

Public Works (1896) Department.

G.O., No. 538

DATED 25-6-96.

[Despatch Abstract.]

Boats: The estimate of Rs 11,600 for constructing sixteen — for the use of Subordinates in the Kistna Eastern and Western Dns, sanctioned, and the rent proposed to be charged for their use, approved.



FURTHER PAPERS.

No. 538 I., 25TH JUNE 1896.

GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

Irrigation.  
Account.

READ—the following papers:—

From A. S. RUSSELL, Esq., Officiating Superintending Engineer, II Circle, to  
the Chief Engineer for Irrigation, dated 5th October 1895, No. 1391 K.S.

I have the honour to submit for your orders copy of letter No. 216 S., dated 18th August 1895, and sketch accompanying, from the Executive Engineer, Kistna Western division, bringing to notice the necessity for providing staff boats for two sub-division officers, five upper subordinates and five delta superintendents.

2. The cost of a single boat considered necessary by Mr. Malet according to the sketch supplied by him is, as estimated in the workshops, Rs. 1,620.

3. The total charge will, if Mr. Malet's proposals in paragraphs 5 and 6 of his letter are accepted, therefore be Rs.  $1,620 \times 11 = 17,820$  plus Rs. 1,670, the cost of a second-class staff boat, or say, Rs. 20,000. There are funds available under tools and plant, Kistna delta system, to meet this outlay.

No. II/165 K.S.

With reference to letter No. 1391 K.S., dated 5th October 1895, the undersigned has the honour to point out that the proposal that the Kistna Western division subordinates should be provided with boats cannot be considered by itself, as equally good reasons probably exist for providing boats in other delta divisions.

2. The first thing to be done is to settle the description of boat which shall be adopted, and as the sum involved will probably be considerable, the Superintending Engineer is requested to obtain the opinion of the Superintending Engineer, I Circle, regarding the plan and estimate now submitted. If the Superintending Engineers cannot agree to a plan and estimate which will answer for both deltas, separate plans should be submitted.

3. The scheme for replacing the existing conservancy establishment by permanent upper and lower subordinates will, it is hoped, soon be sanctioned. Boats will, it is presumed, be required for every member of that establishment, and not for temporary men employed on project works.

4. It is presumed that the Superintending Engineer has taken steps to ascertain whether subordinates would like boats and use them continuously.

16th October 1895. (Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,  
Chief Engineer for Irrigation.



No. I/103 G.D.

Copy forwarded to the Superintending Engineer, I Circle, who is requested to report whether boats are required for subordinates in the Gódávári delta.

2. The attention of the Superintending Engineer is drawn to paragraph 2 of this office No. II/165 K.S., dated 16th October 1895, to the Superintending Engineer, II Circle.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,  
16th October 1895. Chief Engineer for Irrigation.

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, II Circle,  
to the Chief Engineer for Irrigation, dated Bezvada, 28th May 1896,  
No. 530 K.S.

In reference to your No. II/165 K.S., dated 16th October 1895, I have the honour to forward a plan and estimate\* for boats required for the use of upper subordinates in this delta.

2. I have received a plan and estimate for a second-class boat from the Superintending Engineer, I Circle, and also from Mr. Malet. The cost of these in the Bezvada shops is as follows, and I see no object in adopting either of these designs:—

|                                                                     | RS.   |
|---------------------------------------------------------------------|-------|
| Cost of a second-class boat as per plan of Superintending Engineer, |       |
| I Circle ... ..                                                     | 1,080 |
| As per Mr. Malet's design ... ..                                    | 1,620 |

3. The conditions in the Gódávári delta and the Kistna are not, in my opinion, sufficiently similar to make it desirable to discuss the question of providing boats for upper subordinates with the Superintending Engineer, I Circle.

In this delta the works will not be completed for ten years or more; in the Gódávári the system is practically complete. From enquiries made I find that upper subordinates are willing to pay rent for boats and use them.

4. As regards rent, I would recommend 7 per cent. of salary up to a maximum of Rs. 15; for considering the cost of labour for towing boats, it is not possible for upper subordinates to pay more.

From W. C. DeMORGAN, Esq., Executive Engineer in charge, I Circle, to the Chief Engineer for Irrigation, dated Waltair, 30th May 1896, No. 417 G.D.

With reference to your No. 103, dated the 16th October 1895, on copy of your memorandum No. II/165 K.S. of the 16th September 1895, I have the honour to report that staff boats are required for use of the subordinates employed in the Gódávári delta. Staff boats of the second class are almost always used by them, and they like these boats as they afford sufficient accommodation and use them continuously, with the exception of a short period in each year during which the canals are closed for repairs. I need hardly remark that a subordinate works more satisfactorily, if he can travel comfortably and rapidly.

2. The existing number (6) of the second-class staff boats is found insufficient to meet all the requirements, and my predecessor proposed, therefore, the construction of three more boats of this class. The estimated cost of a second-class staff boat is Rs. 1,135.

3. A copy of the plan and estimate of the second-class staff boat used in the Gódávári delta was forwarded to the Superintending Engineer, II Circle, and he informs me in his letter No. 506 K., dated the 26th May 1896, that he considers the plan to be unnecessarily expensive. He has not, however, sent me a copy of his design, nor informed me how he would propose to reduce the cost.

As the construction of some staff boats is much wanted in the Gódávári delta, I shall ask the Superintending Engineer, II Circle, to let me know if he has designed a second-class staff boat, and if so, to send me a copy of it so that I may judge whether the design is suitable and whether I may submit estimates for your sanction accordingly.

No. 123 I.

Submitted to Government with a recommendation that the estimate forwarded by the Superintending Engineer, II Circle, be sanctioned.

2. The undersigned concurs in the opinion expressed by the Superintending Engineer as regards the rent proposed to be charged for the use of boats to be constructed. In the Gódávári delta the rent of second-class staff boats hired out to subordinates drawing less than Rs. 200 per mensem, was fixed in G.O. No. 827 I., dated 16th October 1883, at Rs. 12 per mensem, the ordinary rent for these boats being Rs. 16.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,  
11th June 1896. Chief Engineer for Irrigation.

ORDER—No. 538 I., dated 25th June 1896.

The following estimate is sanctioned from the balance of the amount reserved for tools and plant required for the Kistna delta system, which will then be reduced to Rs. 33,404:—

Capital Expenditure not charged to Revenue.

49. Irrigation.

Kistna Delta System.

3. Tools and Plant.

4. Navigation Plant.

Constructing sixteen boats for the use of subordinates in the Kistna Eastern and Western divisions.

|                 |        |
|-----------------|--------|
| Estimate ... .. | RS.    |
| ...             | 11,600 |

2. This sanction is registered as No. 75 I. of 1896-97.

3. The rent proposed to be charged by the Superintending Engineer, II Circle, for the use of the boats by subordinates is approved.

4. The submission of the estimates for the second-class boats required for subordinates in the Gódávári delta system, is awaited.

(True Extract.)

Under Secy. to Govt., P.W.D.,  
Irrigation Branch.

To the Chief Engineer for Irrigation.

" Superintending Engineer, I Circle.

" " " " with three enclosures.

" Examiner, Public Works Accounts.

Exd. T. K. Narayana Aiyangar.  
Spare Copies



IRRIGATION.  
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated June, 25th.

Recd.

Encl.

G.O. No. 538 I., 25th June 1896.

JUNE.

Boats

The estimate of Rs. 11,600 for constructing sixteen — for the use of subordinates in the Kistna Eastern and Western divisions, sanctioned; and the rent proposed to be charged for their use, approved.

No 538 I, d 25 June 1896

PUBLIC WORKS DEPARTMENT,  
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

Read the following

|      |                                 |                         |
|------|---------------------------------|-------------------------|
| From | Supp Engr, II Cutch,            | No 1391 Rs. & 5. 10. 95 |
| To   | do.                             | 165 Rs. & 16. 10. 95    |
| From | Supp Engr I <sup>st</sup> Cutch | 103 Rs. & 16. 10. 95    |
| To   | do. II Cutch                    | 538 Rs. & 28. 5. 96     |
| From | do. I <sup>st</sup> Cutch       | 417 Rs. & 30. 5. 96     |

Submitted to

Govt with a recommendation that the estimate forwarded by the Supp. Engr, II Cutch, be sanctioned.

2. The undersigned concurs in the opinion expressed by the Supp. Engr as regards the rent proposed to be charged for the use of boats to be constructed. Say the

Sanctioned

9.54

16.6.96



Godavari delta the rent  
of 2<sup>nd</sup> class staff boats  
hired out to subordinates  
drawing less than  
Rs 200 per mensem  
was fixed in G.O.  
No 827. J., 27 16<sup>th</sup> Oct/83,  
at Rs 12 per mensem,  
the ordinary rent for  
these boats being  
Rs 16.

Order thereon

The following  
estimate is sanc-  
tioned from the  
balance of the  
amount reserved  
for tools & plant  
required for the  
Kistna Delta System,  
which will then be  
reduced to Rs 33,404

Entered before

Rs 104534

Capital Expenditure not  
charged to Rev.

49. Irrigation.

Kistna Delta System

3. Tools & Plant

4. Navigation Plant.

Constructing fifteen boats  
for the use of subordinates  
in the Kistna Eastern  
& Western Dcs

Estimate Rs 11,000

2. This sanction is  
registered as No 75  
J of 1896-97.

3. The rent proposed  
to be charged by the  
Supp. Engr, D. C. Engr, for  
the use of the boats  
by subordinates is  
approved.

4. The submission  
of the estimates  
for the 2<sup>nd</sup> class  
boats required for  
subordinates in the  
Godavari Delta



System, is awaited.

10/6

Amex 11/6 96

P.W. CURRENT No. 5652  
Estimate for boats  
required for subordinates  
in the Kishu Delta  
System - Encls 8 (16 Jan)  
Dec: 23.6.96

Issue

Amex 17/6

16.10.83. 8275  
4.4.87. 2539

DECEMBER 13 1893

8/3/7

To The Chief Insp. for S.  
Supp Eng 1<sup>st</sup> class  
D. 2<sup>nd</sup> class with 3 Encls.  
E. S. W. 2.

10/6  
13/7

16/6

7.5.96  
10/6  
Registered  
26/6

Amex

Letter from the Executive Engineer, Kishu  
Western Division, to the Superintending  
Engineer, 2<sup>nd</sup> (Civil), S. 216.5, dated 19<sup>th</sup>  
August 95.

I have the honour to bring to  
your notice that most of my Sub-  
ordinates are greatly inconvenienced  
for want of proper boat accommoda-  
tion. At present the only Subordinate  
provided with a boat is Supervisor  
S. Panchapakasa Esq. All the other  
Subordinates who require boats for  
their work have to provide them-  
selves with boats and the only boats  
they can obtain are small country  
navas of about 2 or 3 tons each, over  
which they place a light covering  
with open ends.

2. This accommodation is quite  
insufficient, and as the Subordi-  
nates have valuable Govern-  
ment property in their charge, and  
as their health should be a matter  
of serious consideration to Govern-  
ment, I consider it is necessary  
that they should be provided with  
suitable



Suitable accommodation to protect themselves and the Government property in their charge.

3. I enclose a pencil sketch of the least accommodation I consider necessary.

4. I think a double roof is necessary as it costs but little, comparatively, to put on, and affords much better protection and more space for storing sundry articles. It must be difficult to keep a single roof watertight. A mast and sail should also be provided.

5. The number of boats required in this Division is as follows.

#### Upper Subordinates

|                                                     |   |
|-----------------------------------------------------|---|
| In charge of main and upper part of Bank Canals ——— | 1 |
| do — Lower portion of Bank Canal —                  | 1 |
| do — Vizampatam Canal —                             | 1 |
| do — Commamur Canal upper portion —                 | 1 |
| do — do — Lower —                                   | 1 |

#### Delta Superintendents

|                                                     |   |
|-----------------------------------------------------|---|
| In charge of upper & lower portions, Bank Canal ——— | 2 |
| do Main canal and East & West side channels ———     | 2 |
| do Lower portion Commamur Canal ———                 | 1 |

10

6. In addition to these I require two boats. One for River Conservancy Sub Division officer and one for Project Sub Division officer. At least one of these should be an ordinary second class boat. The other may be as per sketch, or with slightly increased dimensions, as the Sub Division is not likely to last more than five years.

(True Copy)

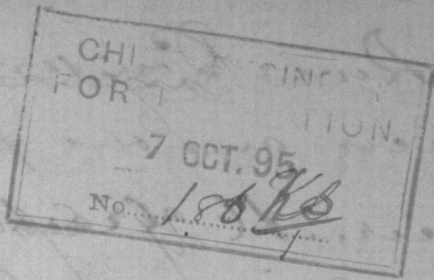
A Russell.

Offy Suptg Engrs.

M. S. S.

1/10  
95.





draw

7/1

No. 1391/KS

18  
Superintending Engineer's Office,  
Madras

II CIRCLE,

Dated 27<sup>th</sup> Sept. 1895.

Despatch 5 October 1895

From,

A. S. Russell Esquire,  
Offg. Superintending Engineer,  
II Circle.

To,

The Chief Engineer,  
For Irrigation,  
Madras.

Sir

I have the honour to submit for your orders  
Copy of letter No. 216 S. dated 19<sup>th</sup> August 1895, and sketch  
accompanying, from the Exec Eng. Kistna Western Division  
bringing to notice the necessity for providing staff boats  
for 2 Sub Div. officers, 5 Upper subordinates, & 5 Delta  
Superintendents.

2. The cost of a single boat considered necessary  
by Mr. Kalit, according to the sketch supplied by him,  
is, as estimated in the Workshops, Rs 1,620.

3. The total charge will, if Mr. Kalit's proposals in  
paras 5 & 6 of his letter are accepted, therefore be  
Rs 1,620 x 11 = 17,820 plus Rs 1,670. The cost of a second  
class staff boat, or Rs say 20,000. There are funds  
available under Tools & Plant, Kistna Delta Systems,  
to meet this outlay.

I have the honour to be,

Sir,

Your most obedient servant,

A. Russell.

Offg. Superintending Engineer,  
II Circle.

Encl 2.

1 Copy of Exec  
letter  
1 Sketch

2

5689/96  
27/9/95



From  
The Supg Engineer  
Second Circle  
To The Chief Engineer  
For Irrigation

Dated 5 October 1895

Enclos 2.

No 139/KS

Staff boats - Briggs  
to notice the necessity  
for providing - to Subor  
Depts of NW. D. &  
informs that funds are  
available if the proposal  
meets the E's approval

From,  
The Superintending Engineer,  
II Circle.  
To,  
The

Dated  
Received

Enclosures.

NO.

SUBJECT.

drawn to para 2 of this  
office no 165/88 16-10-95 to the 22  
2nd circle & the 1st circle

WR  
15/10  
Ruey  
Wye

Despd 18-10-95

cannot agree to a plan &  
estimate which will answer  
for both deltas separate plans  
should be submitted for the

No 165/KS. 22  
Letter 22 2nd circle

In reference to letter No 139/KS  
dated 5/10/95 the undersigned  
has the honour to point out  
that the proposal that  
the Eastern Western &  
Subordinates should be  
provided with boats cannot  
be considered by itself as  
equally <sup>good</sup> reasons  
for providing boats  
probably exist in other  
delta divisions. My all  
(2) The first thing to be done  
is to settle the description  
of boat which shall be adopted  
& as the sum involved will  
probably be considerable  
the 22 is requested to  
obtain the opinion of the 22 1st  
draw up a plan and  
circle regarding the plan and  
estimate ~~communication~~  
now submitted. If the 22's  
with the 22 1st settle



(3) The scheme for ~~providing~~  
 replacing the ~~existing~~  
 conservancy establishment  
 by permanent upper &  
 lower subordinates will, it  
 is hoped soon be sanctioned.  
 Boats will it is presumed  
 be required for every  
 member of that establish-  
 ment & not for temporary men  
 employed on project works.

(4) It is presumed that  
 the SR has <sup>taken steps to ascertain</sup>  
~~that every~~ subordinate would  
 like & boats & use ~~in~~ them  
 continuously.

30. Wh By  
15/10

Mr. I. 103. C. 8 of 16/10/96  
 Copy forwarded to the SR 120.  
 Circle who is requested to  
 report whether boats are  
 required for subordinates  
 in the Godavari delta.  
 (4) The attention of the SR is

Proc-5  
 5692/96

No 530 K.

Office of the Supg Engineer  
 2nd Circle, Bezwada  
 28<sup>th</sup> May 1896.

From

Majr W. B. Baddeley D. C.  
 Supg Engineer,  
 2nd Circle.

To

The Chief Engineer,  
 For Irrigation,  
 Madras.

Sir,

In reference to your  
 No. II/165 K.S. of 16<sup>th</sup> Oct 1895,  
 I have the honour to forward a plan  
 & estimate for boats required for the  
 use of upper Subordinates in this Delta.  
 2. I have received a plan and  
 estimate for a 2<sup>nd</sup> Class boat from  
 the Supg Engineer, First Circle, and  
 also from Mr. Malet. The cost of these  
 in the Bezwada Shops is as follows,  
 and I see no object in adopting either  
 of these designs.

Cost of a 2<sup>nd</sup> Class boat as per  
 plan of 1<sup>st</sup> Circle — Rs 1080

As per Mr. Malet's design — Rs 1620

2. The conditions in the Godavari  
 Delta

Each boat  
 Rs 725

Encls. 2  
 1 Plan  
 1 Estimate  
2



Delta and the Krishna are not in my opinion sufficiently similar to make it desirable to discuss the question of providing boats for upper Subordinates with the Supg Engineer 1<sup>st</sup> Circle.

In this delta the works will not be completed for ten years or more, in the Godavary the system is practically complete. From enquiries made I find that upper Subordinates are willing to pay rent for boats and use them.

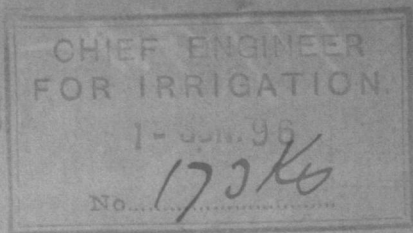
3. As regards rent I would recommend 7 per Cent of Salary up to a maximum of Rs 15/-; for considering the cost of labour for towing boats it is not possible for upper Subordinates to pay more.

I have the honour to be  
Sir,  
Your most Obedt Servant,

W. B. S. S. S. Major CB  
Supg Engrs 2<sup>nd</sup> Circle.

205  
27-96





From

The Supt Engineer  
Second Circle

To The Chief Engineer  
For Irrigation

Dated 28<sup>th</sup> May 1896

Circle 2

No. 530K

Q.S. 2  
5692/96

Staff boats for use of  
Upper Subordinates in  
Kistna Delta —

Forwards with remarks a  
plan & estimate for Rs 11600  
for constructing —

No. 417 GA

50.

FROM

W.C. De Magalhães  
SUPERINTENDING ENGINEER  
Eggenwies

FIRST CIRCLE.

TO

THE CHIEF ENGINEER For Irrigation  
Madras  
PUBLIC WORKS DEPARTMENT.

Enclosures

DOWLAISHWERAM, 30. May 1896.  
Waltair  
Sps 1-6-96

SIR,

With reference to your No. 103  
dated the 16<sup>th</sup> Oct 95 a copy  
of your memorandum No.  
II of the 16<sup>th</sup> September 1895  
165 K.S. I have the honour to report  
that staff boats are required  
for use of the Subordinates  
employed in the Godavari  
Delta. Staff boats of the  
2<sup>nd</sup> Class are almost al-  
-ways used by them and  
they like these boats as  
they afford sufficient ac-  
-commodation and use  
them continuously with the  
exception of a short period  
in each year during which  
the



the canals are closed for repairs  
I need hardly remark that  
a subordinate works more  
satisfactorily, if he can travel  
comfortably and rapidly.

2. The existing number  
(6) of the 2<sup>nd</sup> Class staff  
boats is found insufficient  
to meet all the requirements  
and my predecessor pro-  
posed therefore the construc-  
tion of 3 more boats of this  
class. The Estimated Cost  
of a second class staff  
boat is Rs 1135.

3. A Copy of the plan and  
estimate of the 2<sup>nd</sup> Class  
staff boat used in the  
Godavari Delta was  
forwarded to the Supg/  
Engineer 2<sup>nd</sup> Circle and he  
informs me in his letter  
No: 506 K dated the 26 May 96  
that he considers the plan  
to be unnecessarily expensive.  
He has not however sent  
me a copy of his design,  
nor informed me how he  
would propose to reduce  
the cost.

cts

68  
to the construction of some  
staff boats is much wanted  
in the Godavari Delta  
I shall ask the Supg Eng<sup>r</sup>  
2<sup>nd</sup> Circle to let me know  
if he has designed a 2<sup>nd</sup>  
Class staff boat and if  
so to send me a copy of  
it so that I may judge  
whether the design is suitable  
and whether I may sub-  
mit estimates for your  
sanction accordingly.

Have the honor Sir,  
Yours most obedt &  
servt  
B. V. Norgaonkar  
30/5

Free Engineer in ch. B. Norgaonkar

B. N.  
30/5



CHIEF ENGINEER  
FOR IRRIGATION.

4 - JUN. 96

No. 98 GD

S. E. I.  
6 300-4-4-95

FROM

SUPERINTENDING ENGINEER

FIRST CIRCLE,

TO

THE CHIEF ENGINEER *for Imp.*

*Madras.*

PUBLIC WORKS DEPARTMENT.

DATED 30 } *May*  
DESPATCHED 18 } *June* 1896  
RECEIVED

No. 417 GD.

ENCLOSURES

SUBJECT.

*Staff boats - reports that  
- are required for use of  
the subordinate employees  
in the Godavari Delta.*

*Pres.  
5652/20*