

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.G.O. No. 296 (1v) Press
Mis.

Dated 25-6-1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT

25th June 1877, No 296 W.

Buildings and Roads
Civil Works.

Read the following paper —

No 229 From C J. LYALL, Esq, Under Secretary to the Government of India, Department of Revenue, Agriculture, and Commerce, (Surveys), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 12th June 1877, No 349.

With reference to your letter, No 316, dated the 1st February last, I am directed to forward copy of a letter from the Deputy Superintendent of Marine Surveys, No 89, (Accounts), dated the 11th ultimo, together with a statement of expenditure incurred on account of the survey of the Madras Roadstead, from which it will be seen that the charges paid from the Madras Harbour Fund on account of Hotel expenses of Lieutenant Jarrad and Mr Falle have been refunded by them

2 As regards the contingent and other expenses which were likewise paid from the Harbour Fund, I am to point out that the charges on account of the survey only so far as it has been carried out by the officers of the Marine Survey Department should be debited to that department. It will be observed that the statement above referred to (which was furnished by the Government of Madras) includes items of expenses which were incurred before the survey was taken over by the Marine Survey Department as well as several on account of the Harbour Works Officers in connection with the Survey. These items, which are marked with an asterisk in the statement, do not, in the opinion of the Government of India, appear properly debitable to the Marine Survey Department, and should be charged to the Madras Harbour Works

3 I am to request that the charges may be divided accordingly and a fresh statement embracing those chargeable to the Marine Survey prepared and sent to that department for adjustment.

From Staff Commander J H ELLIS, R N, Deputy Superintendent of Marine Surveys to the Government of India, to the Secretary to the Government of India, Department of Revenue, Agriculture, and Commerce, dated Calcutta, 11th May 1877, No 89, (Accounts)

With reference to the 2nd paragraph of your letter, No 170, Surveys, dated the 16th March last, I have the honor to inform you that Lieutenant Jarrad and Mr Falle have refunded the amounts paid on their account by the Madras Harbour Works authorities, and the sums refunded were as follows —

	RS	A	P
Lieutenant Jarrad	226	4	0
Mr Falle	239	4	0

2 With regard to the sums for contingent and other expenses on account of the survey which were borne by the Harbour Fund, I beg to forward herewith a statement of expenditure incurred by the Harbour Works authorities on account of Lieutenant Jarrad while carrying on the survey of Madras Roadstead furnished to this office by Government of Madras, and to point out that Lieutenant Jarrad informs me that the charges therein marked * were not incurred by him, nor were they incurred at his request. I do not think, therefore, they should be debited to this department, and beg that the attention of the Government of Madras may be invited thereto

3 I specially beg to invite your attention to the heavy charges for cooly hire, which aggregate Rupees 297-12-4, to the charge of Rupees 200 paid to Mr Agar for commencing the survey, and the charge of Rupees 309-2-9 for teak timber. Lieutenant Jarrad informs me that he is at a loss to account for such an expenditure. A tide gauge which is permanently fixed at Madras has also been charged for. I am of opinion that none of these charges should be debited to the Marine Survey Department

Statement of Expenditure incurred on account of Lieutenant Jarrad and Mr Falle while carrying on Marine Survey of Madras Roadslead

	Amount			
	Rs	A	P	
To Mr Agar	200	0	0	• Mr Agar commenced the survey at the desire of the Government of Madras
„ two metallic books	3	2	0	•
„ three and a half yards mounted drawing paper	7	14	0	•
„ hire of cart and coolies for carrying poles for station on north beach for four days	6	0	0	•
„ carriage-hire from Royapooram to Trivatoor for fixing seven poles alongside the shore north of Royapooram for three days, at Rs 1-8-0 per day	4	8	0	•
„ one chatty for whitewashing	0	1	0	•
„ two brushes, at Pies 6 each	0	1	0	•
„ nine days' allowance for assisting in chaining and fixing base line stations on the north and south of Madras Pier, at Annas 8 per day	4	8	0	•
„ one cart for carrying pegs, &c, for the use of the base line stations south of Madras Pier	1	0	0	•
„ teak timber supplied for making ranging rods, pegs, poles, &c	309	2	9	•
„ cooly-hire for stitching six large flags	0	12	0	•
„ one ton of Australian coal	21	0	0	•
„ three boats' load of water, at Rs 5-1-5	15	4	3	•
„ two „ „ of coal, at Rs 2-11-0	5	6	0	•
„ one empty bottle	0	0	6	•
„ one chatty	0	0	8	•
„ twelve sheets of lead 4" x 2", at Rs 0-2-6 each	1	14	0	•
„ conveying instruments on board, &c	2	0	0	•
„ do Mr Falle and baggage, &c	1	8	0	•
„ do Lieutenant Jarrad and baggage, &c	1	4	0	•
„ cooly-hire for baggage at Madras	0	8	0	•
„ gharry-hire on duty to Fort, Master Attendant, and Harbour Engineer's Offices	2	0	0	•
„ hire of bandy and horse for surveying purposes from 2nd to 5th September inclusive, at Rs 2 per diem (4 days)	8	0	0	•
„ one bottle writing ink	0	8	0	•
„ telegram to Calcutta	3	0	0	•
„ do do	2	0	0	•
„ do do	1	0	0	•
„ do do	3	0	0	•
„ do do	4	0	0	•
„ do do	1	0	0	•
„ repairing Tide-watch	10	8	0	•
„ Lieutenant Jarrad's hotel bill for board and lodging	128	4	0	•
„ Mr Falle's do do do	142	4	0	•
„ board and lodging of two steersmen and two leadsmen	39	8	0	•
„ hire of bandy and horse for survey	42	0	0	•
„ Lieutenant Jarrad's hotel bill for lodging, &c	98	0	0	•
„ Mr Falle's do do and board	147	0	0	•
„ hire of bandy and horse for survey purpose during October	50	0	0	•
„ board and lodging of two steersmen and two leadsmen	32	8	0	•
„ carriage allowance for draughtsman for sighting with theodolite the base line and fixing stations on the south of Madras Pier as far as the Ice-house, at Annas 8 per day for six days	3	0	0	•
„ wages of lascars employed on survey launch on 1st and 2nd October 1876, at Rupees 20 per mensem	1	4	8	•

Statement of Expenditure incurred on account of Lieutenant Jarrad, &c — (Continued)

	Amount			
	Rs	A	P	
To wages of fireman employed from 1st to 3rd October 1876, at Rupees 20 per mensem	1	15	0	•
„ cash paid for labor, &c, for steam launch on the pier	5	12	0	•
„ fitter for overtime for five days, at Rs 1-12-0 per day	8	12	0	•
„ fireman to steam launch for fourteen days, at As 8 per diem	7	0	0	•
„ do extra time for five days	2	8	0	•
„ cooly for sewing one large flag of red bunting	0	12	0	•
„ price of half yard white cloth for stitching the edge of the flag	0	2	0	•
„ conveyance-hire for three days sighting and fixing base line stations and right angles north of the Clive's Battery, at Annas 8 per day	1	8	0	•
„ conveyance-hire to Imperial Hotel, Mount Road, and back for receiving instructions from Marine Surveyors	0	14	0	•
„ conveyance-hire for eleven days in assisting in setting right angle flags, base line stations, at Annas 8	5	8	0	•
„ hire of four carpenters for repairing steam boat, at As 12 each	3	0	0	•
„ price of teakwood	1	8	0	•
„ iron and copper nails	0	4	0	•
„ boat-hire for shipping and landing Engineers and lascars and ropes, &c, from 2nd to 21st October 1876, at Rupees 1-4-0 per day (being 17 days)	21	4	0	•
„ cooly-hire for carrying wood from Harbour Works to Pier	0	1	6	•
„ hire for tarring survey launch	0	12	0	•
„ thirty eight lbs pitch	1	14	5	•
„ six dozens screws 1"	0	7	6	•
„ eight coolies for bringing one cwt and one truck from Public Works Stores at Seven Wells, at Annas 2 each	1	0	0	•
„ twenty-six coolies employed for bringing steam boat from Pier to Harbour Stores	6	8	0	•
„ one Syrang for do do do	1	8	0	•
„ cooly for bringing four bags of English coal from Pier to Store	0	3	0	•
„ Survey coolies engaged from 16th to 30th September	66	1	10	•
„ do from 1st to 15th October	96	9	6	•
„ pay of two lascars from 5th to 31st October 1876, at Rupees 20 each per mensem	34	13	5	•
„ survey coolies engaged from 16th to 31st October 1876	79	3	0	•
„ passage, first class, to Calcutta for Mr Falle	105	0	0	•
„ do do of Lieutenant Jarrad	105	0	0	•
„ do (deck) of five servants, at Rupees 34 each with mess	170	0	0	•
„ coolies engaged from 1st to 15th November	55	14	0	•
„ two brass floats for tide gauge, at Rupees 4-8-0	9	0	0	•
„ two lbs shots for do „ at Annas 4 each lb	0	8	0	•
„ two pieces teak plank 16' long, 10" wide, 2" thick, for making a box, at Annas 8 per running foot	8	0	0	•
„ one lead pendulum	1	4	0	•
„ two dozen 3" screws for do, at Annas 3 per dozen	0	6	0	•
„ one dozen 1½" screws for do	0	1	6	•
„ two dozens 2" screws for do, at Annas 2 per dozen	0	4	0	•
„ four glass panes each 13½" x 8" for the doors, at As 3 each	0	12	0	•
„ three brass hinges 3' do, at Annas 2 each	0	6	0	•
„ one and a half dozen brass screws 1" for do, at Annas 3 per dozen	0	4	6	•

Statement of Expenditure on account of Lieutenant Jarrad, &c — (Continued)

	Amount	
To one copper tube 18" long 1" diameter	Rs. 0 12 0	
two do sheets 3" diameter, at Annas 2 each	0 4 0	
a quantity of brass wire	1 8 0	
one brass punkah pulley and stand and 12 feet brass chain	8 0 0	
hire of steam launch for one month	200 0 0	
Total	2321 12 0	

27th November 1876

(Signed)

F N THOROWGOOD
Supt, Madras Harbour Works

No 230.

ORDER THEREON, 25th June 1877, No 296 W

COMMUNICATED to the Superintendent, Madras Harbour Works, who will prepare a revised statement omitting those items which in the opinion of the Government of India are properly chargeable to the works themselves

2 In G O, No 2,361, dated 6th September 1876, it was decided that the honorarium paid to Mr Agar on account of the preliminaries of the survey commenced by him was to be debited to the Harbour Works, and attention was called to that order in General Walker's office letter of the 13th December to the Superintendent of Marine Surveys

(True Extract)

(Signed)

E A FOORD, Colonel, R.E.,
Secretary to Government P.W.D.

To the Superintendent, Madras Harbour Works
" Examiner of Public Works Accounts

Exd C Howarth
Spare Copies

No 89 (Accounts)

From

Staff Commander John Henry Ellis, R.N.,
Deputy Superintendent of Marine Surveys
to the Government of India,

To

The Secretary to the Government of India,
Department of Revenue, Agriculture and Commerce

Calcutta, dated 11th May 1877

Sir,

With reference to the 2nd paragraph of your letter No 170-Surveys dated the 16th March last, I have the honour to inform you that Lieutenant Jarrad and Mr Falle have refunded the amounts paid on their account by the Madras Harbour Works authorities, and the sums refunded were as follows:-

Lieutenant Jarrad Rs 226-4-0
Mr Falle Rs 289-4-0

With regard to the sums for contingent and other expenses on account of the Survey which were borne by the Harbour Fund, I

beg

beg to forward herewith a statement of expenditure incurred by the Harbour Works authorities on account of Lieutenant Garrad while carrying on the survey of Madras Roadstead, furnished to this Office by Government of Madras, and to point out that Lieutenant Garrad informs me that the charges ^{therein} marked * were not incurred by him, nor were they incurred at his request. I do not think, therefore, they should be debited to this Department, and beg that the attention of the Government of Madras may be invited there-
to.

3 I specially beg to invite your attention to the heavy charges for Coole hire which aggregate Rs 297-12-4; to the charge of Rs 200/- paid to Mr Agar for commencing the survey, and the charge of Rs 309-2-9 for teak timber. Lieutenant Garrad informs me that he is at a loss to account for such an expenditure. A Tide gauge which is permanently fixed at Madras has also been charged for. I am of opinion that none of these charges should be

be debited to the Marine Survey Department.

Thacker

sd/John Henry Ellis.

Deputy Supt of Marine Surveys
In charge.

P.W.D.
18 JUN 77
No 5002

Statement of Expenditure incurred on account of Lieut.
Jarrad and Mr. Falle while carrying on Marine Survey
of Madras Roadstead.

	Amount-	
To Mr. Agar	200 . . x	Mr. Agar commenced the survey at the desire of the Government of Madras
-- 2 Metallic Books	3 2 . x	
-- 3 1/2 yards Mounted Drawing Paper	7 14 . x	
-- Hire of cart and coolies for carrying poles for station on North Beach for 4 days.	. 6 . . x	
-- Carriage-hire from Royapooram to Tiruwater for fixing 7 poles alongside the shore North of Royapooram for 3 days @ 1 1/2 Rs. per day	4 8 . x	
-- One Chatty for whitewashing	" 1 . x	
-- Two brushes at 6 Pie each	" 1 . x	
-- Nine days' allowance for assisting in chaining and fixing base line stations on the North and South of Madras Pier @ 8 annas per day	4 8 " "	
-- One cart for carrying Pegs &c for the use of the base line stations South of Madras Pier	1 " . x	
-- Teak timber supplied for making -- Ranging Rods, Pegs poles &c	309 2 9	
-- Cooly hire for stitching 6 large flags	. 12 " "	
	<u>537 . 9</u>	
	Carried over -	

4625 June 77 IB Lt. 229

	Amount.
Brought forward	537 . 9
To 1 Ton of Australian Coal	21 . "
-- 3 Boats' load of water @ 5-1-5	15 4 3
-- 2 " " " of coal @ 2-11--	5 6 .
-- 1 Empty bottle	" . 6
-- 1 Chutty	" . 8
-- 12 Sheets of lead 4'x2' @ --2-6 each	1 14 "
-- Conveying instruments on board &c	2 . "
-- do -- Mr Falle and baggage do	1 8 .
-- do -- Lieutt Jarrad and baggage do	1 4 .
-- Cooly hire for baggage at Madras	" 8 .
-- Chary-hire on duty to Fort, Master Attendant, and Harbor Engineers offices	2 . "
-- Hire of bandy and horse for surveying purposes from 2 nd to 5 th September inclusive @ Rs 2/per diem (4 days)	8 . "
-- One bottle writing Ink	" 8 .
-- Telegram to Calcutta	3 . "
-- do do	2 . "
-- do do	1 . "
-- do do	3 . "
-- do do	4 . "
-- do do	1 . "
-- Repairing Side-watch	10 8 .
-- Lieutt Jarrad's hotel bill for board and lodging	128 4 .
-- Mr Falle's do do	142 4 .
-- Board and lodging of 2 Steersmen and 2 leadsmen	39 8 .
Carried over	930 14 2

	Amount.
Brought forward	930 14 2
To Hire of bandy and horse for survey	42 . "
-- Lieutt Jarrad's hotel bill for lodging &c	98 . "
-- Mr Falle's hotel bill for lodging and board	147 . "
-- Hire of bandy and horse for survey purpose during October	50 . "
-- Board and lodging of 2 Steersmen and 2 leadsmen	32 8 "
-- Carriage allowance for draughtsmen for sighting with theodolite the base line and fixing stations on the South of Madras Pier as far as the Ice house at 8 as per day for 6 days	3 . . . x
-- Wages of Lascar employed on survey Launch on 1 st and 2 nd October 1876 @ Rs 20/per mensem	1 4 8 . x
-- do do of Fireman do from 1 st to 3 rd October 1876 @ do	1 15 . "
-- Cash paid for labour &c for steam Launch on the Pier	5 12 . x
-- Fitter for overtime for 5 days @ Rs 12-6 per day	8 12 . x
-- Fireman to steam Launch for 14 days at 8 as per diem	7 . . x 2 8 . "
-- do Extra time for 5 days	" 12 . x
-- Cooly for sewing one large flag of Red Bunting	" 2 . "
-- Price of half yard white cloth for stitching the edge of the flag	" 2 . "
Carried over	1331 7 10

Amount

Brought Forward - 1331 7 10-

To Conveyance hire for 3 days sighting and fixing Base line stations and right angles north of the Blues Battery at Ans 8/ per day	1 8 " x
Conveyance hire to Imperial Hotel Mount Road and back for receiving instructions from Marine Surveyors	14 " x
Conveyance hire for 11 days in assisting in setting Right-angle flags, Base line stations @ 3/ans	5 8 " x
Hire of 4 Carpenters for repairing Steam Boat at Ans 12- each	3 " " x
Price of Teakwood	1 8 " x
Iron and Copper Nails	4 " "
Boat hire for shipping and landing Engineer and lascars and ropes &c from 22 nd to 24 th Oct ^r /76 @ Rs 14- per day (being 17 days)	21 4 " x
Cooly hire for carrying wood from Harbour Works to Pier	" 1 6 "
Hire for tarring Survey Launch	" 12 "
38 lbs Pitch	1 14 5
6 doz screws 1"	" 7 6
8 Coolies for bringing 1 cwt. & 1 Truck from P.W. Stores at Seven Wells at Ans. 2 each	1 " " x
26 Coolies employed for bringing Steam Boat from Pier to Harbour Stores	6 8 " x
1 Syrang for do. do.	1 8 " x

Carried over 1377 9 3-

Amount

Brought Forward - 1377 9 3

To Cooly for bringing 4 bags of English Coal from Pier to Store	3 " x
Survey Coolies engaged from 16 th to 30 th Sept ^r	66 1 10 x
do from 1 st to 15 th October	96 9 6 x
Pay of 2 lascars from 5 th to 31 st Oct ^r 1876 @ Rs 20/ each per mensem	34 13 5 x
Survey coolies engaged from 16 th to 31 st Oct ^r 1876	79 3 " x
Passage - First class to Calcutta for Mr. Talbot	105 " "
do do of Lieut. Jarrad	105 " "
do (Deck) of 5 servants at Rs 34/ each with Mess	170 " "
Coolies engaged from 1 st to 15 th Nov ^r	55 14 " x
2 Brass floats for tide gauge @ Rs 4-8	9 " " x
2 lbs shots for do @ 4- " ea. lb	" 8 " x
2 pieces Teak plank 16' long, 10" wide 2" thick for making a box @ Ans 3- per running feet	8 " " x
1 Lead Pendulum	1 4 " x
2 doz 3" screws for do @ 3 annas per doz	" 6 " x
1 doz 1 1/4" screws for do	" 1 6 x
2 doz 2" screws for do @ 2 annas per doz	" 4 " x
4 glass panes ea - 13 1/2" x 8" for the doors @ 3 annas each	" 12 "
3 Brass hinges 3" - do @ 2 annas each	" 6 "
1 1/2 doz brass screws 1" for do @ 3 annas per doz	" 4 6

Carried over 2111 4 "

Amount.

Brought forward 2111 4 "

To 1 Copper Tube 18' long $\frac{1}{2}$ " dia. — 12 " x
— 2 — do — sheets 3' dia @ 2 ans ea — 4 " x
— a quantity of brass wire — 1..8 " x
— 1 brass punkah pulley and stand.
and 12 ft. brass chain — 8 " x
— Hire of Steam Launch for one month — 200 " x

Total Rs 2321 12 "

(True Copy)

Sd/- F. N. Thoroughgood
Supt. Madras Harbour Works
November 27-1876

A. Wilson
Registrar,
Department of Revenue,
Agriculture and Commerce.



P.W.D.
18 JUN 77
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625 June 77 SB 229

No 6. 26. 27/76 no 2262
 " 31st " " " 2330
 " 6. 24/76 " 2361
 " 13. " " " 2445
 " 31st Oct/76 " 2922
 " 1st Nov " " "
 " 82. 27. 13. Dec/76 no 8048
 " 10. 10. 177 no 8048
 " 1st July 177 no 315-4316
 " 21st July 177 no 576
 " 2nd March 177 no 706
 " 9. March 177 no 812

P.W.D.
 18 JUN 77
 No 349

From
 The Government of India
 No 349.

dated 12 June 1877
 recd 18 " "

Submitting Statement of
 Cost of Survey of the Madras
 Roadstead with certain charges
 disallowed.

By C 25 June/77 S.B. 229

No 296/W Public Works Department
 Proceedings of the Madras Government

Under date the 25 June/77

Read the following:-

From the Government of India (H.L. No 349 dated 12th June 1877).



Communicated to the
 Superintendent Madras Harbour
 Works, who will prepare a revised
 statement, omitting those items which
 in the opinion of the Government
 of India are properly chargeable
 to the works themselves.

2. In G.O. No 2361 dated 6th
 September, 1876, it was decided that the
 honorarium paid to Mr. Agar on
 account of the preliminaries of the
 survey commenced by him was to
 be debited to the Harbour Works;
 and attention was called to that
 order

order in General Walker's Office
letter of the 13th December to the
Superintendent of Marine Sur-
veys.

547
20/1/77

1877
N^o 82 dt. of 1877

PUBLIC WORKS.

To

Dated

Issued

Recd.

Enc^d

U. O. 25th June 1877, P^o 2762

Nos. 229-230.

Madras Roadsstead

Letter from the Com^r of India
with observations
concerning statement of
expenditure incurred in ac-
com^{pl} of the survey of the
— Command B^o No 10 (p^o)
Madras Harbour. For the
instructions.

Entered in Register

547
20.6.77