

8738
Public Works (1896) Department.

G.O., No. 8612

DATED 23rd October 1896

[Despatch Abstract.]

In Loading Plank: Re estimate of the cost of
the 3rd Re of the Godavari Delta system
approved and Rs 17407 ordered to be provided
on this account in the budget estimates
for 1897-98.

[D. W. D.
201-15-8-96.]

T.C. 23/10 23/10

[illegible][illegible]

Government { 1896 } of Madras.
PUBLIC WORKS.

<i>Recd.</i>	} 1896.	<i>Enclosures</i>
<i>Regd.</i>		<i>Spare copies</i>

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

OCTOBER.

Floating Plant

The estimate of the cost of upkeep of the — of the Gódávári 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 Gódávári 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
		<i>Irrigation.</i>	RS.	RS.	RS.	
	Steamer ..	"Shamrock" ..	20,014	6,111	860	Under repairs. In working order.
		"Arthur Cotton" ..	9,535	5,828	430	
	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. <

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 Gódávári district showing the estimated cost of upkeep during the year 1897-98.

Part II.—Barges, Boats and Punts.

Registered num- ber.	Description of boats.	Value of plant.		Probable cost of upkeep in 1897-93.	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 Dumagadem.
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	
34	Iron flat	4,693	1,681	130	In working order.
36	Canal iron punt	2,812	823	120	
37	Do.	2,812	1,262	120	
38	Do.	2,812	1,110	120	In working order.
39	Do.	2,812	721	120	
40	Iron deep boat	4,693	2,091	190	Under repairs.
44	Wooden deep boat	2,330	2,048	170	
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	In working order.
65	Iron light boat	1,000	678	70	
66	Do.	1,000	1,110	70	In working order.
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	
72	Do.	1,433	639	70	Under repairs.
74	Do.	1,000	656	70	In working order.
75	Do.	1,000	624	70	
77	Wooden light boat	750	446	75	In good working order, lately repaired.
81	Iron flat	7,375	1,649	140	
82	Wooden flat	2,722	1,778	150	In working order.
83	Do.	2,722	2,029	150	
84	Do.	2,722	1,827	150	In working order.
85	Do.	2,722	1,826	150	
86	Do.	2,722	2,167	150	Under repairs.
87	Do.	2,722	1,563	150	
88	Do.	2,800	1,736	150	In good working order, lately repaired.
89	Do.	2,800	2,239	150	
90	Do.	2,800	1,557	150	In working order.
91	Do.	2,800	2,325	150	
92	Do.	2,800	1,584	150	In good working order, lately repaired.
93	Do.	2,800	1,566	150	
94	Do.	2,405	1,966	130	In working order.
95	Do.	2,405	1,799	130	
96	Do.	2,405	1,927	130	In good working order, lately repaired.
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	In working order.
105	Iron punt	6,960	2,709	140	
12	Second-class staff boat	820	..	150	In working order.
13	Do. do.	820	..	150	
14	First-class staff boat	1,400	..	230	In working order.
15	Second-class staff boat	800	..	150	
16	First-class do.	1,250	..	230	In working order.
17	Second-class do.	850	..	150	
18	First-class do.	1,400	..	230	In working order.

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

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

Registered num- ber.	Description of boats.	Value of plant.		Probable cost of upkeep in 1897-98.	Remarks.
		Original.	Present book value.		
Irrigation—cont.					
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 Gódávári 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	} In working order.
5	Do.	Unknown.	..	16	
6	Survey nava	300	171	35	} Under repairs.
7	Do.	300	132	35	
8	Jolly boat of steam tug "John Mullins." ..	Unknown.	..	60	} In working order.
	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, Gódávári district.

DETAILED approximate estimate of the

Particulars.

1

Docking and launching ..
 Painting ..
 Caulking ..
 Varnishing ..
 Tarring ..
 Ropes, &c. ..
 Lasours ..
 Small stores ..
 General charges ..
 Sundry repairs ..

Total ..

Steamer "Shamrock."	2	3	4	5	6	Canal dredges.	Barges.	Canal punts.	Dredge punts 30 feet long.	Wooden light boats.	Iron light boats.	Wooden flats 7 1/2 feet long.	Staff boats, first-class.	Staff boats, second-class.	Iron deep boats.	Iron flats Nos. 1 and 81 and iron punt No. 103.	Jolly boat No. 8.	Double trap punts.	Wooden flats 60 feet 3 inches long.	Iron flat 60 1/2 feet long.	Wooden deep boats.	Jolly boats Nos. 2 and 4.	Jolly boats Nos. 3 and 5.	Survey names.
50	500	50	50	50	50	50	25	12	10	10	10	15	10	10	30	15	5	12	15	12	25	..	..	5
70	600	44	18	550	550	120	150	31	20	20	20	110	110	65	63	45	30	30	90	35	99	8	12	24
..	20	..	..	80	80	50	30	36	20	40	10	110	40	33	20	36	18	18	..	40	..	8	..	..
..	..	..	..	..	..	..	..	20	10	10	10	..	10	..	..	..	..	20	..	20	..	..	..	..
30	30	30	30	30	30	50	50	11	10	20	10	14	10	12	37	19	2	10	14	15	34	..	4	6
..	..	..	..	..	..	30	58	11	..	..	..	..	..	..	..	14	..	..	..	..	..	..	..	..
..	..	..	..	..	..	20	..	..	..	5	10	11	20	10	13	11	..	8	11	8	12	..	..	..
60	66	66	37	60	28	12	27	10	..	..	..	..	30	20	..	..	..	..	..	..	..	..	..	..
150	200	200	100	150	100	100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
860	910	430	430	420	460	460	840	120	75	75	70	150	230	160	190	140	60	110	130	130	170	20	16	35

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

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

(Signed) W. JONES,
 Boat Superintendent.

5th August 1896.

(Signed) A. G. ROMILLY,
Ex. Engr., Gódávári Eastern Division.(Signed) R. S. PATERSON,
Assistant Engineer.(Signed) W. JONES,
Boat Superintendent.

5th August 1896.

No. 861 I. of 23rd October 1896.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 17th Oct 1896
READ the following

Approved
1896

Approved by the Chief Engr. 1159 L.D. 9
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.

Approved
17/9/96

W.H.

g

To the Chief Engr. 1159 L.D. 9
17/9/96

6
No. 861 I., 23rd OCTOBER 1896.

ABSTRACT showing the comparison of details between the estimated maintenance cost of Floating Plant in Godavari 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.
Steamers	4	4	Rs. 1,11,559	Rs. 1,11,559	Rs. 42,203	Rs. 45,753	Rs. 3,120	Rs. 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 Godavari 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	12,420	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	7,597	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., Godavari Eastern Division.

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

(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.

No. 1159 G.D.

FROM

J. C. Lammie Esqr M.I.C.E.
SUPERINTENDING ENGINEER.

FIRST CIRCLE.

Enclosures. 3 . TO

THE CHIEF ENGINEER

FOR IRRIGATION.

-WALTAIR-

Durand

Sep 1

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 financial 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 ballas cuts 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. Lammie
Super Engineer 1st Circle

FROM *J. C. Lamine Esq*
SUPERINTENDING ENGINEER,
FIRST CIRCLE.

TO
THE CHIEF ENGINEER

FOR IRRIGATION.

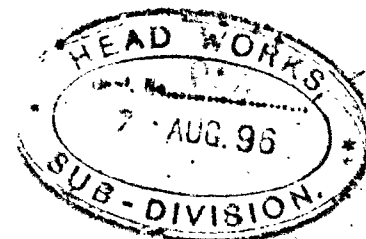
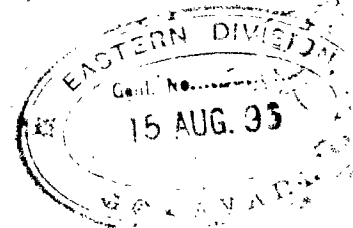
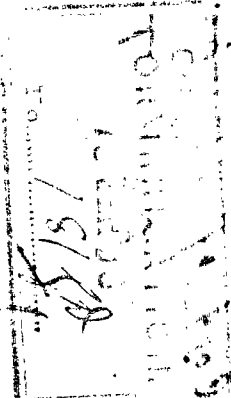
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DESPATCHED 12th } September 1896.
RECEIVED

No. 1159 G.D.

ENCLOSURES. 3.

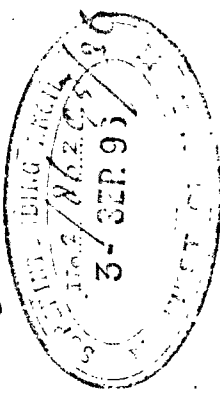
SUBJECT.

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



Return No 27.

Statement of the Irrigation floating plant in the Godavari District
Showing the estimated cost of upkeep during the year 1897-98
Part I Steamers and Steam Dredgers.



No	Description	Details of plant	Value of plant		Probable cost of upkeep 1897-98	Remarks
			Original	Present book value		
1	Steamers	Irrigation.				
		"Shamrock"	20,014	6111	860	Under repairs
		"Arthu Cotton"	9,535	3338	430	
		"Victoria"	50,956	15054	910	
		"John Mullins"	31,054	15210	920	In working order
		Total	111,559	42,203	3,120	
2	Dredgers	Leanal iron dredger, double bucket-ladder side delivery	26,373	1705		Being converted into a flat-bottom Q.O. No 974 I of 155 tons. Therefore probable cost of upkeep is not given.
3		Leanal iron dredger, single bucket-ladder side delivery	15,395	1117	460	
4		Leanal iron dredger, single bucket-ladder, side delivery	30,437	3982	460	
5		"do" "do"	30,437	4434	460	
6		"do" "do"	30,437	2793	460	
7		Prioritons size B	31,097	3963	460	In working order
8		"do" "do" A.1	16,580	3371	460	
9		"do" "do" A.2	13,438	4310	460	
			16,120	8415	460	
		Total	210,314	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 there to.
- (2) Steam dredgers to be reduced 15 per cent every year, and the amount of special repairs, if any, must be added there to.

58 August 1898

Sanford
Board of Supervisors

McKimay
Executive Engineer
Godavari District

Return No. 24.

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

Part II. Barges, Boats and Punt.

Registered No.	Description of Barge	Value of Plant		Probable Present Cost of up-keep	Remarks.
		Original	Book value in 1897-98		

C.O.

85	Wooden flat	2722	1826	150	
86	do	2722	2167	150	See working order.
87	do	2722	1563	150	
88	do	2800	1736	150	Under repairs.
89	do	2800	2239	150	See good working order, lately repaired.
90	do	2800	1557	150	
91	do	2800	2325	150	
92	do	2800	1582	150	See working order.
93	do	2800	1566	150	
94	do	2405	1966	130	
95	do	2405	1799	130	See good working order, lately repaired.
99	do	2405	1927	130	
100	Iron double keel punt	4185	1043	110	
101	do	4185	1208	110	
104	do	4060	1309	110	
105	Iron punt	6960	2709	440	
12	Second class staff boat	820		150	
13	do	820		150	

See working order.

14	First class staff boat	1400		230	
15	Second class do	800		150	
16	First class do	1250		200	
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	17302	48525	69385	

A	Upper Godavari barge	3500	4347	340	
D	do	3500	3500	340	
E	do	3500	4283	340	

Total 10500 11930 1020

Carried over 18524 97186 10405

18524 97186 10405

18524 97186 10405

Return No. 24.
Statement of the Sprigabrook Sluicing Plant in the Goddard District showing the estimated cost of up-keep during the years 1897-98.
Part II. Barges, Boats and Pumps.

Remarks.

Dr. J. M. S. J. M. S.

5th August 1896.

Went Sept 2

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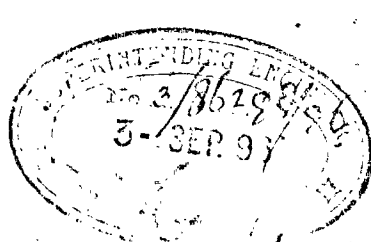
Mr. Chairman
Academy

Executive Enquiries
 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043

2/8/8

Details Approximate estimate of the Annual Maintenance of the Irrigation Floating plant Goswary District.

Particulars	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Boeking & laundry	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Painting	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Caulking	70	44	18	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Varnishing	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tarring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ropes &c	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Lances	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Stores	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Charges	60	66	37	60	28	27	10	5	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	75	70	150	230	150	190	140	60	110	130	130	170	20	16	35

[illegible]

FOR INFORMATION

9

Executive Engineers.
Gadaguri, Eastern, $\frac{Qu}{u}$

22 August 1896.

1888 Acadk

30/8

100

Public Works (1896) Department.

Receipt- 8738
CURRENT No. 1878

Order

From
The Supg Engineer
Phil. Circle

No. 1159 88

Dated 9. 5. 96

Received 30. 9. 96

Enclosures 3.

Spare copies

SUBJECT.

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

Dec-1
8738/56

140

140 3693 2041

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BACK PAPERS.

G.O.	No.	Department.	Date.
	9742	W	15-11-95
	8102	"	3-10-95

FURTHER PAPERS.

[illegible]

10

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 Gódvári 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
		<i>Irrigation.</i>	RS.	RS.	RS.	
	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		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	Dredger	Do. do. ..	30,437	4,836	460	
5		Do. do. ..	30,437	3,285	460	
6		Do. do. ..	31,097	4,662	460	In good working order, lately repaired.
		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.

6th August 1895.

(Signed) W. JONES,
Boat Superintendent.

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

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

No. 810 I., 3RD OCTOBER 1895.

STATEMENT of the irrigation floating plant in the Gódlávari 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.		Probable cost of upkeep in 1896-97.	Remarks.
		Original.	Present book value.		
Irrigation.					
1	Iron flat	Rs.	Rs.	Rs.	
3	Canal iron punt	6,243	1,693	140	In working order.
5	Do.	2,811	1,392	120	In good working order; lately repaired.
7	Do.	2,812	1,418	120	In working order.
10	Do.	2,812	1,653	120	
11	Do.	2,812	1,154	120	Now working at Dumagudem.
13	Iron dredge punt	2,812	1,262	120	
15	Canal iron punt	2,310	1,118	75	In working order.
17	Do.	2,812	1,006	120	
18	Iron dredge punt	2,812	1,846	120	Under repairs.
20	Canal iron punt	2,310	629	75	
21	Iron dredge punt	2,812	1,021	120	In working order.
22	Do.	2,310	891	75	
25	Canal iron punt	2,310	616	75	In working order.
27	Do.	2,811	1,161	120	
30	Do.	2,811	1,242	120	In good working order; lately repaired.
31	Do.	2,811	1,442	120	
34	Iron flat	2,811	1,319	120	Now working at Dumagudem.
36	Canal iron punt	4,693	1,867	130	
37	Do.	2,812	914	120	In working order.
38	Do.	2,812	1,402	120	
39	Do.	2,812	1,233	120	In good working order; lately repaired.
40	Iron deep boat	2,812	801	120	
44	Wooden deep boat	4,893	2,323	190	In working order.
47	Do.	2,330	2,276	170	
48	Do.	2,000	2,719	170	In good working order; lately repaired.
49	Do.	2,000	2,612	170	
50	Do.	2,000	2,642	170	Under repairs.
65	Iron light boat	2,117	1,943	170	
66	Do.	1,000	751	70	In working order.
67	Do.	1,000	1,233	70	
68	Do.	1,000	833	70	In good working order; lately repaired.
69	Do.	1,000	764	70	
70	Do.	1,000	792	70	In working order.
71	Do.	1,000	628	70	
72	Do.	1,433	765	70	In good working order; lately repaired.
74	Do.	1,433	710	70	
75	Do.	1,000	728	70	In working order.
77	Wooden light boat	1,000	693	70	
81	Iron flat	750	495	75	In good working order; lately repaired.
82	Wooden flat	7,375	1,832	140	
83	Do.	2,722	1,975	150	In good working order; lately repaired.
84	Do.	2,722	2,254	150	
85	Do.	2,722	2,030	150	In working order.
86	Do.	2,722	2,028	150	
87	Do.	2,722	2,407	150	In good working order; lately repaired.
88	Do.	2,722	1,736	150	
89	Do.	2,800	1,928	150	In working order.
90	Do.	2,800	1,989	150	
91	Do.	2,800	1,730	150	Now working at Dumagudem.
92	Do.	2,800	2,683	150	
93	Do.	2,800	1,759	150	In good working order; lately repaired.
94	Do.	2,800	1,740	150	
95	Do.	2,405	1,694	130	In working order.
99	Do.	2,405	1,998	130	
100	Iron double trap punt	2,405	2,141	130	In working order.
101	Do. do.	4,185	1,158	110	
104	Do. do.	4,185	1,342	110	In working order.
105	Iron punt	4,060	1,454	110	
12	Second-class staff boat	6,960	3,010	140	In working order.
13	Do. do.	820	..	150	
14	First-class staff boat	820	..	150	In working order.
15	Second-class staff boat	1,400	..	230	
16	First-class staff boat	800	..	150	In working order.
17	Second-class staff boat	1,250	..	230	
18	First-class staff boat	850	..	150	In working order.
19	Second-class staff boat	1,400	..	230	
20	First-class staff boat	850	..	150	In working order.
21	Second-class staff boat	1,400	..	230	
22	First-class staff boat	840	..	150	In working order.
23	Second-class staff boat	1,783	894	230	
		1,790	1,336	230	
	Total	..	..	9,885	

No. 810 I., 3RD OCTOBER 1895.

Statement of the irrigation floating plant in the Gódlávari 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.		Probable cost of upkeep in 1896-97.	Remarks.
		Original	Present book value.		
Irrigation—cont.					
A D E	Upper Gódlávari barge	Rs. 3,500	Rs. 4,829	Rs. 340	} In working order.
	Do.	3,500	3,888	340	
	Do.	3,500	4,536	340	
	Total	..	..	1,020	
2	Jolly boat	165	160	20	} In good working order; lately repaired.
3	Do.	340	233	16	
4	Do.	165	173	20	
5	Do.	Unknown.	..	16	
6	Do.	300	190	35	} In working order.
7	Survey Nava	300	146	35	
8	Do.	Unknown.	..	60	
8	Jolly boat of steam-tug "John Mullins."	Unknown.	..	60	
	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.

6th August 1895.

(Signed) W. JONES,
Boat Superintendent.

17867
 1747
 4607

Detailed approximate estimate of the annual cost of maintenance of the irrigation floating plant, Gódávári district.

Particulars.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Docking and launching	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Painting	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Caulking	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Varnishing	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tarring	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ropes, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lascars	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Small stores	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
General charges	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sundry repairs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	860	910	430	920	460	340	120	75	75	75	70	150	230	150	190	140	60	110	130	130	170	20	16	35	35

9th August 1895.

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

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

ABSTRACT showing the comparison of details between the estimated maintenance cost of floating plant in the Gódávári 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.
Steamers	4	4	Rs. 1,11,559	Rs. 1,11,559	Rs. 45,753	Rs. 50,544	Rs. 3,120	Rs. 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 Gódávári 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	630	630
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. 4, 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, Gódávári Eastern Divn.

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

The estimate of the cost of upkeep of the floating plant of the Gódávári 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.
Spare Copies

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.

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 irreparable.

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 Gódávári 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.

FOR IRRIGATION.
26 NOV. 95
No. 910 M.

IRRIGATION.
ACCOUNT.

Govt. of {1895} Madras.
PUBLIC WORKS.

Dated November, 15th.

Recd.

Encl.

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

NOVEMBER.

Dredger

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