Public Works (189) Department.

G.O., No. 146 of

DATED 12 February 1897

12/2/97

[Despatch Abstract.]

Floating Plant of the Kiatua Delta System.

Approving ~~with remarks~~ the estimate of the cost of maintaining the — for 1897-98 and referring the subject of the employment of a foreman in the Begwada workshops for consideration in the General Branch of the P.W.D.

T.C. 12/2/97.

100

12/2

[P.W. 56. 4,500—30-11-96]

Indexed.

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 {1897} of Madras.

PUBLIC WORKS.

Recd. } 1897. *Enclosures*
Regd. } *Spare copies*

G.O., No. 146 I., 12th February 1897.

FEBRUARY.

Floating Plant of the Kistna Delta System

Approving the estimate of the cost of maintaining the — for 1897-98 and referring the subject of the employment of a foreman in the Bezwada workshops for consideration in the General Branch of the Public Works Department.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From H. T. KEELING, Esq., Executive Engineer, Kistna Northern Division, to the Superintending Engineer, II Circle, dated 6th December 1896, No. 567/S.E.

I have the honour to forward herewith the annual floating plant statement of this delta showing the programme of repairs for 1897–98.

2. The amounts required to execute the programme are Rs. 25,335 for annual maintenance and Rs. 9,000 for special repairs.

3. The estimated requirements are nearly Rs. 10,000 in excess of the programme herewith submitted, and the whole of this sum comes under special repairs. As, however, Government have seen fit to refuse sanction to engage a foreman for the shops, I have not included these repairs in the programme, because the supervision available is insufficient to properly supervise the amount of work to be done at present. The result will of course be that, after the lapse of another year, Government will probably read between Rs. 14,000 and Rs. 15,000 for Rs. 10,000.

4. No provision is made for iron punt No. 19 as a Cockburn's dredger has been mounted on the punt and the cost of its maintenance is included in that of the dredger.

5. The provision made in G.O., No. 957 I., dated 12th November 1895, for the special repairs of five composite punts and for unforeseen special repairs sufficed only for the full repairs to punts 69—70 and 74, and No. 75 was partially repaired.

6. A re-valuation statement will be sent in as early as possible for the items against which *minus* or small values are shown.

7. A depreciation of 10 per cent. was last year written off item 1. Cockburn's dredge and iron punt No. 19, instead of 15 per cent. as ordered in G.O., No. 787 I., dated 13th October 1891. This has now been corrected and the correct value shown.

8. The statement has been delayed partly on account of the floods in August throwing work into arrears, partly owing to the Kistna Eastern Division taking some time to answer a reference on expenditure in past years, and partly because I delayed the statement until the question of a foreman for the shops was finally settled, as this question had an important bearing on the programme to be submitted.

Enclosures.

Statement of Irrigation floating plant in the Kistna district showing the estimated cost of upkeep during the year 1897–98.

Registered number.	Details of plant.	Value of plant. Original value.	Value of plant. Present book value.	Probable cost of upkeep for 1897 and 1898.	Remarks.
	Part I.—Steamers and Steam dredges.				
		Rs.	Rs.	Rs.	
1	Steamer Alexandria	* 14,125	2,177	1,510	The launch is in fair working order at present; but boiler will require retubing and some of her hull plates will require removal next working season.
	Special repairs	..	770	300	
	Total ..	14,125	2,947	1,810	

* Original book value altered to agree with the figure noted in the Administration report.

Statement of Irrigation floating plant in the Kistna district, &c.—*cont.*

Register number.	Details of plant.	Value of plant. Original value.	Value of plant. Present book value.	Probable cost of upkeep for 1897 and 1898.	Remarks.
	Part I.—Steamers and Steam dredges—cont.				
		Rs.	Rs.	Rs.	
1	Dredge steam	15,614	1,841	480	In fair working order.
	Special repairs	..	288	..	
2	Dredge steam	15,614	1,841	480	
	Special repairs	..	288	..	
5	Dredge steam	30,439	3,765	670	
	Special repairs	..	604	..	
1	Cockburn's dredge	5,034	2,251	300	
	Special repairs	..	925		
	Value of iron punt No. 19	2,299	1,475		
	Total ..	69,000	13,278	1,930	
	Maintenance	..	..	1,930	
	Part II.—Boats and Punts.				
1	Iron punt	2,812	— 136	245	In working order.
	Special repairs	..	58	..	
2	Iron punt	2,811	500	245	Under repairs.
3	Do.	2,812	389	245	Require extensive repairs.
	Special repairs	..	834	500	
4	Iron punt	2,812	2,000	245	
	Special repairs	..	313	500	
5	Iron punt	2,812	38	245	
	Special repairs	..	130	500	
6	Scouring dam	..	..	245	In working order.
7	Iron punt	2,812	158	245	Requires extensive repairs.
	Special repairs	..	107	500	
8	Iron punt	2,812	1,500	245	In working order.
	Special repairs	..	45	..	
9	Iron punt	2,812	1,500	245	
	Special repairs	..	67	..	
10	Iron punt	2,812	— 114	245	
	Special repairs	..	140	..	
11	Iron punt	2,811	16	245	
	Special repairs	..	82	..	
12	Iron punt	2,811	266	245	
	Special repairs	..	9	..	
13	Iron punt	2,811	2,030	245	
14	Do.	2,811	1,500	245	
	Special repairs	..	..	500	Require extensive repairs.
15	Iron punt	2,811	— 126	245	
	Special repairs	..	9	500	
16	Iron punt	3,610	2,249	170	In working order.
18	Do.	2,186	1,038	245	
19	Do.	2,185	1,000	245	
20	Do.	2,172	655	245	
	Special repairs	..	84	..	
21	Iron punt	2,172	1,073	245	
22	Do.	2,172	955	245	
	Special repairs	..	41	..	
23	Iron punt	3,951	1,080	245	
	Special repairs	..	758	..	
24	Iron punt	2,172	211	245	Require extensive repairs.
	Special repairs	..	..	500	
25	Iron punt	4,091	436	245	
	Special repairs	..	95	500	
26	Iron punt	2,299	67	245	Under repairs.
	Special repairs	..	43	..	
27	Iron punt	5,916	1,560	245	In working order.
	Special repairs	..	218	..	
28	Iron punt	1,584	800	190	Require extensive repairs.
	Special repairs	..	..	400	
29	Iron punt	1,524	1,100	190	In working order.
30	Do.	1,524	284	190	
31	Do.	2,181	217	190	Under repairs.
32	Do.	1,960	84	190	Requires extensive repairs.
	Special repairs	..	832	400	
33	Iron punt	1,960	408	190	In working order.
	Special repairs	..	114	..	
34	Iron punt	1,960	84	190	Requires extensive repairs.
	Special repairs	..	..	400	
35	Iron punt	400	101	190	Under repairs.
36	Do.	400	239	190	
	Special repairs	..	..	500	
37	Iron punt	250	150	190	Require extensive repairs.
	Special repairs	..	..	..	
38	Iron punt	1,400	— 17	190	
	Special repairs	..	..	..	

Statement of Irrigation floating plant in the Kistna district, &c.—*cont.*

Register number.	Details of plant.	Value of plant. Original value.	Value of plant. Present book value.	Probable cost of upkeep for 1897 and 1898.	Remarks.
	Part II.—Boats and Punts—cont.	Rs.	Rs.	Rs.	
41	Iron punt	4,063	1,056	265	In working order.
42	Do.	4,171	1,068	265	
	Special repairs	..	459	..	
43	Iron punt	4,242	1,184	265	
	Special repairs	..	40	..	
	Total ..	99,907	31,309	14,380	
	Special repairs	..	..	5,200	
	Maintenance	..	..	9,180	
17	Circular trap punt	1,200	1,342	170	Under alteration.
39	Iron punt, small	250	89	50	
40	Trap punt, iron	3,652	1,822	220	In good order.
	Maintenance	..	..	440	
	Anicut paddle boat	900	60	150	Under repairs
	Anicut pinnace	224	159	55	Requires extensive repairs.
	Special repairs	..	..	..	
	Total ..	224	159	55	
	Special repairs	..	..	..	
	Maintenance	..	..	55	
44	Composite punt	2,500	950	300	
	Special repairs	..	554	..	
45	Composite punt	2,500	950	300	
	Special repairs	..	503	..	
46	Composite punt	2,500	1,200	300	
47	Do.	2,288	154	300	
	Special repairs	..	146	..	
48	Composite punt	2,287	1,200	300	
	Special repairs	..	393	..	
49	Composite punt	2,287	900	300	
50	Do.	2,160	263	300	
51	Do.	2,160	481	300	
52	Do.	2,160	77	300	
	Special repairs	..	93	..	
53	Composite punt	2,160	— 60	300	
54	Do.	2,055	1,000	300	
55	Do.	1,900	331	300	In working order.
56	Do.	2,013	518	300	
57	Do.	2,075	446	300	
	Special repairs	..	80	..	
58	Composite punt	2,085	518	300	
59	Do.	2,156	103	300	
60	Do.	2,064	224	300	
	Special repairs	..	..	500	
61	Composite punt	2,168	156	300	
	Special repairs	..	..	500	*Vide* remark on the reverse.
62	Composite punt	2,169	159	300	
	Special repairs	..	..	500	
63	Composite punt	2,164	182	300	
	Special repairs	..	..	500	
64	Composite punt	2,266	242	300	These boats are in working order; but are weak and must be strengthened.
	Special repairs	..	..	500	
65	Composite punt	2,238	132	300	
	Special repairs	..	468	500	
66	Composite punt	3,000	1,400	330	
	Special repairs	..	232	..	
67	Composite punt	3,000	1,600	330	
	Special repairs	..	158	..	
68	Composite punt	3,000	449	330	In working order.
	Special repairs	..	89	..	
69	Composite punt	2,600	207	330	
70	Do.	2,600	1,020	330	
	Special repairs	..	141	..	
71	Composite punt	2,600	— 132	330	In working order, but are weak and must be strengthened.
	Special repairs	..	..	500	
72	Composite punt	2,600	— 32	330	
	Special repairs	..	58	..	
73	Composite punt	2,600	260	330	
74	Do.	2,600	224	330	In working order.
75	Do.	3,811	724	330	
76	Do.	2,553	266	330	
	Total ..	79,319	19,027	13,730	
	Special repairs	..	..	3,500	
	Maintenance	..	..	10,230	

Statement of Irrigation floating plant in the Kistna district, &c.—*cont.*

Register number.	Description of boats.	Value of plant. Original.	Value of plant. Present book value.	Probable cost of upkeep for 1897 and 1898.	Remarks.
11	Staff boat	1,621	142	190	Require extensive repairs.
	Special repairs	..	..	..	
12	Staff boat	1,621	1,100	190	
	Special repairs	..	..	..	
14	Staff boat	1,355	57	160	
	Special repairs	..	..	..	
15	Staff boat	1,898	720	190	In working order.
16	Do.	1,556	305	160	Requires extensive repairs.
	Special repairs	..	..	..	
17	Staff boat	990	280	160	
	Special repairs	..	..	..	
18	Staff boat	2,486	1,740	190	In working order.
19	Do.	1,815	1,513	160	Requires extensive repairs.
	Special repairs	..	..	..	
20	Staff boat	2,271	1,893	190	In working order.
	Special repairs	..	..	..	
21	Staff boat	1,721	1,435	160	Requires extensive repairs.
	Superintending Engineer's camp clerk's boat.	359	435	90	In working order.
	Total ..	17,693	9,620	1,840	
	Maintenance	..	..	1,840	
	Special repairs	..	..	..	

Note for present book values of iron punts Nos. 4, 8, 9, 14, 19, 28, 29, 37 and composite punts Nos. 46, 48, 49 and 54 and staff boat No. 12—*see* G.O., No. 274 I., dated 23rd March 1896.

ABSTRACT showing the comparison of details between the estimated maintenance cost of floating plant in Kistna district for 1896–97 and 1897–98.

	Numbers. 1897–98.	Numbers. 1896–97.	Original values. 1897–98.	Original values. 1896–97.	Present book values. 1897–98.	Present book values. 1896–97.	Cost of upkeep. 1897–98.	Cost of upkeep. 1896–97.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Steamers	1	1	14,125	13,131	2,947	3,589	1,810	2,510
Dredges	4	4	69,000	69,000	13,278	21,391	1,930	2,175
Iron punts	40	40	99,907	99,907	31,309	24,657	14,380	11,680
Composite punts	33	33	79,319	79,319	19,027	19,034	13,730	13,230
Iron punt, small	1	1	250	250	89	114	50	250
Trap punt	1	1	3,652	3,652	1,822	2,187	220	220
Circular trap punt ..	1	1	1,200	1,200	1,342	1,462	170	2,170
Anicut paddle boat ..	1	1	900	900	60	150	150	350
Anicut pinnace	1	1	224	224	159	181	55	55
Staff boats	11	11	17,693	17,758	9,620	9,888	1,840	2,240
Total ..	94	94	2,86,270	2,85,341	79,653	82,650	34,335	34,880
Maintenance	..	..	..	..	..	..	25,335	..
Special repairs	..	..	..	..	..	..	9,000	..

DETAILED approximate estimate of the annual cost of maintenance of irrigation floating plant in Kistna district during 1897–98.

	Steamer "Alexandria."	Dredges Nos. 1 and 2 at Rs. 480 each.	Dredge No. 5 at Rs. 670 each.	Cockburn's dredge.	Iron punts Nos. 1 to 15 and 18 to 27 at Rs. 245 each.	Iron punt No. 16.	Iron punt No. 17, circular trap punt.	Iron punts Nos. 28 to 38 at Rs. 190 each.	Trap punt No. 40.	Iron punt No. 39, small.	Iron punts Nos. 41 to 43 at Rs. 265 each.	Composite punts Nos. 44 to 65 at Rs. 300 each.	Composite punts Nos. 66 to 76 at Rs. 330 each.	Anicut paddle boat.	Anicut pinnace.	Superintending Engineer's camp clerk's boat.	Staff boats Nos. 11, 12, 15, 18, 20 at Rs. 190 each.	Staff boats Nos. 14, 16, 17, 19, 21 at Rs. 160 each.
Docking and launching	30	16	16	16	15	8	15	15	15	8	15	24	24	6	6	4	15	10
Painting	84	42	70	32	32	23	49	28	47	14	46	99	107	33	9	21	66	55
Caulking	28	22	90	33	38	25	20	22	25	4	40	99	107	28	14	6	10	8
Tarring	36	33	25	16	16	11	21	10	20	6	21	99	107	3	3	6	21	21
Staker	75	53	53	64	4	4	8	4	24	4	4	8	8	4	2	8	12	12
Serang	107	80	90	8	5	5	6	6	5	5	6	5	5	5	12	6	32	10
Lascars	15	8	8	8	4	4	23	5	46	5	90	110	129	44	10	28	34	30
Ropes	200	132	189	68	94	65	23	73	38	9	45	54	67	27	10	17	34	26
Sundry repairs	50	14	14	13	41	29	29	33	38	9	45	54	67	27	10	17	34	26
Miscellaneous	135	80	115	50	41	29	29	33	38	9	45	54	67	27	10	17	34	26
Contage and contingencies	750	480	670	300	245	170	170	190	220	50	265	300	330	150	55	90	190	160
Expenses for use by Departmental officers	1,510	480	670	300	245	170	170	190	220	50	265	300	330	150	55	90	190	160
Total	1,510	480	670	300	245	170	170	190	220	50	265	300	330	150	55	90	190	160

(Signed) H. T. KEELING,
Ex. Engr., Kistna Northern Division.

No. 2588 K.

Forwarded to the Chief Engineer for Irrigation in reference to his reminder, dated 5th November 1896.

Copies of this office No. 1505 K.N., dated 5th September 1896, and No. 2159 K.N., dated 7th November 1896, to the Chief Engineer, General Buildings and Roads Branch, on the subject of a foreman for the workshops at Bezwada are also forwarded with the Chief Engineer's replies thereto.

2. The undersigned can only again urge that the workshops should have more supervision, as it is an absolute impossibility for Sub-Conductor Joyce to do all that is required. Experience has proved that the repairs to the boats and floating plant could be economised if there was a reliable man to supervise the work.

3. A comparison of cost of supervision in the three Public Works workshops, Madras, Dowlaishweram and Bezwada, will show that the last-named with the largest outturn has the least supervision.

(Signed) H. T. KEELING,
14th December 1896. *for* Superintending Engineer, II Circle.

No. 20 I.

Submitted to Government. The estimated cost of upkeep for the ensuing year is Rs. 545 less than the current year's estimate.

2. The Superintending Engineer, II Circle, again urges the necessity for a foreman for the workshops at Bezwada, sanction to whose employment was not accorded in G.O., No. 2932 W., dated 14th October 1896. The Chief Engineer for Irrigation begs to recommend that the order be reconsidered in the light of the further explanation given by the Superintending Engineer.

(Signed) W. HUGHES,
2nd February 1897. Chief Engineer for Irrigation.

ORDER—No. 146 I., dated 12th February 1897.

The estimate of the cost of maintaining the floating plant of the Kistna Delta System is approved; Rs. 34,335 will be provided on this account in the budget estimates for "Major Works" for 1897–98.

2. Orders will be passed in the General Branch, Public Works Department, on paragraph 2 of the note by the Chief Engineer for Irrigation on the subject of the employment of a foreman in the Bezwada workshops.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

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

Exd. Shaik Karim.

Estimate of the Cost of maintaining Floating Plant of the Kistna Delta System —

~~His Excellency the Governor.~~

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

11P

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the Superintending Engineer, Second Circle... } (H.E.No:2588, dated 14th Decr: 1896)

Nov 20 Jd 2.2.97

Submitted to Government.

The estimated cost of upkeep for the ensuing year is Rs 545 less than the current year's estimate.

2. The Superintending Engin--eer, Second Circle, again urges the - necessity for a foreman for the Work--shops at Bezwada, sanction to whose employment was not accorded in G.O.- No: 2932 W, dated 14th October 1896. The Chief Engineer for Irrigation - begs to recommend that the order be reconsidered in the light of the fur--ther explanation given by the Supg: Engineer.

Order thereon. No 146 Jd 12.2.97

The estimate of the cost- of maintaining the floating plant of the Kistna Delta System is approved; Rs 34,335 will be provided on this - account in the budget estimates for "Major works" for 1897-98.

Drafted under I's orders.

Issue WH 9.2.97

[P. W. 40. 2,000—6-6-96]

2. Orders will be passed in the General Branch P.W.D. on para 2 of the Note by the Chief Engineer for Irrigation on the subject of the employment of a foreman in the Bezwada Workshops.

2/2/97

W.H. 8/2/97

To,

The Chief Engr: for Irrigation.

The Chief Engineer, P.W.D.

The Supg: Engineer, II Circle.

The Examiner P.W. Accounts.

Public Works (1896) Department.

CURRENT No. 863 ~~424/C8~~

1469

Order

From

Major W. L. C. Baddeley R.E.
Supg: Engineer, II Circle

No. 2588 K.

Dated 14 December 1896

Received 25.1.97

Enclosures 52

Spare copies

SUBJECT.

Floating Plant Statement of the Kistna Delta for 1897-98 - Forwards with Remarks thereon.

B/7-12-96

BACK PAPERS.

G.O.	No.	Department.	Date.
R	73 & 74	Rev	14-2-96
2-0	original	Rev	293 22/2/96

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Statement of floating plant in Kistna District for 1897-1898

Statement of Irrigation floating plant in the Kistna District showing the estimated cost of upkeep during the year 1897-98.

Part I Steamers and Steam dredges. 3

Registered Number	Details of plant.	Value of Plant: Original Value	Value of Plant: Present Book Value	Probable cost of upkeep for 97 and 98	Remarks.
1	Steamer Alexandria	*14125	2177	1510	The launch is in fair working order at present; but boiler will require retubing and some of her hull plates will require removal next working season.
	Special repairs		770	300	
		14125	2947	1810	
*	Original book value altered to agree with the figures noted in the administration report.				
1	Dredge steam	15614	1841	480	
	Special repairs		288		
2	Dredge steam	15614	1841	480	In fair working order.
	Special repairs		288		
5	Dredge steam	30439	3765	670	
	Special repairs		604		
1	Corkburns dredge	5034	2251	300	
	Special repairs		925		
	Value of iron punt No 19	2299	1475 ~~975~~		
		69000	13278 ~~12778~~	1930	
	Maintenance			1930	

Part II Boats and Punts.

1.	Iron Punt	2812	– 136	245	In working order
	Special repairs		58		
2	Iron Punt	2811	500	245	Under repairs
3	Iron Punt	2812	389	245	Require extensive repairs
	Special repairs		834	500	
4	Iron Punt	2812	2000	245	
	Special repairs		313	500	
5	Iron Punt	2812	38	245	
	Special repairs		130	500	
6	Scoring dam			245	In working order
7	Iron Punt	2812	158	245	Requires extensive Repairs
	Special repairs		107	500	
8	Iron Punt	2812	1500	245	
	Special repairs		45		
9	Iron Punt	2812	1500	245	
	Special repairs		67		
10	Iron Punt	2812	114	245	In working order
	Special repairs		140		
11	Iron Punt	2811	16	245	
	Special repairs		82		
12	Iron Punt	2811	266	245	
	Special repairs		9		
		30929	8130	4940	

		30929	8130	4940	
13	Iron Punt	2811	2030	245	In working order
14	Iron Punt	2811	1500	245	Require extensive repairs
	Special repairs			500	
15	Iron Punt	2811	– 126	245	
	Special repairs		9	500	
16	Iron Punt	3610	2249	170	In working order
18	Iron Punt	2186	1038	245	
19	Iron Punt	2185	1000	245	
20	Iron Punt	2172	655	245	
	Special repairs		84		In working order.
21	Iron Punt	2172	1073	245	
22	Iron Punt	2172	953	245	
	Special repairs		41		
23	Iron Punt	3951	1080	245	
	Special repairs		758		
24	Iron Punt	2172	211	245	
	Special repairs			500	Require extensive Repairs
25	Iron Punt	4091	436	245	
	Special repairs		95	500	
		64073	21218	9805	

		64073	21218	9805	
26	Iron Punt	2299	67	245	Under repairs
	Special repairs		43		
27	Iron Punt	5916	1560	245	In working order
	Special repairs		218		
28	Iron Punt	1584	800	190	Require extensive repairs
	Special repairs			400	
29	Iron Punt	1524	1100	190	In working order
30	Iron Punt	1524	284	190	
31	Iron Punt	2181	217	190	Under repairs
32	Iron Punt	1960	84	190	Requires extensive
	Special repairs		832	400	Repairs
33	Iron Punt	1960	408	190	In working order
	Special repairs		114		
34	Iron Punt	1960	84	190	Requires extensive
	Special repairs			400	repairs
35.	Iron Punt	400	101	190	Under repairs
		85381	27130	13015	
36	Iron Punt	400	239	190	Requires extensive Repairs
	Special repairs			500	
37	Iron Punt	250	150	190	
	Special repairs				
38	Iron Punt	1400	44	190	
	Special repairs				
41	Iron Punt	4063	1056	265	In working order
42	Iron Punt	4171	1068	265	do do
	Special repairs		459		
43	Iron Punt	4242	1184	265	do do
	Special repairs		40		
		99907	31309	14380	
	Special repairs			5200	
	Maintenance			9180	
17	Circular trap punt	1200	1342	170	Under alteration
39	Iron Punt Small	250	89	50	
40	Trap punt iron	3652	1822	220	In good order
	Maintenance			440	

	Ancient paddle boat	900	60	150	Under repairs
	Ancient Pinnace	224	159	55	Requires extensive repairs
	Special repairs			×	
		224	159	55	
	Special repairs				
	Maintenance			55	
44	Composite punt	2500	950	300	
	Special repairs		554		
45	Composite punt	2500	950	300	
	Special repairs		503		
46	Composite punt	2500	1200	300	
47	Composite punt	2288	154	300	
	Special repairs		146		
48	Composite punt	2287	1200	300	
	Special repairs		393		
49	Composite punt	2287	900	300	
50	Composite punt	2160	263	300	
51	Composite punt	2160	481	300	
		18882	7694	2400	
52	Composite punt	2160	77	300	In working order.
	Special repairs		93		
53	Composite punt	2160	60	300	
54	Composite punt	2055	1000	300	
55	Composite punt	1900	331	300	
56	Composite punt	2013	518	300	
57	Composite punt	2075	446	300	
	Special repairs		80		
58	Composite punt	2085	518	300	
59	Composite punt	2156	103	300	
60	Composite punt	2064	224	300	vide remark on the reverse
	Special repairs			500	
61	Composite punt	2168	156	300	
	Special repairs			500	
62	Composite punt	2169	159	300	
	Special repairs			500	
63	Composite punt	2164	182	300	
	Special repairs			500	
		43851	11521	8000	

		4385/	1152/	8000	
64	Composite punt	2266	242	300	These boats are
	Special repairs			500	in working order;
65	Composite punt	2238	132	300	but are weak & must
	Special repairs	"	468	500	be strengthened
66	Composite punt	3000	1400	330	
	Special repairs	"	232	"	
67	Composite punt	3000	1600	330	
	Special repairs	"	158	"	
68	Composite punt	3000	449	330	In working
	Special repairs	"	89	"	orders.
69	Composite punt	2600	207	330	
70	Composite punt	2600	1020	330	
	Special repairs	"	141	"	
71	Composite punt	2600	-132	330	In working order
	Special repairs			500	but are weak and must be strengthened
72	Composite punt	2600	-32	330	
	Special repairs	"	58	"	
73	Composite punt	2600	260	330	
74	Composite punt	2600	224	330	In working order
75	Composite punt	3811	724	330	
		76766	18761	13400	

		76766	18761	13400	
76	Composite punt	2553	266	330	In working order
		79319	19027	13730	
	Special repairs	-	-	3500	
	Maintenance	-	-	10230	

Register Number	Description of boats.	Original	Present Book Value	Probable cost of upkeep for 1897-98	Remarks.
11	Staff boat	1621	142	190	Require extensive repairs
	Special repairs				
12	Staff boat	1621	1100	190	
	Special repairs				
14	Staff Boat	1355	57	160	
	Special repairs				
15	Staff Boat	1898	720	190	In working order
16	Staff Boat	1556	305	160	Requires extensive repairs
	Special repairs				
17	Staff Boat	990	280	160	
	Special repairs				
18	Staff Boat	2486	1740	190	In working order
19	Staff Boat	1815	~~1530~~ 1573	160	Requires extensive repairs
	Special repairs				
20	Staff Boat	2271	1893	190	In working order
	Special repairs				
21	~~Staff boat~~	1721	1435	160	Requires extensive repairs
	Superintending Engineers camp clerks boat	359	435	90	In working order
	Total	17693	9620	1840	
	Maintenance			1840	
	Special repairs			-	

Nos 4, 8, 9, 14, 19, 28, 29, 37 and composite punts Nos 46, 48, 49 and 54 23rd March 96

Note for present book values of iron punts and staff boat No 12, See G.O. No 274 I dated

Abstract Showing the comparison of details between the estimated maintenance cost of floating plant in Kistna District for 1896 and 1897 and 1897-98.

	Numbers		original values		Present Book values		cost of upkeep.	
	1897-98	1896-97	1897-98	1896-97	1897-98	1896-97	1897-98	1896-97
Steamers	1	1	14125	13131	2947	3589	1810	2510
Dredges	4	4	69000	69000	~~12778~~ 13278	21391	1930	2175
Iron punts	40	40	99907	99907	31309	24657	14380	11680
Composite punts	33	33	79319	79319	19027	19034	13730	13230
Iron punt Small	1	1	250	250	89	114	50	250
Trap punt	1	1	3652	3652	1822	2187	220	220
Circular trap punt	1	1	1200	1200	1342	1462	170	2170
Ancient paddle boat	1	1	900	900	60	150	150	350
Ancient pinnace	1	1	224	224	159	181	55	55
Staff boats	11	11	17693	17758	9620	9888	1840	2240
	94	94	286270	285341	79653	82650	34335	34880
Maintenance							25335	
Special repairs							9000	

Detailed approximate estimate of the annual cost of maintenance of irrigation floating plant in Kistna District during 1897—98.

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	Steamer Alexandria	Pontoon No 1 and 2 at Rs 450 each	Pontoon No 5 at Rs 670 each	Pontoon No 6 at Rs 300 each	Iron punts Rs 15 to 54 1857 at Rs 245 each	Iron punt Rs 18	Iron punt No 17 circular top punts	~~Iron~~ punts No 28 to 38 at Rs 190 each
Docking and launching	30	16	16	16	15	8	15	15
Painting	84	42	70	32	32	23	49	28
Caulking	28	22	90	33	38	25	20	22
Tarring	.	33	25	16	16	11	21	10
Stakes	36	-	-	-	-	-	-	-
Serang	75	53	53	-	-	-	-	-
Lascars	107	80	90	64	4	4	8	4
Ropes	15	8	8	8	5	5	5	5
Sundry repairs	200	132	189	68	94	65	23	73
Miscellaneous	50	14	14	13	-	-	-	-
Centage and contingencies	135	80	115	50	41	29	29	33
Expenses for use by Departmental officers	750							
Total	1510	480	670	300	245	170	170	190

	Iron punt No 39 small	Teak punts No 40	Iron punts No 41 to 43 at Rs 265 each	Composite punts No 44 to 65 at 300 Rs each	Composite punts No 66 to 71 at Rs 330 each		Orient pinnace	Orient launch	Irrig Engrs' camp clerks' boat	Staff boats No 11, 12, 15, 18, 20 at Rs 190 each	Staff boat No 14, 16, 17 19, 21 at Rs 180 each	Remarks.
Docking and launching	8	15	15	24	24		6	5	4	15	10	
Painting	14	47	45	-	-		33	9	-	—	-	
Caulking	.	25	40	99	107		28	14	21	66	55	
Tarring	6	20	21	-	.		3	3	6	10	8	
Stakes	-	-	-	-	-		-	-	-	-	-	
Serang	-	-	-	-	-		-	-	-	-	-	
Lascars	4	24	4	8	8		4	-	8	21	21	
Ropes	4	5	5	5	5		5	2	6	12	10	
Sundry repairs	5	46	90	110	129		44	12	28	32	30	
Miscellaneous	-	-	-	-	-		-	-	-	-	-	
Centage and contingencies	9	38	45	54	57		27	10	17	34	26	
Total	50	220	265	300	330	.	150	55	90	190	160	

A. D. Rubies
12/12
Executive Engineer

14 Subdy Engr II Cl

A.D.
4/12

A. D. Rubies
A/Xr
Executive Engineer
Northern Division Kistna

CHIEF ENGINEER
FOR IRRIGATION.
10 DEC. 96
No. 424 Ks.

SUPDG. ENGINEER'S OFFICE
No. 1252 K.N.
7 DEC. 96
P. W. D.
SECOND CIRCLE.

Rec. 6-2
8037

Letter from H. T. Keeling Esquire. Executive Engineer Kistna Northern Dn. to the Subg Engineer 2nd Circle, dy 6.12.1896 No. 567 S.E.

I have the honour to forward herewith the annual floating plant statement of this delta showing the programme of repairs for 1897-98.

2. The amounts required to execute the programme are Rs 25,335 for annual maintenance and Rs 9,000 for special repairs.

3. The estimated requirements are nearly Rs 10,000 in excess of the programme herewith submitted and the whole of this sum comes under special repairs. As however Government have seen fit to refuse sanction to engage a foreman for the shops I have not included these repairs in the programme because the supervision available is insufficient to properly supervise the amount of work to be done at present. The result will of course be that after the lapse of another year Government will probably read between Rs 14,000 and Rs 15,000 for Rs 10,000.

4. No provision is made for iron punt No. 19 as a Cockburns dredger has been mounted on the punt and the cost of its maintenance is included in that of the dredgers.

5. The provision made in G.O. no 957 I dy

dy 12.11.1895 for the special repairs of 5 composite punts and for unforeseen special repairs sufficied only for the full repairs to Punts 69-70 and 74 and no 75 was partially repaired.

6. A revaluation statement will be sent in as early as possible for the items against which minus or small values are shown.

7. A depreciation of 10 per Cent was last year written off item 1. Cockburns dredge and iron punt no 19 instead of 15 per Cent as ordered in G.O. No. 7871 dy 13.10.1891. This has now been Corrected and the correct value shown.

8. The statement has been delayed partly on account of the floods in August throwing work into arrears, partly owing to the Kistna Eastern Dn. taking some time to answer a reference on expenditure in past years and partly because I delayed the statement until the question of a foreman for the shops was finally settled, as this question had an important bearing on the programme to be submitted.

No. 2588K / 14.12.96

Forwarded to the Chief Engineer for Irrigation in reference to his reminder dy 5th November 1896.

Encls. 5
4 Copies of letters in 1 sheet
1 Statement
5

Copies

20. Copies of this office Nos 1505 K.N. / 5.9.96 & 2159 K.N. / 7.11.96 to the Chief Engineer, General Buildings and Roads Branch, on the subject of a Foreman for the workshops at Bezwada are also forwarded with the Chief Engineer's replies thereto.

2. The undersigned can only again urge that the Workshops should have more supervision as it is an absolute impossibility for Sub Condr: Joyce to do all that is required. Experience has proved that the repairs to the boats and floating plant could be economised if there was a reliable man to supervise the work.

3. A comparison of cost of supervision in the three P.W. workshops, Madras, Dowlaishweram and Bezwada will show that the last named with the largest outturn has the least supervision.

S. J. Keeling
12/12
Executive Engineer
for Superg: Engineer, II Circle

CHIEF ENGINEER
FOR IRRIGATION.
16 DEC 98
No. 424 Ks.

No 3022 C

Government of Madras.

P. W. Department.

Memorandum.

Dated Madras 8th Augt '96.

From the Supg. Engineer II Circle.

No 945 K. N. dy 11th July 1896.

Endt. by the Chief Engineer for Irrign.

No 62 E.W. dy 23rd July 1896.

The Supg. Engineer is requested to submit a proposition statement in support of his application for the appointment of a foreman for the Bawada workshops.

2. Progressive pay cannot be proposed for a temporary post.

(By order)

(Sd) C.H.B. Burleton.

Dy. Chief Engineer

Letter from H. T. Keeling Esquire, Executive Engineer, Kistna Northern Bn. to the Supg. Engineer, 2nd Circle, dy 2.9.1896, No 293 S.

With reference to your endorsement No 1249 K. N. dy 14.8.96 on Chief Engineer's Memo No 3022 C of 8th Augt '96 I have the honour to submit herewith a proposition statement for the increase of establishment asked for in my No 209 S.E. dy 8.7.1896.

2. The mean of the progressive pay proposed

proposed by me in my No. quoted above has been fixed as the Salary of the post.

—

No. 1505 K. N.
5.9.96.

Submitted to the Chief Engineer, P. W. D, with reference to his Memo No. 3022 C dy 8th Augt 96.

(Sd) W. L. C. Baddeley
Major R.E.
Supg Engr: II Circle.

—

P. W. Department.

Govt. of the Madras Government.

—

Read the following

From the S. E. II Circle No. 945 K. N. dy 11/7/96.

Endt: thereon by the Chief Engineer for Engr:
No. 62 EW. dy 23.7.96.

From the S. E. II Circle No. 1505 K. N.
dy 5th Septr: 96.

—

Order thereon No. 2932 W dy 14th Octr 96.

H. E. the Governor in Council is not satisfied as to the necessity for the proposed increase to the supervising staff of the Beravada Workshops. It is stated that the time of the Supt: is so much taken up with office work that he cannot properly supervise the work in the shops. This, if conclusively shown, would be a ground for additional assistance in the office.

(True Extract)
(Sd) F. J. Wilson
Under Secy:

—

Letter from Major W. L. C. Baddeley R.E. Supg: Engineer, II Circle, dated 9th November 96. No. 2159 K. N.

In reference to G.O. 2932 W dy 14th October 1896. I have the honour most respectfully to ask for a further consideration of the matter.

2. The workshops at Beravada turn out more work than any other P. W. D. workshop in the Presidency and I doubt if any private firm has the same outturn certainly not the same variety of jobs.

3. The office work of the Supt: is chiefly Engineering work, viz, the preparation of designs and Scrutiny of plans for works and for this purpose clerical establishment is useless.

4. I have no hesitation in saying that a general Foreman is most necessary and I believe the appointment would be a great economy if we can obtain the right sort of

of man; but to do this there must be some reasonable hope of permanency in the post.

5. In addition to this, it is most desirable that a man should be available to take the place of Sub Condr. Joyce when that officer retires and in a workshop with such variety of work it takes some years for a man to be really efficient.

6. At present we are dependent on the Godavary workshops for most of our heavy castings, a most undesirable arrangement which has already caused loss and trouble and as to remedy this a cupola is now being built this in itself is a strong reason for additional engineering supervision, which now has no link between the Supt: and the maistries.

CHIEF ENGINEER FOR IRRIGATION. 16 DEC. 96. No. 4244/98

Memo: from the Chief Engr: P.W.D., to the Supdg: Engr: II Circle, dy 13.11.96, No. 4098 C.

With reference to letter from the S.E. 2nd Circle No. 2159/K.N. dy 7.11.96, the undersigned has the honour to state that he does not consider that a sufficiently strong case has been made out for the appointment of a foreman for the Bezwada workshops to render it advisable to ask Government to reconsider the matter.

(True Copies)
Ins: Workshops Manager
Supdg Engr's Office II Circle.

P.W. E.I/883/97

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