Public Works (1899) Department.

G.O., No. 468 S

DATED 5 June 1899

1899

[Despatch Abstract.]

Floating plant of the Kistna Delta System.

Restimate of the cost of maintaining the —, approved, with remarks.

100/4

7.8.9.

[P. W. 25. 250—27-4-99.]

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
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## FURTHER PAPERS.

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IRRIGATION.
ACCOUNT.

# Government {1899} of Madras.

## PUBLIC WORKS.

*Recd.* } 1899. *Enclosures*

*Regd.* *Spare copies*

**G.O., No. 468 I., 5th June 1899.**

**JUNE.**

**Floating plant of the Kistna Delta System**

Estimate of the cost of maintaining the —, approved, with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From the Superintending Engineer, II Circle, dated 17th February 1899, No. 63 I.
To the " " II " " 27th " " " II/37 K.S.
From the " " II " " 18th April " " " 126 I.

ENCLOSURES.

STATEMENT of Irrigation Floating Plant in the Kistna District showing the estimated cost of upkeep during the year 1899–1900.

| Register Number. | Details of plant. | Value of plant. | | Probable cost of upkeep for 1899–1900. | Remarks. |
|---|---|---|---|---|---|
| | | Original value. | Present book value. | | |
| | *Part I.—Steamers and Steam Dredges.* | Rs. | Rs. | Rs. | |
| 1 | Steamer *Alexandra* | 14,125 | 748 | 760 | In fair order, boiler recently retubed and machinery shanked. |
| 2 | Special repairs .. | .. | 1,000 | 200 | |
| | Steamer *Wenlock* | | | 1,500 | New, slight alteration will be required. |
| 3 | Special repairs .. | Not yet completed. | | 300 | |
| | Steamer *Havelock* | | | 1,500 | Do. |
| | Special repairs .. | | | 200 | |
| | Total .. | 14,125 | 1,748 | 4,460 | |
| 1 | Dredge steam .. | .. | .. | 3,760 | |
| | Special repairs .. | .. | .. | 700 | |
| 2 | Dredge steam .. | 15,614 | 8,272 | 152 | In fair working order, only ordinary repairs will be required for the first two and a small amount of special repairs for No. 5. |
| | Special repairs .. | .. | .. | | |
| 5 | Dredge steam .. | 15,614 | 8,348 | .. | |
| | Special repairs .. | .. | .. | 630 | |
| 1 | Cockburn's dredge | 30,439 | 100 | .. | |
| | Special repairs .. | .. | 19,361 | 870 | |
| 2 | Cockburn's dredge | 7,333 | 200 | 200 | |
| | Special repairs .. | .. | 3,597 | 500 | In good order. |
| 3 | Cockburn's dredge | Not yet completed. | | .. | |
| | Special repairs .. | | | 450 | New. |
| | Total .. | | | 450 | |
| 1 | Scouring dam .. | 69,000 | 40,378 | 3,252 | |
| | Special repairs .. | No. 6 iron punt converted. | | 300 | |
| 2 | Scouring dam .. | .. | .. | .. | |
| | Special repairs .. | .. | .. | 300 | In good working order. |
| 3 | Scouring dam, double .. | .. | .. | .. | |
| | Special repairs .. | .. | .. | 600 | |
| | Total .. | .. | .. | .. | |
| | Annual maintenance .. | .. | .. | 4,452 | |
| | Special repairs .. | .. | .. | 4,252 | |
| | Total .. | .. | .. | 200 | |
| | | .. | .. | 4,452 | |



STATEMENT of Irrigation Floating Plant in the Kistna District, &c.—*cont.*

| Register Number. | Details of plant. | Value of plant. | | Probable cost of upkeep for 1899–1900. | Remarks. |
|---|---|---|---|---|---|
| | | Original value. | Present book value. | | |
| | *Part II.—Boats and Punts.* | Rs. | Rs. | Rs. | |
| 1 | Iron punt .. | 2,812 | 1,140 | 245 | In fair order. |
| | Special repairs .. | .. | .. | 100 | |
| 2 | Iron punt .. | 2,811 | 156 | 245 | In good order. |
| | Special repairs .. | .. | .. | .. | |
| 3 | Iron punt .. | 2,812 | 661 | 245 | In fair order. |
| | Special repairs .. | .. | .. | 100 | |
| 4 | Iron punt .. | 2,812 | 1,751 | 245 | Do. |
| | Special repairs .. | .. | 250 | 100 | |
| 5 | Iron punt .. | 2,812 | 531 | 245 | |
| | Special repairs .. | .. | .. | 100 | Do. |
| 7 | Iron punt .. | 2,812 | 531 | 245 | Do. |
| | Special repairs .. | .. | .. | 200 | For repairs to hull. |
| 8 | Iron punt .. | 2,812 | 1,396 | 245 | |
| | Special repairs .. | .. | .. | 400 | Do. |
| 9 | Iron punt .. | 2,812 | 1,359 | 245 | In fair order. |
| | Special repairs .. | .. | .. | 100 | |
| 10 | Iron punt .. | 2,812 | 659 | 245 | In working order, but requires a considerable amount of repair. |
| | Special repairs .. | .. | .. | 400 | |
| 11 | Iron punt .. | 2,811 | 1,259 | 245 | In fair order. |
| | Special repairs .. | .. | .. | 200 | |
| 12 | Iron punt .. | 2,811 | 530 | 245 | Do. |
| | Special repairs .. | .. | .. | 100 | |
| 13 | Iron punt .. | 2,811 | 1,874 | 245 | In working order, but hull weak. |
| | Special repairs .. | .. | 600 | 100 | |
| 14 | Iron punt .. | 2,811 | 938 | 245 | In fair order. |
| | Special repairs .. | .. | 600 | 200 | Requires patching. |
| 15 | Iron punt .. | 2,811 | 886 | 245 | Do. |
| | Special repairs .. | .. | .. | 100 | |
| 16 | Iron punt .. | 3,610 | 1,527 | 170 | Do. |
| | Special repairs .. | .. | .. | 100 | |
| 18 | Iron punt .. | 2,186 | 1,022 | 245 | Do. |
| | Special repairs .. | .. | 600 | 100 | |
| 19 | Iron punt .. | 2,185 | 918 | 245 | |
| | Special repairs .. | .. | .. | .. | |
| 20 | Iron punt .. | 2,172 | 1,746 | 245 | |
| | Special repairs .. | .. | .. | 100 | |
| 21 | Iron punt .. | 2,172 | 961 | 245 | |
| | Special repairs .. | .. | .. | 100 | |
| 22 | Iron punt .. | 2,172 | 562 | 245 | |
| | Special repairs .. | .. | .. | .. | In fair order, but some require a few plates to be renewed. |
| 23 | Iron punt .. | 3,951 | 1,153 | 245 | |
| | Special repairs .. | .. | .. | 150 | |
| 24 | Iron punt .. | 2,172 | — 45 | 245 | |
| | Special repairs .. | .. | .. | .. | |
| 25 | Iron punt .. | 4,091 | — 287 | 245 | |
| | Special repairs .. | .. | .. | 100 | |
| 26 | Iron punt .. | 2,299 | 319 | 245 | |
| | Special repairs .. | .. | .. | .. | |
| 27 | Iron punt .. | 5,916 | 596 | 245 | |
| | Special repairs .. | .. | .. | 700 | Have been at work throughout the year, but require extensive repair. |
| 28 | Iron punt .. | 1,584 | 484 | 190 | |
| | Special repairs .. | .. | .. | 800 | |
| 29 | Iron punt .. | 1,524 | 805 | 190 | |
| | Special repairs .. | .. | .. | 100 | |
| 30 | Iron punt .. | 1,524 | — 20 | 190 | |
| | Special repairs .. | .. | .. | 200 | |
| 31 | Iron punt .. | 2,181 | 238 | 190 | In fair order, but require patching. |
| | Special repairs .. | .. | .. | 200 | |
| 32 | Iron punt .. | 1,960 | 524 | 190 | |
| | Special repairs .. | .. | .. | 100 | |
| 33 | Iron punt .. | 1,960 | 130 | 190 | |
| | Special repairs .. | .. | .. | 100 | |
| 34 | Iron punt .. | 1,960 | 376 | .. | Condemned. |
| | Special repairs .. | .. | .. | .. | |
| 35 | Iron punt .. | 400 | 160 | 190 | In good order. |
| | Special repairs .. | .. | .. | .. | |
| 36 | Iron punt .. | 400 | 159 | 190 | In working order but hull weak. |
| | Special repairs .. | .. | .. | 100 | |
| 37 | Iron punt .. | 250 | 100 | 190 | In good order. |
| | Special repairs .. | .. | .. | .. | |
| 38 | Iron punt .. | 1,400 | 440 | 190 | In working order, but requires renewals of frame and plates here and there. |
| | Special repairs .. | .. | .. | 200 | |
| 41 | Iron punt .. | 4,063 | 396 | 265 | In good order, but requires patching. |
| | Special repairs .. | .. | .. | 100 | |

## 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 1899-1900. | Remarks. |
|---|---|---|---|---|---|
| | *Part II.—Boats and Punts*—cont. | Rs. | Rs. | Rs. | |
| 42 | Iron punt | 4,171 | 915 | 265 | In good order, but requires patching. |
| | Special repairs .. | .. | .. | 100 | |
| 43 | Iron punt | 4,242 | 376 | 265 | |
| | Special repairs .. | .. | .. | 200 | To complete again began this year. |
| 77 | Iron punt | 4,430 | 3,987 | 245 | |
| | Special repairs .. | .. | .. | .. | |
| 78 | Iron punt | 4,440 | 3,996 | 245 | In good order. |
| | Special repairs .. | .. | .. | .. | |
| | Total .. | 1,08,777 | 37,259 | 9,235 | |
| | Maintenance and repairs | .. | .. | 5,750 | |
| | Special repairs .. | .. | .. | .. | |
| | Total .. | .. | .. | 9,235 | |
| | | .. | .. | 5,750 | |
| 17 | Circular trap punt | .. | .. | 14,985 | |
| 39 | Iron punt, small | 1,200 | .. | .. | |
| 40 | Trap punt, iron | 250 | 75 | .. | Out of use, good order. |
| | Special repairs .. | 3,652 | 1,092 | 50 | |
| | Anicut paddle boat | .. | .. | 220 | Deck requires much repairs. |
| | Special repairs .. | 900 | 368 | 300 | |
| | Anicut pinnace | .. | .. | 150 | In good order, requires re-painting. |
| | Special repairs .. | 224 | 235 | .. | |
| | Superintending Engineer's dinghy | .. | .. | 55 | In good order. |
| | Special repairs .. | 265 | 239 | .. | |
| | Dredge pinnace | .. | .. | 20 | In fair order. |
| | Special repairs .. | 300 | 270 | .. | |
| | Executive Engineer's pinnace | .. | .. | 50 | Requires repair. |
| | Special repairs .. | 162 | 146 | 50 | |
| 2 | Anicut paddle boat (new) | .. | .. | 25 | In good order, requires mast and sail. |
| | Pinnaces newly constructed | Not yet completed. | | .. | |
| | | .. | .. | 50 | |
| | Total .. | 6,953 | 2,465 | 30 | |
| | Maintenance .. | .. | .. | 1,000 | |
| | Special repairs .. | .. | .. | 650 | |
| | Total .. | .. | .. | 350 | |
| 44 | Composite punt | .. | .. | 1,000 | |
| 45 | Special repairs .. | 2,500 | 1,004 | 300 | |
| | Composite punt | .. | .. | 360 | In working order, but require renewals of planking and frames in places. |
| 46 | Special repairs .. | 2,500 | 985 | 300 | |
| | Composite punt | .. | .. | 300 | |
| 47 | Special repairs .. | 2,500 | 985 | 300 | |
| | Composite punt | .. | .. | 100 | In fair order. |
| 48 | Special repairs .. | 2,288 | 602 | 300 | |
| | Composite punt | .. | .. | 100 | |
| 49 | Special repairs .. | 2,287 | 1,136 | 300 | In good order. |
| | Composite punt | .. | 50 | .. | |
| 50 | Special repairs .. | 2,287 | 814 | 300 | In working order, requires renewals of frames. |
| | Composite punt | .. | .. | 200 | |
| 51 | Special repairs .. | 2,160 | 572 | 300 | In fair order. |
| | Composite punt | .. | .. | 100 | |
| 52 | Special repairs .. | 2,160 | 61 | 300 | |
| | Composite punt | .. | .. | 100 | Do. |
| 53 | Special repairs .. | 2,160 | 512 | 300 | |
| | Composite punt | .. | .. | 100 | Do. |
| 54 | Special repairs .. | 2,055 | 788 | 300 | |
| | Composite punt | .. | 1,082 | 300 | Renewals of woodwork. |
| 55 | Special repairs .. | 1,900 | 34 | 300 | In good order. |
| | Composite punt | .. | −49 | .. | |
| 56 | Special repairs .. | 2,013 | 50 | 300 | Do. |
| | Composite punt | .. | 339 | .. | |
| 57 | Special repairs .. | 4,075 | .. | 300 | In fair order. |
| | Composite punt | .. | −38 | 100 | |
| 58 | Special repairs .. | 2,085 | .. | 300 | Do. |
| | Composite punt | .. | 102 | .. | |
| 59 | Special repairs .. | 2,156 | 232 | 300 | |
| | Composite punt | .. | 650 | .. | |
| 60 | Special repairs .. | 2,065 | .. | 300 | In good order. |
| | | .. | 445 | .. | |
| | | .. | 66 | 300 | |



## 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 1899-1900. | Remarks. |
|---|---|---|---|---|---|
| | *Part II.—Boats and Punts*—cont. | Rs. | Rs. | Rs. | |
| | | 2,168 | 518 | 300 | In good order. |
| 61 | Composite punt | .. | .. | .. | Requires bracing inside. |
| | Special repairs .. | 2,169 | 519 | 300 | |
| 62 | Composite punt | .. | 35 | 200 | |
| | Special repairs .. | 2,164 | 574 | 300 | In good order. |
| 63 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 2,266 | 587 | 300 | In working order, but weak. |
| 64 | Composite punt | .. | .. | 500 | |
| | Special repairs .. | 2,238 | 152 | 300 | In good order. |
| 65 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 3,000 | 1,854 | 330 | Has been worked through the year, but is in bad order. |
| 66 | Composite punt | .. | .. | 900 | |
| | Special repairs .. | 3,000 | 2,062 | 330 | In working order, requires renewals to frames. |
| 67 | Composite punt | .. | 34 | 200 | |
| | Special repairs .. | 3,000 | 798 | 330 | |
| 68 | Composite punt | .. | .. | .. | In good order. |
| | Special repairs .. | 2,600 | 1,744 | 330 | |
| 69 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 2,600 | 1,097 | 330 | Requires repair. |
| 70 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 2,600 | 1,109 | 330 | |
| 71 | Composite punt | .. | 55 | 300 | |
| | Special repairs .. | 2,600 | 1,458 | 330 | |
| 72 | Composite punt | .. | 330 | .. | |
| | Special repairs .. | 2,600 | 1,108 | 330 | |
| 73 | Composite punt | .. | .. | .. | In good order. |
| | Special repairs .. | 2,600 | 1,577 | 330 | |
| 74 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 3,811 | 551 | 330 | |
| 75 | Composite punt | .. | .. | .. | |
| | Special repairs .. | 2,553 | 1,197 | 330 | |
| 76 | Composite punt | .. | .. | .. | |
| | Special repairs .. | .. | .. | .. | |
| | Total .. | 81,319 | 27,781 | 10,230 | |
| | | .. | .. | 3,800 | |
| | Maintenance .. | .. | .. | 10,230 | |
| | Special repairs .. | .. | .. | 3,800 | |
| | Total .. | .. | .. | 14,030 | |
| 11 | Staff boat | 1,621 | 259 | 200 | In repairs to hull. |
| | Special repairs .. | .. | .. | 100 | In fair order. |
| 12 | Staff boat | 1,621 | 917 | 190 | |
| | Special repairs .. | .. | .. | .. | Do. |
| 14 | Staff boat | 1,355 | 679 | 160 | |
| | Special repairs .. | .. | .. | .. | Requires extensive repair to hull. |
| 15 | Staff boat | 1,898 | 1,571 | 190 | |
| | Special repairs .. | .. | .. | 400 | In good order. |
| 16 | Staff boat | 1,556 | 200 | 160 | |
| | Special repairs .. | .. | 50 | .. | Do. |
| 17 | Staff boat | .. | 116 | 160 | |
| | Special repairs .. | 990 | .. | .. | In good order. |
| 18 | Staff boat | .. | .. | 190 | |
| | Special repairs .. | 2,486 | 1,586 | .. | Do. |
| 19 | Staff boat | .. | 25 | 160 | |
| | Special repairs .. | 1,815 | 1,244 | .. | In good order. |
| 20 | Staff boat | .. | 50 | 100 | |
| | Special repairs .. | 2,271 | 1,572 | .. | Do. |
| 21 | Staff boat | .. | 150 | 160 | |
| | Special repairs .. | 1,721 | 1,183 | .. | New, in good order. |
| 22 | Staff boat | .. | .. | 160 | |
| | Special repairs .. | Not yet completed. | | .. | A bad boat, should be condemned. |
| | Superintending Engineers' Camp Clerks boat. | .. | .. | .. | |
| | Special repairs .. | .. | .. | 1,830 | |
| | Total .. | .. | .. | 500 | |
| | | 17,334 | 9,602 | | |
| | Maintenance .. | .. | .. | 1,830 | |
| | Special repairs .. | .. | .. | 500 | |
| | Total .. | .. | .. | 2,330 | |

ABSTRACT showing the comparison of details between the estimated and maintenance cost of Floating Plant in the Kistna district for 1898–99 and 1899–1900.

| | Numbers | | Original value. | | Present book value. | | Cost of upkeep. | |
|---|---|---|---|---|---|---|---|---|
| | 1899–1900. | 1898–99. | 1899–1900. | 1898–99. | 1899–1900. | 1898–99. | 1899–1900. | 1898–99. |
| | | | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Steamers .. .. | 3 | 3 | 14,125 | 14,125 | 1,748 | 2,160 | 4,460 | 3,854 |
| Dredges .. .. .. | 6 | 6 | 69,000 | 69,000 | 40,378 | 4,637 | 3,252 | 3,852 |
| Scouring dams .. .. | 3 | 3 | .. | .. | .. | .. | 1,200 | 1,000 |
| Composite punts .. .. | 33 | 33 | 81,319 | 81,319 | 27,781 | 23,823 | 14,030 | 12,730 |
| Iron punts .. .. | 41 | 41 | 1,08,777 | 1,08,777 | 37,259 | 41,523 | 14,985 | 12,735 |
| Miscellaneous plant .. | 10 | 8 | 5,753 | 6,953 | 2,465 | 4,085 | 1,000 | 1,245 |
| Staff boats .. .. | 11 | 11 | 17,334 | 17,693 | 9,602 | 10,885 | 2,330 | 2,340 |
| *Add*—as per separate estimate for probable expenses for use of Steamer *Havelock* by departmental officers. | .. | .. | .. | .. | .. | .. | 750 | 750 |
| | 107 | 105 | 2,96,308 | 2,97,867 | 1,19,233 | 87,113 | 42,007 | 38,506 |
| Maintenance .. .. | .. | .. | .. | .. | .. | .. | 30,707 | 29,900 |
| Special repairs .. .. | .. | .. | .. | .. | .. | .. | 11,300 | 8,600 |
| Total .. | .. | .. | .. | .. | .. | .. | 42,007 | 38,500 |

DETAIL approximate estimate of the annual cost of maintenance of Irrigation Floating Plant in the Kistna district during the official year 1899–1900.

| | Steamer *Alexandra*. | Steamer *Wenlock*. | Steamer *Havelock*. | No. 1 dredge. | No. 2 dredge. | No. 5 dredge. | Scouring dam, No. 1. | Scouring dam, No. 2. | Scouring dam, No. 3. | Cockburn's dredge, No. 1. | Cockburn's dredges, Nos. 2 & 3 at Rs. 450 each. | Iron punts Nos. 1 to 15, 18 to 27, 77 and 78 at Rs. 245 each. | Iron punt, No. 16. | Iron punts. Nos. 28 to 33, and 35 to 38 at Rs 190 each. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Docking and launching .. | 30 | 40 | 40 | .. | 16 | 16 | 15 | 15 | 30 | 16 | 16 | 15 | 8 | 15 |
| Painting .. .. | 84 | 150 | 150 | .. | 42 | 70 | 32 | 32 | 64 | 32 | 32 | 32 | 23 | 28 |
| Caulking .. .. | 28 | .. | .. | 72 | 22 | 90 | 38 | 38 | 76 | 33 | 33 | 33 | 25 | 22 |
| Tarring .. .. | .. | .. | .. | .. | 33 | 25 | 16 | 16 | 32 | 16 | 16 | 16 | 11 | 10 |
| Stokers .. .. | 36 | 190 | 190 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Searing .. .. | 75 | 240 | 240 | .. | 53 | 53 | .. | .. | .. | .. | .. | .. | .. | .. |
| Lascars .. .. | 107 | 290 | 290 | 80 | 80 | 90 | 4 | 4 | 8 | 64 | 64 | 4 | 4 | 4 |
| Ropes, &c. .. | 15 | 100 | 100 | .. | 8 | 8 | 60 | 60 | 120 | 8 | 8 | 5 | 5 | 5 |
| Sundry repairs .. .. | 200 | 250 | 250 | .. | 282 | 389 | 94 | 94 | 188 | 268 | 218 | 94 | 65 | 73 |
| Miscellaneous .. .. | 50 | .. | .. | .. | 14 | 14 | .. | .. | .. | 13 | 13 | 41 | .. | .. |
| Centage and contingencies. | 135 | .. | .. | .. | 80 | 115 | 41 | 41 | 82 | 50 | 50 | .. | 29 | 33 |
| Engine driver .. .. | .. | 240 | 240 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Total .. | 760 | 1,500 | 1,500 | 152 | 630 | 870 | 300 | 300 | 600 | 500 | 450 | 245 | 170 | 190 |

| | Iron punt, No. 39, small. | Iron punt Nos. 40 to 43 at Rs. 265 each. | Trap punt. No. 40. | Composite punt Nos. 44 to 65 at Rs. 300 each. | Composite punts Nos. 66 to 76 at Rs. 330 each. | Anicut paddle boat. | Anicut pinnace. | Staff boat, No. 11. | Staff boat, Nos. 12, 15 and 18 at Rs. 190 each. | Staff boat, Nos. 14, 16, 17, 19 and 21, 22 at Rs 160 each. | Staff boat, No. 20. | Dredge pinnace, Executive Engineer's pinnace, Superintending Engineer's dinghy boat and anicut paddle boat and pinnaces. | Use of steamers by departmental officers, Kistna Eastern division. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| Docking and launching .. | 8 | 15 | 15 | 24 | 24 | 6 | 5 | 15 | 15 | 10 | 10 | | |
| Painting .. .. | 14 | 45 | 47 | .. | .. | 33 | 9 | .. | .. | .. | .. | | |
| Caulking .. .. | .. | 40 | 25 | 99 | 107 | 28 | 14 | 66 | 66 | 55 | 26 | | |
| Tarring .. .. | 6 | 21 | 20 | .. | .. | 3 | 3 | 10 | 10 | 8 | 5 | | |
| Stokers .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Searing .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Lascars .. .. | 4 | 4 | 24 | 8 | 8 | 4 | .. | 21 | 21 | 21 | 21 | Lump sum. | Lump sum. |
| Ropes, &c. .. .. | 4 | 5 | 5 | 5 | 5 | 5 | 2 | 12 | 12 | 10 | 12 | | |
| Sundry repairs .. | 5 | 90 | 46 | 110 | 129 | 44 | 12 | 42 | 32 | 30 | 12 | | |
| Miscellaneous .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Centage and contingencies. | 9 | 45 | 38 | 54 | 57 | 27 | 10 | 34 | 34 | 26 | 14 | | |
| Engine driver .. .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| Total .. | 50 | 265 | 220 | 300 | 330 | 150 | 55 | 200 | 190 | 160 | 100 | 175 | 750 |



No. 106.

*Note by the Chief Engineer for Irrigation.*

The accompanying statements submitted by the Superintending Engineer, II Circle, show the estimated cost of maintenance of the floating plant of the Kistna delta system for the current official year. The estimate amounts to Rs. 42,007, or Rupees 3,507 more than that for the last year, as special repairs to most of the composite and iron punts are found necessary. The estimate may be approved.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

10th May 1899.

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ORDER—No. 468 I., dated 5th June 1899.

The estimate of the cost of maintaining the floating plant of the Kistna delta system is approved; the proposed outlay will be met from the provision of Rs. 47,330 made in the final issue of the budget estimates for 1899–1900, under 42. Major Works (Working Expenses), "tools and plant," Kistna delta system.

(True Extract.)

Under Secretary to Government,
Irrigation Branch.

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

Exd. T. Lutchimiah Naidu.

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Annual Floating Plant Estimate of the Kistna Delta for 1899-1900.

63.

From the Supdg: Engineer II Circle – No. 64. dy 17th Feb: 1899.

To the ~~—~~ do ~~—~~ No. II/37R., dy 27th Feb: 1899.

From the ~~—~~ do ~~—~~ No. 126. & dy 18th April 1899.
No 106 dy 10 & 17.

Note by the Chief Engineer for Irrigation

The accompanying statements submitted by the Supdg: Engineer II circle, show the estimated cost of maintenance of the floating plant of the Kistna delta system for the current official year. The estimate amounts to Rs 42,007, or Rs 3507 more than that for the last year, as ~~owing to~~ chiefly to the ~~necessity~~ ~~of providing funds for~~ special repairs to most of the composite and iron ~~pontoons~~ pontoons found necessary. The estimate may

approved.

Order thereon. No: 4682 dt 25-6-99

The estimate of the cost of maintaining the floating plant of the Kistna delta system is approved; the proposed outlay will be met from the provision of Rs. 47,330 made in the final issue of the budget estimates for 1899-1900, under 42. Major Works ~~for the Kistna delta system~~ (Working Expenses), "tools and plant," ~~under~~ Kistna Delta system.

J.H. 10/5/99

W.H. 14.5.99

A.E.H. 29.5.99

To,
The Chief Engineer for Irrign:
" Supdg:—do—II Circle
" Examiner P.W. Accounts

Please arrange for cost of work

1,000—21-4-98.

# Public Works (1899) Department.

CURRENT No. 94 K.S

From The Superintending Engineer II circle

Order

No. 126 I

Dated 18th April 1899

Received 21—do—

Registered

Enclosures

Spare copies

## SUBJECT.

Increase of Grant under 42 Revenue Account Tools and Plant in the Budget for 1899-1900 for outlay in the Kistna Eastern Division.

Informs that no ____ is necessary.

J.E.I.

D.P.

Please frame preliminary budget G.O. no 195 D. 8/23/2/99

Herewith 25/4/99

21/4/99

BACK PAPERS.

| No. | Date. |
|---|---|
| 137 K.S. | 27. 2. 99. |

FURTHER PAPERS.

| No. | Date. |
|---|---|
| | |

Statement of Irrigation
& Floating Plant in the District
of Kistna showing the estimated
cost of up keep during the year
1899-1900.

SURVEY 1/417 K.S.
15 DEC. 9
GEOG.

CHIEF ENGINEER
FOR IRRIGATION
20 FEB. 1899
1/48. K.S.

Dis
the

Registered Number

1

2

3

# Public Works (1899) Department.

CURRENT No. 4419

From the Chief Engr for Irrign

Order

No. 1069

Dated 10 May 99

Received

Registered 3.6.99

Enclosures 4

Spare copies.

SUBJECT.

Floating plant of the Kistna Delta System - Estimate of the cost of maintaining the - 1899-90 - State recommending for approval the —

289

C.S.

BACK PAPERS.

| No. | Date. |
|---|---|
| | |

FURTHER PAPERS.

| No. | Date. |
|---|---|
| | |

Statement of Irrigation Floating Plant in the Kistna District showing the estimated cost of up keep during the year 1899-1900.

| Register Number | Details of Plant. | Value of Plant: Original value | Value of Plant: Present book value | Probable cost of up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part I. Steamers and Steam Dredges. | | | | |
| 1 | Steamer Alexandra | 14125 | 1748 | 1760 | In fair order boiler recently retubed & machinery |
| | Special repairs. | - | 1000 | 200 | |
| 2 | Steamer Wenlock | - | - | 1500 | New slight alteration |
| | Special repairs | Not yet completed | | 300 | will be required |
| 3 | Steamer Havelock | | | 1500 | Do. |
| | Special repairs | - | - | 200 | |
| | Total | 14125 | 1748 | 4460 | |
| | Maintenance | - | - | 3760 | |
| | Special repairs | - | - | 700 | |
| 1 | Dredge steam | 15614 | 8272 | 152 | In fair working order only ordinary repairs will be required for the first 2 — a small amount of special repairs for the 5. |
| | Special repairs | - | - | - | |
| 2 | Dredge Steam | 15614 | 8348 | 630 | |
| | Special repairs | - | 100 | - | |
| 5 | Dredge Steam | 30439 | 19361 | 870 | |
| | Special repairs | - | 200 | 200 | |
| 1 | Cock burns dredge | 7333 | 3594 | 500 | In good order |
| | Special repairs | - | 600 | - | |
| 2 | Cock burns dredge | - | - | 450 | New |
| | Special repairs | Not yet completed | | - | |
| 3 | Cock Burns dredge | | | 450 | |
| | Special repairs | - | - | - | |
| | Total | 69000 | 40378 | 3252 | |

Statement of Irrigation Floating Plant in the Ventura District &c. (contd).

| Register Number | Details of Plant | Value of plant: Original value | Value of plant: present book value | Probable cost of up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Brought forward | - | - | 3252 | |
| 1 | Scouring dam | (No 6 Iron punt | | 300 | |
| 2 | Special repairs | connected) | | | |
| 2 | Scouring dam | - | - | 300 | In good working order |
| | Special repairs | | | | |
| 3 | Scouring dam double | - | - | 600 | |
| | Special repairs | | | - | |
| | Total | | | 4452 | |
| | Annual maintenance | - | - | 4252 | |
| | Special repairs | - | - | 200 | |
| | Total | - | - | 4452 | |
| | Part II Boats and Punts. | | | | |
| 1 | Iron punt | 2812 | 1140 | 245 | In fair order |
| | Special repairs | - | - | 100 | |
| 2 | Iron Punt | 2811 | 156 | 245 | In good order |
| | Special repairs | - | - | - | |
| 3 | Iron Punt | 2812 | 661 | 245 | In fair order |
| | Special repairs | | | 00 | |
| 4 | Iron Punt | 2812 | 1751 | 245 | do. |
| | Special repairs | - | 250 | 100 | |
| 6 | Iron Punt | 2812 | 531 | 245 | |
| | Special repairs | - | - | 100 | - do. |
| 7 | Iron Punt | 2812 | 531 | 245 | - do. |
| | Special repairs | - | - | 200 | In repair to hull |
| 8 | Iron punt | 2812 | 1396 | 245 | |
| | Special repairs | - | - | 400 | - do. |
| | | 19683 | 6416 | 1715 | |
| | | | | 1000 | |

Statement of Irrigation Floating Plant in the Ventura District &c (contd)

| Register Number | Details of Plant | Value of plant: Original value | Value of plant: present book value | Probable cost of up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part II Boats and Punts | | | | |
| | Brought forward | 19683 | 6416 | 1715 | |
| 9 | Iron punt | 2812 | 1359 | 245 | In fair order. |
| | Special repairs | - | - | 100 | |
| 10 | Iron Punt | 2812 | 659 | 245 | In working order but requires a considerable amount of repair |
| | Special repairs | - | - | 400 | |
| 11 | Iron punt | 2811 | 1259 | 245 | In fair order. |
| | Special repairs | - | - | 200 | |
| 12 | Iron Punt | 2811 | 530 | 245 | do. |
| | Special repairs | - | - | 100 | |
| 13 | Iron Punt. | 2811 | 1874 | 245 | In working order but hull weak. |
| | Special repairs | - | 600 | 100 | |
| 14 | Iron punt | 2811 | 938 | 245 | In fair order |
| | Special repairs | - | 600 | 200 | Requires patching |
| 15 | Iron punt | 2811 | 886 | 245 | do. |
| | Special repairs | - | - | 100 | |
| 16 | Iron punt | 3610 | 1527 | 170 | do. |
| | Special repairs | - | - | 100 | |
| 18 | Iron Punt | 2186 | 1022 | 245 | do. |
| | Special repairs | - | 600 | 100 | |
| 19 | Iron punt | 2185 | 918 | 245 | |
| | Special repairs | - | - | - | |
| 20 | Iron punt | 2172 | 1746 | 245 | |
| | Special repairs | - | - | 100 | |
| | | 49515 | 20934 | 4335 | |
| | | | | 2500 | |

Statement of Irrigation Floating Plant in the Kistna District &c (contd.)

| Register Number | Details of Plant | Value of Plant: Original value | Value of Plant: Present book value | Probable cost of up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part II Boats and Punts | | | | |
| | Brought forward | 49515 | 20934 | 4335 2500 | |
| 21 | Iron Punt | 2172 | 961 | 245 | |
| | Special repairs | - | - | 100 | In fair order but some require a few plates to be renewed. |
| 22 | Iron Punt | 2172 | 562 | 245 | |
| | Special repairs | - | - | - | |
| 23 | Iron punt | 3951 | 1163 | 245 | |
| | Special repairs | - | - | 150 | |
| 24 | Iron Punt | 2172 | -45 | 245 | |
| | Special repairs | - | - | - | |
| 25 | Iron punt | 4091 | -287 | 245 | |
| | Special repairs | | | 100 | |
| 26 | Iron punt | 2299 | 319 | 245 | |
| | Special repairs | - | - | - | |
| 27 | Iron punt | 5916 | 596 | 245 | Have been at work through out the year but require extensive repairs. |
| | Special repairs | - | - | 700 | |
| 28 | Iron punt | 1584 | 484 | 190 | |
| | Special repairs | - | - | 800 | |
| 29 | Iron punt | 1524 | 805 | 190 | |
| | Special repairs | - | - | 100 | |
| 30 | Iron Punt. | 1524 | -20 | 190 | In fair order but require patching. |
| | Special repairs | - | - | 200 | |
| 31 | Iron Punt | 2181 | 238 | 190 | |
| | Special repairs | - | - | 200 | |
| 32 | Iron punt | 1960 | 524 | 190 | |
| | Special repairs | - | - | 100 | |
| 33 | Iron punt | 1960 | 130 | 190 | |
| | Special repairs | | | 100 | |
| | | 83021 | 26354 | 7190 5750 | |

Statement of Irrigation Floating plant on the Kistna District &c (contd.)

| Register Number | Details of Plant | Value of plant: Original value | Value of plant: Present book value | Probable cost of up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part II Boats and Punts | | | 7190 5050 | |
| | Brought forward | 83021 | 26354 | | |
| 34 | Iron Punt | 1960 | 376 | - | condemned |
| | Special repairs | | | | |
| 35 | Iron Punt | 400 | 160 | 190 | In good order |
| | Special repairs | | | - | |
| 36 | Iron punt | 400 | 159 | 190 | In working order |
| | Special repairs | | | 100 | but hull work |
| 37 | Iron punt | 250 | 100 | 190 | In good order |
| | Special repairs | | | - | |
| 38 | Iron punt | 1400 | 440 | 190 | In working order but |
| | Special repairs | | | 200 | require renewal of frame & plates here & there. |
| 41 | Iron punt | 4063 | 396 | 265 | In good order but |
| | Special repairs | - | - | 100 | require patching. |
| 42 | Iron punt. | 4171 | 915 | 265 | do. |
| | Special repairs | | | 100 | |
| 43 | Iron Punt | 4242 | 376 | 265 | To complete again |
| | Special repairs | - | - | 200 | began this year. |
| 77 | Iron punt | 4430 | 3987 | 245 | In good order. |
| | Special repairs | | | - | |
| 78 | Iron punt | 4440 | 3996 | 245 | |
| | Special repairs | | | - | |
| | Total | 108777 | 37259 | 9235 5750 | |
| | Maintenance & Repairs | | | 9235 | |
| | Special repairs | | | 5750 | |
| | Total. | | | 14985 | |

Statement of Irrigation Floating Plant in the Kistna District &c (contd)

| Register Number | Details of Plant | Value of plant: Original value | Value of plant: Present book value | Probable cost of upkeep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part III Boats and Launches. | | | | |
| | Brought forward | | | | |
| 17 | Circular top punt | 1200 | - | - | Out of use in good order |
| 39 | Iron punt small | 250 | 75 | 50 | |
| 40 | Top punt iron | 3652 | 1092 | 220 | Deck requires much repairs. |
| | Special repairs | | | 300 | |
| | Ancient paddle boat | 900 | 368 | 150 | In good order requires repainting |
| | Special repairs | | | - | |
| | Ancient pinnace | 224 | 235 | 55 | In good order. |
| | Superintending Engineers dinghy | 265 | 239 | 20 | In fair order. |
| | Special repairs | - | 40 | - | |
| | Dredge pinnace | 300 | 270 | 50 | Requires repair |
| | Special repairs | - | - | 50 | |
| | Executive Engineers pinnace | 162 | 146 | 25 | In good order requires mast & sail |
| | Special repairs | - | - | - | |
| | Ancient paddle boat (new) | Not yet completed | | 50 | |
| 2 | Pinnaces newly constructed | | | 30 | |
| | | 5753 6953 | 2465 | 1000 | |
| | Maintenance | | | 650 | |
| | Special repairs | | | 350 | |
| | Total | | | 1000. | |
| 55 | Iron punt Special repairs | | | 100 | |
| | | 83021 | 26354 | 7190 5850 | |

Statement of Irrigation Floating Plant in the Kistna District &c. (contd)

| Register Number | Details of Plant | Value of plant: Original value | Value of plant: Present book value | Probable cost of upkeep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part III Boats and Launches. | | | | |
| | Brought forward | | | | |
| 44 | Composite punt | 2500 | 1004 | 300 | In working order but require renewal of planking & frames as placed. |
| | Special repairs | - | - | 300 | |
| 45 | Composite punt | 2500 | 985 | 300 | |
| | Special repairs | - | - | 300 | |
| 46 | Composite punt | 2500 | 985 | 300 | |
| | Special repairs | - | - | 100 | |
| 47 | Composite punt | 2288 | 602 | 300 | In fair order. |
| | Special repairs | - | - | 100 | |
| 48 | Composite punt | 2287 | 1136 | 300 | In good order. |
| | Special repairs | - | 50 | - | |
| 49 | Composite punt | 2287 | 814 | 300 | In working order |
| | Special repairs | - | - | 200 | require renewal of frames. |
| 50 | Composite punt | 2160 | 572 | 300 | In fair order |
| | Special repairs | - | - | 100 | |
| 51 | Composite punt | 2160 | 61 | 300 | |
| | Special repairs | - | - | 100 | do. |
| 52 | Composite punt | 2160 | 512 | 300 | |
| | Special repairs | - | - | 100 | do. |
| 53 | Composite punt | 2160 | 788 | 300 | |
| | Special repairs | - | - | 300 | Renewals of woodwork |
| 54 | Composite punt | 2055 | 1082 | 300 | In good order |
| | Special repairs | - | 34 | - | |
| 55 | Composite punt | 1900 | -49 | 300 | do. |
| | Special repairs | - | 50 | - | |
| 56 | Composite Punt | 2013 | 859 | 300 | In fair order |
| | Special repairs | - | - | 100 | |
| 57 | Composite punt | 4075 | -38 | 300 | do. |
| | Special repairs | - | - | - | |
| | | 33045 | 8927 | 4200 1700 | |

Statement of Irrigation Floating Plant in the Rotura District &c (contd)

| Register Number | Details of Plant | Value of Plant: Original Value | Value of Plant: Present book value | Probable cost of Upkeep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part II Boats and Punts | | | | |
| | Brought forward | 33045 | 8927 | 4200 1700 | |
| 58 | Composite punt | 2085 | 102 | 300 | |
| | Special repairs | - | 232 | - | |
| 59 | Composite punt | 2156 | 650 | 300 | |
| | Special repairs | - | - | - | In good order. |
| 60 | Composite punt | 2065 | 445 | 300 | |
| | Special repairs | - | 66 | - | |
| 61 | Composite punt | 2168 | 518 | 300 | |
| | Special repairs | - | - | - | |
| 62 | Composite punt | 2169 | 519 | 300 | Requires bracing inside. |
| | Special repairs | | 35 | 200 | |
| 63 | Composite punt | 2164 | 574 | 300 | In good order. |
| | Special repairs | - | - | - | |
| 64 | Composite punt | 2266 | 587 | 300 | In working order but weak. |
| | Special repairs | - | - | 500 | |
| 65 | Composite punt | 2238 | 152 | 300 | In good order. |
| | Special repairs | - | - | - | |
| 66 | Composite punt | 3000 | 1854 | 330 | Has been worked through the year but is in bad order. |
| | Special repairs | - | - | 900 | |
| 67 | Composite punt | 3000 | 2062 | 330 | The working order requires renewal of frames. |
| | Special repairs | - | 34 | 200 | |
| | | 56355 | 16754 | 7260 3500 | |
| | Special repairs | | | 100 | |
| | | 83021 | 26354 | 7190 3850 | |

Statement of Irrigation Floating Plant in the Rotura District &c (contd.)

| Register Number | Details of Plant | Value of Plant: Original Value | Value of Plant: Present book value | Probable cost of Upkeep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Part II Boats and Punts | | | | |
| | Brought forward | 56355 | 16754 | 7260 3500 | |
| 68 | Composite Punt | 3000 | 798 | 330 | |
| | Special repairs | - | - | - | |
| 69 | Composite punt | 2600 | 1744 | 330 | In good order. |
| | Special repairs | - | - | - | |
| 70 | Composite punt | 2600 | 1097 | 330 | |
| | Special repairs | - | - | - | |
| 71 | Composite Punt | 2600 | 1109 | 330 | Requires repair. |
| | Special repairs | | 55 | 300 | |
| 72 | Composite punt | 2600 | 1458 | 330 | |
| | Special repairs | - | 330 | - | |
| 73 | Composite punt | 2600 | 1108 | 330 | |
| | Special repairs | - | - | - | |
| 74 | Composite punt | 2600 | 1577 | 330 | In good order. |
| | Special repairs | - | - | - | |
| 75 | Composite Punt | 3811 | 551 | 330 | |
| | Special repairs | - | - | - | |
| 76 | Composite Punt | 2553 | 1197 | 330 | |
| | Special repairs | - | - | - | |
| | Total | 81319 | 27781 | 10230 3800 | |
| | Maintenance | | | 10230 | |
| | Special repairs | | | 3800 | |
| | Total | | | 14030 | |

8 4204 5 5 6 16

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 Up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Cadre II Boats and Launches. | | | | |
| 11 | Staff Boat | 1621 | 259 | 200 | |
| | Special repairs. | - | - | 100 | In repairs to hull |
| 12 | Staff Boat | 1621 | 917 | 190 | In fair order. |
| | Special repairs. | - | - | - | |
| 14 | Staff Boat. | 1355 | 679 | 160 | do. |
| | Special repairs | - | - | - | |
| 15 | Staff Boat. | 1898 | 1571 | 190 | Requires extensive repairs to hull. |
| | Special repairs. | - | - | 400 | |
| 16 | Staff boat. | 1556 | 200 | 160 | In good order. |
| | Special | - | 50 | - | |
| 17 | Staff Boat | 990 | 116 | 160 | do. |
| | Special repairs. | - | - | - | |
| 18 | Staff Boat. | 2486 | 1586 | 190 | In good order. |
| | Special repairs. | - | 25 | - | |
| 19 | Staff Boat | 1815 | 1244 | 160 | do. |
| | Special repairs | - | 50 | - | |
| 20 | Staff boat | 2271 | 1572 | 100 | In good order. |
| | Special repairs | - | 150 | - | |
| | Staff Boat. | 1721 | 1183 | 160 | " |
| 67 | Special repairs. | - | - | - | |
| | Staff boat - Special repairs | not yet completed | | 160 | New in good order |
| | | 17334 | 9602 | 1830 500 | |
| | Special repairs | | | 100 | |
| | | 83021 | 26354 | 7190 5850 | |

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 Up keep for 1899-1900 | Remarks. |
|---|---|---|---|---|---|
| | Cadre II Boats & Launches. | | | | |
| | Brought forward | 17334 | 9602 | 1830 500 | |
| | Superintending Engineers Camp clerks boat | | | | A dead boat should be condemned. |
| | Special repairs | - | - | - | |
| | | 17334 | 9602 | 1830 500 | |
| | Maintenance | - | - | 1830 | |
| | Special repairs | - | - | 500 | |
| | Total | - | - | 2330 | |

Special repairs

8302/
26354
7190
3750
100

Abstract showing the Comparison of Details between the Estimated & all maintenance cost of Floating Plant in Kistna District for 1898-99 and 1899-1900.

| | Numbers | | Original value | | Present book value | | Cost of Upkeep | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|
| | 1899-1900 | 1898-99 | 1899-1900 | 1898-99 | 1899-1900 | 1898-99 | 1899-1900 | 1898-99 | |
| Steamers | 3 | 3 | 14125 | 14125 | 1748 | 2160 | 4460 | 3854 | |
| Dredges | 6 | 6 | 69000 | 69000 | 40378 | 46337 | 3252 | 3852 | |
| Scouring launches | 3 | 3 | - | - | - | - | 1200 | 1000 | |
| Composite Punts | 33 | 33 | 81819 | 81819 | 27781 | 23823 | 14030 | 12730 | |
| Iron Punts | 41 | 41 | 108777 | 108777 | 37259 | 41523 | 14985 | 12735 | |
| Miscellaneous plant | 10 | 8 | 5753 | 6953 | 2465 | 4085 | 1000 | 1245 | |
| Staff Boats | 11 | 11 | 17334 | 17693 | 9602 | 10885 | 2330 | 2840 | |
| Add as per separate | | | | | | | | | |
| Estimate for probable expenses for use of Steamer Anchorage by departmental Officers | | | | | | | 750 | 750 | |
| | 107 | 105 | 296308 | 297867 | 119233 | 87113 | 42007 | 38506 | |
| Maintenance | | | | | | | 30707 | 29906 | |
| Special repairs | | | | | | | 11300 | 8600 | |
| Total | | | | | | | 42007 | 38506 | |

Executive Engineer
14/12/98

18/12/98

Executive Engineer,
Kistna Eastern Division

Maintenance of Irrigation Floating plant

1899-1900.

Detail approximate estimate of the annual cost of maintenance of Irrigation Floating plant in Khairpur District during the official year 1899-1900.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| | Steamer Alexander | Steamer Wallock | Steamer Farrell | No 1 Dredger | No 2 Dredger | No 5 Dredger | Towing plant No 1 |
| Docking and launching | 30 | 40 | 40 | - | 16 | 16 | 15 |
| Painting | 84 | 150 | 150 | - | 42 | 70 | 32 |
| Caulking | 28 | - | - | 72 | 22 | 90 | 38 |
| Farming | - | - | - | - | 33 | 25 | 16 |
| Stokers | 36 | 190 | 190 | - | - | - | - |
| Leading | 76 | 240 | 240 | - | 53 | 53 | - |
| Lascars | 107 | 290 | 290 | 80 | 80 | 90 | 4 |
| Kopeers | 15 | 100 | 100 | - | 8 | 8 | 60 |
| Sundry repairs | 200 | 250 | 250 | - | 282 | 389 | 94 |
| Miscellaneous | 50 | - | - | - | 14 | 14 | - |
| Leakage and Contingencies | 135 | - | - | - | 80 | 115 | 41 |
| Engine Drivers | - | 240 | 240 | - | - | - | - |
| Total | 760 | 1500 | 1500 | 152 | 630 | 870 | 300 |

| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Towing plant No 2 | Towing plant No 3 | Cock Lewis Dredger No 1 | Cock Lewis Dredger No 2 & 3 | Scow Punts Nos 1 & 5 18' x 7' x 1'-7" & Nos 2 & 5 each | Scow Punts No 10 | Scow punts Nos 28 & 33 and 35 & 38 and No 12 each | Scow Punt No 39 Small | Scow Punts Nos 43 & 45 & 2 65 each | Tugs Punt No 40 | Composite Punt No 46 & 55 & 300 each | Composite Punts Nos 66 & 67 & 330 each | Spiral Pile Lamp |
| 2 | 20 | 16 | 16 | 16 | 8 | 16 | 8 | 16 | 16 | 24 | 24 | 6 |
| 32 | 64 | 32 | 32 | 32 | 23 | 28 | 14 | 46 | 47 | - | - | 33 |
| 38 | 76 | 33 | 38 | 38 | 25 | 22 | - | 40 | 25 | 99 | 107 | 28 |
| 16 | 32 | 16 | 16 | 16 | 11 | 10 | 6 | 21 | 20 | - | - | 8 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 8 | 64 | 64 | 4 | 4 | 4 | 4 | 4 | 24 | 8 | 8 | 4 |
| 60 | 120 | 8 | 8 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 |
| 94 | 188 | 268 | 218 | 94 | 65 | 73 | 5 | 90 | 46 | 110 | 129 | 44 |
| - | - | 13 | 13 | 41 | - | - | - | - | - | - | - | - |
| 41 | 82 | 50 | 50 | - | 29 | 33 | 9 | 45 | 38 | 54 | 54 | 27 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | 600 | 500 | 460 | 245 | 170 | 190 | 50 | 265 | 220 | 300 | 330 | 150 |

Superintending Engineer's Office, JJ Circle,
Bezwada, 18th April 1899.

No. 1261

From

J. Hannan Esquire,
Superintending Engineer,
II Circle,

To

The Chief Engineer,
For Irrigation.

CHIEF ENGINEER
FOR IRRIGATION.
21 APR. 1899
9465

Sir,

Enclosures.

With reference to your Memo No. II/37 KS. dated 27th February 1899 I have the honor to inform you that a sum of Rs. 42,600 has been applied for under 42 Revenue Account Tools and Plant in the Budget for 1899-1900 for outlay in the Kistna Eastern Division; and Rs 42,330 were provided in the Preliminary budget - vide para 9 of your note printed with G. O. No. 195. I. dated February 1899.

2. Of this sum, Rs. 35,000 have been provided for ordinary repairs, Rs. 7000 for the special repairs, and the balance viz. Rs. 600 is for the new tools.

3. As the amounts required for the annual, and special repairs, of the floating plant as per Statement

forward

forwarded to you with this office No. 631 dated 17th February 1899 viz Rs. 42,007 being within the amount provided in the budget no increase of grant is necessary.

I have the honor to be,
Sir,
Your most obedient Servant,

H Hammam
Superintending Engineer,
II Circle.

S.E. 4/14/99

# Public Works (1898) Department.

IRRIGATION BRANCH.

II

ISSUE No. 37 KS

To The Supg Engineer 2nd Circle

(Reply to letter No. , dated )

Dated 27-2-99

Despatched 28-2-99

Enclosures *

* Particulars of Enclosures.

SUBJECT.

Annual and special repairs to the floating plant of Kistna Delta — Statts that the amounts required for — are in excess of the amounts applied for by him in the budget estimate for 1899-1900 provided for in the preliminary review of the budget for that year and is requested to suggest how the increase applied for shall be met.

Indented

E. I. Form No. 13—2,000—4-0-98.

## BACK PAPERS.

| No. | Date. |
|---|---|
| R 248 KS | 17 2 99 |

Sent to Government with No. I.,
dated 189 .
Printed with G.O., No. I.,
dated 189 .

REMINDERS ISSUED.

No. 1, dated 5 4 1899.
" 2 "
" 3 "
" 4 "
" 5 "

KEEP-WITHS.

## FURTHER PAPERS.

| No. | Date. |
|---|---|
| R 94 KS | 18-4-99 |

Papers-
R 248 KS/99
G 081 Jdy 28.1.98
R 265 KS/98
R 106 KS/98
G 1463 dy 12.2.97
Orgl of G 081 Jdy 28/1/98

Copy to Supt. Engineer 27/4/99

No 37 dy 27-2-99

Memo.

In the ~~annual statement showing the cost of maintaining the floating plant of the Kistna Delta System for 1899-1900~~ forwarded by the Supg. Engineer, II Circle with his ~~No~~ 63 J. dated 17th inst. the amounts required for annual and special repairs are shown to be Rs. 3070 and Rs. 11,300, ~~which~~ or Rs. 707 and Rs. 4,300 respectively, in excess of the amounts applied for by the ~~Supg. Engineer~~ in Part V of the budget estimate for 1899-1900, and provided for in the preliminary issue of the budget for that year. If the provision for annual and special repairs is to be increased as now requested the Supg. Engineer is requested to be so good as to suggest how the increase

Flag A

E. I. Form

increase would be met.

27/12/98

Resolved

# Public Works (1899) Department.

**CURRENT No.** 48 K.S.

***From*** Supt Engineer
II Circle

***Order***

**No.** 63 S.

***Dated*** 17th February 1899

***Received*** 20 - do

***Registered***

***Enclosures*** one

***Spare copies***

## SUBJECT.

Annual floating plant
Statement of Kistna Delta
Forwards —

Divisional Engr.
Has do. not appear to be sufficient
provision in the Estimate for the annual
repairs to the Kistna Delta
Please advise.

The budget estimate for 1899-1900 is
put up.

1015
20/2/99

JES
20/2

JES
20-2-99

Supt. Engr
II Circle
1015
28-2-99

28/2/99

BACK PAPERS.

| No. | Date. |
|---|---|
| | |

FURTHER PAPERS.

| No. | Date. |
|---|---|
| 237 KS | 27-2-99 |
| 294 KS | 15-4-99 |
| 1052 | 6-5-99 |

Letter from J. S. Wilson Esquire, Executive Engineer Kistna Eastern Division to the Superintending Engineer II circle, dated 14th December 1898 No 6 S. E.

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I have the honor to forward herewith the annual floating plant statement of this Delta showing the programme of repairs for 1898-99. & 1899-1900.

2. The amounts required to execute the programme are Rs 30,707 for annual maintenance and Rs 11300 for special repairs.

3. The total estimated annual repairs are Rs 42,000 or Rs 3,500 more than the last year. The excess is owing to the necessity of providing funds for the special repairs to most of the Composite and Iron Punts as will be seen from the remarks entered against them.

4. As the final payments are not yet made and accounts closed for 2 steamers 2 Cockburn Dredges and 3 pontoon Dams their values are not entered in

20 FEB. 1899
48 KS

statement.

A penultimation on the usual system of the items of plant against which minus or small values are shewn will be submitted in the ordinary course.

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No 63 Dated 17th February 99.

Copy. Forwarded to the Chief Engineer for Irrigation. Enclosure one statement.

H Hanmer

Superintending Engineer
Hazara.

12 P