

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3147	Press
B.P. No.		Mis.
Dated	5-11	28/4
		195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
5th November 1874.*

Read the following letters :—

No. 86. From R. SMITH, Esq., District Engineer, Nellore, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Nellore, 6th October 1874, No. 61.

Copy of letter, No. 2,267, dated 21st September 1874, from General Superintendent, Public Works Workshops, to District Engineer, Presidency.
Copy of letter, No. 3,896, dated 3rd October 1874, from District Engineer, Presidency, to District Engineer, Nellore.

WITH reference to G. O., No. 2,561, of 9th September 1874, authorizing me to proceed with the construction of the boat sanctioned for the East Coast Canal Range Officer, in G. O., No. 620, dated 9th March 1874, I have the honor to submit, for your consideration, the correspondence marginally noted, and to solicit an additional allotment of Rupees 400 for the boat in question, under the explanation given in paragraph 2 of Colonel Goddard's letter.

No. 87. From Lieutenant-Colonel J. GODDARD, R.E., District Engineer, Presidency, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Fort St. George, 20th October 1874, No. 4,150.

WITH reference to your memorandum No. 791, dated 16th October 1874, I have the honor to submit the original plan, estimate, and specification report, amounting to Rupees 1,400, for a range boat for the Nellore District, with the revision made by me reducing the amount to Rupees 1,000.

- 1 Plan.
- 1 Estimate, etc.
- 1 Specification Report.

No. 88. ORDER THEREON, 5th November 1874, No. 3,147.

CIVIL WORKS, No. 10.

THE original estimate of Rs. 1,400, which appears to have been arbitrarily cut down in the District Engineer's Office without due consideration of the nature of the work, is sanctioned, and the Revenue Department requested to regulate the allotment from Canal Funds accordingly.

(True Extract.)
(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the District Engineer, Nellore.
" Presidency.
" Officiating Controller of Public Works Accounts.
" Revenue Department.

Exd. S. T. Austin.
Spare Copies

Specification to accompany the Plans and Estimate for constructing a First Class Range Boat as used in British Rivers.
 Estimate Supposed to be 1000

The Boat to be overall 44 feet long and 7 feet wide.

The ribs or frames to be well scarfed and made of well seasoned teak wood free from knots and cross grain.

The planking to be built of well seasoned teak to match the ribs and fastened to the ribs by means of spikes and pivots and washers of the best Swedish iron procurable.

The Boat to be boarded over in the interior with 3/4 inch teak planks which are likewise to be fastened to the ribs by means of spikes &c.

The Cabin to be of three distinct compartments, one to be the Cabin or Sitting Room, one a Bath room, and the other for Servants.

The Cabin to be provided with seats and tables.

The

The Bathroom is to be furnished with a washstand and basin, a box or locker for clothes, and a small partition for clothes with copper pan as wanted on the plan.

The servants cabin to have two berths.

The doors and windows are all to be of good cabin work, well painted with three coats of green Verdigris paint as provided for in the Estimate. The inside of the cabin to be finished with two coats of varnish as estimated for.

The detailed dimensions of the boat are to be as figured on the plan.

J. H. Manager
Supt. P.W. Workshop

Published by the Workshop
Calcutta 26th December 1873

Abstract Estimate of a First class Range Boat 44 feet long and 7 feet wide with cabins complete.

Quantities	Description of Work.	Rates			Amount Total		
		Per	Rupies	Annas	Pice	Rupies	Annas
168 Cft.	of Teakwood wrought and put up	Cft.	2	12	46	0	0
54	Square feet of half Pannelled and half Venetianed floor	Sq. feet	1	11	6	48	15
69	Square feet of Venetianed windows		1	8	6	103	8
18	Square feet of battens door		2	13	4	14	12
40	Square feet of battens windows		2	13	2	32	14
13	Square feet of Ventilators		1	8	0	4	8
12	Squares of Caulking	Square	2	0	0	24	0
5	Squares of Tar 2 Coats		2	11	6	3	9
6	Squares of green paint with Verdigris 3 Coats		3	12	0	22	8
225	Squares of white paint 3 Coats		2	3	0	46	14
5	Squares of Varnishing		2	7	0	12	8
300	lbs of Iron work	lbs	0	3	0	56	4
8	Pairs of hinges 3 inches long	Each	0	6	0	3	0
6	Pairs of hinges 4 inches long		0	8	0	3	0
14	lbs of Copper Sheet for pan	lbs	1	0	0	14	0
Cabinets and other minor fittings						130	0
Total Rupies						907	9
Sundry charges at 10 percent						92	7
Total estimate Rupies						1000	0

P.W. Workshop
Calcutta 17 Dec 1873

J. H. Manager
Supt. P.W. Workshop and Stores.

W. 4928 1074 60

Detailed Estimate of the probable expense of
Constructing a First Class Range Boat 41 feet
long and 7 feet wide with cabins complete

Details of Work.

	Number	Length	Breadth	Depth	Contents
Cross and end planks between (Bulkheads)	4	7-0-0	1-6-6	15-2-0	
Front and rear framing for (Bulkheads)	2	30-0-0	0-7-3	10-11-4	6
Joists to top deck	24	6-9-0	1-2-0	2-1/2-14	2-7
Planking on top of joists	1	30-0-7	0-0-1/2	8-9-0	
Ceiling to roof of Cabin	1	12-0-6	9-0-0	7/8	2-6-4
Bottom piece to boat or Plank	1	11-9-0	14-0-9	10-5-3	
Masts	2	0-4-0	4-8-6	1-10-8	
Bottom piece to masts	2	0-8-0	8-0-3	0-2-8	
Planking to front deck	1	9-0-6	0-0-1	4-6-0	
Joists to front deck	4	6-0-0	2-0-3	1-0-0	
Planking to back deck	1	5-10-6	0-0-1	2-11-0	
Joists to back deck	3	6-0-0	2-0-3	0-9-0	
Planking to top of ribs at Centre	1	30-0-10	0-0-0	7/4	18-9-0
Do Do at front	1	9-0-8	6-0-0	7/4	4-9-4
Do Do at back	1	7-9-8	8-0-0	7/4	3-10-6
Planking to bottom of ribs at Centre	1	30-0-10	0-0-1	25-0-0	
Do Do at front	1	9-0-8	6-0-1	6-4-6	
Do Do at back	1	7-9-8	8-0-1	5-1-0	
Posts between windows	2	4-2-2	0-2-0	2-1/2	1-9-8
Posts to rails of front deck	1	12-0-2	0-2-0	6-0-2	2-0
Top piece to railing	2	20-0-0	0-2-0	1-1/2	0-10-0
Side beams to boat	2	48-0-0	4-0-6	16-0-0	
Foot path round the boat	2	30-0-0	9-0-1	3-9-0	
Corbels to Support	3	2-0-9	0-2-0	3-1-0	0
Supports to wash hand Stand	2	2-0-0	0-2-0	2-0-1	4
Top piece to wash hand Stand	1	2-0-1	6-0-1	0-3-0	

Carried over 154-6-4

W. 4928 1074 60
11/10/57
J. M. 6507

Supports to clothes horse on top of hand stand	2 2-0 0-1 0-10-0
Longitudinal piece to the top of hand stand	7 1-6 0-1 0-10-0
Side piece to closet	2 2-0 0-1 1-9-0
Inner piece to carry the copper pan	1 2-0 1-8 0-10-0
Front piece to closet and box	1 7-5 0-1 1-9-1
Cover to	1 7-3 0-0 1-8 0-9-0
Cross piece below windows at ends of boat	1 1-9 0-2 0-11 0-4-8
Do above windows at	1 1-7 0-2 0-3 0-3-2
Rib No 1	0-7-0
Rib No 2	0-9-4
Rib No 3	1-2-11
Ribs at Centre 15 in. number	0 10-11
Rib No 1 A	0-10-4
Rib No 2 A	0-10-7
Rib No 3 A	0-7-2
Rib No 4 A	181-10-8

Total of above work less deductions 187-11-9

Deduct for windows in front and rear	28 1-9 0-0 2-1 6-4-6
Ventilators to Cabin	6 1-0 0-0 0-6 0-2-3
Windows at ends	1 1-0 0-1 1-6 0-6-0
Doors	1 3-0 0-1 6-0 6-0-0
Posts front and rear between windows	2 2-1 0-2 0-0 2-4
Cross pieces below windows	1 7-0 0-1 0-4 0-1-7
Do above windows	1 6-4 0-1 0-3 0-1-7

Total deductions 13-10-11

Doors half Pannelled and half Venetianed	3 3-0 0-6 0-54-0-0
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Windows Venetianed	18 1-9 0-2-1 65-7-6
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Doors battened	2 1-0 0-1-6 3-0-0
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Windows battened	1 3-0 0-6-0 18-0-0
------------------	--------------------

Cabin Ventilator	10 1-9 0-2-1 36-5-6
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Baulking to planking under and top of ribs at Centre	7 1-0 0-1-6 3-0-0
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Do to front	6 1-0 0-0-6 3-0-0
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Do to back	2 30-0 10-0 60-0-0
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Do to front deck	2 9-0 8-6 143-0-0
Do to back deck	2 7-0 8-0 112-0-0
Top of boat	1 9-0 6-0 54-0-0
	1 5-9 6-0 34-6-0
	1 30-0 7-0 210-0-0
Total Square feet	1155-6-0
or squares	11-5-7

Painting the outside or hull of the boat with 2 Coats of Tar at Centre	1 30-0 10-0 300-0-0
Do to front	1 8-6 9-0 76-6-0
Do to back	1 7-9 8-0 62-0-0
Rudder	1 2-6 2-6 6-3-0

Total Square feet 444-9-0
or squares 4-4-4

Painting Cabin outside with green paint	2 7-6 5-10 87-6-0
Do bath room	2 7-6 5-10 87-6-0
Do inside	2 9-0 3-6 63-0-0
Do Servants Cabin outside	2 9-0 3-6 63-0-0
Do inside	4 7-0 3-6 98-0-0
Do Ends of boat outside & inside	2 7-0 3-9 52-6-0
Do front	2 7-0 3-9 52-6-0

Total Square feet 591-6-0
or squares 5-9-1

Painting top of deck with 3 Coats of white paint	1 30-0 7-0 210-0-0
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Total Square feet 210-0-0
or squares 2-10

Varnishing inside of Cabin	2 12-0 5-10 154-0-0
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Do ends of Cabin	2 7-0 5-10 81-8-0
------------------	-------------------

Do Ceiling	1 12-0 7-0 84-0-0
------------	-------------------

Do benches	2 12-0 2-3 54-0-0
------------	-------------------

Do table	1 6-0 3-0 18-0-0
----------	------------------

Do Wash hand stand	1 2-0 3-0 6-0-0
--------------------	-----------------

Do Box and closet	1 7-3 3-9 27-2-3
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Total Square feet 424-10-3
or squares 4-24

Iron work for table (Square iron)	3 2-6 0-1 25-05th
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Support to benches (Square iron)	10 4-10 0-1 0-1 51-23
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Handle to rudder (Square iron)	1 12-0 0-1 0-1 40-08
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Side pieces to ladder	2 4-6 0-2 0-0 20-07
Steps to ladder	6 1-0 0-0 6-85

Carried over 155-28

Public Works Workshops
Chepauk 17th December 1873 }

J. H. Manger
Genl. Suplt. P. W. Workshops & Stores

Andover Mass
 Dec 11 1874
 6587
 P. M. 1874
 The Editor of the
 Commonwealth
 Boston
 Dear Sir
 I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed extension of the Commonwealth's land grant to the State of New York. I am sorry to hear that the grant is not yet accepted. I am sure that the Commonwealth will be glad to accept it. I am, Sir, very respectfully,
 Yours truly,
 J. M. 1874

N^o 4150.
From,

The District Engineer
Presidency.

To,
The Chief Engineer, and
Secretary to Government,
Sd/-
Sir,
With reference to your Memo. No. 791
of 16 October 1874, I have the honor to
submit the original Plan, estimate, and
Specification report amounting to Rs 1400
for a Range boat for the Vellore District,
with the revision made by me reducing the
amount to Rs 1000.

I have the honor to be
Sir,

Your most obedient servant
 Wm Garrison Esq
 Civil Engineer
 Presidency

H. J. Long
Oct. 18/43

L.O.L.

Chennai, 21st September 1874.
No. 133

No. 2267

From, The General Superintendent
P.W. Workshops & Stores.

To, The District Engineer
Presidency.

Sir,

I have this day received an order from the District Engineer of Madras for a first class range boat to be made agreeably to the Estimate of Rs. 1000 as recorded in G.O. No. 620 dated 9th March 1874, and as I believe that the above G.O. has reference to the plan and estimate (amounting to Rs. 1400) forwarded with this Office letter No. 2320 of 17th December 1873 to you, I have the honor to enquire whether any alteration in my plan has been made or if any reduction has been made in the rates.

No. 133

sent.

Chennai, 21st September 1874.

Presidency.

To the Chief Engineer
Presidency.

The District Engineer

No. 4150

Recd 21st Oct. 1874

Submitted to the original

Plan, Estimate, & Spec.

for Report under No. 1400 for a Range Boat for the Madras

Presidency.

G.O. No. 3147 of 17th Dec. 1873

Submitted to the original

Plan, Estimate, & Spec.

Chennai, 21st September 1874.

Submitted to the original
Plan, Estimate, & Spec.

Submitted to the original

Submitted to the original

Submitted to the original

Submitted to the original

Submitted to the original

2. I cannot undertake to build the boat for Rs. 1000 according to the plan made by me, as the workshop when making an estimate has to provide a margin of profit to cover charges General including establishment, and if this means of support is taken away then Government will have to provide funds to meet such losses.

3. In making estimates it has always been my object to keep the amount of estimate as low as possible, as in the majority of cases my estimate has to compete with others and they have either been accepted in full or rejected - in the present instance the work is entirely new to the workshops, as stated in my letter

155
Office
above alluded to, and boat building 74.
is very expensive work as compared with the ordinary run of carpentry done in workshops. I beg therefore, you will apply to Government for sanction of the full amount of my estimate.

I have &c.
Signed / J. B. Granger
General Supt. W. Stores &c. 2561

No. 3896.

To

The District Engineer
Belore.

Sir. In reference to the above I have the honor to recommend to your favorable consideration the considerations embodied therein. 1874, for
2. The estimate was reduced in my Office without making any reference to Mr. Granger from

Rs. 1400 to Rs. 1000 and on this
 explanation I venture to hope
 you will consent to accede to a
 sum of Rs. 1400 being quoted as
 the estimated cost of a boat.

I have etc.
 (Signed) J. Goodrich Smith J. R. E.
 District Engineer
 Presidency

Fort St. George }
 3^d October 1874 }

True copies/

Smith
 District Engineer

W. C.

Enclosed in letter No. 61
dated 6th October 1874 from
the District Engineer
at Yelland.

P. W. 6378/74

1897/5 Nov 4/74
L. B. A. 86.

Copy of letter No. 2267, dated 21st September 1874,
from General Sir J. P. W. Warkeholes, to District
Engineer, Presidency.
Copy of letter No. 3896, dated 23rd October 1874,
from District Engineer, Presidency, to District
Engineer, Calcutta.

No. 61 District Engineer's Office
Calcutta 12th October 1874.

From: R. Smith Esquire.

District Engineer of
Calcutta
Colonel G. W. Walker, R.E.
Secretary to Government.
P. W. Department.
Fort St George.

Sir,

With reference to G.O. No. 2561,
of 9th September 1874, authorizing
me to proceed with the construction
of the Boat, sanctioned for the
East Coast Canal Range Officer,
in G.O. No. 620, dated 9th March 1874,
I have the honor to submit, for
your consideration, the corre-
spondence marginally noted,
and to solicit an additional

allotment, of Rs. 400, for the boat
in question, under the explanation
given in paragraph 2 of Colonel
Goddard's letter.

I have the honor to be
Sir,

Your Obedient Servant,

J. M. S.
District Engineer.

A. M.

Attest
 J. P. 1874
 J. P. 1874
 J. P. 1874

J. P. 1874
 J. P. 1874
 J. P. 1874

appears to have been arbitrarily set
 down in the District Engineer's Office
 without due consideration of the
 nature of the work, in connection
 and the Revenue Department
 requested to regulate the allotment
 from Canal funds accordingly.
 All divided 1871/74 to the District Engineer
 86-88
 89-90

of the original estimate of \$1400 which
 appears to have been arbitrarily set
 down in the District Engineer's Office
 without due consideration of the
 nature of the work, in connection
 and the Revenue Department
 requested to regulate the allotment
 from Canal funds accordingly.
 All divided 1871/74 to the District Engineer
 86-88
 89-90

Revenue Sept 22:
 New bid to regulate
 the allotment from
 Canal Funds

Boat (Boat Canal)
 The original Co:
 estimate of \$1400
 for the construction of a
 boat for the House
 Office in charge the
 Canal Boat Canal
 House in the District City of
 funds of the District Engineer's
 Office

6378/6587
 Coll. of 1874
 PUBLIC WORKS
 The St. Louis
 Police
 5th Sept 1-0-11/49
 Nos. 86-88
 89-90