of a Commissioner)

are necessarily short and ~~[illegible]~~ as the preliminary of the position I set out here to did there being less opportunity to do so they are therefore subject to future correction. At the period of writing the Lions Roof had the experience of the fair season spent in operations - yet the heavy of the state of the weather in the vicinity of Pearce Harbour 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 been to submit to your consideration I make under greater advantages than I possessed at those former times having my several occasions past and to the rock during the last North East Monsoon in order to ascertain the facts requisite to a decision with regard to communication with the Light House during that season - such as the practicability of changing the Light Keepers, furnishing stores &c. - which I have lately brought regularly the establishment necessary for the efficient cleaning of the Lights - ~~[illegible]~~ ~~[illegible]~~ I trust will be worthy of your favorable consideration.

In my letter of 28th 1880 I suggested three methods of keeping up an establishment for lighting the Rock Lights - the last method proposed in that letter was of always maintaining on the rock a party consisting of the Europeans and eight natives - seemed best to me under all circumstances for the light with some slight modifications - I have found that during every month of the N.E. monsoon there will be opportunities to land the Keepers the water was heavy from long may not always be practicable to land on the Main land - access to the rock will not be easy for 4 or 5 months in consequence of the difficulty of keeping all the establishment on the rock I therefore consider the plan formerly suggested - and the keeping of the Light Keepers at Pt Pierce - and necessary - I may add that the whole of the Light House the advantages in further consideration the sufficient protection of the building and its tenants against pirates

and then will dispense persons who would not be the case were only 3 or 4 men stationed there.

The establishment that I would now propose will consist of thirteen individuals in lieu of fourteen as proposed in my letter to 28 of 1850. and I believe it would include all purposes of placed under efficient supervision and discipline. It is as follows

2 Head Light Keepers Europeans
2 assistant — do — Malays
3 Lindals — do
6 Lascars Malays or Lascars do —
13 Total establishment

The Light keepers I would propose to change monthly and the Lindals and Lascars every two months — thus there would be always at the Light house

1 Head Light keeper
1 assistant do
2 Lindals
4 Lascars
8 Total at the Light house

On shore Lascars at the depots there would be

1 Head Light Keeper
1 assistant — do
1 Lindal — do
2 Lascars — do
5 Total of Lascars —

The assistant Light keepers Lindals and Lascars I believe to be Malays & be best adapted in case of difficulty the Lascars which is of frequent occurrence they are more expert poor Europe Colonists or Natives of India in the management of boats they are all their element & all other matters are quite secondary from comparison in the discussion to be had between a necessarily indifferent Light keeper in charge & a Native. The Head Light Keepers I fear Europeans will not be obtainable under any moderate salary but repeated Lists have proved such that as well Keeper as assistant in the Light house, is held of the highest importance & the authorities would be in the

[illegible] in the approach to the Canyon [illegible] passage [illegible] thro' which [illegible] from the open sea [illegible] the light be lost in an effective state. To this end the appointment of a responsible officer and the Deputy Engineer [illegible] the light keeper board [illegible] and the attention under their charge would inevitably be spoiled or very much damaged by the Deputy - the practical effects of such would be the diminution of light and consequently instead of being seen by the mariner 15 or 20 miles distance it might only be observed half that distance in which case [illegible] would be in the position of the Light houses of England which [illegible] are very [illegible] the Canyon the Trinity board have [illegible] Engineer [illegible] responsible for the practical working of the system. The Coast Light houses - with which alone the [illegible] are acquainted and the interests of [illegible] are under the Trinity Light houses board & whom the Chief [illegible] Engineer is responsible. The Engineer's duty is to supervise the Light establishments - [illegible] the officers are appointed & when necessary to the light by officers and watchmen, and to see that they are kept in efficient working order and that the reflectors and [illegible] are not scratched and otherwise spoiled from the carelessness of the keepers. So particular are they in this respect that the slightest mechanism about the light is detected is held sufficient cause of dismissal of the light keeper. The object of this careful attention [illegible] the concentration of the reflectors and carried to [illegible] distant places such as light houses generally occur for large spaces and cannot be avoided by constant attention and watching of [illegible] performance may interfere with the permanent observing of the light as [illegible] in the case of the Harbour Light houses and [illegible] it is also the duty

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with the Lighted Lighthouses – all Lighthouses
Beacons & Lighthouse tenders are under his
direction under the direct orders of the Engineer and
he is responsible for their efficiency – He
the permanent maintenance of the Bars of
Light House which occupied a very important
portion of the duty of the Lighthouse Board
& Engineer ~~[illegible]~~ I think it will equally
~~[illegible]~~ not be well and necessary that the building and
the construction of the Lighthouse under proper
control. Experienced the light house from first
reason will not be expected in intelligently
by any in Boston and its machinery and appa-
ratus ~~[illegible]~~ to maintain the character
which requires that Durability and care which
will for ever maintain with the dignity
be appear to management also begins equal
attention & thus upon it may be so to
before the stability be endangered
~~[illegible]~~ The efficient working of the
whole system depends on all the parts
being kept in good order – the objects
of the ~~[illegible]~~ Lights & properly
~~[illegible]~~ The model that carries
out the ~~[illegible]~~ produces will be no
~~[illegible]~~ by his also the Light keepers and
coastlights will proceed – at intervals allow
the Superintendent to the duty on which
the proceeds were at ~~[illegible]~~ times by Lighthouse
It would be ~~[illegible]~~ in performance of the Light
house in times that the seaman the orders of
~~[illegible]~~ under the Commander and Essen
in ~~[illegible]~~ portion two or three hours
the duties of the officers would not be incommoded
but the Channel – To make the General effect
as a Light house tender I would recommend that
a hulk be placed all round her deck
and a cabin constructed aft the mast
with port holes ~~[illegible]~~ the forward – the present
~~[illegible]~~ are unsupportably hot and ill ventilated
and ~~[illegible]~~ are seldom ~~[illegible]~~ cabins even during
the hottest days – If the establishments that
have proposed ~~[illegible]~~ approving Board
it would be necessary for the ~~[illegible]~~

2 and these carry a vessel equal as on any foreign coasts

2 or the construction and use of the commodious cabins & Lunch of the Officers under proper control. Experienced the light house from first reason will not be expected in intelligently by any in Boston and its machinery and apparatus ~~[illegible]~~ to maintain the character which requires that Durability and care which will for ever maintain with the dignity

3 that do not form an integral part of the main building

4 to keep out the damp

5 The expense of the lines being more easily borne than the heat with which ~~[illegible]~~ the present

Inquired of the Light House as a matter of local
importance and utility, and of benefit to the Light-
Keepers. Should accidents occur at the Light House
so as to demand some such communication with
the shore, the Boat Rig is adapted to the work
and to be manned with five Oarsmen and suits for
that purpose. The lines when kept from
the Light House should be well secured to enable
them to resist if we believe, but the knowledge
that they cannot always be probably entirely
deter the practical mariner from making the
attempt.

Proceeded to consider arrangements as to the
pay of the Light Keepers. Would humbly propose
that the Keepers receive the salaries according to
the rates established by Act. The
following Estimate would be a fair allowance
for men.

Rec'd 45 dollars per month
Lieutenant 6 ——— ———
Cook — 1 ——— ———
Cabin Boy ——— ———

The duties of the building character to be entrusted
with the Keepers themselves. The officers from Charleston
and the Light House. That the Keepers
when they forward their monthly accounts
have attached to the Bundle in the 1st of Charleston
& month for the month and water should
be stated on the 30th — for that the Light Keepers
being in a distant country probably prove unable
to dispatch to the office each during
the bad weather — at all other times
2 months provisions should be placed at the
work in advance so as to secure the favorable
weather for the men being forced to leave the
work place unmanned — Surveyor
Lieut. Lorrage Remarked as to the furnishing
of provisions and stores of Keepers I understand
from the Journals of Steamer Gem
about 60 miles East of the Rock that
25 of a mile towards the S.W. there are 12 &
14 fathoms and 100 yards distance to the
S.W. of the Rock and the E. & N. there are
10 & 12 fathoms — for the purpose of landing

184 during the formation of the N. E. Monsoon a [illegible] swell has been [illegible] at this they are to able to [illegible] [illegible] when the [illegible] is very high. For the guidance of the Light House Keeper [illegible] I [illegible] [illegible] [illegible] the [illegible] of Pedra Branca and [illegible] [illegible] a [illegible] [illegible] [illegible]

Rules for Light Keepers. The accompanying Rules for Light Keepers I humbly submit for the consideration of Council. In drawing them up I have been guided by those addressed to the Keepers of the Northern Light Houses of Great Britain by the Commissioners [illegible] [illegible] [illegible] [illegible] [illegible] the circumstances of this climate. Should they be approved of I would suggest that a copy both in English and [illegible] [illegible] be hung in the Light room of the Building.

Instructions to Light Keepers. For these I am also indebted to Mr Allan Stevenson [illegible] the [illegible] Northern Light House Commissioners [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Light Keepers.

[illegible] [illegible] [illegible] oil should be the best cocoanut oil [illegible] [illegible] [illegible] purpose. There are [illegible] lamps which will consume 360 gallons or nearly that quantity per annum. I have provided a sufficient number of earthen jars in the building to contain that quantity. I would suggest that the annual supply be forwarded to the Light house during the calm months of [illegible]. 365 gallons of cocoanut oil is equal to 22 [illegible] 50 [illegible]. A greater or less quantity than this may be actually consumed as my calculations are based on the quantity of sperm oil consumed in the Northern Light Houses and cocoa nut oil may burn more or less freely than that kind of oil.

Journal. Accompanying is the form of

Journal I would propose that kept by the Light Keepers who should daily write it in duplicate – the copy of the kept in the Lighthouse and the other to be forwarded monthly to the Superintendent –

Stores Book. In this book no fresh need be given as what is received need only be put on one page and what is expended 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 –

Stores and accounts. I would humbly recommend the following to be furnished to the Light house & be kept in the head keepers room

8 Percussion muskets
16 — do — Pistols
8 Cutlasses
8 boarding Pikes
250 musket cartridges
250 Pistol — do —
500 Caps —

When the barrows require to be moved in the boat either for water or to come meet with Superior, the five arms have been found in my best passed great advantages over the common muskets in that respect.

Meteorological observations. In an establishment of this nature where the duty is regular and continuous, such observations can be made with little labour or trouble to the keepers – and they frequently and numerous observations on the density of the air, the moisture to be kept in taken – observations on the tides, force of waves, fall of rain, heat of a given place & direction & strength of winds – In the mean time I have only proposed these stations in the Pen monthly – one gauge to be placed in the Lighthouse forever – the former if not of practical use will be interesting, the latter will show the quantity of water that can be collected in the tank for the use of the Light keepers and stand as a check against waste. I have constructed this instrument and before the Lighthouse operations are finished will have ascertained the number of gallons that can be collected in the tank to every inch of rain fall

(84.) I think I have written to the Commissioners on every thing necessary to the working of the Light House. If any thing has been omitted any other time it will be of minor importance – and trusting that my suggestions may be found of service

I have the honor to be
Sir
Your very obt. Servant
W. Maurice
Lieut. Engrs.

Inspection 23d July 1857.

P.S. Uniform. – I do not know whether it will be of much service in making the Light keepers wear a Uniform dress. There would be some difficulty regarding this and the analogy as I believe they generally expect to appear in their customary dress when off duty. The northern Light House board formerly, & their keepers a dress once every three years – and the cost is to its use – & as follows –

Extract from Sailing instructions to the Light keepers in the charge of the Commissioners of the northern Light Houses –

Page 29. "The Light keepers are to appear in their "Uniform dress when going of the Commissioners "or principal officers visit a station and also "on Sundays – in which day it is over the "matters permitting the Light house flag "should be hoisted by the assistant Light keeper "or in his absence by the principal Light keeper "when it shall be displayed until sunset

The Light house flag appearance is different from the national flag.

Portsmouth 1st May 1857

Resident Clerk
Sir – I have the honor of forwarding to you the Plans of Lewis 1861 & Dimensions in the manner you direct in your letter of 5th of 1857

Sir
Your obt. Servant
W. Maurice
Lieut. Engrs.

Inspection 23d July 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

Date : 23 Aug 1851

Gl no. 589
of 1851

No. 313

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 Mess[rs] 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 Cinnamon - in the mean time, you are at liberty to have parties instructed by the Cingalese in the cutting, peeling, drying and packing of this Condiment, which I believe constitutes the only difficulty, that has been experienced in the Straits, for rendering this Article saleable at remunerative prices in the Home Market.

I have &c.
Sd/ W. J. Butterworth
Governor.

23rd August 1857.

Gl No. 589
8/1857

No. 313

To
The President Councillor
at Singapore

Pd/ Penang 23rd August 1857.

Sir,

I have the honor to acknowledge the receipt from letter under date the 4th instant No. 100, with its enclosures from Mr. Thomson, on the subject

of the Establishment, supervision
&c. &c. - for the Scotbrough
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 Govern-
ment - In the meantime,
I beg you to tender him my
cordial acknowledgements
for his able, and acceptable
Communications -

3. The Rules and Instruc-
tions, drawn up by Mr.
Thomson, for the Light House
keepers, which you inform me,
have been framed on the
Regulations in force in
Great Britain - and adapted
to the position of the Scotbrough
Light House, and persons
to be in charge of it - appear
excellently well suited to
the end in view -

4. The Establishment
for -

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 Sorlingh Light House Establishment, being under the supervision of some responsible person - but this is a matter quite distinct from the functions held by Messrs. Stevenson and Walker to the Scotch Light Houses and Trinity Board. for these

Gen.

Gentlemen are consulting Engineers & referees on all occasions, with reference to the Establishment of Lights - their nature, and construction - now there are few persons in India, having a practical knowledge of the description required 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 Gordeswar Light House, to the Master Attendant, 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

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, & cause great, and just dissatisfaction. It is my intention therefore, to send the Steamer once every Month, to Pelo Branco, 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 furnished 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, shewing the cost of the proposed Establishment in detail - Pay, Provisions - Feeding the Lights and all contingencies of every description, including such allowance, as you may deem expedient to grant to the person, who will have the superintendence and control of the Lighthouse 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 Adsbugh Light House, but the first thing, that Government will desire from me is an exact Statement of the Expenses of the Light House Establishment &c. &c. to regulate the Tonnage Dues, and to be by that this may be furnished, as your earliest convenience -

I have &c.

Sd/ W. J. Butterworth

Governor.

23rd August 1857.

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)

Extract from Straits Times & Singapore Journal of Commerce
23 September 1851

steamer was beached. 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 Rhio 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 works 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

Singapore, Tuesday, 30th September, 1851.

NOTICE TO MARINERS.

HORSBURGH 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, on a rock which lies off the eastern entrance of the Straits of Singapore. The Light will be exhibited on 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. T. 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 Borbucet Point—East distant 12½ Nautical miles, and from the N. E. point of Bintang N. W. by W. ¾ W. distant 12 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—

Compass Bearings	Distance in Nautical miles	Description
E. by S.	¼	Rock which shows at L. W. Sp. Tides.
S. E. by E. ¾ E.	⅙	Rock with ½ a fathom on it ditto.
S. E. by E. ¾ E.	10½	Postillion rock with 1½ fathoms on it at ditto.
S. S. E. ½ E.	¾	3 E. rocks which always show.
S. by E. ½ E.	6	Diana shoal with 2½ fathoms on it at L. W. Sp. Tides.
South	¾	3 rocks which always show.
S. by W. ¾ W.	2	South Ledge dries at ½ ebb.
S. by W. ½ W.	7½	Shoal with 1½ fathoms on it at L. W. Sp. Tides.
S. W. ½ S.	11½	Crocodile shoal with 3 to fathoms on it ditto.
W. ½ N.	7½	Rock with 2½ fathoms on it ditto.
W. N. W. ¾ W.	6	Stork rock, dries at L. W. Sp. Tides.
W. N. W. ½ W.	5½	Congalton's Car with 1½ fathoms on it at ditto.
Between N. N. W. ½ W. & N. by W. ½ W.	Between 4½ & 6	Ramunia shoal with 3½ fathoms on it at ditto.
N. by E.	10½	North Patch with 4 fathoms on it at ditto.

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

The lantern, which is open all round, elevated 95 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 15 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 160 broad and is 24 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,
Gov. of the P. of W. Island Singapore and Malacca.

Singapore 24th Sept. 1851.

Straits Times and Singapore Journal of Commerce
30 September 1851

THE HORSBURGH LIGHTHOUSE—In our advertizing 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.

THE
STRAITS AND SINGAPORE JOURNAL OF COMMERCE.
VOL. 7TH. PUBLISHED EVERY TUESDAY OCTOBER 7TH 1851 TUESDAY MORNING NO. 652.

NOTICE TO MARINERS

HORSBURGH LIGHT-HOUSE

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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. T. 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 Barbucet Point—East distant 12½ Nautical miles, and from the N. E. point of Bintang N. W. by W. ¾ W. distant 12 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—

Compass Bearings	Distance in Nautical Miles	Description
E. by S.	¾	Rock which shows at L. W. Sp. Tides.
S. E. by E. ¼ E.	¾	Rock with ½ a fathom on it ditto.
S. E. by E. ¼ E.	10½	Position rock with 1½ fathoms on it at ditto.
S. S. E. ¼ E.	¾	S. E. rocks which always show.
S. by E. ½ E.	6	Diana shoal with 2½ fathoms on it at L. W. Sp. Tides.
South	¾	S. rocks which always show.
S. by W. ¼ W.	2	South Ledge dries at ½ ebb.
S. by W. ½ W.	7½	Shoal with 1½ fathoms on it at L. W. Sp. Tides.
S. W. ½ S.	11¾	Crocodile shoal with 3 to fahms on a ditto.
W. ¼ N.	7¼	Rock with 2½ fathoms on at ditto.
W. N. W. ¼ W.	6	Stork rock, dries at L. W. Sp. Tides.
W. N. W. ¼ W.	5½	Congalton's Car with 1½ fathoms on it at ditto.
Between N. N. W. ½ W. & N. by W. ½ W.	Between 4½ & 6	Romania shoal with 3½ fathoms on it at ditto.
N. by E.	10½	North Patch with 4 fathoms on it at ditto.

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

The lantern, which is open all round, elevated 95 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 15 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 130 broad and is 24 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.
Govr. of the P. of W. Island Singapore and Malacca.

Singapore 24th Sept. 1851.

The Singapore Free Press
AND
MERCANTILE ADVERTISER.
Vol. 18. SINGAPORE, FRIDAY MORNING, 3rd OCTOBER, 1851. No. 40

THE HORSBURGH LIGHT HOUSE.—On Saturday last the Hon'ble the Governor, accompanied by Sir William Jaffcott, Colonel Messiter, and a large party of gentlemen, including many of our oldest residents, proceeded to Pedra Branca in the H. C. Steamer *Hooghly* for the purposes of inspecting the Light-house and witnessing its illumination for the first time. The steamer left the roads at 8 o'clock in the morning, and anchored a little to the westward of the rock at 1 P. M. The afternoon was spent in inspecting the tower and lantern, together with the numerous conveniencies that have been constructed for the comfort of the light keepers, including a store and kitchen cut out in the solid granite, and a jetty of timber, secured by guys of massive chain work, to facilitate landing during the northeast monsoon; and from the vivid impression left on the minds of the visitors, we anticipate that *this first* Pharos of the Eastern Seas will prove the great Lion of the Straits for some time to come. It is, indeed, an edifice of which Singapore may well be proud. The granite blocks which form the walls were quarried and shaped at Pulo Ubin; the timber used in the building is the growth of our island; the brass rails of the stair-case were moulded and turned in this settlement; and last not least, the Architect and Engineer acquired the skill and experience which enabled him to erect so rapidly this chaste and stately building, during a long and useful career as Government Surveyor at Singapore. The cast-iron dome and lantern are the only *outside* productions. For these we are indebted to the Messrs Stevenson of Edinburgh, the Engineers of the Northern Light-houses, and from the completeness of the details, there can be little doubt that all the modern improvements have been introduced. The lamps are fixed on an iron frame which corresponds in form with the dome shaped lantern, but is so much smaller, that ample space remains between the frame and the lantern for the watchmen 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-work like apparatus once in three minutes, so that a brilliant flash which lasts about 15 seconds is presented to the distant beholder once a minute.

The guests, in number about fifty, sat down to dinner on board the *Hooghly* at ½ past 5, and soon after the removal of the cloth, a simultaneous rising announced that the process of illumination had commenced. Three hearty cheers welcomed to life 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 grew smaller as the distance was increased, but the flashes still maintained their brilliancy until it disappeared below the horizon at a distance of 15 miles, but it still continued visible to those who ascended the rigging for nearly an hour afterwards; and it was the general opinion that the light will be seen as brilliant as ever from the mast-head of a large ship at a distance of 20 miles.

LABUAN.—By the H.C. Steamer *Pluto*, Captain Burbank, we have intelligence from this colony to the 17th ult. The colony was perfectly healthy, and was progressing in a satisfactory manner. 1,000 tons of coals had been raised from the pits of the Eastern Archipelago Company, during the course of the month, and 2,300 tons were ready for shipment, notwithstanding a considerable quantity had been taken away by the *Pluto* steamer, and the *Sarah*, *Charles*, *Dumergue*, and *Gulbai Mare*, sailing vessels. Differences had arisen between the Company's resident officials, but we trust that they will not inter-

THE OVERLAND SINGAPORE FREE PRESS.
A Monthly Summary of General and Commercial Intelligence from the Straits, Java, Manila, &c.
SINGAPORE, MONDAY, EVENING THE 6TH OCTOBER, 1851.

NOTICE TO MARINERS

HORSBURGH LIGHT-HOUSE.

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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 T. 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 Barbucet Point—East distant 12½ Nautical miles, and from the N.E point of Bintang N. W. by W. ¾ W. distant 12 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—

Compass Bearings	*Distance in Naut. miles*	*Description*
E. by S,	⅜	Rock which shows at L. W Sp. Tides.
S.E. by E ¾ E.	½	Rock with ½ a fathom on it at ditto.
S.E. by E. ¾ E	10½	Postillon rock with 1¾ fathoms on it at ditto
S. S. E. ½ E.	¾	S. E. rocks which always show.
S. by E. ½ E.	6	Diana shoal with 2¾ fathoms on it at L. W. Sp. Tides.
South	¾	S. rocks which always show
S. by W. ¾ W.	2	South Ledge dries at ½ ebb.
S. by W ¾ W.	7½	Shoal with 1¾ fathoms on it at L. W. Sp. Tides.
S. W ½ S.	11¾	Crocodile shoal with 3 fathoms on it at ditto.
W. ¼ N.	7¾	Rock with 2¾ fathoms on at ditto.
W N. W. ¾ W.	6	Stork rock, dries at L. W. Sp. Tides.
W.N.W. ¼ W.	5½	Congalton's Carr with 1½ fathoms on it at ditto.
Between N N.W ¾ W & N. by W. ½ W.	Between 4½ & 6	Romania shoal with 3½ fathoms on it at ditto.
N. by E.	10¾	North Patch with 4 fathoms on it at ditto.

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

The lantern, which is open all round, elevated 95 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 15 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 100 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.
Govr. of P. W Island, Singapore and Malacca.

Singapore, 24th 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

Date : 28 Oct 1851

No. 388 G/No. 781 of 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,

*

1 Head Light Keeper	Rs	90 " "	
1 Second Do-Do-		80 " "	
2 Syrangs at 25 Rs each		50 " "	
3 Tindals " 16 - Do -		48 " "	
6 Lascars " 13 - Do -		78 " "	
and		346 " "	
Rice, Salt fish, Oil & Salt to 8 men on duty at Light House		20 " "	366 " "
Total Estabmt & Rations			366 " "
Contingencies			
Oil for Lantern 3 1/2 Piculs		55 " "	
Cotton wicks, Cloth & rouge		10 " "	
Glasses / Chimnies		17 " "	
Paint & Varnish for Lantern Railings, awnings &ca &ca		20 " "	
Expenses of Superintendent in visiting Light House		20 " "	122 " "
Total Monthly Expenses	Rs		488 " "
Total Annual Do			5856 " "

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

28

No. 384

Gl. No. 480
of 1857.

A true copy of a letter from the Resident Councillor at Malacca of 16th October 1857 No. 565 Reporting on the practicability of arrangements for the delivery of unpaid letters by the Contract Mail Packets at Malacca direct instead of sending such on to Singapore. Furnished for the information of the Resident Councillor at Singapore and for communication to the Post Master.

Dy of Singapore 28th Oct 1857.

No. 388

Gl. No. 481
of 1857.

To,

The Resident Councillor
at Singapore

Dy of Singapore 28th Oct 1857.

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 Borneo Lighthouse, as requested

in

29

in the 8th Para of my letter under date the 25th August last No. 313, and intimating that a detailed State-ment of expenses incurred, with Plans &c. 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 sanc-tioned from the 25th Ult. the date on which it is more compli-cated construction, then should have wished, will remain under the charge of Mr. Thomson, to whom my best thanks are due

1 Head Light keeper - Rs	90	..	..				
1 Second do - do - - -	80	..	..				
2 Lamp-men at 25 Rs each - -	50	..	..				
3 Pindals - 16 do - -	48	..	..				
6 Lascars - 13 do - -	78	..	..				
Ditto	346	..	..				
Rice, Salt fish, Oil & Silk for 8 men on duty at Light House - - - -	20	..	..	366	..	..	
Total Establishment & Rations - -				366	..	..	
Contingencies.							
Oil for Lantern 3½ Pinds -	55	..	..				
Cotton rags, cloth & Sponge - -	10	..	..				
Glasses & Chimnies - -	17	..	..				
Paint & Varnish for lantern railings, Awnings &c. -	20	..	..				
Expenses of Superintendent in visiting Light House -	20	..	..	122	..	..	
Total Monthly Expense - -		Rs		488	..	..	
Total Annual do - - -				5856	..	..	

due for his readiness in undertaking this additional work.

The Kirkburgh Lighthouse, 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 middle 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 &c.
Saml. M. S. Butterworth
Surveyor

28th Oct. 1857.

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

General N°. 794 of 1851

No. 42

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 N°. 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.

*To Mr. U. Secretary Seton Karr's address

*Vide annexed List

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 M^{r}. 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 &^{ca} &^{ca}, 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 M^{r}. 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.

Cost of Tower & Out Works	
Spanish Dollars	17,810-81
Do of Lantern Apparatus	
Lightning Conductors and Additional Lenses	6331-00
Spanish D^{rs}	$ 24,141-81
Or C^{os} Rs	54,206-6-6

6. The details of Expenditure, Survey Plans &^{ca} with a full report of all his proceedings will be sent in by M^{r}. 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 24141-81 or C^{os} 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.

1 Head Light Keeper Rs	90.00	
1 Second Ditto Ditto	80.00	
2 Syrangs 25 Rs each	50.00	
3 Tindales 16 " "	48.00	
6 Lascars 13 " "	78.00	
	346.00	
Add		
Rice, Salt fish, Oil and Salt to 8 men on duty at the Light House	20.00	
Total Establishment		366.00
and Rations		366.00
Contingencies		
Oil for Lantern 3½ Piculs	55.00	
Cotton Wicks Cloth & Rouge	10.00	
Glasses chinnies	17.00	
Paint & varnish for lantern Railings ..... &ᶜᵃ &ᶜᵃ	20.00	
Expenses of Superintendent In visiting Light House	20.00	
		122.00
Total Monthly Expenses Cᵒˢ Rs		488.00
Total Annual Ditto		5856.00

7. 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 Cᵒˢ Rˢ 5856 per annum.

8. I beg in conclusion, to suggest that the Draft Act, submitted with my letter under the date 13th February 1850, N°. 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.

*To the Government of Bengal

I have the honour to be &ca

Sd/ W. J. Butterworth

1st November 1851 Governor

Home 1851/2 Depart[t]
Marine

Gov[r] Straits Settlements

No. 42

D/ 1st Nov[r].}
R/ 3rd Dec[r].}

Cons. 6th Feb
No. 3

Forward with observations a Dispatch from the Resident Councillor at Singapore relative to the Estab[t] 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.

General No. 1494 of 1851

No. 42

From

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

To

J. P. Walliday, Esqr.
Secretary to the Government of India
Fort William

Dated Singapore 1st November 1851

Sir

I have the honor 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 Harbour Light House recently completed on Pasha Branca at the entrance of the Rhemo River, which I submitted in Notes 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 [illegible] zealous and indefatigable public servants in the Straits, Mr. Pearson, 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 in most peoples. The Contractor [illegible] away. The workmen employed were [illegible]

* to Mr. U. Secretary Selon Kari addressed

occasion, when supplies failed them, they were removed to the Gun boat on Beacons, so great was the force of the waves upon the Rocks, 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 that Search has been raised a grand 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. *Vide annexed List

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 adapted in the Mother Country, a little too complicated perhaps for so isolated a position, but readily managed by the present

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 — Sandun &c. &c. is likely to exceed the original Estimate, and Outsequent additions sanctioned by Government are unusual, if not an unprecedented fact in Engineer 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, Drawing Plans &c. with a full report of all the proceedings will be sent on 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 26,141-81 or Co's 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

Cost of Tower & other Works	
Spanish Dollars	17,810-81
Do. of Lantern & fixtures, Lightning Conductor and additional Screws	8331-00
Spanish Do. $	26,141-81
or Co's Rs.	54,206-6-6

which is found necessary for the efficient management of the Light.

9. 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 steady, 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.

1 Head Light Keeper Rs.	60	0	0			
1 Second Do. Do.	30	0	0			
2 Assistants Rs. 15 each	30	0	0			
3 Sirdars Rs. 16	48	0	0			
6 Lascars Rs. 13	78	0	0			
Add	246	0	0			
Three Coolies fixed allow. 2 to be always on duty in the Light House	20	0	0			
Total Establishment				266	0	0
Contingencies				366	0	0
Oil for Lantern & Lamps	50	0	0			
Cotton Wick & other Stores	10	0	0			
Repairs to Lantern	7	0	0			
Rent of Land for Sandy Hooks Landing Stores &c.	20	0	0			
Expenses of Establishment indent in visiting the Light House	20	0	0	122	0	0
Total Monthly Expense				488	0	0
Total Annual Do.				5856	0	0

Rs. 5856 per Annum.

5

I beg in conclusion, to suggest that the Draft Act submitted with my letter under date the 13th February 1850, No. 22, for the Stay of Light dues, may have early publication; I should it have received the application of the most Noble the Governor General in Council with a view of meeting the urgent 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 Due should be raised to three Cents of a Dollar per Ton for all square rigged Vessels on the principle laid down in the 2d Clause of the aforesaid Draft Act.

To the Government of Bengal.

I have the honor to be &c.

R. N. J. Butterworth

1st November 1851 Governor

Pay Lord C

Home 1551/2 Dep.t Marine

Govt Straits Settlements
No 42

Dated 1st Nov.r
Recd 3 Dec.r
Ans.d
Cons. No 3

Forwards with Observations & Proposals from the President & Council of Singapore relative to the Establishment necessary for the Humbugh Light House on Pulo Aroa and Requesting passing of the Bill relating thereto and suggests that the rate of Light House and that the amount to 3 Cents of a Dollar for every square rigged vessel.

Annex 59

Act No. VI of 1852 (India)

ACT No. VI. OF 1852.

Passed by the Governor General of India in Council, on the 30th January 1852.

An Act for defraying the Cost of a Light-House on Pedra Branca.

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 fix-

tures,

tures, 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 controul 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, Merchandize, 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, Merchandize, 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

ACT No. VI. OF 1852.

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, Barque, 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.

The foregoing act is authorised for general information.

Calcutta, 1852:—Printed at the Bengal Military Orphan Press, by F. Carbery.

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 1851-52, exclusive of Military and Convicts.

A

Amount of Excise Farms	324,127	4	4				
Do. of Fees from the Court of Judicature	14,583	5	8				
Do. of do. from the Court of Request	10,337	5	3				
Do. of Quit Rent	19,689	2	5				
Do. of Transfer Fees under Act 16 of 1839	1,259	5	10				
Do. of Fees on Surveying Land	112	4	3				
Do. of Land sold for Agriculture							
Do. of Building Land sold	2,312	11	,,				
Do. of Fees on the Registry &c. of vessels	1,188	12	10				
Do of Postage collected Coys Rs.	43,893	10	10				
Deduct Credited to H. M. Government	35,891	8	,,	8,002	2	10	
Do. Rent of Government Houses	1,098	9	7				
Do. Premiums on Bills of Exchange &c	8,802	4	3				
Do. Miscellaneous Receipts	3,430	10	4	400,911	14	1	
Company's Rupees				400,911	14	1	

B

Salary of Resident Councillor				24,000	0	0			
Do. of Assistant Resident				10,000	0	0			
Resident Councillor's Establishment				3,684	0	0			
Court of Judicature Estmt. at Singapore				13,458	0	0			
Sheriff's Ditto				5,078	6	0			
Coroner's Ditto				1,320	0	0			
Court of Requests Ditto				4,074	0	0			
Salary of Chaplain and Establishment				10,587	9	9			
Do. of Surgeon and Assistant Surgeon				14,200	0	0			
Seamen's Hospital Establishment				2,496	0	0			
H. Coy's Dispensary Do.				630	0	0			
Tan Tockseng's Hospital Establishment				1,633	5	0			
Post Office Establishment				6,912	0	0			
Revenue Department Establishment				8,180	15	8			
Import and Export Office Establishment				5,400	0	0			
Signal Department Establishment				240	0	0			
Political Pensions				18,860	13	0			
Local Pensions				4,329	15	0			
Schools				5,214	5	8			
Master Attendant's Deptmt. Establishment				7,020	0	0			
Establishment, Provisions &c. of Gun Boats *Charlotte* and *Frances*				9,803	7	3			
Buildings and additions to Buildings				10,611	12	3			
Repairs to Buildings				2,876	14	3			
Loss on disbursing Salaries &c				4,218	15	5			
Assessment on Government Buildings				3,515	12	4			
Contingencies General	4,423	11	6						
Do Judicial	22,017	9	2						
Do Medical	269	5	6						
Do Ecclesiastical	810	0	5						
Do Post Office	1,731	8	3						
Do Revenue	198	2	7						
Do Import and Export	246	9	11						
Do Marine	2,061	11	7						
Do Military	996	0	6	32,754	11	11	211,102	15	6

ADD C

Salary and allowances of the Governor and officiating Governor & Establishment				10,529	6	11			
Do. Do. of Mr. H. S. Mackenzie Asst. under the Governor of the Straits				2,167	2	3			
Do. Allowance of Mr Garling, Civil Servant, out of employ, from 26th Decr. 1851 to 31st March 1852				361	2	9			
Do. Salary of the Recorder & Establishment				15,001	13	4			
Do. Do. of Registrar of the Court of Judicature				5,973	5	4			
Do. of Pension of Mr T. G. Mitchell				333	5	4			
Do. of Expenses of the H. C. steamer *Hooghly*				9,445	1	0	43,812	4	11
Excess of Receipts							145,996	9	8
Company's Rupees							400,911	14	1

D E

(continues on next page, overleaf)

(continued from previous page)

Company's Rupees..	400,911	10	1

D

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..	124,856	0	1
Do paid at Madras on account of Family Certificates	39,227	10	7
Do value of Provisions issued to the Troops	14,182	15	6
Do. of Military Contingencies including repairs	5,937	10	6
Do Military Pay of his Honor the Governor	1,891	2	11
Do ditto of Superintendent of Convicts	1,461	0	1
Do. of Military stores issued to Troops (unknown)	00	0	0
Expenses incurred for the Periodical Relief of Troops (unknown.)	00	0	0
Company's Rupees..	187,556	7	6

Do. of Pension of Mr T. G. Mitchell	333	5	4
Do. of Expenses of the H. C. steamer *Hooghly*	9,445	1	0
			43,812 4 11
Excess of Receipts			145,996 9 8
Company's Rupees			400,911 14 1

E

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

1st May, 1852.	Supported by Government.	Support themselves.
Bengal	151	71
Madras	597	127
Bombay	469	42
Total No of Convicts	1,207	240

Salary of Superintendent of Convicts, exclusive of Military Pay	5,739	0	0
Establishment of the Convict department	8,502	5	5
Establishment of Convict Hospital	1,020	0	0
Contingencies	5,625	12	7
Rations and Clothing of Convicts including Money allowance	44,326	10	7
	65,213	12	7
DEDUCT			
Received from Municipal Fund for hire of Convicts	5,382	0	0
Company's Rupees..	59,831	12	7

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Singapore, 1st May, 1852.

T. CHURCH.
Resident Councillor.

PINANG.

(From the Pinang Gazette, May 29)

By the steamer *Shanghai* we received Singapore

frequent amongst the Chinese population, as every person connected with the administration of justice and every resident of experience knows to be the case, there need be no more hesitation in confiscating

and Mr Blundell allowed the charges to be withdrawn. In acting thus he had no doubt allowed himself to be persuaded that the very serious manner in which he had at first taken up the matter, and the