8738

Public Works (1896) Department.

G.O., No. 861.I

DATED 23" October 1896

[Despatch Abstract.]

Floating Plant: The estimate of the cost of upkeep of the [illegible] of the Godavari Delta System, approved and Rs 17,407 ordered to be provided on this account in the budget estimates for 1897-98.

[P. W. 26. / 500—13-8-96.] 1.C 23/10 25/10

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government {1896} of Madras.

PUBLIC WORKS.

Recd. } 1896. *Enclosures*
Regd. } *Spare copies*

G.O., No. 861 I., 23rd October 1896.

OCTOBER.

Floating Plant

The estimate of the cost of upkeep of the — of the Gódávari delta system, approved, and Rs. 17,407 ordered to be provided on this account in the budget estimates for 1897–98.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following paper:—

From J. C. LARMINIE, Esq., M.I.C.E., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Surada, 9th September 1896, No. 1159 G.D.

I have the honour to submit, herewith, the annual statements, Parts I and II, together with the abstract for the Irrigation and Navigation floating plant for the ensuing official year 1897–98.

2. The probable cost of maintenance of floating plant for 1897–98 is estimated at Rs. 17,407, exclusive of the cost of upkeep of ferry ballacuts on different canals. The required funds will be applied for in the budget.

Enclosures.

RETURN No. 27.

Statement of the Irrigation Floating Plant in the Gódávari district showing the estimated cost of upkeep during the year 1897–98.

Part I.—Steamers and Steam Dredgers.

Registered number.	Details of plant.		Value of plant.		Probable cost of upkeep in 1897–98.	Remarks.
	Description.	Names of steamers, &c.	Original.	Present book value.		
1	2	3	4	5	6	7
		Irrigation.	RS.	RS.	RS.	
	Steamer ..	"Shamrock"	20,014	6,111	860	Under repairs.
		"Arthur Cotton"	9,535	5,828	430	In working order.
	Steam Tug ..	"Victoria"	50,956	15,054	910	
		"John Mullins"	31,054	15,210	920	
		Total ..	1,11,559	42,203	3,120	
1	....	Canal iron dredger, double bucket ladder, side delivery.	26,373	1,705	..	Being converted into a flat as per G.O., No. 974 I. of 15th November 1895, therefore probable cost of upkeep is not given.
2	....	Canal iron dredger, single bucket ladder, end delivery.	15,395	1,117	460	
3	Dredger ..	Canal iron dredger, single bucket ladder, side delivery.	30,437	3,982	460	In working order.
4	....	Do. do. ..	30,437	4,434	460	
5	....	Do. do. ..	30,437	2,793	460	
6	....	Do. do. ..	31,097	3,963	460	
7	....	Priestman's size B ..	16,580	3,371	460	
8	....	Do. " A-1 ..	13,438	4,310	460	
9	....	Do. " A-2 ..	16,120	8,415	460	
		Total ..	2,10,314	34,090	3,680	
		Grand Total ..	..	..	6,800	

Rules for finding present book value.

(1) Steamers to be reduced 10 per cent. every year, and the amount of special repairs, if any, must be added thereto.

(2) Steam dredgers to be reduced 15 per cent. every year, and the amount of special repairs, if any, must be added thereto.

RETURN No. 27.

Statement of the Irrigation Floating Plant in the Gódávari district showing the estimated cost of upkeep during the year 1897–98.

Part II.—Barges, Boats and Punts.

Registered number.	Description of boats.	Value of plant.		Probable cost of upkeep in 1897–98.	Remarks.
		Original.	Present book value.		
	Irrigation.	RS.	RS.	RS.	
1	Iron flat	6,243	1,515	140	In good working order, lately repaired.
3	Canal iron punt	2,811	1,253	120	
5	Do.	2,812	1,381	120	
7	Do.	2,812	1,515	120	In working order.
10	Do.	2,812	1,039	120	Now working at Dumagudem.
11	Do.	2,812	1,136	120	
13	Iron dredge punt	2,310	1,173	75	In good working order, lately repaired.
15	Canal iron punt	2,812	906	120	In working order.
17	Do.	2,812	1,662	120	
18	Iron dredge punt	2,310	677	75	In good working order, lately repaired.
20	Canal iron punt	2,812	1,021	120	Under repairs.
21	Iron dredge punt	2,310	1,558	75	In good working order, lately repaired.
22	Do.	2,310	868	75	
25	Canal iron punt	2,811	1,045	120	In working order.
27	Do.	2,811	1,118	120	
30	Do.	2,811	1,298	120	In good working order, lately repaired.
31	Do.	2,811	1,188	120	In working order.
34	Iron flat	4,693	1,681	130	
36	Canal iron punt	2,812	823	120	
37	Do.	2,812	1,262	120	
38	Do.	2,812	1,110	120	
39	Do.	2,812	721	120	
40	Iron deep boat	4,693	2,091	190	
44	Wooden deep boat	2,330	2,048	170	Under repairs.
47	Do.	2,000	2,448	170	In working order.
48	Do.	2,000	2,642	170	In good working order, lately repaired.
49	Do.	2,000	2,644	170	
50	Do.	2,117	2,045	170	
65	Iron light boat	1,000	676	70	In working order.
66	Do.	1,000	1,110	70	
67	Do.	1,000	750	70	
68	Do.	1,000	688	70	Sunk at bund near Kovoor. It is doubtful if ever this is recovered. Permission to write the boat off the return has been applied for.
69	Do.	1,000	713	70	Under repairs.
70	Do.	1,000	656	70	In good working order, lately repaired.
71	Do.	1,433	689	70	Under repairs.
72	Do.	1,433	639	70	In working order.
74	Do.	1,000	656	70	
75	Do.	1,000	624	70	
77	Wooden light boat	750	446	75	
81	Iron flat	7,375	1,649	140	
82	Wooden flat	2,722	1,778	150	
83	Do.	2,722	2,029	150	
84	Do.	2,722	1,827	150	In good working order, lately repaired.
85	Do.	2,722	1,826	150	In working order.
86	Do.	2,722	2,167	150	
87	Do.	2,722	1,563	150	
88	Do.	2,800	1,736	150	Under repairs.
89	Do.	2,800	2,239	150	In good working order, lately repaired.
90	Do.	2,800	1,557	150	In working order.
91	Do.	2,800	2,325	150	
92	Do.	2,800	1,584	150	
93	Do.	2,800	1,566	150	
94	Do.	2,405	1,966	130	In good working order, lately repaired.
95	Do.	2,405	1,799	130	
99	Do.	2,405	1,927	130	....
100	Iron double trap punt ..	4,185	1,043	110	In working order.
101	Do. do.	4,185	1,208	110	
104	Do. do.	4,060	1,309	110	
105	Iron punt	6,960	2,709	140	
12	Second-class staff boat ..	820	..	150	
13	Do. do.	820	..	150	
14	First-class staff boat ..	1,400	..	230	
15	Second-class staff boat ..	800	..	150	
16	First-class do. ..	1,250	..	230	
17	Second-class do. ..	850	..	150	
18	First-class do. ..	1,400	..	230	

Statement of the Irrigation Floating Plant in the Gódávari district, &c.—*cont.*

Part II.—Barges, Boats and Punts—cont.

Registered number.	Description of boats.	Value of plant.		Probable cost of upkeep in 1897–98.	Remarks.
		Original.	Present book value.		
	Irrigation—cont.	RS.	RS.	RS.	
19	Second-class staff boat ..	850	..	150	In working order.
20	First-class do. ..	1,400	..	230	
21	Second-class do. ..	840	..	150	
22	First-class do. ..	1,783	746	230	
23	Do. do. ..	1,780	1,188	230	
	Total ..	1,73,024	85,256	9,385	
A	Upper Gódávari barge ..	3,500	4,347	340	In working order.
D	Do. do. ..	3,500	3,500	340	
E	Do. do. ..	3,500	4,083	340	
	Total ..	10,500	11,930	1,020	
2	Jolly boat	165	171	20	In good working order, lately repaired.
3	Do.	340	289	16	
4	Do.	165	156	20	
5	Do.	Unknown.	..	16	In working order.
6	Survey nava	300	171	35	Under repairs.
7	Do.	300	132	35	In working order.
8	Jolly boat of steam tug "John Mullins."	Unknown.	..	60	
	Total ..	1,270	919	202	
	Grand Total ..	1,84,794	98,105	10,607	

Rules for finding present book value.

(1) Boats and barges to be reduced 10 per cent. every year, and the amount of special repairs, if any, must be added thereto.

(2) Staff boats to be reduced by one-twelfth of their original cost for each year of their life.

DETAILED approximate estimate of the annual maintenance of the Irrigation Floating Plant, Gódávari district.

Particulars.	Steamer "Shamrock."	Steamer "Victoria."	Steam launch "Arthur Cotton."	Steam-tug "John Mullins."	Canal dredges.	Barges.	Canal punts.	Dredge punts 30 feet long.	Wooden light boats.	Iron light boats.	Wooden flats 74 feet long.	Staff boats, first-class.	Staff boats, second-class.	Iron deep boats.	Iron flats Nos. 1 and 81 and iron punt No. 105.	Jolly boat No. 8.	Double trap punts.	Wooden flats 60 feet 3 inches long.	Iron flat 60½ feet long.	Wooden deep boats.	Jolly boats Nos. 2 and 4.	Jolly boats Nos. 3 and 5.	Survey navas.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Docking and launching	50	50	50	50	50	25	12	10	10	10	15	10	10	30	15	5	12	15	12	25	..	..	5
Painting	500	500	195	550	120	150	31	20	..	20	..	110	65	63	45	30	30	..	35	..	8	..	..
Caulking	70	44	18	80	50	30	36	20	40	10	110	40	33	20	36	18	30	90	40	99	8	12	24
Varnishing	..	20	..	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..	..
Tarring	..	..	..	..	50	50	20	10	..	10	..	..	..	27	19	..	20	..	20	..	..	..	..
Ropes, &c.	30	30	30	30	30	58	11	10	20	10	14	10	12	37	14	2	10	14	15	34	4	4	6
Lascars	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Small stores	..	..	..	..	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
General charges	60	66	37	60	28	27	10	5	5	10	11	20	10	13	11	5	8	11	8	12	..	..	..
Sundry repairs	150	200	100	150	100	..	..	..	..	..	..	30	20	..	..	..	..	..	..	..	..	..	..
Total ..	860	910	430	920	460	340	120	75	75	70	150	230	150	190	140	60	110	130	130	170	20	16	35

(Signed) W. JONES,
Boat Superintendent.

(Signed) R. S. PATERSON,
Assistant Engineer.

(Signed) A. G. ROMILLY,
Ex. Engr., Gódávari Eastern Division.

5th August 1896.

ABSTRACT showing the comparison of details between the estimated maintenance cost of Floating Plant in Gódávari district for 1896–97 and 1897–98.

—	Number.		Original value.		Book value.		Cost of upkeep.	
	1897–98.	1896–97.	1897–98.	1896–97.	1897–98.	1896–97.	1897–98.	1896–97.
			RS.	RS.	RS.	RS.	RS.	RS.
Steamers	4	4	1,11,559	1,11,559	42,203	45,753	3,120	3,120
Dredgers	9	9	2,10,314	2,10,314	34,090	39,602	3,680	4,140
Barges A, D and E from Upper Gódávari Works	3	3	10,500	10,500	11,930	13,253	1,020	1,020
Iron flats Nos. 1,34 and 81 ..	3	3	18,311	18,311	4,845	5,382	410	410
Iron punts Nos. 3, 5, 7, 10, 11, 15, 17, 20, 25, 27, 30, 31, 36, 37, 38, 39 and 105 ..	17	17	51,947	51,947	21,187	23,306	2,060	2,060
Iron dredge punts Nos. 13, 18, 21 and 22	4	4	9,240	9,240	4,276	3,154	300	300
Iron double trap punts Nos. 100, 101 and 104	3	3	12,430	12,430	3,560	3,954	330	330
Iron deep boat No. 40 ..	1	1	4,693	4,693	2,091	2,323	190	190
Iron light boat Nos. 65 to 72, 74 and 75	10	10	10,866	10,866	7,201	7,897	700	700
Wooded deep boats Nos. 44, 47 to 50	5	5	10,447	10,447	11,827	11,991	850	850
Wooden light boat No. 77 ..	1	1	750	750	446	495	75	75
Wooded flats Nos. 82 to 95 and 99	15	15	40,347	40,347	27,889	29,992	2,190	2,190
Staff boats, first-class, Nos. 14, 16, 18, 20, 22 and 23 ..	6	6	9,013	9,013	1,934	2,230	1,380	1,380
Staff boats, second-class, Nos. 12, 13, 15, 17, 19 and 21 ..	6	6	4,980	4,980	..	..	900	900
Jolly boats and Survey navas Nos. 2 to 8	7	7	1,270	1,270	919	902	202	202
Total ..	94	94	5,06,667	5,06,667	1,74,398	1,99,234	17,407	17,867

DOWLAISHWERAM,
29th August 1896.

(Signed) A. G. ROMILLY,
Ex. Engr., Gódávari Eastern Division.

ORDER—No. 861 I., dated 23rd October 1896.

The estimate of the cost of upkeep of the floating plant of the Gódávari delta system is approved; Rs. 17,407 will be provided on this account in the budget estimates for "Major Works" for 1897–98.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, I Circle.
„ Examiner, Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

A

No. 861. I. d/ 23rd october 1896.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

12

READ the following

From Supdg Engr, 1st Circle, No. 1159 G.D. d/ 9.9.96

The estimate of the cost of upkeep of the floating plant of the Godavari Delta system is approved; Rs 17,407 will be provided on this account in the budget estimates for "Major Works" for 1897-98.

Issue

W.H.

17/9/96

22/9/96

20.10.96

11.10.96

To the Chief Engr for I.
Supdg Engr 1st Circle
Ex P.W.A.

d/ 11/9/96

17/9

Irrigation
Accounts

No 8861 I 23 Oct 96

No. 1159 G.I.

18

FROM

J. C. Larminie Esqr. M.I.C.E.
SUPERINTENDING ENGINEER,

FIRST CIRCLE.

Enclosures. 3. TO

THE CHIEF ENGINEER
FOR IRRIGATION.

~~WALTAIR,~~ [illegible] 9 Sepr. 1896.

SIR,

I have the honour to submit herewith the annual Statements Parts I and II together with the abstract for the Irrigation and Navigation floating plant for the ensuing official year 1897-98.

2. The probable cost of maintenance of floating plant for 1897-98 is estimated at Rs 17407 exclusive of the cost of upkeep of ferry ballacuts on different Canals. The required funds will be applied for in the Budget.

I have the honor to be,
Sir,
Your Most obedt St.

J. C. Larminie
Supg Engineer 1st Circle

GL
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entd
8/9

E. I. Form No 1—1,000—27-11-96.

S. E. I. / 1 500—29-2-96.

FROM J. C. Larminie Esq
SUPERINTENDING ENGINEER,
FIRST CIRCLE.

TO

THE CHIEF ENGINEER
FOR IRRIGATION.

CHIEF ENGINEER
FOR IRRIGATION.
15 SEP 96
No. 1815

DATED 9
DESPATCHED 12 } September 1896.
RECEIVED

No. 1159 (E.D.)

ENCLOSURES. 3

SUBJECT.

Floating plant for 1897-98— Submits the annual statements for the Irrigation & Navigation—

7.E.9

BR
19.96

HEAD WORKS
Genl. No. 927
7 AUG. 96
SUB-DIVISION

EASTERN DIVISION
Genl. No.
15 AUG. 96
GODAVARI

SUPERINTENDING ENGINEER
No. 2/862 C.S./96
3 SEP. 96
FIRST CIRCLE

Return No 27.

Statement of the Irrigation floating plant in the Godavary District
showing the estimated cost of upkeep during the year 1897–98

Part I Steamers and steam dredgers.

Register No	Details of plant		Value of plant		probable cost of upkeep in 1897–98	Remarks.
	Description	Names of steamers &c	Original	Present book Value		
1	2	3	4	5	6	7
		Irrigation.	Rs	Rs	Rs	
	Steamer	"Shamrock"	20,014	6111	860	Under repairs
		"Arthur Cotton"	9,535	5828 ~~5466~~	430	In working order
		"Victoria"	50,956	15054	910	
	Steam Tug	"John Mullins"	31,054	15210	920	
		Total	111559	42203	3120	
1		Canal iron dredger, double bucket ladder side delivery	26,373	1705	"	Being converted into a flat as per G.O. No 974 I of 15th November 95 therefore probable cost of upkeep is not given.
2		Canal iron dredger, single bucket ladder end delivery	15,395	1117	460	
3	Dredger	Canal iron dredger, single bucket ladder, side delivery	30,437	3982	460	In working order
4		Do Do	30,437	4434	460	
5		Do Do	30437	2793	460	
6		Do Do	31,097	3963	460	
7		Priestman's size B	16,580	3.371	460	
8		Do " A.1	13,438	4310	460	
9		Do " A.2	16,120	8415	460	
		Total	210314	34090	3,680	
		Grand Total			6,800	

Rules for finding present book Value.

(1) Steamers to be reduced 10 per cent every year, and the amount of special repairs, if any, must be added thereto.

(2) Steam dredgers to be reduced 15 per cent every year, and the amount of special repairs, if any must be added thereto.

5th August 1896

Wm Jones
Boat Superintendent.

Executive Engineer
Godavari Eastern Dn

2/8 31/8

10/9

HEAD WORKS
Genl. No. 824
7 AUG. 96
SUB-DIVISION.

EASTERN DIVISION,
Genl. No. 252
15 AUG. 96
GODAVARI.

Return No. 27.

Statement of the Irrigation Floating Plant in the Godavery District showing the estimated cost of up-keep during the year 1897-98.

Part II. Barges, Boats and Punts.

Registered No	Description of Boats	Value of plant Original	Value of plant Present Book value	Probable cost of up-keep in 1897-98	Remarks
		Rs.	Rs.	Rs.	
	C.O.	107460	54798	4895	
85	Wooden flat	2722	1826. ✓	150	
86	do	2722	2167 ✓	150	In working order.
87	do	2722	1563 ✓	150	
88	do	2800	1736 ✓	150	Under repairs.
89	do	2800	2239 ✓	150	In good working order, lately repaired.
90	do	2800	1557 ✓	150	
91	do	2800	2325 ✓	150	In working order.
92	do	2800	1584 ✓	150	
93	do	2,800	1566 ✓	150	
94	do	2405	1966 ✓	130	In good working order, lately repaired.
95	do	2405	1799 ✓	130	
99	do	2405	1927 ✓	130	
100	Iron double trap punt	4186	1043 ✓	110	
101	do	4,185	1208 ✓	110	
104	do	4,060	1309 ✓	110	
105	Iron punt	6960	2709 ✓	140	
12	Second class Staff boat	820		150	
13	do	820		150	
14	First class Staff boat	1400		230	In working order.
15	Second class do	800		160	
16	First class do	1250		230	
17	Second class do	850		150	
18	First class do	1400		230	
19	Second class do	850		150	
20	First class do	1400		230	
21	Second class do	840		150	
22	First class do	1783	746	230	
23	do do	1780	1188	230	
	Total	173024	85256	9,385	
A	Upper Godavery barge	3500	4347	340	
D	do	3500	3500	340	In working order.
E	do	3,500	4083	340.	
	Total	10,500	11930	1,020.	
	Carried over	183524	97186	10405.	

5–

6

Return No 27.

Statement of the Irrigation Floating Plant in the Godavery District showing the estimated cost of up-keep during the year 1897-98.

Part II. Barges, Boats and Punts.

Registered No	Description of Boats	Value of plant Original	Value of plant Present Book value	Probable cost of up-keep in 1897-98	Remarks.
	Brought over	183524	97186	10405	
2	Jolly boat	165	171	20	In good working order, lately repaired
3	do	340	289	16	
4	do	165	156	20	In working order.
5	do	Unknown	.	16	
6	Survey Nava	300	171	35	Under repairs.
7	do	300	132	35	In working order.
8	Jolly boat of steam Tug "John Mullins"	Unknown	.	60	
	Total	1270	919	202	
	Grand Total	184794	98105	10607	×

Rules for finding present book value

(1) Boats and barges to be reduced 10 per cent every year, and the amount of special repairs, if any, must be added thereto.

(2) Staff boats to be reduced by one-twelfth of their original cost for each year of their life.

R W Walsh
7 8/96

5th August 1896.

Wm Jones
Boat Supdt

A. W. Romilly
Executive Engineer
Godavari Eastern Dn.

M. Chinnayya
Accountant

28/8

Detailed approximate estimate of the Annual Maintenance of the Irrigation floating plant Godavery District.

Particulars	Steamer "Shamrock"	Steamer "Victoria"	Steam launch "Arthur Cotton"	Steam Tug John Mullins	Canal Dredges	Barges	Canal punts	Dredge punts 30 ft long	Wooden light boats	Iron light boats	Wooden flats 74 ft long	Staff boats First Class	Staff boats Second class	Iron deep boats	Iron flats nos 1&81 & punt no 105	Tally boat No 8	Double trap punts	Wooden flats 60 ft 3 inches long	Iron flat 60½ ft long	Wooden deep boats	Tolly boats Nos 2 & 4	Tolly boats Nos 3 & 5	Survey boats
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Docking & launching	50	50	50	50	50	25	12	10	10	10	15	10	10	30	15	5	12	15	12	25	-	-	5
painting	500	500	195	550	120	150	31	20	.	20	-	110	65	63	45	30	30	-	35	-	8	-	-
Caulking	70	44	18	80	50	30	36	20	40	10	110	40	33	20	36	18	30	90	40	99	8	12	24
Varnishing	.	20	.	-	-	-	-	-	.	-	.	10	.	.	.	-	.	.	.	.	-	.	.
Tarring	.	-	-	.	50	50	20	10	.	10	.	-	.	27	19	.	20	-	20	.	-	.	.
Ropes &c	30	30	30	30	30	58	11	10	20	10	14	10	12	37	14	2	10	14	15	34	4	4	6
Lascars	-	-	-	.	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.
Small Stores	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Charges	60	66	37	60	28	27	10	5	5	10	11	20	10	13	11	6	8	11	8	12	.	-	.
Sundry repairs	150	200	100	150	100	-	-	.	.	-	-	30	20	-	-	-	-	-	-	-	-	-	-
Total	860	910	430	920	460	340	120	75	75	70	150	230	150	190	140	60	110	130	130	170	20	16	35

H. H. Watson
Asst Engr

M. Chinnayya
Accountant

5th August/96.

Wm Jones
Boat Superintendent

A. H. Rominter
Executive Engr
G. G. Dn.

28/8

SUPERINTENDING ENG... No. 3 3 SEP 97

CHIEF E... FOR IRRIGATION

Abstract showing the Comparison of details between the Estimated maintenance Cost of Floating Plant in Godavari District for 1896·97 & 97-98.

10

	Number		Original Value		Book Value		Cost of upkeep.	
	1897·98	1896·97	1897·98	1896·97	1897·98	1896·97	1897·98	1896·97
Steamers	4	4	111559	111559	42203	45753	3120	3120
Dredgers.	9	9	210314	210314	34090	39602	3680	4140
Barges A. D. & E from Upper Godavari Works	3	3	10500	10500	11930	13253	1020	1020
Iron flats Nos 1, 34 & 81.	3	3	18311	18311	4845	5382	410	410
Do Punts Nos 3, 5, 7, 10, 11, 15, 17, 20, 25, 27, 30, 31, 36, 37, 38, 39, & 105	17	17	51947	51947	21187	23306	2060	2060
Iron dredge punts Nos 13, 18, 21 22	4	4	9240	9240	4276	3154	300	300
Do double trap punts Nos 100, 101 & 104	3	3	12430	12430	3560	3954	330	330
Iron dup boat No 40	1	1	4693	4693	2091	2323	190	190
Do. Light boat Nos 65 to 72, 74 & 75	10	10	10866	10866	7201	7897	700	700
Wooden dup boats Nos 44, 47 to 50	5	5	10447	10447	11827	11991	850	850
Do. Light Boat No 77.	1	1	750	750	446	495	75	75
Do- Flats Nos 82 to 95 & 99	15	15	40347	40347	27889	29,992	2190	2190
Staff boats ~~1st~~ 1st class Nos 14, 16, 18, 20, 22 and 23	6	6	9013	9013	1934	2230	1380	1380
Do 2nd class Nos 12, 13, 15, 17 19 and 21	6	6	4980	4980	"	"	900	900
Jolly boats and Survey Navas Nos 2 to 8	7	7	1270	1270	919	902	202	202
	94	94	506667	506667	174398	190234	17407	17867

Superintending Engineer
1st Circle
10/9

F. W. Romilly.
Executive Engineer.
Godavari, Eastern, Dn

Dowlaishweram
27th August 1896.

30/8

7-9-96

12/9

auth

8738/96

Public Works (1896) Department.

Receipt 8738
~~CURRENT~~ No. ~~181 8D~~

11

Order

From The Supg Engineer
First Circle

No. 1159 8D.

Dated 9. 5. 96
Received 30. 9. 96
Enclosures 3.
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SUBJECT.

Floating plant for 1897-98 – Submits annual statements for the Irrigation & Navigation —

v L.S. 4 54

BACK PAPERS.

G.O.	No.	Department.	Date.
	9748	PW	15-11-95
	8108	"	3-10-95

FURTHER PAPERS.

G.O.	No.	Department.	Date.

No. 810 I., 3RD OCTOBER 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper :—

From A. H. GARRETT, Esq., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, No. 1253 G.D., dated Dowlaishweram, 4th September 1895.

I have the honour to submit, herewith, the annual statements, parts I and II, together with the abstract for the irrigation and navigation floating plant for the ensuing official year 1896–97.

2. The probable cost of maintenance of floating plant for 1896–97 is estimated at Rs. 17,867, exclusive of the cost of upkeep of ferry ballacuts on different canals. The required funds will be applied for in the budget.

ENCLOSURES.

STATEMENT of the irrigation floating plant in the Gódávari district showing the estimated cost of upkeep during the year 1896–97.

Part I.—Steamers and steam dredgers.

Registered number.	Details of plant.		Value of plant.		Probable cost of upkeep in 1896–97.	Remarks.
	Description.	Names of steamers, &c.	Original.	Present book value.		
1	2	3	4	5	6	7
			RS.	RS.	RS.	
		Irrigation.				
	Steamer ..	"Shamrock"	20,014	6,790	860	In working order.
		"Arthur Cotton"	9,535	6,072	430	
		"Victoria"	50,956	16,415	910	
	Steam-tug ..	"John Mullins"	31,054	16,476	920	
		Total ..	..	..	3,120	
1	Dredger ..	Canal iron dredger, double bucket ladder, side delivery.	26,373	2,005	460	Boiler condemned.
2		Canal iron dredger, single bucket ladder, end delivery.	15,395	1,314	460	In working order.
3		Canal iron dredger, single bucket ladder, side delivery.	30,437	4,565	460	
4		Do. do. ..	30,437	4,836	460	
5		Do. do. ..	30,437	3,285	460	In good working order, lately repaired.
6		Do. do. ..	31,097	4,662	460	
		Priestman's size B ..	16,580	3,965	460	In working order.
		Do. A 1 ..	13,438	5,070	460	
		Do. A 2 ..	16,120	9,900	460	
		Total ..	..	..	4,140	
		Grand Total ..	..	..	7,260	

Rules for finding present book value.

(1) Steamers to be reduced 10 per cent. every year, and the amount of special repairs, if any, must be added thereto.
(2) Steam dredgers to be reduced 15 per cent. every year, and the amount of special repairs, if any, must be added thereto.

(Signed) W. JONES,
Boat Superintendent.

6th August 1895.

(Signed) A. G. ROMILLY,
Ex. Engineer, Head Works Sub-Divn.
(Signed) C. J. USSHER,
Ex. Engineer, Gódávari Eastern Divn.

STATEMENT of the irrigation floating plant in the Gódávari district showing the estimated cost of upkeep during the year 1896–97.

Part II.—Barges, Boats and Punts.

Registered Number.	Description of boats.	Value of plant. Original.	Value of plant. Present book value.	Probable cost of upkeep in 1896–97.	Remarks.
	Irrigation.	RS.	RS.	RS.	
1	Iron flat	6,243	1,683	140	In working order.
3	Canal iron punt	2,811	1,392	120	In good working order; lately repaired.
5	Do.	2,812	1,418	120	In working order.
7	Do.	2,812	1,683	120	In working order.
10	Do.	2,812	1,154	120	Now working at Dumagudem.
11	Do.	2,812	1,262	120	Now working at Dumagudem.
13	Iron dredge punt	2,310	1,118	75	In working order.
15	Canal iron punt	2,812	1,006	120	In working order.
17	Do.	2,812	1,846	120	In working order.
18	Iron dredge punt	2,310	629	75	In working order.
20	Canal iron punt	2,812	1,021	120	In working order.
21	Iron dredge punt	2,310	891	75	Under repairs.
22	Do.	2,310	516	75	Under repairs.
25	Canal iron punt	2,811	1,161	120	In working order.
27	Do.	2,811	1,242	120	In working order.
30	Do.	2,811	1,442	120	In working order.
31	Do.	2,811	1,319	120	In good working order; lately repaired.
34	Iron flat	4,693	1,867	130	Now working at Dumagudem.
36	Canal iron punt	2,812	914	120	In working order.
37	Do.	2,812	1,402	120	In working order.
38	Do.	2,812	1,233	120	In good working order; lately repaired.
39	Do.	2,812	801	120	In working order.
40	Iron deep boat	4,693	2,323	190	In working order.
44	Wooden deep boat	2,330	2,275	170	In good working order; lately repaired.
47	Do.	2,000	2,719	170	In working order.
48	Do.	2,000	2,512	170	In working order.
49	Do.	2,000	2,542	170	Under repairs.
50	Do.	2,117	1,943	170	In working order.
65	Iron light boat	1,000	751	70	In working order.
66	Do.	1,000	1,233	70	In good working order; lately repaired.
67	Do.	1,000	833	70	In working order.
68	Do.	1,000	764	70	In working order.
69	Do.	1,000	792	70	In working order.
70	Do.	1,000	628	70	In working order.
71	Do.	1,433	765	70	In working order.
72	Do.	1,433	710	70	In good working order; lately repaired.
74	Do.	1,000	728	70	In working order.
75	Do.	1,000	693	70	In good working order; lately repaired.
77	Wooden light boat	750	495	75	In working order.
81	Iron flat	7,375	1,832	140	In good working order; lately repaired.
82	Wooden flat	2,722	1,975	150	In good working order; lately repaired.
83	Do.	2,722	2,254	150	In good working order; lately repaired.
84	Do.	2,722	2,030	150	In good working order; lately repaired.
85	Do.	2,722	2,028	150	In working order.
86	Do.	2,722	2,407	150	In good working order; lately repaired.
87	Do.	2,722	1,736	150	In working order.
88	Do.	2,800	1,928	150	In working order.
89	Do.	2,800	1,989	150	Now working at Dumagudem.
90	Do.	2,800	1,730	150	In good working order; lately repaired.
91	Do.	2,800	2,583	150	In good working order; lately repaired.
92	Do.	2,800	1,759	150	In good working order; lately repaired.
93	Do.	2,800	1,740	150	In working order.
94	Do.	2,405	1,694	130	In working order.
95	Do.	2,405	1,998	130	In working order.
99	Do.	2,405	2,141	130	In working order.
100	Iron double trap punt	4,185	1,158	110	In working order.
101	Do. do.	4,185	1,342	110	In working order.
104	Do. do.	4,060	1,454	110	In working order.
105	Iron punt	6,960	3,010	140	In working order.
12	Second-class staff boat	820	..	150	In working order.
13	Do. do.	820	..	150	In working order.
14	First-class staff boat	1,400	..	230	In working order.
15	Second-class staff boat	800	..	150	In working order.
16	First-class staff boat	1,250	..	230	In working order.
17	Second-class staff boat	850	..	150	In working order.
18	First-class staff boat	1,400	..	230	In working order.
19	Second-class staff boat	850	..	150	In working order.
20	First-class staff boat	1,400	..	230	In working order.
21	Second-class staff boat	840	..	150	In working order.
22	First-class staff boat	1,783	894	230	In working order.
23	Second-class staff boat	1,780	1,336	230	In working order.
	Total ..	..	..	9,385	

Statement of the irrigation floating plant in the Gódávari district showing the estimated cost of upkeep during the year 1896–97—*cont.*

Part II.—Barges, Boats and Punts—cont.

Registered Number.	Description of boats.	Value of plant. Original	Value of plant. Present book value.	Probable cost of upkeep in 1896–97.	Remarks.
	Irrigation—cont.	RS.	RS.	RS.	
A	Upper Gódávari barge	3,500	4,829	340	In working order.
D	Do.	3,500	3,888	340	In working order.
E	Do.	3,500	4,536	340	In working order.
	Total ..	..	..	1,020	
2	Jolly boat	165	160	20	In good working order; lately repaired.
3	Do.	340	233	16	In good working order; lately repaired.
4	Do.	165	173	20	In good working order; lately repaired.
5	Do.	Unknown.	..	16	In good working order; lately repaired.
6	Survey Nava	300	190	35	In working order.
7	Do.	300	146	35	In working order.
8	Jolly boat of steam-tug "John Mullins."	Unknown.	..	60	In good working order; lately repaired.
	Total ..	..	..	202	
	Grand Total ..	..	..	10,607	

Rules for finding present book value.

(1) Boats and barges to be reduced 10 per cent. every year, and the amount of special repairs, if any, must be added thereto.

(2) Staff boats to be reduced by one-twelfth of their original cost for each year of their life.

(Signed) W. JONES,
Boat Superintendent.

6th August 1895.

17867
17407
460

DETAILED approximate estimate of the annual cost of maintenance of the irrigation floating plant, Gódávari district.

Particulars.	Steamer "Shamrock."	Steamer "Victoria."	Steam launch "Arthur-Cotton."	Steam-tug "John Mullins."	Canal dredgers.	Barges.	Canal punts.	Dredge punts, 30 feet long.	Wooden light boats.	Iron light boats.	Wooden flats, 74 feet long.	Staff boats, first class.	Staff boats, second class.	Iron deep boats.	Iron flats Nos. 1 and 81 and iron punt No. 105.	Jolly boat No. 8.	Double trap punts.	Wooden flats, 60 feet 3 inches long.	Iron flat, 60½ feet long.	Wooden deep boats.	Jolly boats Nos. 2 and 4.	Jolly boats Nos. 3 and 5.	Survey Navas.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Docking and launching ..	50	50	50	50	50	25	12	10	10	10	15	10	10	30	15	5	12	15	12	25	..	..	5
Painting	500	500	195	550	120	150	31	20	..	20	..	110	65	63	45	30	30	..	35	..	8	..	..
Caulking	70	44	18	80	50	30	36	20	40	10	110	40	33	20	36	18	30	90	40	99	8	12	24
Varnishing	..	20	..	..	..	..	..	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..	..
Tarring	..	..	..	..	50	50	20	10	..	10	..	..	..	27	19	..	20	..	20	..	..	..	..
Ropes, &c.	30	30	30	30	30	58	11	10	20	10	14	10	12	37	14	2	10	14	15	34	4	4	6
Lascars	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Small stores	..	..	..	..	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
General charges	60	66	37	60	28	27	10	5	5	10	11	20	10	13	11	5	8	11	8	12	..	..	..
Sundry repairs	150	200	100	150	100	..	..	..	..	..	..	30	20	..	..	..	..	..	..	..	..	..	..
Total ..	860	910	430	920	460	340	120	75	75	70	150	230	150	190	140	60	110	130	130	170	20	16	35

9th August 1895.

(Signed) A. G. ROMILLY,
Ex. Engineer, Head Works Sub-Division.

(Signed) C. J. USSHER,
Ex. Engineer, Gódávari Eastern Division.

ABSTRACT showing the comparison of details between the estimated maintenance cost of floating plant in the Gódávari district for 1895–96 and 1896–97.

—	Number.		Original value.		Book value.		Cost of upkeep.	
	1896–97.	1895–96.	1896–97.	1895–96.	1896–97.	1895–96.	1896–97.	1895–96.
			RS.	RS.	RS.	RS.	RS.	RS.
Steamers	4	4	1,11,559	1,11,559	45,753	50,544	3,120	3,120
Dredgers	9	9	2,10,314	2,10,314	39,602	45,781	4,140	4,140
Barges A. D. and E., from Upper Gódávari works	3	3	10,500	10,500	13,253	14,725	1,020	1,020
Iron flats Nos. 1, 34 and 81 ..	3	3	18,311	18,311	5,382	5,469	410	410
Iron punts Nos. 3, 5, 7, 10, 11, 15, 17, 20, 25, 27, 30, 31, 36, 37, 38, 39 and 105	17	17	51,947	51,947	23,306	23,968	2,060	2,060
Iron dredge punts Nos. 13, 18, 21 and 22	4	4	9,240	9,240	3,154	3,503	300	300
Iron double trap punts Nos. 100, 101 and 104	3	3	12,430	12,430	3,954	4,392	330	330
Iron deep boat No. 40 ..	1	1	4,693	4,693	2,323	2,581	190	190
Iron light boats Nos. 65 to 72, 74 and 75	10	10	10,866	10,866	7,897	7,703	700	700
Wooden deep boats Nos. 44, 47 to 50	5	5	10,447	10,447	11,991	12,933	850	850
Wooden light boat No. 77 ..	1	1	750	750	495	550	75	75
Wooden flats Nos. 82 to 95 and 99	15	15	40,347	40,347	29,992	29,910	2,190	2,190
Staff boats, 1st class, Nos. 14, 16, 18, 20, 22 and 23	6	6	9,013	9,013	2,230	2,654	1,380	1,380
Staff boats, 2nd class, Nos. 12, 13, 15, 17, 19 and 21 ..	6	6	4,980	4,980	..	70	900	900
Jolly boats and survey navas Nos. 2 to 8	7	7	1,270	1,270	902	953	202	202
Total ..	94	94	5,06,667	5,06,667	1,90,234	2,05,736	17,867	17,867

(Signed) C. J. USSHER,
Ex. Engineer, Gódávari Eastern Divn.

ORDER—No. 810 I., dated 3rd October 1895.

The estimate of the cost of upkeep of the floating plant of the Gódávari delta system is approved; Rs. 17,867 will be provided on this account in the budget estimates for "Major works" for 1896–97.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, I Circle.
" Examiner, Public Works Accounts.

Exd. P. Seetharam.

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IRRIGATION.
ACCOUNT.

Govt. of {1895} Madras.

PUBLIC WORKS.

R 7652

Dated October, 3rd.

Recd. *Encl.*

G.O. No. 810 I., 3rd Oct. 1895.

OCTOBER.

Floating Plant of the Godavari Delta System

Approving the estimate of the cost of upkeep of the — and directing that Rupees 17,867 be provided on this account in the budget estimates for "Major works" for 1896-97.

No. 974 I., 15th November 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following paper:—

From A. H. GARRETT, Esq., Superintending Engineer, I Circle, to the Chief Engineer for Irrigation, dated Dowlaishweram, 21st October 1895, No. 1639 G.D.

With reference to your No. 9 I., dated 7th September 1895, I have the honour to submit herewith a report* by Conductor Bennett, Superintendent, Government Workshops, Dowlaishweram, on the present condition of the dredger, and, under the circumstances therein stated, to recommend its conversion into a flat for carrying stone as proposed.

* Dated 10th October 1895.

ENCLOSURES.

REPORT on No. 1 double bucket ladder dredger.

	FT.	IN.
Length	85	9
Breadth	14	3
Depth	3	9

Hull.—The hull is in fair order.

Boiler.—The furnace crown plate is cracked and ten boiler tubes plugged up. Some of the brass mountings are deficient, such as plugs to gauge cocks and steam pipe, &c. An attempt was made to repair the boiler, but without success. Mr. Wade, boiler-maker of Kidderpur dockyard, when here in 1889 examined the boiler and condemned it as irrepairable.

Engine.—The machinery needs thorough overhauling and cleaning. A pump plunger, two glands, three pet cocks, one brass bearing are deficient. The probable cost of a new boiler and other repairs would be about Rs. 6,000. I am of opinion that it is not worth while spending so much on this dredge, as this dredge, being a double one, would require a punt on each side, making a total width of 34 feet which would be useless to dredge channels of 15 feet and 20 feet wide which, I believe, is now being done at the locks and different shoals. It may be useful for river dredging or channels over 34 feet wide.

Under these circumstances, I beg to suggest that this dredge be converted into a flat for conveying stone. This would cost about Rs. 2,000, and I think half this amount of conversion can be realized by the sale of the boiler and machinery. This dredge has not been at work for the last twelve years.

DOWLAISHWERAM,
10th October 1895.

(Signed) E. W. BENNETT,
Superintendent, Government Workshops.

Mr. Bennett's proposal to convert the hull into a flat is recommended.

10th October 1895.

(Signed) A. G. ROMILLY,
Executive Engineer.

ORDER—No. 974 I., dated 15th November 1895.

The proposal to convert the double bucket ladder dredger belonging to the floating plant of the Gódávari Eastern division into a flat and to sell the boiler and machinery, is approved.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, I Circle.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.

Exd. J. P. Oliver.
Spare Copies

CHIEF ENGINEER
FOR IRRIGATION.
26 NOV. 95
No. 910 W

IRRIGATION.
ACCOUNT.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated November, 15th.

Recd. *Encl.*

G.O. No. 974 I., 15th Nov. 1895.

8/19

13-10-96

NOVEMBER.

Dredger

The proposal to convert the double bucket ladder — belonging to the floating plant of the Gódávari Eastern division into a flat and to sell the boiler and machinery, approved.

13