
IRRIGATION REVENUE REPORT

OF THE

BOMBAY PRESIDENCY,

EXCLUDING SIND,

1894-95.

PARTS I & II.

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IRRIGATION REVENUE REPORT, BOMBAY PRESIDENCY (EXCLUDING SIND),

1894-95.

PART I.

COMPRISING WORKS FOR WHICH CAPITAL AND
REVENUE ACCOUNTS ARE KEPT.

GENERAL REMARKS.

Works in operation. The following list includes all the works in operation, 36 in number.

| Collectorate. | Number. | Names of Works. | Storage Works completed or proposed. |
|------------------------------------|---------|---|--|
| MAJOR WORKS. | | | |
| <i>Protective Works.</i> | | | |
| Poona | 1 | Nira Canal | Storage lake at Bhatghar practically completed. |
| Sholápur | 2 | Mhasvad Tank | Completed, except a part of the waste weir which was demolished in order to enable repairs to the dam to be carried out and which still requires raising. |
| <i>Productive Works.</i> | | | |
| Ahmedabad | 5 | Háthmati Canal | Storage works under consideration. |
| Khándesh | 6 | Lower Pánjhra River Works. | Storage Tank at Mukti complete. |
| Násik | 7 | { Kadva River Works { Pálkhed Canal . { Ojhar Tábhat Canal. { Wadáli Canal. | Wághad Tank completed with the exception of the waste weir. Water consequently is not stored to full designed height. |
| Ahmednagar | 8 | Pravara River Works—Lákh Canal. | |
| Poona | 9 | Mutha Canals | Máládevi Tank proposed for this work, but sanction withdrawn pending enquiry into modified proposals for the dam, and alternative proposals for a tank at Samrad, revised survey of which is completed and plans, &c., have been prepared. |
| Sholápur | 10 | Ekrúk Tank | Lake Fife at Khadakvásla complete. |
| Sátára | 11 | Krishna Canal | Complete. Site for a storage reservoir is under consideration. |
| MINOR WORKS AND NAVIGATION. | | | |
| Ahmedabad | 12 | Khari Cut | The Bokh project under consideration. |
| Khándesh | 13 | Hartála Tank | Complete. |
| | 14 | Mhasva do. | Do. |
| | 15 | Jámda Canals | Reservoir at Chankápur sanctioned and commenced, but work suspended. Question of resumption of work under consideration. |
| Ahmednagar | 16 | Parsul Tank | Complete. |
| | 17 | Pravara River Works—Ojhar Canal. | <i>Vide</i> remark against (8) Lákh Canal. |
| | 18 | Bhátodi Tank | Complete. |

| Collectorate. | Number. | Names of Works. | Storage Works completed or proposed. |
|--|---------|----------------------------------|---|
| MINOR WORKS AND NAVIGATION—continued. | | | |
| Poona ... | ... | 19 Mátoba Tank | Complete. |
| | | 20 Kásurdi do. | Do. |
| | | 21 Shirsuphal Tank | Do. |
| | | 22 Bhádalvádi do. | Do. |
| Sholápur ... | ... | 23 Koregaon do. | Do. |
| | | 24 Ashti do. | Do. |
| Sátára ... | ... | 25 Revári Canal | Storage Tank at Sonkeh proposed. |
| | | 26 Upper Mán River Works ... | Pingli Tank complete. |
| | | 27 Yerla River Irrigation Works. | Nehr Tank complete. |
| | | 28 Chikhli Canal | No storage works yet proposed but being considered. |
| | | 29 Maini Tank | Complete. |
| Bijápur ... | ... | 30 Muchkundi Tank | Do. |
| | | 31 Nilgund do. | Do. |
| Belgaum ... | ... | 32 Gadikeri do. | Do. |
| Dhárwár ... | ... | 33 Dámbal do. | Do. |
| | | 34 Medleri do. | Do. |
| | | 35 Madag do. | Do. |
| | | 36 Asundi do. | Do. |
| | | 37 Mávinkop do. | Do. |
| <i>Provincial.</i> | | | |
| Belgaum ... | ... | 39 Gokák Canal, 1st Section ... | Storage works at Dhupdal completed for the present. |

Nos. 3 and 4, or Chankápur and Máládevi Tanks, are not included, as the works were not in operation; the former has been suspended and the latter has not yet been approved. No. 38—Gokák Canal, 2nd Section, is in abeyance.

Capital outlay. 2. The total capital outlay during and up to the end of the year was as follows:—

| Main Heads. | To end of 1893-94. | During 1894-95. | To end of 1894-95. |
|---|--------------------|-----------------|--------------------|
| <i>A.—Direct Charges.</i> | Rs. | Rs. | Rs. |
| I.—Works | 1,96,53,725 | 1,73,357 | 1,98,27,082 |
| II.—Establishment | 44,65,074 | 36,118 | 45,01,192 |
| III.—Tools and Plant | 5,00,965 | —1,523 | 4,99,442 |
| IV.—Suspense ... .. | ..... | ..... | ..... |
| Profit and Loss ... .. | ..... | ..... | ..... |
| Total A ... | 2,46,19,764 | 2,07,952 | 2,48,27,716 |
| <i>Deduct—Receipts on Capital Account</i> | 35,109 | 116 | 35,225 |
| Net Total, A.—Direct Charges ... | 2,45,84,655 | 2,07,836 | 2,47,92,491 |
| <i>B.—Indirect Charges.</i> | | | |
| Capitalization... .. | 3,62,376 | 1,61,832 | 5,24,208 |
| Loss by Exchange ... .. | ..... | ..... | ..... |
| Leave and Pension Allowances ... | 7,95,759 | 5,056 | 8,00,815 |
| Total, B.—Indirect Charges ... | 11,58,135 | 1,66,888 | 13,25,023 |
| Grand Total A and B ... | 2,57,42,790 | 3,74,724 | 2,61,17,514 |

3. The following abstract shows the details of the above:—

| | Number of Works. | EXPENDITURE, 1894-95. | | | Total Expenditure, Direct and Indirect, to end of 1894-95. | Amount of sanctioned Estimates. |
|---|------------------|-----------------------|-----------|----------|--|---------------------------------|
| | | Direct. | Indirect. | Total. | | |
| <i>Major Works.</i> | | Rs. | Rs. | Rs. | Rs. | Rs. |
| Protective Works ... { In operation .. | 3 | 1,10,409 | 1,36,116 | 2,46,525 | 76,41,862 | 82,32,709 |
| ... { In abeyance ... | 2 | 166 | 25 | 191 | 1,03,319 | 17,42,810 |
| Total ... | 4 | 1,10,575 | 1,36,141 | 2,46,716 | 77,45,181 | 99,75,519 |
| Productive Works ... In operation .. | 7 | 81,193 | 3,197 | 84,390 | 1,08,36,333 | 1,08,45,341 |
| Minor Works ... { In operation ... | 26 | 11,546 | 13,677 | 25,223 | 61,60,810 | 63,95,171 |
| ... { In abeyance ... | 1 | ... | ... | .. | 1,90,284 | 1,91,995 |
| Total ... | 27 | 11,546 | 13,677 | 25,223 | 63,41,124 | 65,87,166 |
| Provincial Minor Works...In operation ... | 1 | 4,522 | 13,873 | 18,395 | * 11,94,876 | 12,33,013 |
| Grand Total ... | 39 | 2,07,836 | 1,66,888 | 3,74,724 | 2,61,17,514 | 2,66,41,039 |

* Including expenditure charged to "35—Construction of Protective Irrigation Works."

The number of works in operation is 36, the same as in the previous year. The Chankápur and Máládevi Tanks and the Gokák Canal, 2nd Section, are still in abeyance. Government have ordered further investigations in regard to the Chankápur Tank and the requisite survey is in hand. A report on the result of this survey is awaited. The question of the storage works at Samrád for the development of irrigation under the Lákh and Ojhar Canals is still under consideration. A rough project was submitted to Government in May 1895 but it has been returned for further revision.

The greater portion of the Capital expenditure during the year was on the Nira Canal, a Protective Work, and on the Mutha Canals, a Productive Work, the outlay on which is being incurred from the ordinary Revenues and charged to the head "Minor Works and Navigation."

On the Nira Canal the work done was chiefly on the Bhátghar Reservoir. The masonry has been practically finished. What remained of the top-corbelling has been done and all the hand railing finally put up, with the exception of the portion over the south waste weir which would interfere with the erection of the gates. All the gates required for the south waste weir were supplied from Bombay by Messrs. Gabagan & Co. and before the end of the year all except five sluices had their frames fixed in position ready for final cementing. The whole of the south waste weir will be in working order before the monsoon of 1895-96. The north waste weir automatic gates were all in working order by the end of July, and under a head of 3 feet above crest level worked extremely satisfactorily. At Vir a masonry and concrete protective wall was substituted for the pitching below the subsidiary weir on the Left bank of the Nira as an efficient protection against the erosive action of the floods.

On the Mutha Canals the greater portion of the expenditure was on the alterations and improvements to the Poona Water-Supply, and the works which were in progress last year were completed, except a portion of the roofing of the pure water tanks which is in progress. The works were carried out without interfering with the supply to the City and Cantonment. The new filters are complete and in perfect working order.

4. The Interest Account to end of the year stands as follows:—

| | AMOUNT. | | | | AMOUNT. | | |
|--|-------------------|-------------------|-------------|--|-------------------|-------------------|-------------|
| | Protective Works. | Productive Works. | Total. | | Protective Works. | Productive Works. | Total. |
| Total Interest charges to end of 1893-94 ... | 29,03,704 | 84,87,811 | 1,14,91,515 | Net Revenue realized to end of 1893-94 ... | 4,815 | 17,10,175 | 17,14,990 |
| Do. during 1894-95 ... | 2,83,175 | 4,12,184 | 7,05,359 | Do. during 1894-95 ... | 12,500 | 2,10,824 | 2,23,324 |
| | | | | | 17,315 | 19,21,000 | 19,38,314 |
| | | | | Balance net interest charges to end of 1894-95 ... | 32,69,564 | 62,78,995 | 1,03,48,557 |
| Total to end of 1894-95 ... | 32,86,879 | 88,99,995 | 1,21,86,874 | Total ... | 32,86,879 | 88,99,995 | 1,21,86,874 |

5. The gross revenue realised from all sources during the year, after deducting refund of revenue (Rs. 4,430), was Rs. 5,63,482, of which Rs. 5,49,871 were direct, and Rs. 13,611 indirect, receipts. The net revenue actually realised was Rs. 2,12,556.

The gross revenue shows a decrease of Rs. 10,264, and the net revenue a decrease of Rs. 73,772.

6. The gross area under command was 885,342 acres and the irrigable area at present is 315,694 acres.

7. The financial results of the year by main heads were as follows:—

| | Areas Irrigated. | REVENUE REALIZED. | | | Working Expenses. | Net Revenue. |
|--|------------------|-------------------|------------------------|----------|-------------------|--------------|
| | | Direct Receipts. | Share of Land Revenue. | Total. | | |
| | Acres. | Rs. | Rs. | Rs. | Rs. | Rs. |
| <i>Class I.—Works for which Capital and Revenue Accounts are kept.</i> | | | | | | |
| Major Works ... { Protective Works | 32,596 | 94,548 | ... | 94,548 | 82,048 | 12,500 |
| ... { Productive Works | 28,111 | 3,51,896 | 7,571 | 3,59,467 | 1,48,643 | 2,10,824 |
| Total ... | 60,707 | 4,46,444 | 7,571 | 4,54,015 | 2,30,691 | 2,23,324 |
| Minor Works | 20,324 | 86,671 | 6,040 | 92,711 | 1,14,573 | —21,862 |
| Provincial Minor Works | 4,363 | 16,756 | ... | 16,756 | 5,662 | 11,094 |
| Total Class I ... | 85,394 | 5,49,871 | 13,611 | 5,63,482 | 3,50,926 | 2,12,556 |

The area shown as irrigated includes an area of 1,157 acres on which a consolidated land and water assessment is levied, and which is derived from old works on which expenditure on improvements only has been incurred.

8. The figures showing areas irrigated, revenue assessed and realized, and working expenses, as compared with former years, are as follows:—

| Years. | Area irrigated. | REVENUE. | | Working Expenses. |
|----------------|-----------------|-------------|--------------|-------------------|
| | | Assessment. | Realization. | |
| | Acres. | Rs. | Rs. | Rs. |
| 1883-84 | 32,962 | 2,44,247 | 2,78,130 | 1,70,089 |
| 1884-85 | 39,655 | 2,47,702 | 2,60,080 | 1,92,612 |
| 1885-86 | 59,450 | 2,83,232 | 2,79,877 | 2,10,686 |
| 1886-87 | 42,628 | 3,03,475 | 3,34,468 | 2,39,417 |
| 1887-88 | 46,167 | 3,49,512 | 3,48,445 | 2,41,385 |
| 1888-89 | 79,195 | 4,14,153 | 3,71,545 | 2,34,312 |
| 1889-90 | 85,550 | 4,49,838 | 4,22,859 | 2,47,128 |
| 1890-91 | 74,852 | 4,44,281 | 4,60,813 | 2,39,615 |
| 1891-92 | 96,025 | 5,76,586 | 5,12,072 | 2,85,893 |
| 1892-93 | 65,487 | 4,79,042 | 5,45,542 | 3,07,778 |
| 1893-94 | 79,950 | 5,91,487 | 5,73,746 | 2,87,418 |
| 1894-95 | 84,237 | 5,93,737 | 5,63,482 | 3,50,926 |

There was an increase of 4,287 acres in the total area irrigated as compared with the previous year, but the area was still considerably less than that of 1891-92, though the assessment is larger.

The increase of 4,287 was distributed over the several classes of works as follows:—

| | Acres. |
|-------------------------|--------|
| Protective Works | 2,810 |
| Productive " | 2,150 |
| Minor " | —799 |
| Do. Provincial... .. | 126 |
| Total ... | 4,287 |

Under Protective Works the Nira Canal shows an increase of 3,867 acres and the Mhasvad Tank a decrease of 1,057 acres. Under Productive Works, the Mutha Canals account for an increase of 1,823 acres, and the balance is the net result of increases and decreases under the remaining works. A large number of Minor Works show a decrease, the most noticeable being the Ojhar Canal and the Shirsuphal Tank.

9. The total area irrigated was distributed as follows :—

| | | Kharif. | Rabi. | Total. |
|---------|-----|---------|--------|--------|
| | | Acres. | Acres. | Acres. |
| 1893-94 | ... | 45,300 | 34,650 | 79,950 |
| 1894-95 | ... | 41,314 | 42,923 | 84,237 |

The kharif area shows a decrease which was more than made up in the rabi season. The differences in areas as compared with those of the previous year have been explained in the review of the annual statement of irrigation and rainfall.

10. The area irrigated was in excess of the area applied for, the figures being 84,237 and 73,990 acres, respectively.

The area irrigated includes 1,762 acres of the permanent garden irrigation under the Lower Pánjhra River Works. Eliminating these figures the area irrigated is reduced to 82,475 acres. The excess in the measured area over that applied for was chiefly on the Nira Canal, the difference arising from the cultivators entering in their applications only the minimum area they can be charged for and irrigating generally much more. Similarly, it is stated to be due in other cases to their ignorance of the areas of their holdings and consequent inability to estimate correctly the area they propose to irrigate. The reports of the individual works contain the necessary explanations on this point.

11. The following table contrasts the distribution of rainfall in each month for the last five years :—

| | I.—Works having an unfailing supply. | | | | | II.—Works dependent on Local Rainfall. | | | | |
|------------------------|--------------------------------------|----------|----------|----------|----------|--|----------|----------|----------|----------|
| | 1890-01. | 1891-02. | 1892-03. | 1893-04. | 1894-05. | 1890-01. | 1891-02. | 1892-03. | 1893-04. | 1894-05. |
| | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. | Inches. |
| <i>Kharif.</i> | | | | | | | | | | |
| June | 5·54 | 3·57 | 5·83 | 9·85 | 3·27 | 4·29 | 2·58 | 8·04 | 6·92 | 2·45 |
| July | 3·32 | 7·11 | 6·36 | 2·05 | 9·30 | 2·79 | 3·86 | 3·91 | 3·01 | 6·85 |
| August | 3·08 | 3·03 | 6·51 | 4·58 | 1·98 | 3·73 | 3·15 | 6·56 | 3·36 | 3·09 |
| September | 5·00 | 2·93 | 9·13 | 2·43 | 6·30 | 4·80 | 2·78 | 7·87 | 4·04 | 6·65 |
| Total | 16·94 | 15·64 | 27·83 | 18·91 | 20·85 | 15·61 | 12·39 | 26·38 | 17·33 | 19·04 |
| <i>Rabi.</i> | | | | | | | | | | |
| October | 3·09 | 3·25 | 5·14 | 2·24 | 4·77 | 2·45 | 3·81 | 8·77 | 4·13 | 3·04 |
| November | 2·70 | 0·26 | 0·34 | 1·16 | 0·14 | 3·10 | 0·13 | 0·63 | 0·96 | ... |
| December | 1·17 | ... | 0·02 | ... | ... | 1·94 | ... | ... | ... | 0·01 |
| January | ... | ... | ... | ... | ... | 0·01 | ... | ... | ... | ... |
| Total | 6·96 | 3·51 | 5·50 | 3·40 | 4·91 | 7·60 | 4·04 | 9·40 | 5·09 | 3·05 |
| Total Kharif and Rabi. | 23·90 | 19·15 | 33·33 | 22·31 | 25·76 | 23·11 | 16·43 | 35·78 | 22·42 | 22·09 |

The rainfall in the year under report compared with that of the previous year varied in the case of almost all works. On some it was heavier and on others lighter.

The average in the two seasons, taking all the works together, was 23·13 inches as compared with 22·74 inches in 1893-94.

Collections of Revenue. 12. The state of the collections was as follows:—

| | | | | Rs. |
|--|-----|-----|------------|-----------------|
| Balance of demands unrealized at the commencement of the year. | | | | 33,277 |
| Demand of the year— | | | | |
| Rabi, 1893-94 | ... | ... | Rs. 90,578 | |
| Kharif, 1894-95 | ... | ... | " 3,20,749 | |
| Miscellaneous receipts | ... | ... | " 1,50,357 | |
| | | | | <u>5,61,684</u> |
| Total | | | | 5,94,961 |
| Remissions | ... | ... | ... | 243 |
| | | | | <u>5,94,718</u> |
| Net Total | | | | 5,94,718 |
| Amount unrealized at the close of the year | | | | <u>40,417</u> |
| Actual receipts of the year | | | | 5,54,301 |
| <i>Add—</i> | | | | |
| Share of Land Revenue | ... | ... | ... | 13,611 |
| | | | | <u>5,67,912</u> |
| <i>Deduct—</i> | | | | |
| Refunds of Revenue | ... | ... | ... | 4,430 |
| | | | | <u>5,63,482</u> |
| Revenue realized as per paragraphs 5, 7 and 8 | | | | ... |

The remissions and refunds together amount to Rs. 4,673.

The total amount, Rs. 40,417 unrealized at the close of the year, shows an increase; this total is made up of the following:—

| | | | | Rs. |
|-------------------|-----|-----|-----|---------------|
| Mutha Canals | ... | ... | ... | 22,359 |
| Khári Cut | ... | ... | ... | 8,051 |
| Bhátodi Tank | ... | ... | ... | 2,339 |
| Kadva River Works | ... | ... | ... | 1,454 |
| Jámda Canals | ... | ... | ... | 1,191 |
| Hathmati Canal | ... | ... | ... | 1,113 |
| Other Works | ... | ... | ... | 3,910 |
| Total | | | | <u>40,417</u> |

The outstanding balance on the Mutha Canals, which is heaviest, includes (Rs. 9,564) bills for water-rates for March 1895, prepared at the end of the month; omitting this item, the balance represents the unrealized amount on account of irrigation, the greater portion of which has since been recovered, and it is hoped there is now no balance outstanding.

On the Khári Cut, out of the balance of Rs. 8,051, Rs. 3,635 have since been collected, and steps are in progress for recovery of the balances.

Under the Bhátodi tank it is reported that several villagers complained of double assessment and refused to pay the amount due from them. The unrealized balance is also attributed to late submission of some of the demand statements; the matter is being enquired into and the necessity for early submission of the demand statements will be impressed on the officers concerned.

Most of the balance on the Kadva River Works has since been recovered, while on the Jámda Canal the whole has since been collected.

On the Hathmati Canal the outstandings were due to the inability of the cultivators to pay before the close of the year. The amounts have since been realized in full.

In some cases the outstanding balances are represented to be due to the inability of the cultivators to pay the water-rates and land assessments at one and the same time, and the Revenue Department are taking the necessary steps for their recovery.

13. The total working expenses for the year amounted to Rs. 3,50,926 against Rs. 2,87,418 in the previous year, showing an increase of Rs. 63,508 distributed as follows:—

| | | | | 1893-94. | 1894-95. | Difference. |
|----------------------------|-----|-----|-----|----------|----------|-------------|
| Major Works-- | | | | | | |
| Protective Works | ... | ... | ... | 84,107 | 82,048 | -2,059 |
| Productive Works | ... | ... | ... | 1,28,925 | 1,48,643 | +19,718 |
| Total | | | | 2,13,032 | 2,30,691 | +17,659 |
| Minor Works and Navigation | | | | 68,334 | 1,14,573 | +46,239 |
| Provincial Minor Works | ... | ... | ... | 6,052 | 5,662 | -390 |
| Grand Total | | | | 2,87,418 | 3,50,926 | +63,508 |

Under Major Works, Protective Works show a decrease of Rs. 2,059, while Productive Works show an increase of Rs. 19,718. The working expenses under Minor Works Imperial show an increase of Rs. 46,239.

The decrease under Protective Works is made up of a decrease of Rs. 8,459 on the Nira Canal and an increase of Rs. 6,400 on the Mhasvad Tank. The increase under Productive Works is made up of increases on the Lower Panjhra River Works, Kadva River Works, Lakh Canal, Mutha Canals and the Krishna Canal, the Mutha Canals showing the largest increase (Rs. 12,498). The Ekruk Tank shows a decrease of Rs. 14,361. The Minor Works which principally account for the increase are the Ojhar Canal (Rs. 21,958), Bhatodi Tank (Rs. 8,133) and Yerla River Works (Rs. 17,805).

The working expenses of the Nira Canal include a sum of Rs. 1,770 for special repairs, which consisted of strengthening the banks by puddled earth cores in places where they were found to be unsafe or leaky, due to the nature of the soil of which they were originally made. It is stated that in a couple of years all these leaky places will be made perfectly sound. The working expenses amounted to Rs. 53,588 as compared with Rs. 62,047 in the previous year. With 96 miles of main canal in operation this gives a rate of 553.21 per mile and includes the maintenance of 132 miles of distributaries. The cost of maintenance per acre irrigated was Rs. 1.89 against 2.53 and 3.22 of the two previous years.

There was a large increase on the Mhasvad Tank due to special expenditure of Rs. 11,198 incurred during the year under review under head "Extensions and Improvements" on remaking a portion of the dam with better material. The work was necessitated on account of damage caused by leakage.

On the Lower Panjhra River Works the increase was in a great measure due to the charge for construction establishment being now apportioned equally on all revenue works in proportion to the outlay on works and repairs on each, and to a large refund of revenue which was assessed at penal rate on lands at Mudhi and Mandal, which had been degraded from bagayat to jirayat. There has however been a considerable decrease on the 2nd Class revenue works, the charge on which used to be very heavy under the former method of apportionment. The same reason accounts for the increase under the Kadva River Works and the Lakh Canal, that on the last being also partly due to special silt clearance.

The expenditure on account of working expenses of the Mutha Canal amounted to Rs. 79,709 against Rs. 67,211 in the previous year, including all charges. Out of Rs. 79,709, Rs. 29,765 are debitable to maintenance of water-supply and the balance Rs. 49,944 to maintenance of irrigation. The excess in the expen-

diture as compared with the previous year was due to increase in cost of maintenance of the Poona water-supply, special repairs to the water wheel and pumping by steam during alterations being necessary. The chief increase is however in the cost of Establishment and Tools and Plant. The establishment charges were heavier owing to decrease in Capital outlay and the revised rule ordering 18 instead of 20 per cent. as the charge to capital. The increase in tools and plant was due to the cost of new meters and component parts of meters required for the Poona water-supply.

The increase under the Krishna Canal was on collection charges due to increased realizations of the year.

The increase in Minor Works and Navigation is chiefly in establishment charges on most of the works due to the introduction of the rules, *vide* Government Resolution No. 280 A, I-1903, dated 14th December 1894, referred to above, the Ojhar Canal and Bhatodi Tank showing the most noticeable increases, solely due to that cause. The large increase in the case of the Yerla River Works is attributed to the expenditure incurred on the reconstruction of the Nehr dam and debited to the revenue account.

The percentage of working expenses on gross assessed revenue was 59.10 against 48.59 in the previous year, and the rate per acre was 4.17 against 3.59 in the previous year.

14. The following table contrasts the charges under the principal heads with those of the two previous years:—

| Charges under principal heads. | | | | | 1892-93. | 1893-94. | 1894-95. |
|--------------------------------------|-----|-----|-----|-----|----------|----------|----------|
| | | | | | Rs. | Rs. | Rs. |
| Works | ... | ... | ... | ... | 6,070 | 13,641 | 27,253 |
| Repairs | ... | ... | ... | ... | 1,39,710 | 1,21,787 | 1,22,496 |
| Establishment | ... | ... | ... | ... | 1,19,234 | 1,04,596 | 1,48,362 |
| Tools and Plant | ... | ... | ... | ... | 3,913 | 9,482 | 9,006 |
| Total in the Public Works Department | | | | | 2,68,927 | 2,49,508 | 3,07,117 |
| Collection charges | ... | ... | ... | ... | 22,026 | 23,271 | 23,039 |
| Indirect charges | ... | ... | ... | ... | 16,825 | 14,641 | 20,770 |
| Total | | | | | 3,07,778 | 2,87,418 | 3,50,926 |

The establishment charges, divided between 'Direction and Accounts' and 'Executive,' compare as follows with those for the previous year:—

| | | | | | 1893-94. | 1894-95. | Difference. |
|------------------------|-----|-----|-----|-----|----------|----------|-------------|
| Direction and Accounts | ... | ... | ... | ... | 22,528 | 22,304 | —224 |
| Executive | ... | ... | ... | ... | 82,068 | 1,26,058 | +43,990 |
| Total | | | | | 1,04,596 | 1,48,362 | +43,766 |

15. The following table gives the details of the working expenses of some of the principal works :—

| Names of Works. | Average incidence of Water-rate per Acre. | COST OF MEASUREMENT. | | WORKING EXPENSES TOTAL IN THE PUBLIC WORKS DEPARTMENT. | |
|----------------------------------|---|----------------------|-----------|--|---------------------|
| | | Total Cost. | Per Acre. | Per mile of Main Canal. | Per Acre Irrigated. |
| <i>Canals.</i> | | | | | |
| Nira Canal | 3.20 | 1,844 | 0 1 0 | 485 | 1.64 |
| Háthmati Canal | 2.50 | 141 | 0 0 6 | 259 | 1.29 |
| Kádva River Works | 3.80 | 291 | 0 1 8 | 599 | 5.23 |
| Pravara River Works—Lákh Canal. | 3.44 | 32 | 0 1 8 | 517 | 38.36 |
| Mutha Canals | 13.81 | 1,366 | 0 2 2 | 787 | 6.87 |
| Krishna Canal | 9.50 | 767 | 0 2 7 | 291 | 2.19 |
| Jámda Canals | 6.75 | 49 | 0 1 11 | 219 | 7.44 |
| Pravara River Works—Ojhar Canal. | 3.03 | 118 | 0 1 9 | 1,341 | 16.51 |
| Gokák Canal, 1st Section | 2.73 | 749 | 0 2 9 | 315 | 1.05 |
| Upper Mán River Works | 5.16 | 175 | 0 2 2 | 216 | 2.92 |
| Rewári Canal | 4.27 | 187 | 0 1 11 | 307 | 0.99 |
| Chikhli " | 4.88 | 36 | 0 1 7 | 119 | 1.90 |
| Khari Cut | 5.87 | 162 | 0 1 3 | 340 | 2.61 |
| <i>Tanks.</i> | | | | | |
| Mhasvad Tank | 3.28 | 610 | 0 2 3 | 441 | 6.29 |
| Ekrúk Tank | 4.09 | 557 | 0 2 8 | 225 | 3.27 |
| Bhatodi Tank | 3.22 | 30 | 0 3 10 | 239 | 6.34 |
| Mátoba Tank | 7.00 | 81 | 0 0 11 | 210 | 2.51 |
| Shirsuphal Tank | 6.10 | 16 | 0 1 5 | 232 | 16.37 |
| Bhádálvádi Tank... .. | 2.25 | 19 | 0 1 0 | 160 | 5.20 |
| Maini Tank | 3.98 | 224 | 0 2 9 | 375 | 2.71 |
| Madag Tank | 2.42 | ... | ... | 160 | 1.56 |

The cost of measurement per acre was generally less than last year. The works in the Sátára District show a reduction of nearly 52 per cent. The high rate of measurement on the Bhatodi Tank is explained to be due to the fields being at a distance from each other and to the incompetence as a surveyor of the canal inspector. It is proposed to have the measurements made by a special measurer in future.

On the Madag Tank the land under command having been subdivided into *pot* numbers of suitable sizes no special measuring establishment was employed.

The varying ratio of working cost on the different works is due to the varying nature of the works themselves.

15 a. The orders contained in Government Resolution No. 172 A. I.—454, dated 15th September 1879 required that special sanction of Government should be obtained to excesses over-prescribed percentages of establishment charges to revenue expenditure. The rules which now govern the debit of establishment charges, however, made these orders unnecessary, and they were accordingly cancelled in Government Resolution No. 213 A. I.—1289, dated 14th August 1895. But it was thought necessary to carefully watch the establishment expenditure on revenue management, and it was directed that the annual revenue reports should furnish information showing for each work :—

- (a). The cost of establishment debited to revenue management.
- (b). The percentage this bears to the assessed revenue from the irrigation.
- (c). Incidence of cost per acre irrigated.

The information furnished in compliance with these orders is shown in the following table:—

| | Establishment debited to Revenue management. | Percentage of Revenue Establishment on assessed Revenue. | Incidence of cost per Acre irrigated. |
|--|--|--|---------------------------------------|
| 1. Nira Canal | 4,484 | 4.93 | 0.16 |
| 2. Mhasvad Tank | 3,075 | 22.17 | 0.73 |
| 3. Hathmati Canal | 141 | 1.20 | 0.03 |
| 4. Lower Pánjhra River Works | 784 | 7.51 | 0.28 |
| 5. Kadva River Works | 1,363 | 12.97 | 0.49 |
| 6. Pravara River Works—Lákh Canal | 83 | 7.79 | 0.27 |
| 7. Mutha Canals | 3,073 | 2.20 | 0.30 |
| 8. Ekruk Tank | 2,376 | 17.64 | 0.72 |
| 9. Krishna Canal | 1,554 | 3.50 | 0.33 |
| 10. Khari Cut | 556 | 4.30 | 0.26 |
| 11. Hartála Tank | 186 | 89.42 | 2.24 |
| 12. Mhasva Tank | 264 | 66.83 | 2.08 |
| 13. Jámda Canals | 2,083 | 26.90 | 1.81 |
| 14. Parsul Tank | 334 | 19.71 | 0.92 |
| 15. Pravara River Works—Ojhar Canal | 353 | 7.55 | 0.23 |
| 16. Bhatodi Tank | 44 | 0.80 | 0.03 |
| 17. Matoba Tank | 115 | 1.16 | 0.08 |
| 18. Kásurdi do. | 20 | 250.00 | 20.00 |
| 19. Shirsuphal do. | 210 | 19.46 | 1.19 |
| 20. Bhádalvádi do. | 65 | 9.64 | 0.22 |
| 21. Koregaon do. | 189 | 16.43 | 0.48 |
| 22. Ashti do. | 686 | 14.54 | 0.47 |
| 23. Revári Canal | 271 | 4.11 | 0.18 |
| 24. Upper Mán River Works | 631 | 9.45 | 0.48 |
| 25. Yerla River Irrigation Works | 1,055 | 12.08 | 0.44 |
| 26. Chikhli Canal | 120 | 6.07 | 0.29 |
| 27. Maini Tank | 830 | 16.30 | 0.64 |
| 28. Muchkhundi Tank | 5 | 5.62 | 0.27 |
| 29. Nilgund Tank | ... | ... | ... |
| 30. Gadikeri do. | ... | ... | ... |
| 31. Dambal do. | 256 | 13.72 | 0.81 |
| 32. Medleri do. | 255 | 53.46 | 1.86 |
| 33. Madag do. | 391 | 17.46 | 0.42 |
| 34. Asundi do. | 251 | 17.79 | 0.63 |
| 35. Mavinkop do. | ... | ... | ... |
| 36. Gokák Canal, 1st Section | 1,303 | 10.94 | 0.29 |

It will appear that the percentages of revenue establishment on assessed revenue from irrigation water rates are high on *Hartála*, *Mhasva* and *Kasurdi Tanks* and the *Jámda Canals*. The Executive Engineer for Irrigation Khándesh reports that the high charges on the *Hartála* and *Mhasva Tanks* and the *Jámda Canals* are due to the areas irrigated during the year 1894-95 on these works being smaller than in the previous year, but that, in the interests of efficient management of what irrigation there was, the establishment could not be reduced. The irrigation in the locality in which these three works are situated has always been and is fitful, and depends largely on the extent of the cultivation of cotton, which can be carried on without canal water. There was no irrigation on the *Kasurdi Tank* during 1894-95, the tank being dry, and hence the high charge.

The percentage in the case of the Khari Cut Canal is higher than that of the Hathmati Canal as in the former a share of subordinate establishment employed in revenue management is included, while on the Hathmati Canal the work was performed by temporary establishment charged to maintenance. The reasons for this procedure which appears to be exceptional should be furnished.

Enquiries are being made as to the possibility of diminishing the charges on the Maini, Dambal, Medleri, Asundi and Madag Tanks and on the Yerla River Works.

16. The indirect receipts, as shown in Statements I—C, IV—C and II—E, were Rs. 13,611. If Rs. 5,830 plus Rs. 41,328 on account of supply to the Poona City=Rs. 47,158, being the difference between the value of water issued from the Mutha Canals at normal rates and the value of water supplied at special reduced rates or gratuitously, be taken credit for in the revenue returns of the work as a book credit and be added to the above amount, the earnings of the year will be Rs. 6,40,395. The Poona Municipality have not yet accepted the terms offered to them, with the sanction of the Government of India, in the matter of increased supply of water.

17. The net assessed revenue of the year, after deducting working expenses including indirect and all other charges, and neglecting the items, amounting to Rs. 47,158, referred to in the preceding paragraph, was Rs. 2,42,811 as compared with Rs. 3,04,069 in 1893-94.

The details of the assessment were as follows :—

| | DIRECT REVENUE. | | | Indirect Revenue. | Total. |
|-------------------------------|-----------------|-----------------|----------|-------------------|----------|
| | Water Rates. | Other Receipts. | Total. | | |
| <i>Major Works.</i> | | | | | |
| Protective Works | 1,04,733 | 4,111 | 1,08,844 | ... | 1,08,844 |
| Productive Works | 2,29,641 | 1,31,689 | 3,61,330 | 7,571 | 3,68,901 |
| Total | 3,34,374 | 1,35,800 | 4,70,174 | 7,571 | 4,77,745 |
| Minor Works | 83,480 | 9,405 | 92,885 | 6,040 | 98,925 |
| Provincial Minor Works | 11,915 | 5,152 | 17,067 | ... | 17,067 |
| Grand Total | 4,29,769 | 1,50,357 | 5,80,126 | 13,611 | 5,93,737 |

18. The water-rates in force during the year are shown in Statement I—F. and were the same as in the previous year, with the exceptions that for the Ekruk Tank the perennial rate has been raised to Rs. 12. For the Gokak Canal it has been ordered that the perennial rate shall be raised from Rs. 14 to Rs. 18 in five years and accordingly the rate for the year under report was Rs. 15.

19. The average water-rates per acre of land actually irrigated were :—

| | 1893-94.. | 1894-95. |
|-------------------------------|-----------|----------|
| Protective Works... .. | 3.53 | 3.21 |
| Productive Works | 8.73 | 8.17 |
| Minor Works | 4.30 | 4.35 |
| Provincial Minor Works | 2.74 | 2.73 |
| Average of all taken together | 5.37 | 5.10 |

20. The water-rate assessments and other receipts compare with those of the previous year as under :—

| | 1893-94. | 1894-95. |
|------------------------------|----------|----------|
| | Rs. | Rs. |
| Water-rates | 4,29,408 | 4,29,769 |
| Other Receipts— | | |
| Plantations | 6,198 | 4,024 |
| Water-power | 20,760 | 10,920 |
| Water-supply to towns | 97,077 | 98,779 |
| Miscellaneous | 25,065 | 36,634 |
| | 1,49,100 | 1,50,357 |
| Share of land revenue | 12,979 | 13,611 |
| | 1,62,079 | 1,63,968 |
| | 5,91,487 | 5,93,737 |

The above comparison shows an increase under all heads except Plantations and Water power.

The assessments of water-rates are nearly the same as those of the previous year. The figures for the several works show increases and decreases due to the variation in the area of irrigation, the decrease which was chiefly on the Mhasvad Tank (Rs. 7,623) Shirsuphal Tank (Rs. 2,357) and Bhádalvádi Tank (Rs. 3,675) having been counterbalanced by the increase on the Nira Canal (Rs. 7,161) Krishna canal (Rs. 2,294) Khari Cut (Rs. 2,345) and the Yerla River Works (Rs. 1,736); of the decrease on plantations the most noticeable was on the Hartála Tank (Rs. 541) and the Jamda Canals (Rs. 1,201) due to the sale of babul trees not having been effected before the close of the year. The decrease under water power is solely on the Gokak Canals and is nominal. The assessment for the year was Rs. 9,840, but half of this sum was paid in advance last year and therefore was taken credit for in that year.

Under Miscellaneous revenue the increase was almost wholly under Major Works.

21. The principal crop acreages irrigated during 1893-94 and 1894-95 were as follows:—

| Crop acreages. | 1893-94. | 1894-95. | Increase or Decrease. |
|----------------------|----------|----------|--------------------------|
| | Acres. | Acres. | Acres. |
| Gardens and orchards | 3,367 | 3,009 | - 358 |
| Sugarcane | 13,063 | 14,624 | + 1,561 |
| Wheat | 10,856 | 8,833 | - 2,023 |
| Rice | 5,217 | 6,187 | + 970 |
| Maize | 2,031 | 1,924 | - 107 |
| Jowári | 11,604 | 19,955 | + 8,351 |
| Bájri | 4,378 | 6,722 | + 2,344 |
| Gram, &c. | 5,830 | 5,990 | + 160 |
| Ground-nuts | 16,390 | 9,084 | - 7,306 |
| Condiments | 2,935 | 3,309 | + 374 |
| Fodder | 593 | 1,117 | + 524 |

of these the chief crops were:—

| | Acres. |
|-------------|--------|
| Sugarcane | 14,624 |
| Wheat | 8,833 |
| Jowári | 19,955 |
| Bájri | 6,722 |
| Gram, &c. | 5,990 |
| Ground-nuts | 9,084 |
| Rice... | 6,187 |

The figures of sugarcane, rice, jowári, bájri, gram, condiments and fodder show an increase. All the other crops show a decrease, the falling off being particularly noticeable in wheat and ground-nuts. The decrease in wheat is made up of small decreases on several works.

Of the total decrease of 7,306 acres in ground-nuts the Nira Canal contributes 3,743 acres, which the Executive Engineer anticipated, as explained in paragraph 16 of the Nira Canal report, and the Mhasvad Tank 2,115 acres, due to the lowering of the water-level in the tank by cutting 6 feet from a portion of the waste weir to facilitate the remaking of the damaged portion of the dam. This lowering caused a large diminution in the contents of the tank which led to the decrease of the ground-nuts irrigation. The decrease of ground-nut was general over the works in the Sátara District owing to the favourable rainfall of the year.

The increase in the area of jowári was most noticeable on the following works:—

| | 1893-94. | 1894-95. |
|--------------|----------|----------|
| | Rs. | Rs. |
| Nira Canal | 6,537 | 11,114 |
| Mhasvad Tank | 442 | 2,072 |
| Mutha Canals | 511 | 1,534 |
| Ekrak Tank | 110 | 823 |

On the Nira Canal it rose from 6,537 acres in 1893-94 to 11,114 acres in 1894-95 which is very satisfactory.

The total estimated value of crops irrigated is shown as Rs. 56,57,235 against Rs. 58,59,742 for the previous year and Rs. 39,47,775 for 1892-93.

22. In Statement I—E. the duty of water on each work, as well as the basis to which the duties were calculated, &c., are shown. The results vary very much on different works; but, as observed in previous years, this is to be expected, as the conditions also vary considerably, and in most of the canals it is necessary to maintain a much larger discharge than is necessary for the area under irrigation owing to the bulk of the land irrigated being frequently situated towards the tail of the canal at a long distance from the head-works.

Details of the duty obtained on each canal are given in the body of the report and are generally estimated from the daily discharge observations and the known area of the miscellaneous crops under irrigation during the period.

Special experiments to determine the duty of water per acre for certain crops were carried out during the year with the following results:—

POONA DISTRICT.

Nira Canal.

| | | | | |
|---------------|------------|---------|----------|--|
| Sugarcane ... | Cubic feet | 186,356 | per acre | } For particulars please see para. 13 of the Report for that work. |
| Do. ... | " | 214,835 | " | |

Mutha Canals.

| | | | | |
|---------------|-----|-----|-----|--------------------------|
| Sugarcane ... | ... | ... | ... | 922,702 C. ft. per acre. |
|---------------|-----|-----|-----|--------------------------|

SHOLAPUR DISTRICT.

Mhasvad Tank.

| | | | | |
|------------|-----------|-----|-----|--------------------------|
| Plot No. 1 | Sugarcane | ... | ... | 282,426 C. ft. per acre. |
| " 2 | Wheat jod | ... | ... | 40,412 " " |
| " 3 | Wheat | ... | ... | 47,422 " " |
| " 4 | Barley | ... | ... | 36,522 " " |

Ekruk Tank.

| | | | | |
|------------|----------------|-----|-----|-------------------------|
| Plot No. 1 | Wheat 1st sort | ... | ... | 60,594 C. ft. per acre. |
| " 2 | do. ordinary | ... | ... | 41,838 " " |
| " 3 | Gram | ... | ... | 12,229 " " |

Koregaon Tank.

| | | | | |
|------------|------------|-----|-----|--------------------------|
| Plot No. 1 | Sugarcane | ... | ... | 499,606 C. ft. per acre. |
| " 2 | Ground-nut | ... | ... | 115,689 " " |
| " 3 | Jowari | ... | ... | 59,740 " " |

Ashti Tank.

| | | | | |
|------------|---------------|-----|-----|--------------------------|
| Plot No. 1 | Sugarcane | ... | ... | 370,492 C. ft. per acre. |
| " 2 | Chillies | ... | ... | 117,730 " " |
| " 3 | Rice inferior | ... | ... | 70,991 " " |

KHA'NDESH DISTRICT.

Lower Panjhra River Works.

Village of Nahalod.

| | | | | | |
|------------|-------|-----|--------|-----------|--|
| Plot No. 1 | Peas | ... | 35,640 | per acre. | } Owing to rain one watering sufficed. |
| " 2 | Wheat | ... | 17,397 | " | |

Jamda Canals.

| | | | | |
|-------|-----|-----|-----|------------------|
| Wheat | ... | ... | ... | 28,240 per acre. |
|-------|-----|-----|-----|------------------|

NASIK DISTRICT.

Kadva River System.

| | | | | |
|-------------|-----|--------|-----------|--|
| Ground-nuts | ... | 43,594 | per acre. | } For particulars please see separate table in para. 26 of report for this work. |
| Do. | ... | 16,532 | " | |
| Methi | ... | 23,365 | " | |

PART II.

WORKS FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT,
AND AGRICULTURAL WORKS.

23. The following shows a comparison of the figures for the year under report with those for 1893-94 :—

| | 1893-94. | 1894-95. | Increase. | Decrease. |
|-------------------------|----------|----------|-----------|-----------|
| | Acres. | Acres. | Acres. | Acres. |
| Area irrigated | 147,393 | 143,907 | ..... | 3,486 |
| | Rs. | Rs. | Rs. | Rs. |
| Revenue receipts | 5,46,333 | 5,47,425 | 1,092 | ..... |
| Expenditure | 2,80,571 | 2,78,906 | ..... | 1,665 |
| Net revenue | 2,65,762 | 2,68,519 | 2,757 | ..... |

The area irrigated shows a decrease of 3,486 acres. In the Dhárwár district, there is an increase of three in the number of tanks and still the area irrigated shows a falling off of 3,895 acres. This discrepancy is not explained. The Revenue receipts show an increase of Rs. 1,092 and the expenditure a decrease of Rs. 1,665, the result being an increase under net revenue of Rs. 2,757.

24. The following gives some details of expenditure :—

| | EXPENDITURE. | | COMPARISON. | |
|---------------------------------|--------------|----------|-------------|-----------|
| | 1893-94. | 1894-95. | Increase. | Decrease. |
| | Rs. | Rs. | Rs. | Rs. |
| Extensions and improvements ... | 50,917 | 65,948 | 15,031 | ..... |
| Maintenance and repairs ... | 57,346 | 64,871 | 7,525 | ..... |
| Establishment* | 1,15,825 | 93,116 | ..... | 22,709 |
| Tools and Plant | 2,065 | 3,147 | 1,082 | ..... |
| Total | 2,26,153 | 2,27,082 | 929 | ..... |
| Share of collection charges ... | 54,418 | 51,824 | ..... | 2,594 |
| Total | 2,80,571 | 2,78,906 | ..... | 1,665 |

The increase under Extensions and Improvements, Maintenance and Repairs and Tools and Plant shows more extensive operations on second class works. The decrease under establishment charges is the result of orders regarding the apportionment of establishment charges referred to in paragraph 13 above.

Statement of Canals in the Bombay Presidency, excluding Sind.

| Source of Supply of Water, | (1) NIRA CANAL. | (5) HATHMATI CANAL. | (7) KADVA RIVER WORKS. | | | (8) LAKH CANAL. | (11) KRISHNA CANAL. | (12) KHA'BI CUT. | (15) JAMDA CANALS. | (17) OJHAR CANAL. | (25) REVA'BI CANAL. | (28) CHIKHLI CANAL. | (39) GOKAK CANAL, 1st SECTION AND STORAGE WORKS. |
|---|---|-----------------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|--|--------------------------------------|-----------------------------------|-----------------------------------|---|
| | River Nira and Reservoir at Bhatghar. | Hathmati River. | KADVA RIVER. | OJHAR TAMBAT CANAL. | WADA'LI CANAL. | Pravara River. | River Krishna and Rainfall. | Khari River. | Girna River. | Pravara River. | River Varna and Rainfall. | River Nandni and Rainfall. | River Ghat- prabha and Storage Works. |
| Minimum discharge } C. ft. per second ... | { K. 1318 R. 34 H.W. 5 | { K. 17 R. 97 H.W. 16 | { K. 12-19 R. 8-21 H.W. 0-39 | { K. 14-28 R. 0-40 H.W. ... | { K. 2-79 R. 19-25 H.W. 4-70 | { In flood R. 53-74 H.W. 13-68 | { K. 45-99 R. 215-92 H.W. 45-99 | { K. 28 R. 73 H.W. 28 | { April and May 1894 28-22 K. 262-21 R. 174-23 H.W. 54-01 April and May 1895 47-25 Left Bank. K. 42-83 23-34 R. 51-33 19-45 H.W. 53-00 14-85 | { In Flood R. 36-04 H.W. 21-15 | { K. 8-43 R. 9-71 H.W. 3-43 | { K. 1-87 R. 5-36 H.W. 1-37 | { K. 740 R. 33 H.W. 10 |
| Maximum discharge } of canal. " " | 456 | 191 | 30-64 | 8-82 | 7-61 | 40-93 | 87-78 | 150 | 42-00 | 9-53 | 6-13 | { K. 73 R. 63 | |
| Average annual rainfall ... Inches. | 17-75 | { K. 33-20 R. 0-62 | 29-51 | 20-94 | 20-94 | 21-64 | 25-66 | { K. 32-52 R. 0-81 | 26-82 | 24-61 | 28-71 | 24-29 | { Dhundal 26-93 Gokak 23-02 |
| Gross area commanded ... Acres. | 274,447 | 44,744 | 28,832 | 8,055 | 8,486 | 29,913 | †28,927 | 17,300 | 37,122 9,166 | 23,794 | 3,813 | 1,871 | 18,668 |
| Culturable do. ... " | 227,670 | 28,840 | 26,280 | 7,421 | 2,729 | 25,536 | †26,463 | 12,000 | 33,124 7,061 | 21,155 | 3,624 | 1,478 | 17,627 |
| Area irrigable by complete project... " | 56,640 | 11,336 | 23,466 | 6,824 | 2,433 | 22,760 | †26,463 | 11,500 | 3,500 1,500 | 20,088 | 3,624 | 1,478 | 16,170 |
| Do, at present ... " | 56,640 | 8,000 | 9,837 | 2,967 | 2,433 | 11,280 | †26,463 | 3,000 | 3,500 1,500 | 14,763 | 3,624 | 1,478 | 16,170 |
| Sanctioned Estimate— | | | | | | | | | | | | | |
| Direct charges ... Rs. | 57,34,655 | 5,89,705 | 2,33,087 | 14,541 | 29,771 | 3,75,189 | 8,29,067 | 1,06,857 | 10,27,238 | 3,25,902 | 56,324 | 53,803 | 11,72,084 |
| Indirect charges ... " | 3,69,780 | 30,000 | 15,761 | 833 | 1,540 | 20,277 | 48,216 | 11,823 | 61,402 | 22,309 | 3,124 | 3,013 | 60,929 |
| Interest during construction ... " | 28,44,872 | 2,37,637 | 2,12,554 | 2,411 | 32,150 | 3,65,298 | 7,83,613 | .. | ..... | ..... | ..... | ..... | 1,44,865 |
| Total, Estimate ... Rs. | 89,49,307 | 8,57,392 | 4,66,402 | 17,785 | 63,461 | 7,60,764 | 16,60,896 | 1,78,680 | 10,88,640 | 3,48,211 | 60,448 | 57,415 | 13,77,878 |
| Expenditure to end of 1894-95. | | | | | | | | | | | | | |
| Direct charges ... Rs. | 53,01,633 | 4,90,925 | 2,21,154 | 6,739 | 27,955 | 3,52,446 | 8,18,545 | 1,69,868 | 9,90,546 | 3,09,635 | 56,582 | 53,803 | 11,55,617 |
| Indirect charges ... " | 2,91,345 | 27,470 | 16,372 | 193 | 1,399 | 19,445 | 46,347 | 11,980 | 49,900 | 20,614 | 2,847 | 3,639 | 39,359 |
| Interest during construction... " | 21,57,378 | 4,14,113 | 2,00,854 | 1,499 | 30,739 | 3,69,502 | 8,80,723 | .. | ..... | ..... | ..... | ..... | 2,09,017 |
| Total, Expenditure ... " | 77,53,355 | 5,32,508 | 4,37,380 | 8,431 | 60,093 | 7,41,393 | 17,45,620 | 1,81,848 | 18,40,446 | 3,80,249 | 59,429 | 57,442 | 14,03,993 |
| Works as now sanctioned— | | | | | | | | | | | | | |
| Main Canals, Irrigation ... Miles. | 100-23 | 21 | 11 | 8 | 8-62 | 23 | 35-25 | 16 | 39 | 19 | 5-66 | 6-50 | 2-62 |
| Branch Canals do. ... " | ... | ... | ... | ... | ... | ... | 26-25 | 7 | ... | ... | 5-25 | ... | 12 |
| Distributaries ... " | 132-46 | 25 | 21-50 | ... | ... | 11 | ... | 7 | 75 | 25 | ... | ... | 26-55 |
| Of above— | | | | | | | | | | | | | |
| Navigable channels ... " | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Works completed at end of 1894-95— | | | | | | | | | | | | | |
| Main Canals, Irrigation ... Miles. | 96 | 21 | 11 | 4-50 | 8-62 | 23 | 35-25 | 16 | 39 | 19 | 5 | 6-50 | 2-62 |
| Branch Canals do. ... " | ... | ... | ... | ... | ... | ... | 28-62 | 7 | ... | ... | 5-25 | ... | 12 |
| Distributaries ... " | 132-46 | 30 | (a) 14-36 | ... | ... | (b) 9-37 | ... | 7 | 75 | 21 | ... | ... | 26-55 |
| Of above— | | | | | | | | | | | | | |
| Navigable channels ... " | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

* Including 47 c. ft. discharge for Mills. † These figures include the area (920 acres) commanded, culturable and irrigable under the Burli Branch Channel newly constructed.
 ‡ Correct areas ascertained this year. § This includes the length (2-37 miles) of the Burli Branch Channel newly constructed.
 (a) The total length measured at present is 14-36. The difference is due to the shortening of the Ojhar Tambat Distributary by its diversion and the Palkhed Canal main distributary.
 (b) 9-37 is the result of the enquiry referred to in paragraph 6 of Government Resolution No. 3 W, 1, -82, dated 14th January 1895.

Statement of Reservoir Projects in the

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) |
|--|------------------------------------|--------------------------|--|----------------------------------|-----------------------------|-----------------------------|----------------|----------------|--------------|----------------|--|-----------------------------|------|------|------|------|------|------|------|------|
| | Bhátghar Reservoir Nira Canal. | Mhasvad Tank. | Lower Pánjra River Works and Mukti Tank. | Kádva River Works (Waghad Tank). | Mutha Reservoir, Lake Fila. | Ekrak Tank. | Hartála Tank. | Mhasva Tank. | Parul Tank. | Bhátodi Tank. | Mátoba Tank. | Kásurdi Tank. | | | | | | | | |
| Source of Supply: | Yelwandi River and Ghát Catchment. | Mra River and Rain-fall. | Local Streams. | Kolvas River. | Mutha River and Rain-fall. | Adheia River and Rain-fall. | Local Streams. | Local Streams. | Parul River. | Mahokri River. | Nala, Rain-fall and surplus water from Mutha Right Bank Canal. | Kásurdi Nala and Rain-fall. | | | | | | | | |
| Area of catchment, Sq. miles ... | 128 | 460 | 342 | 29 | 10600 | 159 | 680 | 1540 | 1783 | 440 | 1000 | 600 | | | | | | | | |
| Average Annual rain-fall ... Inches ... | 145 | 2549 | 2283 | 5272 | 3330 | 3201 | 2631 | 2978 | 2177 | 2588 | 1516 | 2030 | | | | | | | | |
| Contents of tanks between levels of surface of full supply and sill of canal head sluice ... Millions of cubic feet. | 5,500 | 2,633 | 3423 | 806 | (1)2,679-65 (2)3,283-30 | 3,310 | 1349 | 1696 | 11870 | 151 | 229 | 145 | | | | | | | | |
| Area of surface at full supply ... Acres and decimals. | 3,584 | 4013-80 | 509-00 | 778 | (2)3,629-78 (1)3,299-34 | 4,640 | 472 | 421 | 151 | 315-13 | 477-46 | 37-92 | | | | | | | | |
| Gross area commanded ... Acres. | | 129,045 | 13,117 | (e)... | 94,087 | 17,152 | 584 | 4,647 | 2,503 | 15,126 | 10,700 | 507 | | | | | | | | |
| Culturable do. ... " | | 106,214 | 12,637 | (e)... | 49,800 | 16,041 | 527 | 4,076 | 2,398 | 13,657 | 7,133 | 478 | | | | | | | | |
| Area irrigable by complete project ... " | | 106,214 | 12,627 | (e)... | 16,800 | 16,330 | 415 | 1,700 | (1)1,500 | 12,124 | 2,600 | 478 | | | | | | | | |
| Do. at present ... " | | 45,813 | 12,627 | (e)... | 16,800 | 14,352 | 415 | 1,700 | (1)1,500 | 12,124 | 2,600 | 478 | | | | | | | | |
| Wells supplied by tanks ... No. | | 12 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | | | | | | | |
| Sanctioned Estimate— | | | | | | | | | | | | | | | | | | | | |
| Direct Charges ... Rs. | (a)..... | 20,24,327 | 4,44,496 | 4,67,662 | 62,14,206 | 12,22,243 | 48,690 | 1,29,313 | 2,15,360 | 3,51,767 | 1,93,000 | 40,812 | | | | | | | | |
| Indirect Charges ... " | (a)..... | 1,05,947 | 23,774 | 16,835 | 2,40,697 | 1,06,637 | 26,160 | 10,202 | 8,246 | 26,511 | 17,500 | 4,778 | | | | | | | | |
| Interest during construction ... " | (a)..... | 6,56,222 | 4,18,839 | 2,17,233 | 34,30,296 | 8,00,650 | ... | ... | ... | ... | ... | ... | | | | | | | | |
| Total Estimate ... Rs. | (a)..... | 27,84,496 | 8,86,099 | 7,01,730 | 96,85,199 | 21,35,580 | 75,040 | 1,40,015 | 2,23,612 | 3,78,278 | 2,10,500 | 46,590 | | | | | | | | |
| Expenditure to end of 1994-95. | | | | | | | | | | | | | | | | | | | | |
| Direct Charges ... Rs. | (a)..... | 19,85,060 | 4,39,052 | 4,37,613 | 63,22,342 | 12,23,117 | 47,948 | 1,28,781 | 2,12,362 | 3,52,085 | 1,88,149 | 40,812 | | | | | | | | |
| Indirect Charges ... " | (a)..... | 60,625 | 22,312 | 11,691 | 2,34,147 | 1,12,399 | 25,434 | 10,175 | 7,057 | 27,022 | 13,274 | 4,778 | | | | | | | | |
| Interest during construction ... " | (a)..... | 9,68,809 | 4,18,839 | 1,97,000 | 51,42,695 | 12,24,389 | ... | ... | ... | ... | ... | ... | | | | | | | | |
| Total Expenditure ... Rs. | (a)..... | 30,14,754 | 8,60,703 | 6,46,604 | 1,16,99,184 | 25,64,775 | 73,382 | 1,39,956 | 2,19,419 | 3,79,707 | 2,01,422 | 46,590 | | | | | | | | |
| Works as now sanctioned— | | | | | | | | | | | | | | | | | | | | |
| Dam (earth or masonry) ... | Masonry ... | Earth. | Earth. | Earth. | Masonry. | Earth. | Earth. | Earth. | Earth. | Masonry | Earth. | Earth. | | | | | | | | |
| Total Height ... Feet. | (b) 127 (c) 108 | 79-79 | 65 | 95 | 97-84 | 76 | 51-50 | 44 | 62-27 | 50 | 48-41 | 33-45 | | | | | | | | |
| Works completed at end of 1994-95— | | | | | | | | | | | | | | | | | | | | |
| Dam (height) completed ... Feet. | (d)..... | 79-79 | 65 | 93 | 97-84 | 76 | 51-50 | 44 | 62-27 | 50 | 48-41 | 33-45 | | | | | | | | |
| Canals ... Miles. | | (b) 60-25 | ... | (f)... | 68 | 48 | ... | ... | ... | 4-50 | ... | ... | | | | | | | | |
| Distributaries ... " | | 34 | 45 | (f)... | 70 | ... | 8-5 | 7 | 4-75 | 5-50 | 17 | 1-75 | | | | | | | | |
| Works completed at end of 1994-95— | | | | | | | | | | | | | | | | | | | | |
| Dam (height) completed ... Feet. | (d)..... | 79-79 | 65 | 93 | 97-84 | 76 | 51-50 | 44 | 62-27 | 50 | 48-41 | 33-45 | | | | | | | | |
| Canals ... Miles. | | (b) 60-25 | ... | (f)... | 68 | 48 | ... | ... | ... | 4-50 | ... | ... | | | | | | | | |
| Distributaries ... " | | 34 | 45 | (f)... | 67 | ... | 8-5 | 7 | 4-75 | 5-50 | 17 | 1-75 | | | | | | | | |

(1) 244-7 is the reduced level
(2) 245-7 is the height to which

Bombay Presidency, excluding Sind.

| (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (31) | (32) | (33) | (34) | (35) | (36) | (37) | (38) | (39) | REMARKS. |
|--|--|--------------------------------|--------------------------------|---|---|--|---|-----------------------------|-----------------|--|---|----------------|-------------------------|---|---|------|------|------|----------|
| Shree- phal Tank. | Bhadra- vadi Tank. | Koregaon Tank. | Ashil Tank. | Upper Man River Works (Pingli Tank). | Yerla River Irriga- tion Works (Nehr Tank). | Main Tank. | Much- kundi Tank. | Gad- keri Tank. | Dambal Tank. | Medleri Tank. | Madag Tank. | Aundi Tank. | Mavin- kop Tank. | Gokak Canal, 1st Section, and Storage Works. | | | | | |
| Minor Tribu- tary of the Bhima River and Rain- fall. | Minor Tribu- tary of the Bhima River and Rain- fall. | Nala and Rainfall. | Ashil Nala and Rainfall. | Man River and Rain- fall. | Yerla River and Rain- fall. | Wanga Nala and Rain- fall. | Much- kundi Nala and Rain- fall. | Rain- fall. | Rain- fall. | Medleri Nala and Rain- fall. | Kumud- wadi River and Rainfall. | Rain- fall. | Rainfall. | Ghatprabha River. | | | | | |
| 23-00 | 23-00 | 4-4 | 92 | 20-00 | 59-5 | 54-00 | 26 | 68 | 43 | 11 | 540 | 23 | 6-25 | 1,090 | *Exclusive of 29 square miles for Gondoli Tank. | | | | |
| 20-75 | 22-58 | 83-03 | 29-25 | 19-38 | 27-07 | 22-04 | 22-69 | 28-53 | 19-68 | 21-23 | 29-33 | 23-20 | 89-01 | 55-00 | | | | | |
| 303 | 222 | 81 | 1,419 | 195-24 | 469-77 | 188-59 | 680 | 27-5 | 113-664 | 57-600 | 54-630 | 105-500 | 45-75 | 701-597 | | | | | |
| 833-79 | 835-18 | 202 | 3,677 | 349-4 | 676-9 | 380-4 | 1,059 | 129 | 442 | 169 | 302 | 418 | 170-5 | 2,272-45 | | | | | |
| 4,500 | 3,000 | Not Known. | 17,382 | 8,443 | 11,234 | 4,876 | 5,570 | 687 | 4,595 | 1,918 | 2,351 | 1,800 | 2,872 | 18,668 | (e) Information supplied in Statement I—A. the tank being only a feeder. f) Ascertained this year on actual survey. | | | | |
| 2,500 | 2,400 | | 16,825 | 7,623 | 10,680 | 4,625 | 5,417 | Not Known. | 4,525 | 1,052 | 2,452 | 1,800 | 2,755 | 17,627 | | | | | |
| 2,600 | 2,400 | | 14,476 | 7,623 | 10,680 | 4,625 | 3,417 | 4,595 | 1,918 | 2,188 | 1,800 | 2,755 | 1,800 | 2,755 | 6,170 | | | | |
| 2,500 | 2,400 | | 14,476 | 7,623 | 10,680 | 4,625 | 3,417 | 337 | 4,525 | 1,052 | 2,188 | 1,800 | 2,617 | 6,170 | (j) Approximate figures. | | | | |
| ... | ... | ... | ... | 25 | 18 | 13 | Nil | None. | Un- certain. | Nil. | Nil. | Nil. | Nil. | None. | | | | | |
| 2,09,460 | 2,14,382 | 40,731 | 7,54,250 | 4,16,341 | 6,82,813 | 3,68,000 | 1,48,200 | 8,888 | 61,162 | 78,237 | 2,32,363 | 67,731 | 27,869 | (a)..... | | | | | |
| 12,823 | 14,342 | 1,318 | 80,677 | 28,196 | 47,200 | 22,492 | 20,220 | 350 | 3,744 | 3,468 | 17,144 | 12,754 | 3,928 | (a)..... | | | | | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | (a)..... | | | | | |
| 2,22,282 | 2,23,724 | 42,049 | 8,34,927 | 4,44,531 | 7,29,073 | 3,90,492 | 1,68,420 | 9,238 | 64,808 | 81,705 | 2,40,407 | 80,485 | 31,817 | (a)..... | | | | | |
| 2,11,430 | 2,13,107 | 87,923 | 7,52,189 | 4,07,421 | 6,43,201 | 3,67,671 | 1,40,217 | 8,915 | 60,847 | 78,354 | 1,61,248 | 60,741 | 27,612 | (a)..... | (a) Figures given in State- ment I—A. | | | | |
| 12,273 | 14,307 | 1,266 | 78,914 | 22,141 | 43,043 | 22,239 | 13,490 | 364 | 3,133 | 3,039 | 6,360 | 14,254 | 3,235 | (a)..... | | | | | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | (a)..... | | | | | |
| 2,23,703 | 2,27,414 | 39,189 | 8,31,103 | 4,29,562 | 6,96,244 | 3,89,910 | 1,58,707 | 9,279 | 63,980 | 81,392 | 1,67,598 | 74,966 | 30,847 | (a)..... | | | | | |
| Earth. | Earth. | 2 dams 1 earth 1 masonry | Earth. | Earth. | Earth. | Earth. | Masonry | Earth. | Earth. | Earth. | Earth. | Earth. | Earth. | Masonry weir. | (b) Above lowest founda- tion. (c) Above lowest point in river bed. | | | | |
| 54-32 | 55-09 | 71 and 16 | 57-75 | 53-50 | 74 | 57-33 | 60 | 20 | 42-25 | 41 | 100 | 33-95 | 30-53 | 25' high, Ma- ximum above founda- tion 28' earthwork | | | | | |
| ... | ... | 3-75 | (i) 27-50 | 17-50 | 28-60 | 9-25 | 5-5 | Nil. | ... | ... | 0 | ... | ... | 14-62 | (d) The main dam com- pleted to full height, and weir brought up to correct level. | | | | |
| 12-5 | 9-75 | ... | 2 | 6-50 | 4 | 7-58 | 2-25 | Irriga- tor's Channel | 3-27 | 5-64 | ... | 4-88 | Irrigator's Channel, | 26-55 | (e) The tank supplies the Palkhed, Ohar Tambat and Wadali canals as noted in Statement I—A. | | | | |
| 54-32 | 55-09 | 71 and 16 | 57-75 | 53-50 | 74 | 57-33 | 60 | 20 | 42-25 | 41 | 100 | 33-95 | 30-53 | 25 | (f) Includes 32½ miles of Branch Canals. | | | | |
| ... | ... | 3-75 | (i) 27-50 | 17-50 | 28-60 | 9-25 | 5-5 | Nil. | ... | ... | 0 | ... | ... | 2-62 and Waderhatti branch 12 miles. | (g) Includes 6 miles of Branch Canals. | | | | |
| 12-5 | 9-75 | ... | 2 | 6-50 | 4 | 7-58 | 2-25 | Irriga- tor's Channel | 3-27 | 5-64 | ... | 4-88 | Irrigator's Channel, | 26-55 | | | | | |

of the finished crest of weir.
water is annually impounded at end of monsoon by fixing standards and boards on waste weir crest.

Capital Account of Irrigation Works in Deccan and

| Name of Work. | DURING YEAR. | | | | | | | | | |
|--|-----------------|----------------|------------------|-----------------|-------------------------------------|-----------------|-------------------|-------------------------------|-----------------|-----------------|
| | Direct Charges. | | | | | | Indirect Charges. | | | Grand Total. |
| | Works. | Establishment. | Tools and Plant. | Total. | Deduct Receipts on Capital Account. | Total. | Capitalisation. | Leave and Pension Allowances. | Total. | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| IMPERIAL. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| MAJOR WORKS. | | | | | | | | | | |
| PROTECTIVE WORKS. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 1. Nira Canal | 88,714 | 19,372 | -1,165 | 1,06,921 | 53 | 1,06,868 | 1,33,319 | 2,719 | 1,36,024 | 2,42,892 |
| 2. Mhasvad Tank | 2,920 | 666 | -35 | 3,541 | ... | 3,541 | ... | 92 | 92 | 3,633 |
| Total ... | 91,634 | 20,028 | -1,200 | 1,10,463 | 53 | 1,10,409 | 1,33,312 | 2,804 | 1,36,116 | 2,46,525 |
| <i>In abeyance.</i> | | | | | | | | | | |
| 3. Chankapur Tank | 141 | 32 | -1 | 172 | 6 | 166 | 21 | 4 | 25 | 191 |
| 4. Maládevi do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | 141 | 32 | -1 | 172 | 6 | 166 | 21 | 4 | 25 | 191 |
| Total, Protective Works ... | 91,775 | 20,060 | -1,201 | 1,10,634 | 59 | 1,10,575 | 1,33,333 | 2,808 | 1,36,141 | 2,46,716 |
| PRODUCTIVE WORKS. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 5. Háthmati Canal | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 6. Lower Pánjhra River Works | 423 | 91 | ... | 519 | ... | 519 | ... | 13 | 13 | 632 |
| 7. Kádva River Works | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 8. Pravara River Works—Lákh Canal | 513 | ... | -2 | 511 | ... | 511 | ... | ... | ... | 511 |
| 9. Mutha Canals | 67,217 | 13,449 | -699 | 79,967 | 57 | 79,910 | ... | 1,883 | 1,883 | 81,793 |
| 10. Ekruk Tank | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 11. Krishna Canal | 206 | 47 | ... | 253 | ... | 253 | 1,294 | 7 | 1,301 | 1,554 |
| Total, Productive Works ... | 68,364 | 13,587 | -701 | 81,250 | 57 | 81,193 | 1,294 | 1,903 | 3,197 | 84,390 |
| Total, Major Works ... | 1,60,139 | 33,647 | -1,902 | 1,91,864 | 116 | 1,91,768 | 1,34,627 | 4,711 | 1,39,338 | 3,31,106 |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 12. Khári Cut | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 13. Hartála Tank | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 14. Mhasva do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 15. Jámda Canals | 743 | 171 | 100 | 1,014 | ... | 1,014 | 23 | 24 | 47 | 1,061 |
| 16. Parsul Tank | 902 | 195 | -277 | 820 | ... | 820 | ... | 27 | 27 | 847 |
| 17. Pravara River Works—Ojhar Canal | 51 | 11 | -5 | 57 | ... | 57 | ... | 1 | 1 | 68 |
| 18. Bhátodi Tank | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 19. Mátoda do. | ... | ... | ... | ... | ... | ... | 695 | ... | 695 | 695 |
| 20. Kásurdi do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 21. Shirsuphal do. | 2,141 | ... | ... | 2,141 | ... | 2,141 | ... | ... | ... | 2,141 |
| 22. Bhádalvádi do. | ... | ... | ... | ... | ... | ... | 185 | ... | 185 | 185 |
| 23. Koregaon do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 24. Ashti do. | 10 | ... | ... | 10 | ... | 10 | ... | ... | ... | 10 |
| 25. Revári Canal | 49 | ... | ... | 49 | ... | 49 | ... | ... | ... | 49 |
| 26. Upper Mán River Works | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 27. Yerla River Irrigation Works | 5,772 | 1,327 | 356 | 7,455 | ... | 7,455 | ... | 186 | 186 | 7,641 |
| 28. Chikhli Canal | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 29. Maini Tank | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 30. Muchkundi Tank | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 31. Nilgund do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 32. Gadikeri do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 33. Dámbal do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 34. Medleri do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 35. Madag do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 36. Asundi do. | ... | ... | ... | ... | ... | ... | 12,536 | ... | 12,536 | 12,536 |
| 37. Mávinkop do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | 9,668 | 1,704 | 174 | 11,546 | ... | 11,546 | 13,439 | 238 | 13,677 | 25,223 |
| <i>In abeyance.</i> | | | | | | | | | | |
| 38. Gokák Canal, 2nd Section | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total, Minor Works and Navigation ... | 9,668 | 1,704 | 174 | 11,546 | ... | 11,546 | 13,439 | 238 | 13,677 | 25,223 |
| PROVINCIAL. | | | | | | | | | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 39. Gokák Canal, 1st Section, and storage Works | 3,550 | 767 | 205 | 4,522 | ... | 4,522 | 13,768 | 107 | 13,873 | 18,395 |
| GRAND TOTAL ... | 1,73,357 | 86,118 | -1,523 | 2,07,952 | 116 | 2,07,836 | 1,61,532 | 5,056 | 1,66,588 | 3,74,724 |

* Including expenditure charged to "35 Construction

B.

Gujarat for and to end of 1894-95.

| TO END OF YEAR. | | | | | | | | | |
|-----------------|----------------|------------------|-------------|-------------------------------------|-------------|-------------------|-------------------------------|-----------|--------------|
| Direct Charges. | | | | | | Indirect charges. | | | Grand Total. |
| Works. | Establishment. | Tools and Plant. | Total. | Deduct Receipts on Capital Account. | Total. | Capitalization. | Leave and Pension Allowances. | Total. | |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 41,62,714 | 10,16,889 | 1,30,038 | 53,09,641 | 8,009 | 53,01,632 | 1,34,709 | 1,59,636 | 2,94,345 | 55,95,977 |
| 15,81,745 | 3,41,988 | 62,800 | 19,86,533 | 1,473 | 19,85,060 | 7,817 | 53,008 | 60,825 | 20,46,885 |
| 57,44,459 | 13,58,877 | 1,92,838 | 72,96,174 | 9,482 | 72,86,692 | 1,42,526 | 2,12,644 | 3,55,170 | 76,41,862 |
| 38,927 | 18,013 | 7,260 | 64,200 | 181 | 64,019 | 21 | 3,163 | 3,184 | 67,203 |
| 20,967 | 11,600 | 1,456 | 34,023 | 68 | 33,955 | ..... | 2,161 | 2,161 | 36,116 |
| 59,894 | 29,613 | 8,716 | 98,223 | 249 | 97,974 | 21 | 5,324 | 5,345 | 1,03,319 |
| 58,04,353 | 13,88,490 | 2,01,551 | 73,94,397 | 9,731 | 73,84,666 | 1,42,547 | 2,17,063 | 3,60,515 | 77,45,181 |
| 3,83,836 | 99,517 | 9,060 | 4,92,213 | 1,288 | 4,90,925 | 7,640 | 19,830 | 27,470 | 5,18,395 |
| 3,62,148 | 73,713 | 3,228 | 4,39,089 | 37 | 4,39,052 | 8,432 | 14,380 | 22,812 | 4,61,864 |
| 5,37,980 | 1,38,961 | 16,960 | 6,93,901 | 140 | 6,93,761 | 4,316 | 21,339 | 28,655 | 7,22,416 |
| 2,64,529 | 68,641 | 19,477 | 3,52,647 | 201 | 3,52,446 | 5,824 | 13,621 | 19,445 | 3,71,891 |
| 52,47,967 | 9,69,847 | 1,16,754 | 63,34,568 | 12,226 | 63,22,342 | 52,502 | 1,81,645 | 2,34,147 | 65,56,489 |
| 10,07,089 | 2,12,509 | 9,713 | 12,29,311 | 1,194 | 12,28,117 | 69,948 | 42,321 | 1,12,269 | 13,40,386 |
| 6,74,654 | 1,42,209 | 1,682 | 8,13,545 | ... | 8,18,545 | 18,516 | 27,831 | 46,347 | 8,64,892 |
| 84,78,003 | 17,05,997 | 1,76,874 | 1,03,60,274 | 15,086 | 1,03,45,188 | 1,67,173 | 3,23,967 | 4,91,145 | 1,08,36,333 |
| 1,42,82,356 | 30,93,887 | 3,78,423 | 1,77,54,671 | 24,817 | 1,77,29,854 | 3,09,725 | 5,41,935 | 8,51,660 | 1,85,81,514 |
| 1,35,618 | 32,293 | 2,133 | 1,70,049 | 181 | 1,69,868 | 6,350 | 5,630 | 11,980 | 1,81,848 |
| 33,437 | 11,936 | 2,579 | 47,953 | 4 | 47,948 | 23,052 | 2,382 | 25,434 | 73,382 |
| 1,01,259 | 26,399 | 1,129 | 1,28,787 | 6 | 1,28,781 | 5,026 | 5,149 | 10,175 | 1,38,956 |
| 7,86,878 | 1,91,760 | 12,929 | 9,90,567 | 21 | 9,90,546 | 12,015 | 37,885 | 49,900 | 10,40,446 |
| 1,61,294 | 42,572 | 8,567 | 2,12,433 | 71 | 2,12,362 | 1,078 | 6,979 | 7,057 | 2,19,419 |
| 2,30,067 | 75,184 | 4,528 | 3,09,779 | 144 | 3,09,635 | 5,806 | 14,808 | 20,614 | 3,30,249 |
| 2,73,838 | 70,183 | 9,354 | 3,53,375 | 690 | 3,52,685 | 13,023 | 13,999 | 27,022 | 3,79,707 |
| 1,49,237 | 35,982 | 2,937 | 1,88,156 | 8 | 1,88,148 | 6,274 | 7,000 | 13,274 | 2,01,422 |
| 31,433 | 8,495 | 884 | 40,812 | ... | 40,812 | 3,079 | 1,699 | 4,778 | 45,590 |
| 1,70,379 | 38,190 | 2,861 | 2,11,430 | ... | 2,11,430 | 5,041 | 7,232 | 12,273 | 2,23,703 |
| 1,56,993 | 53,493 | 2,621 | 2,13,107 | ... | 2,13,107 | 4,067 | 10,240 | 14,307 | 2,27,414 |
| 30,044 | 7,661 | 218 | 37,923 | ... | 37,923 | ..... | 1,266 | 1,266 | 39,189 |
| 6,05,284 | 1,44,175 | 8,122 | 7,57,581 | 5,392 | 7,52,189 | 52,311 | 26,603 | 78,914 | 8,31,103 |
| 46,868 | 9,693 | 21 | 56,582 | ... | 56,582 | 1,066 | 1,781 | 2,847 | 59,429 |
| 3,07,424 | 93,456 | 6,782 | 4,07,662 | 241 | 4,07,421 | 4,787 | 17,354 | 22,141 | 4,29,562 |
| 5,27,482 | 1,10,120 | 7,964 | 6,45,566 | 2,365 | 6,43,201 | 22,303 | 20,675 | 43,043 | 6,86,244 |
| 39,984 | 13,611 | 208 | 53,803 | ... | 53,803 | 917 | 2,722 | 3,639 | 57,442 |
| 2,68,543 | 98,353 | 3,315 | 3,68,211 | 540 | 3,67,671 | 3,074 | 19,165 | 22,239 | 3,89,910 |
| 1,11,830 | 26,360 | 2,294 | 1,40,484 | 267 | 1,40,217 | 14,338 | 4,104 | 18,490 | 1,58,707 |
| 6,938 | 1,700 | 130 | 8,768 | ... | 8,768 | ..... | 259 | 259 | 9,027 |
| 7,020 | 1,755 | 140 | 8,915 | ... | 8,915 | 13 | 351 | 364 | 9,279 |
| 49,262 | 10,769 | 878 | 60,909 | 62 | 60,847 | 1,034 | 2,099 | 3,133 | 63,980 |
| 61,881 | 15,324 | 1,155 | 78,360 | 6 | 78,354 | 243 | 2,795 | 3,038 | 81,392 |
| 1,26,596 | 31,841 | 2,825 | 1,61,262 | 14 | 1,61,248 | ..... | 6,350 | 6,350 | 1,67,598 |
| 48,805 | 10,881 | 1,055 | 60,741 | ... | 60,741 | 12,536 | 1,718 | 14,254 | 74,995 |
| 21,665 | 5,762 | 323 | 27,750 | 133 | 27,612 | 2,083 | 1,152 | 3,235 | 30,847 |
| 44,87,059 | 11,67,953 | 85,952 | 57,40,964 | 10,150 | 57,30,814 | 1,99,629 | 2,50,397 | 4,20,026 | 61,50,840 |
| 92,036 | 70,024 | 14,216 | 1,76,306 | ... | 1,76,306 | 740 | 13,238 | 13,978 | 1,90,284 |
| 45,79,995 | 12,37,977 | 1,00,198 | 59,17,270 | 10,150 | 59,07,120 | 2,00,369 | 2,33,635 | 4,34,004 | 63,41,124 |
| 9,65,631 | 1,69,328 | 20,816 | 11,55,775 | 258 | 11,55,517 | 14,114 | 25,245 | 39,359 | * 11,94,876 |
| 1,03,27,082 | 45,01,192 | 4,09,442 | 2,48,27,716 | 35,225 | 2,47,93,491 | 5,24,308 | 8,00,815 | 13,25,023 | 2,61,17,514 |

of Protective Irrigation Works.

Statement showing the Financial Results of Irrigation Works in

Realizations under Main Heads of

| Name of Work. | REVENUE (ACTUAL RECEIPTS). | | | | | | | | | | Revenue | | |
|---|----------------------------|------------------------|-----------------|-------------|--------------|---------------|-----------------|-----------------|---------------------|-----------------------------|---------------|---------------|------------|
| | Irrigation. | | | Navigation. | Plantations. | Water-power. | Miscellaneous. | Total. | Refunds of Revenue. | Gross Revenue less Refunds. | Estab | | |
| | Water-rates directly paid. | Share of Land Revenue. | Total. | | | | | | | | Direction. | Executive. | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| IMPERIAL. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| MAJOR WORKS. | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | |
| 1. Nira Canal | 80,042 | ... | 80,042 | ... | ... | ... | 1,825 | 81,867 | 37 | 81,830 | 3,322 | 12,039 | |
| 2. Mhasvad Tank | 10,452 | ... | 10,452 | ... | ... | ... | 2,266 | 12,718 | ... | 12,718 | 1,785 | 3,360 | |
| Total ... | 90,494 | ... | 90,494 | ... | ... | ... | 4,091 | 94,585 | 37 | 94,548 | 5,107 | 15,399 | |
| <i>Productive Works.</i> | | | | | | | | | | | | | |
| 5. Hathmati Canal | 9,883 | ... | 9,883 | ... | 296 | ... | 900 | 11,079 | ... | 11,079 | 11 | 46 | |
| 6. Lower Pánjhra River Works | 11,121 | 6,788 | 17,909 | ... | 37 | ... | 492 | 18,438 | 1,883 | 16,555 | 301 | 1,980 | |
| 7. Kádva River Works | 10,910 | 594 | 11,504 | ... | 26 | ... | 357 | 11,887 | 8 | 11,879 | 617 | 9,318 | |
| 8. Pravara River Works— | | | | | | | | | | | | | |
| Lákh Canal | 1,269 | 117 | 1,416 | ... | 86 | ... | 146 | 1,648 | ... | 1,648 | 386 | 6,713 | |
| 9. Mutha Canals | 1,27,308 | 42 | 1,27,350 | ... | 38 | 6,000 | 1,02,476 | 3,35,864 | 2,478 | 2,33,386 | 4,525 | 16,418 | |
| 10. Ekrak Tank | 12,537 | ... | 12,537 | ... | 208 | ... | 16,126 | 28,871 | ... | 28,871 | 179 | 2,331 | |
| 11. Krishna Canal | 51,385 | ... | 51,385 | ... | ... | ... | 4,664 | 56,049 | ... | 56,049 | 154 | 1,267 | |
| Total ... | 2,24,413 | 7,571 | 2,31,984 | ... | 691 | 6,000 | 1,26,161 | 3,63,836 | 4,369 | 3,59,467 | 6,778 | 40,073 | |
| Total, Major Works ... | 3,14,907 | 7,571 | 3,22,478 | ... | 691 | 6,000 | 1,29,252 | 4,58,421 | 4,406 | 4,54,015 | 11,880 | 55,472 | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | |
| 12. Khári Cut | 9,035 | ... | 9,035 | ... | 270 | ... | 376 | 9,681 | ... | 9,681 | 65 | 414 | |
| 13. Hartala Tank | 282 | ... | 282 | ... | 1 | ... | 423 | 711 | ... | 711 | 57 | 411 | |
| 14. Mhasva do. | 601 | ... | 601 | ... | 230 | ... | 412 | 1,243 | ... | 1,243 | 61 | 496 | |
| 15. Jámda Canals | 8,527 | ... | 8,527 | ... | 2,318 | ... | 416 | 11,261 | ... | 11,261 | 502 | 4,003 | |
| 16. Parsul Tank | 1,887 | ... | 1,887 | ... | ... | ... | 30 | 1,897 | ... | 1,897 | 64 | 572 | |
| 17. Pravara River Works— | | | | | | | | | | | | | |
| Ojhar Canal | 7,208 | 76 | 7,284 | ... | 55 | ... | 399 | 7,738 | ... | 7,738 | 828 | 18,608 | |
| 18. Bhátodi Tank | 2,875 | 1,351 | 4,226 | ... | 33 | ... | 510 | 4,769 | ... | 4,769 | 354 | 7,951 | |
| 19. Mátoba do. | 9,663 | ... | 9,663 | ... | ... | ... | 143 | 9,806 | ... | 9,806 | 253 | 747 | |
| 20. Kisurdi do. | 216 | ... | 216 | ... | ... | ... | 301 | 517 | ... | 517 | 33 | 74 | |
| 21. Shirsuphal do. | 2,356 | ... | 2,356 | ... | ... | ... | 225 | 2,581 | ... | 2,581 | 206 | 695 | |
| 22. Bhádalvádi do. | 779 | ... | 779 | ... | ... | ... | 71 | 850 | ... | 850 | 110 | 336 | |
| 23. Koregaon do. | 1,003 | ... | 1,003 | ... | ... | ... | 25 | 1,028 | ... | 1,028 | 45 | 182 | |
| 24. Ashti do. | 3,969 | ... | 3,969 | ... | ... | ... | 419 | 4,388 | ... | 4,388 | 255 | 682 | |
| 25. Rovári Canal | 6,790 | ... | 6,790 | ... | ... | ... | 126 | 6,916 | ... | 6,916 | 24 | 228 | |
| 26. Upper Mán River Works... | 5,936 | ... | 5,936 | ... | ... | ... | 100 | 6,036 | ... | 6,036 | 61 | 522 | |
| 27. Yerla River Irrigation Works | 6,593 | ... | 6,593 | ... | ... | ... | 986 | 7,579 | ... | 7,579 | 122 | 584 | |
| 28. Chikhli Canal | 1,379 | ... | 1,379 | ... | ... | ... | 63 | 1,442 | ... | 1,442 | 12 | 96 | |
| 29. Maini Tank | 3,473 | ... | 3,473 | ... | ... | ... | 515 | 3,988 | ... | 3,988 | 64 | 725 | |
| 30. Muchkundi Tank | 89 | ... | 89 | ... | ... | ... | 200 | 289 | ... | 289 | ... | ... | |
| 31. Nilgund do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 32. Gadikeri do. | ... | 1,987 | 1,987 | ... | ... | ... | ... | 1,987 | ... | 1,987 | ... | ... | |
| 33. Dámhal do. | 597 | 982 | 1,579 | ... | 204 | ... | 321 | 2,104 | ... | 2,104 | 9 | 332 | |
| 34. Medleri do. | 489 | ... | 489 | ... | ... | ... | 16 | 505 | ... | 505 | 12 | 357 | |
| 35. Madag do. | 2,713 | ... | 2,713 | ... | 154 | ... | 153 | 3,020 | ... | 3,020 | 26 | 608 | |
| 36. Asundi do. | 725 | 632 | 1,357 | ... | 1 | ... | ... | 1,358 | ... | 1,358 | 12 | 354 | |
| 37. Mávinkop do. | ... | 1,012 | 1,012 | ... | ... | ... | 5 | 1,017 | ... | 1,017 | ... | ... | |
| Total, Minor Works and Navigation ... | 77,185 | 6,040 | 83,225 | ... | 3,266 | ... | 6,220 | 92,711 | ... | 92,711 | 3,165 | 39,177 | |
| PROVINCIAL. | | | | | | | | | | | | | |
| <i>Minor Works and Navigation.</i> | | | | | | | | | | | | | |
| 19. Gokák Canal, First Section and Storage Works | 11,628 | ... | 11,628 | ... | 67 | 4,920 | 165 | 16,780 | 24 | 16,756 | 82 | 1,173 | |
| GRAND TOTAL ... | 4,03,720 | 13,611 | 4,17,331 | ... | 4,024 | 10,920 | 1,35,637 | 5,67,912 | 4,430 | 5,63,482 | 15,127 | 95,522 | |

Notes.—(1) The Irrigation share of the Land Revenue Assessment relates to the Revenue year 1894-95.

(2) The division of Establishment charges between "Revenue Management" and "Maintenance and Repairs" is made in accordance

C.

Deccan and Gujarat for the year ending 31st March 1895.

Revenue and Working Expenses.

| WORKING EXPENSES. | | | | | | | | | | | | | | | | |
|-------------------|-----------------|---------------------------|--------------------------|----------|-----------|------------------|--------------|----------------------------|----------------|------------|----------|----------|-------------------|-------------------------------|--------------|--|
| Management. | | | Maintenance and Repairs. | | | | | | | | | | Indirect charges. | Grand Total Working Expenses. | Net Revenue. | |
| Establishment. | | Total Revenue Management. | Works. | Repairs. | Sundries. | Tools and Plant. | Plantations. | Total cost of Maintenance. | Establishment. | | | | | | | |
| Navigation. | Civil Officers. | | | | | | | | Direction. | Executive. | Medical. | Total. | | | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| ... | 4,002 | 19,363 | 1,311 | 4,749 | 279 | 6,339 | 502 | 22,506 | ... | 603 | 1,232 | 31,187 | 3,038 | 53,588 | 28,242 | |
| ... | 534 | 5,679 | 1,481 | 2,791 | 66 | 4,338 | 11,198 | 5,575 | ... | 25 | 317 | 21,453 | 1,328 | 28,460 | -15,742 | |
| ... | 4,536 | 25,042 | 2,792 | 7,540 | 345 | 10,677 | 11,700 | 28,081 | ... | 633 | 1,549 | 52,640 | 4,366 | 82,048 | 12,500 | |
| ... | 494 | 551 | 193 | 817 | ... | 1,045 | ... | 3,894 | 150 | 6 | 287 | 5,382 | 154 | 6,087 | 4,992 | |
| ... | 1,547 | 3,828 | 62 | 412 | ... | 474 | 565 | 1,104 | ... | 100 | 229 | 2,472 | 386 | 6,686 | 9,869 | |
| ... | 551 | 10,486 | 54 | 822 | ... | 876 | ... | 3,266 | ... | 144 | 210 | 4,526 | 1,514 | 16,526 | -4,647 | |
| ... | 78 | 9,177 | 23 | 512 | ... | 535 | ... | 2,142 | ... | 116 | ... | 2,793 | 1,349 | 13,319 | -11,671 | |
| ... | 6,330 | 27,273 | 1,783 | 6,467 | ... | 8,250 | 760 | 32,849 | ... | 6,363 | 127 | 48,349 | 4,087 | 79,709 | 1,53,677 | |
| ... | 624 | 3,734 | 379 | 1,136 | ... | 1,515 | 2 | 4,950 | ... | 95 | 1,107 | 7,669 | 647 | 12,050 | 16,821 | |
| ... | 3,584 | 5,005 | 179 | 1,486 | ... | 1,665 | 297 | 5,806 | 403 | 100 | 558 | 8,829 | 432 | 14,266 | 41,783 | |
| ... | 13,208 | 60,054 | 2,678 | 11,682 | ... | 14,360 | 1,624 | 54,011 | 553 | 6,924 | 2,548 | 80,020 | 8,569 | 1,48,643 | 2,10,824 | |
| ... | 17,744 | 85,096 | 5,470 | 19,222 | 345 | 25,037 | 13,324 | 82,092 | 553 | 7,557 | 4,097 | 1,32,660 | 12,935 | 2,30,691 | 2,23,324 | |
| ... | 452 | 931 | 133 | 855 | ... | 988 | ... | 3,916 | ... | 30 | 37 | 4,971 | 205 | 6,107 | 3,574 | |
| ... | 35 | 503 | 11 | 79 | ... | 90 | ... | 355 | ... | ... | 4 | 449 | 78 | 1,030 | -319 | |
| ... | 30 | 587 | 10 | 82 | ... | 92 | 33 | 170 | ... | 50 | 200 | 545 | 91 | 1,223 | 20 | |
| ... | 426 | 4,931 | 85 | 693 | ... | 768 | ... | 3,071 | ... | 200 | ... | 4,039 | 738 | 9,708 | 1,553 | |
| ... | 94 | 730 | 9 | 86 | ... | 95 | ... | 320 | ... | 50 | 62 | 527 | 102 | 1,359 | 538 | |
| ... | 372 | 20,008 | 48 | 1,097 | ... | 1,145 | ... | 4,535 | ... | 122 | 47 | 5,849 | 2,909 | 28,766 | -21,028 | |
| ... | 280 | 8,685 | 21 | 470 | ... | 491 | ... | 1,865 | ... | 11 | 98 | 2,465 | 1,231 | 12,281 | -7,512 | |
| ... | 483 | 1,483 | 124 | 369 | ... | 493 | ... | 1,972 | ... | 100 | ... | 2,565 | 209 | 4,257 | 5,519 | |
| ... | 11 | 108 | 10 | 33 | ... | 43 | ... | 173 | ... | 25 | ... | 241 | 20 | 369 | 148 | |
| ... | 118 | 1,019 | 88 | 296 | ... | 384 | ... | 1,538 | ... | 75 | ... | 1,997 | 180 | 3,196 | -615 | |
| ... | 39 | 485 | 52 | 160 | ... | 212 | ... | 848 | ... | 50 | ... | 1,110 | 92 | 1,687 | -837 | |
| ... | 50 | 277 | 15 | 63 | ... | 78 | ... | 312 | ... | 20 | ... | 410 | 43 | 730 | 298 | |
| ... | 163 | 1,100 | 112 | 378 | ... | 520 | ... | 1,843 | ... | 50 | 236 | 2,649 | 204 | 3,953 | 435 | |
| ... | 337 | 569 | 23 | 214 | ... | 237 | ... | 869 | ... | 97 | 78 | 1,281 | 68 | 1,938 | 4,978 | |
| ... | 296 | 879 | 63 | 555 | ... | 618 | ... | 2,224 | ... | 100 | 250 | 3,192 | 168 | 4,239 | 1,797 | |
| ... | 331 | 1,037 | 754 | 3,624 | ... | 4,378 | 13,647 | 3,221 | ... | 112 | 645 | 22,003 | 712 | 23,752 | -16,173 | |
| ... | 69 | 177 | 14 | 118 | ... | 132 | ... | 483 | ... | 4 | 39 | 663 | 34 | 874 | 568 | |
| ... | 174 | 963 | 41 | 480 | ... | 521 | -127 | 2,109 | ... | 50 | 128 | 2,681 | 183 | 3,827 | 161 | |
| ... | 4 | 4 | 9 | 98 | ... | 107 | 266 | 132 | ... | 3 | 39 | 547 | 15 | 566 | -277 | |
| ... | ... | ... | 1 | 3 | ... | 4 | ... | 20 | ... | ... | ... | 24 | 1 | 25 | -25 | |
| ... | 199 | 199 | 1 | 6 | ... | 7 | ... | 29 | ... | ... | ... | 36 | 1 | 236 | 1,751 | |
| ... | 144 | 485 | 2 | 54 | ... | 56 | 110 | 211 | ... | ... | ... | 377 | 56 | 918 | 1,186 | |
| ... | 25 | 394 | 3 | 73 | ... | 76 | ... | 303 | ... | ... | ... | 379 | 62 | 835 | -330 | |
| ... | 136 | 770 | 6 | 155 | ... | 161 | ... | 500 | ... | ... | 145 | 806 | 111 | 1,687 | 1,333 | |
| ... | 99 | 465 | 3 | 73 | ... | 76 | ... | 306 | ... | ... | ... | 382 | 62 | 909 | 449 | |
| ... | 101 | 101 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 101 | 916 | |
| ... | 4,468 | 46,810 | 1,668 | 10,104 | ... | 11,772 | 13,929 | 31,330 | ... | 1,149 | 2,008 | 60,188 | 7,575 | 1,14,573 | -21,862 | |
| ... | 827 | 2,082 | 39 | 565 | ... | 604 | ... | 2,240 | ... | 300 | 176 | 3,320 | 260 | 5,682 | 11,094 | |
| ... | 23,039 | 1,33,988 | 7,177 | 29,891 | 345 | 37,413 | 27,253 | 1,15,662 | 553 | 9,006 | 6,281 | 1,96,168 | 20,770 | 3,50,926 | 2,12,556 | |

with the orders contained in Government of India No. 98 A.I., dated 19th August 1884.

F. HUTCHINSON,
Examiner, Public Works Accounts.

II.—C.

Statement showing the Financial Results of Irrigation Works in Deccan and Gujarat for the year 1894-95, based on actual receipts.

Principal Results of operations for the year ended 31st March 1895.

| Irrigation Works. | Direct and Indirect Capital outlay to end of 1894-95. | Gross Receipts, Direct and Indirect, from all sources. | Working Expenses, Direct and Indirect. | Net revenue (excluding charges for interest). | Percentage of net Revenue on Capital outlay to end of the year. | Interest at 4 per cent. on direct capital outlay at commencement of year and at 2 per cent. on outlay during year. | SURPLUS REVENUE AFTER PAYING INTEREST ON DIRECT CAPITAL OUTLAY. | | EXCESS CHARGES, INCLUDING INTEREST ON DIRECT CAPITAL OUTLAY. | |
|--|---|--|--|---|---|--|---|------------------------------------|--|------------------------------------|
| | | | | | | | Amount. | Percentage on total sum at charge. | Amount. | Percentage on total sum at Charge. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| IMPERIAL. | | | | | | | | | | |
| MAJOR WORKS. | | | | | | | | | | |
| PROTECTIVE WORKS. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 1 Nira Canal | 55,95,977 | 81,830 | 53,588 | 28,242 | *50 | 2,09,928 | ... | ... | 1,81,686 | 2*41 |
| 2 Mhasvad Tank | 20,45,885 | 12,718 | 28,460 | -15,742 | *77 | 79,332 | ... | ... | 95,074 | 3*24 |
| Total | 76,41,862 | 94,548 | 82,048 | 12,500 | *16 | 2,89,260 | ... | ... | 2,76,760 | 2*66 |
| <i>In abeyance.</i> | | | | | | | | | | |
| 3 Chankapur Tank | 87,308 | ..... | ..... | ..... | ... | 2,557 | ... | ... | 2,557 | 2*59 |
| 4 Maladevi do. | 86,116 | ..... | ..... | ..... | ... | 1,358 | ... | ... | 1,358 | 2*79 |
| Total | 1,03,319 | ..... | ..... | ..... | ... | 3,915 | ... | ... | 3,915 | 2*66 |
| Total Protective Works | 77,45,181 | 94,548 | 82,048 | 12,500 | *16 | 2,93,175 | ... | ... | 2,80,675 | 2*64 |
| PRODUCTIVE WORKS. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 5 Hathmatl Canal | 5,19,395 | 11,079 | 6,087 | 4,992 | *86 | 19,637 | ... | ... | 14,646 | 1*47 |
| 6 Lower Panjra River Works | 4,61,864 | 16,555 | 6,686 | 9,869 | 2*14 | 17,552 | ... | ... | 7,683 | 1*64 |
| 7 Kadva River Works | 7,22,416 | 11,879 | 16,526 | -4,647 | *64 | 27,751 | ... | ... | 32,398 | 2*82 |
| 8 Pravara River Works—Lakh Canal | 3,71,691 | 1,848 | 13,319 | -11,671 | *314 | 14,088 | ... | ... | 25,759 | 3*17 |
| 9 Mutha Canals | 65,56,489 | 2,33,386 | 79,709 | 1,53,677 | 2*34 | 2,51,295 | ... | ... | 87,818 | 1*60 |
| 10 Ekruk Tank | 13,40,386 | 28,871 | 12,050 | 16,821 | *125 | 49,124 | ... | ... | 33,503 | 1*22 |
| 11 Krishna Canal | 8,64,882 | 56,049 | 14,286 | 41,763 | *483 | 32,737 | 9,046 | *57 | ... | ... |
| Total Productive Works | 1,08,36,333 | 3,59,407 | 1,48,943 | 2,10,824 | 1*95 | 4,12,184 | ... | ... | 2,01,900 | 1*14 |
| Total Major Works | 1,85,81,514 | 4,54,015 | 2,30,991 | 2,23,324 | 1*90 | 7,05,359 | ... | ... | 4,82,635 | 1*71 |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 12 Khari Cut | 1,81,848 | 9,681 | 6,107 | 3,574 | 1*97 | 6,795 | ... | ... | 3,221 | 1*33 |
| 13 Hartala Tank | 73,382 | 711 | 1,030 | -319 | *43 | 1,918 | ... | ... | 2,237 | 2*20 |
| 14 Mhasva Tank | 1,38,956 | 1,243 | 1,223 | 20 | *01 | 5,151 | ... | ... | 5,181 | 2*17 |
| 15 Janda Canals | 10,40,446 | 11,361 | 9,708 | 1,553 | *16 | 39,602 | ... | ... | 58,049 | 1*70 |
| 16 Parsul Tank | 2,19,419 | 1,897 | 1,359 | 538 | *25 | 8,478 | ... | ... | 7,940 | 2*83 |
| 17 Pravara River Works—Ojhar Canal | 3,30,249 | 7,738 | 28,708 | -21,028 | *537 | 12,864 | ... | ... | 33,412 | 5*72 |
| 18 Bhadodi Tank | 3,79,707 | 4,769 | 12,381 | -7,512 | *200 | 14,107 | ... | ... | 21,619 | 3*14 |
| 19 Matoba do. | 2,01,423 | 9,806 | 4,257 | 5,549 | *276 | 7,526 | ... | ... | 1,977 | *75 |
| 20 Kasurdi do. | 45,690 | 517 | 369 | 148 | *32 | 1,833 | ... | ... | 1,485 | 1*53 |
| 21 Shirsuphal Tank | 2,23,703 | 2,561 | 3,198 | -615 | *27 | 8,414 | ... | ... | 9,029 | 2*67 |
| 22 Bhadasvadi do. | 2,27,414 | 650 | 1,667 | -537 | *37 | 6,524 | ... | ... | 8,801 | 2*72 |
| 23 Koregaon do. | 39,189 | 1,028 | 730 | 298 | *76 | 1,617 | ... | ... | 1,219 | 1*69 |
| 24 Ashti do. | 8,31,103 | 4,388 | 3,953 | 435 | *08 | 30,087 | 2,716 | 2*56 | 29,652 | 2*29 |
| 25 Revari Canal | 59,429 | 6,916 | 1,938 | 4,978 | *338 | 2,262 | ... | ... | 14,500 | 2*05 |
| 26 Upper Man River Works | 4,26,562 | 6,036 | 4,289 | 1,747 | *42 | 19,207 | ... | ... | 41,732 | 3*72 |
| 27 Yerla River Irrigation Works | 6,86,244 | 7,679 | 23,762 | -16,173 | *236 | 25,679 | ... | ... | 1,354 | 1*37 |
| 28 Chikhli Canal | 87,443 | 1,442 | 874 | 568 | *69 | 2,152 | ... | ... | 14,546 | 2*10 |
| 29 Maini Tank | 3,69,810 | 3,988 | 3,327 | 161 | *04 | 14,707 | ... | ... | 5,890 | 2*59 |
| 30 Muchkund Tank | 1,68,707 | 289 | 566 | -277 | *17 | 5,649 | ... | ... | 370 | 2*68 |
| 31 Nilgund do. | 9,027 | ..... | 23 | 25 | *28 | 351 | ... | ... | 1,240 | 1*32 |
| 32 Gadikeri do. | 9,279 | 1,987 | 230 | 1,751 | 18*87 | 357 | 1,394 | ... | ... | ... |
| 33 Dambal do. | 83,960 | 2,104 | 918 | 1,186 | 1*86 | 2,434 | ... | ... | 3,444 | 2*63 |
| 34 Medleri do. | 81,392 | 505 | 695 | -330 | *41 | 2,134 | ... | ... | 5,117 | 1*45 |
| 35 Madag do. | 1,67,698 | 3,020 | 1,087 | 1,933 | *60 | 6,460 | ... | ... | 1,981 | 1*94 |
| 36 Aundi do. | 74,995 | 1,368 | 909 | 449 | *60 | 2,430 | ... | ... | 198 | *49 |
| 37 Mavinkop do. | 80,847 | 1,017 | 101 | 916 | 2*97 | 1,104 | ... | ... | ... | ... |
| Total | 61,50,840 | 92,711 | 1,14,573 | -21,862 | *86 | 2,20,002 | ... | ... | 2,50,804 | 2*39 |
| <i>In abeyance.</i> | | | | | | | | | | |
| 38 Gokak Canal—Second Section | 1,90,284 | ..... | ..... | ..... | ... | 7,052 | ... | ... | 7,052 | 2*31 |
| Total Minor Works and Navigation | 63,41,124 | 92,711 | 1,14,573 | -21,862 | *84 | 2,30,054 | ... | ... | 2,57,916 | 2*39 |
| PROVINCIAL. | | | | | | | | | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| <i>In operation.</i> | | | | | | | | | | |
| 39 Gokak Canal—First Section and Storage Works | 11,94,876 | 16,756 | 5,603 | 11,094 | *93 | 46,180 | ... | ... | 36,036 | 2*46 |
| GRAND TOTAL | 2,61,17,514 | 5,63,462 | 3,50,928 | 2,12,556 | *91 | 9,87,543 | ... | ... | 7,74,967 | 1*92 |

* The sum at charge being minor, no percentage can be calculated.

F. HUTCHINSON,
Examiner, Public Works Accounts.

III.—C.

Demands and Realizations during the year 1894-95 in Deccan and Gujardt.

| Irrigation Works. | Balance of demands unrealized at commencement of year. | DEMANDS OF THE YEAR. | | | | Total including balance at commencement of year. | Deduct—Remissions not including Cash Refunds. | Net Total. | Deduct—Amount unrealized at close of year. | Actual realizations of the year. |
|--|--|----------------------|------------------|-------------------------|-----------------|--|---|-----------------|--|----------------------------------|
| | | Rabi, 1893-94. | Kharif, 1894-95. | Miscellaneous Receipts. | Total. | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| IMPERIAL. | | | | | | | | | | |
| MAJOR WORKS. | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | |
| 1. Nira Canal | 40 | 25,149 | 54,558 | 1,845 | 81,852 | 81,892 | ... | 81,892 | 25 | 81,867 |
| 2. Mhasvad Tank | 324 | 4,334 | 6,302 | 2,266 | 12,902 | 13,226 | ... | 13,226 | 508 | 12,718 |
| Total ... | 364 | 29,783 | 60,860 | 4,111 | 94,754 | 95,118 | ... | 95,118 | 533 | 94,585 |
| <i>Productive Works.</i> | | | | | | | | | | |
| 5. Hathmati Canal... .. | 339 | 5,019 | 5,638 | 1,196 | 11,853 | 12,192 | ... | 12,192 | 1,113 | 11,079 |
| 6. Lower Panjhra River Works ... | 465 | (b) 3,338 | 7,422 | 529 | 11,289 | (a) 11,754 | 104 | 11,650 | ... | 11,650 |
| 7. Kadva River Works | 2,095 | 5,063 | 5,270 | 319 | 10,652 | (a) 12,747 | ... | 12,747 | 1,454 | 11,293 |
| 8. Pravara River Works— Lakh Canal | 8 | 563 | 721 | 232 | 1,516 | (a) 1,524 | ... | 1,524 | 23 | 1,501 |
| 9. Mutha Canals | 11,532 | 4,918 | 1,33,160 | 1,08,661 | 2,46,739 | (a) 2,58,271 | 90 | 2,58,181 | 22,359 | 2,35,822 |
| 10. Ekrak Tank | 1,397 | 2,326 | 9,913 | 16,088 | 28,327 | 29,724 | ... | 29,724 | 833 | 28,871 |
| 11. Krishna Canal | 7,924 | 7,164 | 36,957 | 4,664 | 48,755 | 56,709 | ... | 56,709 | 660 | 56,049 |
| Total ... | 23,760 | 28,391 | 1,99,081 | 1,31,689 | 3,59,161 | 3,82,921 | 194 | 3,82,727 | 26,462 | 3,56,265 |
| Total Major Works ... | 24,124 | 58,174 | 2,59,941 | 1,35,800 | 4,53,915 | 4,78,039 | 194 | 4,77,845 | 26,995 | 4,50,850 |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| 12. Khari Cut | 4,878 | 127 | 12,089 | 645 | 12,862 | 17,740 | ... | 17,732 | 8,051 | 9,681 |
| 13. Hartala Tank | ... | 216 | 66 | 429 | 711 | 711 | 8 | 711 | ... | 711 |
| 14. Mhasva do. | ... | 429 | 172 | 642 | 1,243 | 1,243 | ... | 1,243 | ... | 1,243 |
| 15. Jamba Canals | 1,035 | 2,270 | 6,413 | 2,734 | 11,417 | 12,452 | ... | 12,452 | 1,191 | 11,261 |
| 16. Parsul Tank | ... | 1,165 | 708 | 10 | 1,883 | 1,883 | ... | 1,883 | -14 | 1,897 |
| 17. Pravara River Works— Ojbar Canal | 1,247 | 4,008 | 2,617 | 371 | 6,996 | (a) 8,243 | 8 | 8,235 | 573 | 7,662 |
| 18. Bhatodi Tank | 542 | 2,097 | 2,573 | 545 | 5,215 | (a) 5,757 | ... | 5,757 | 2,339 | 3,418 |
| 19. Matoba do. | ... | 1,066 | 8,607 | 143 | 9,806 | 9,806 | ... | 9,806 | ... | 9,806 |
| 20. Kasurdi do. | ... | 208 | 8 | 301 | 517 | 517 | ... | 517 | ... | 517 |
| 21. Shirsuphal do. | ... | 1,277 | 1,079 | 225 | 2,581 | 2,581 | ... | 2,581 | ... | 2,581 |
| 22. Bhadalvadi do. | ... | 716 | 63 | 71 | 850 | 850 | ... | 850 | ... | 850 |
| 23. Koregaon do. | ... | 530 | 473 | 25 | 1,028 | 1,028 | ... | 1,028 | ... | 1,028 |
| 24. Ashti do. | 542 | 1,163 | 2,825 | 419 | 4,407 | 4,949 | 15 | 4,934 | 546 | 4,388 |
| 25. Revári Canal | ... | 3,797 | 3,011 | 126 | 6,934 | 6,934 | 18 | 6,916 | ... | 6,916 |
| 26. Upper Man River Works ... | 100 | 1,938 | 4,264 | 100 | 6,302 | 6,402 | ... | 6,402 | 366 | 6,036 |
| 27. Yerla River Irrigation Works ... | 25 | 4,910 | 1,693 | 986 | 7,589 | 7,614 | ... | 7,614 | 35 | 7,579 |
| 28. Chikhli Canal | 9 | 309 | 1,061 | 63 | 1,433 | 1,442 | ... | 1,442 | ... | 1,442 |
| 29. Maini Tank | 126 | 1,671 | 1,760 | 515 | 3,946 | 4,072 | ... | 4,072 | 84 | 3,988 |
| 30. Muchkundi do. | ... | 7 | 82 | 200 | 289 | 289 | ... | 289 | ... | 289 |
| 31. Nilgund do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 32. Gadikeri do. | ... | ... | ... | ... | ... | (a) ... | ... | ... | ... | ... |
| 33. Dambal do. | ... | 50 | 623 | 525 | 1,198 | (a) 1,198 | ... | 1,198 | 76 | 1,122 |
| 34. Medleri do. | ... | 127 | 362 | 16 | 605 | 605 | ... | 605 | ... | 605 |
| 35. Madag do. | 516 | 1,097 | 1,275 | 307 | 2,679 | 3,195 | ... | 3,195 | 175 | 3,020 |
| 36. Asundi do. | 133 | 116 | 476 | 1 | 693 | (a) 726 | ... | 726 | ... | 726 |
| 37. Mavinkop do. | ... | ... | ... | 5 | 5 | (a) 5 | ... | 5 | ... | 5 |
| Total Minor Works and Navigation ... | 9,153 | 29,284 | 52,300 | 9,405 | 90,959 | 1,00,142 | 49 | 1,00,093 | 13,422 | 86,671 |
| PROVINCIAL. | | | | | | | | | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| 39. Gokak Canal, 1st Section, and Storage Works | ... | 3,120 | 8,508 | 5,152 | 16,780 | 16,780 | ... | 16,780 | ... | 16,780 |
| GRAND TOTAL ... | 33,277 | 90,578 | 3,20,749 | 1,50,357 | 5,61,684 | 5,94,961 | 243 | 5,94,718 | 40,417 | 5,54,301 |

(a) Exclusive of irrigation share of consolidated assessment.
 (b) Inclusive of Rs. 1,303 on account of Rabi of 1894-95 shown in Canal Return No. IX.

F. HUTCHINSON,
 Examiner, Public Works Accounts.

IV—C.

Statement showing the Financial Results of Irrigation Works in Deccan and Gujrat for the year ended 1894-95, based on the Assessment of the year.

Principal Results and Operations for the year ended 31st March 1895.

| Irrigation Works. | Capital Outlay (direct and indirect) to end of year. | REVENUE ASSESSED DURING THE YEAR. | | | | | | | | | Working Expenses direct and indirect. | Net Revenue of the year. | Percentage on Capital Outlay to end of year. | |
|------------------------------------|--|-----------------------------------|-----------------|-------------|--------------|---------------|----------------|-----------------|-----------------|--|---------------------------------------|--------------------------|--|--------------|
| | | Direct assessed Revenue. (a) | | | | | | | | Indirect Revenue—Land Revenue due to Operation of Canal. (b) | | | | Grand Total. |
| | | Occupier's rate. | Owner's rate. | Plantation. | Water power. | Navigation. | Miscellaneous. | Total. | Total. | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| IMPERIAL. | | | | | | | | | | | | | | |
| MAJOR WORKS. | | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | | |
| 1 | Nira Canal | 55,95,977 | 90,884 | ... | ... | ... | 1,845 | 92,700 | ... | 92,700 | 68,598 | 89,121 | 70 | |
| 2 | Mhaavad Tank | 20,45,885 | 13,869 | ... | ... | ... | 2,206 | 16,135 | ... | 16,135 | 28,480 | -12,325 | 60 | |
| | Total | 76,41,862 | 1,04,753 | ... | ... | ... | 4,111 | 1,08,844 | ... | 1,08,844 | 82,048 | 26,796 | 35 | |
| <i>Productive Works.</i> | | | | | | | | | | | | | | |
| 5 | Hathmati Canal | 5,18,395 | 10,537 | ... | 296 | ... | ... | 900 | 11,733 | ... | 6,087 | 5,646 | 109 | |
| 6 | Lower Panjhra River Works | 4,61,894 | 10,442 | ... | 37 | ... | ... | 492 | 10,871 | 6,788 | 17,759 | 6,686 | 11,073 | 240 |
| 7 | Kadva River Works | 7,22,416 | 10,605 | ... | 20 | ... | ... | 293 | 10,524 | 594 | 11,418 | 16,526 | -5,108 | 71 |
| 8 | Pravara River Works—Lakh Canal. | 3,71,691 | 1,065 | ... | 86 | ... | ... | 146 | 1,297 | 147 | 1,444 | 13,319 | -11,476 | 319 |
| 9 | Mutha Canals | 65,56,459 | 1,89,252 | ... | ... | 6,000 | ... | 1,02,623 | 2,47,913 | 42 | 2,47,955 | 79,708 | 1,68,246 | 347 |
| 10 | Ekrak Tank | 13,40,336 | 13,463 | ... | 208 | ... | ... | 16,830 | 29,551 | ... | 29,551 | 12,050 | 17,501 | 131 |
| 11 | Krishna Canal | 8,64,892 | 44,377 | ... | ... | ... | ... | 4,664 | 49,041 | ... | 49,041 | 14,236 | 34,775 | 402 |
| | Total | 1,08,96,333 | 2,29,611 | ... | 691 | 6,000 | ... | 1,24,908 | 3,61,330 | 7,571 | 3,68,901 | 1,48,643 | 2,20,258 | 203 |
| | Total Major Works | 1,34,73,195 | 3,34,374 | ... | 691 | 6,000 | ... | 1,29,109 | 4,70,174 | 7,571 | 4,77,745 | 2,39,691 | 2,47,064 | 134 |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | |
| 12 | Khari Cut | 1,31,848 | 12,261 | ... | 270 | ... | ... | 376 | 12,607 | ... | 12,907 | 6,107 | 6,600 | 374 |
| 13 | Hartala Tank | 78,382 | 298 | ... | 1 | ... | ... | 429 | 687 | ... | 687 | 1,030 | -393 | 54 |
| 14 | Mhasva do. | 1,38,656 | 395 | ... | 250 | ... | ... | 412 | 1,037 | ... | 1,037 | 1,223 | -186 | 13 |
| 15 | Jamsa Canals | 10,40,446 | 7,744 | ... | 2,318 | ... | ... | 416 | 10,478 | ... | 10,478 | 6,708 | 770 | 97 |
| 16 | Pansul Tank | 2,19,419 | 1,686 | ... | ... | ... | ... | 30 | 1,705 | ... | 1,705 | 1,379 | 340 | 16 |
| 17 | Pravara River Works—Ojhar Canal. | 3,30,249 | 4,678 | ... | 55 | ... | ... | 316 | 5,019 | 70 | 5,125 | 28,766 | -23,641 | 716 |
| 18 | Bhatodi Tank | 3,79,707 | 5,467 | ... | 33 | ... | ... | 512 | 6,012 | 1,361 | 7,393 | 12,981 | -4,913 | 130 |
| 19 | Matoba do. | 2,01,422 | 9,306 | ... | ... | ... | ... | 143 | 10,079 | ... | 10,079 | 4,257 | 5,822 | 239 |
| 20 | Kasurdi do. | 45,590 | 8 | ... | ... | ... | ... | 301 | 806 | ... | 806 | 966 | -69 | 23 |
| 21 | Shivnaphal do. | 2,23,703 | 1,079 | ... | ... | ... | ... | 225 | 1,304 | ... | 1,304 | 3,190 | -1,892 | 65 |
| 22 | Bhadalwadi do. | 39,189 | 674 | ... | ... | ... | ... | 71 | 745 | ... | 745 | 1,637 | -943 | 41 |
| 23 | Koregaon do. | 8,27,414 | 674 | ... | ... | ... | ... | 25 | 1,175 | ... | 1,175 | 790 | 445 | 114 |
| 24 | Ashi do. | 8,81,103 | 1,150 | ... | ... | ... | ... | 419 | 5,136 | ... | 5,136 | 3,053 | 1,183 | 74 |
| 25 | Bevari Canal | 59,429 | 4,717 | ... | ... | ... | ... | 126 | 6,690 | ... | 6,690 | 1,038 | 4,722 | 705 |
| 26 | Upper Man River Works | 4,29,502 | 6,675 | ... | ... | ... | ... | 109 | 6,775 | ... | 6,773 | 4,239 | 2,536 | 769 |
| 27 | Yerla River Irrigation Works | 6,86,244 | 8,722 | ... | ... | ... | ... | 996 | 9,708 | ... | 9,708 | 23,762 | -14,044 | 205 |
| 28 | Chikhli Canal | 57,442 | 1,670 | ... | ... | ... | ... | 63 | 2,039 | ... | 2,039 | 874 | 1,165 | 203 |
| 29 | Maini Tank | 3,89,910 | 5,091 | ... | ... | ... | ... | 515 | 5,606 | ... | 5,606 | 2,827 | 1,779 | 44 |
| 30 | Muchkundi Tank | 1,68,707 | 89 | ... | ... | ... | ... | 200 | 289 | ... | 289 | 696 | -277 | 17 |
| 31 | Nitgund do. | 9,027 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 25 | -25 | 28 |
| 32 | Gadikeri do. | 9,279 | ... | ... | ... | ... | ... | ... | 1,087 | ... | 1,087 | 296 | 1,751 | 1807 |
| 33 | Dambal do. | 63,980 | 885 | ... | 204 | ... | ... | 321 | 1,410 | 882 | 2,392 | 919 | 1,474 | 230 |
| 34 | Medleri do. | 81,392 | 478 | ... | ... | ... | ... | 16 | 494 | ... | 494 | 886 | -341 | 42 |
| 35 | Madag do. | 1,02,698 | 2,239 | ... | 154 | ... | ... | 153 | 2,546 | ... | 2,546 | 1,687 | 669 | 61 |
| 36 | Asundi do. | 74,995 | 79 | ... | 1 | ... | ... | ... | 780 | ... | 780 | 998 | 609 | 407 |
| 37 | Mavinkop do. | 30,847 | ... | ... | ... | ... | ... | 5 | 6 | ... | 6 | 101 | 919 | 297 |
| | Total Minor Works and Navigation | 61,50,840 | 83,480 | ... | 3,266 | ... | ... | 6,139 | 92,885 | 6,640 | 99,525 | 1,14,673 | -15,648 | 25 |
| PROVINCIAL. | | | | | | | | | | | | | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | |
| 39 | Gokak Canal First Section and Storage Works | 11,94,376 | 11,915 | ... | 67 | 4,920 | ... | 165 | 17,067 | ... | 17,067 | 5,662 | 11,405 | 98 |
| | GRAND TOTAL | 2,58,23,011 | 4,29,760 | ... | 4,024 | 10,920 | ... | 1,35,413 | 5,60,126 | 13,611 | 5,93,737 | 3,50,926 | 2,42,811 | 94 |

(a) Excluding remissions shown in Canal Return No. V for kharif and rabi seasons of 1894-96.

(b) Irrigation share of land revenue assessment.

F. HUTCHINSON,
Examiner, Public Works Accounts.

STATEMENT I.—E.

Statement of Areas irrigated by Irrigation Works in the Bombay

| No. | Name of Canal. | AREA IRRIGATED IN ACRES. | | | | | | | AVERAGE DISCHARGES, CUBIC FEET PER SECOND. | | | |
|------------------------------------|---|--------------------------|-------------------|--------------------|----------|-------|-------------------|-----------------------------|--|--------|-------------------|--|
| | | Kharif. | Rabi. | Total. | Flow. | Litt. | Double-cropped. | | At Head. | | Utiliz. d. | |
| | | | | | | | Area irrigat. ed. | Percent- age of Total Area. | Kharif. | Rabi. | Kharif. | Rabi. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| MAJOR WORKS. | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | |
| 1 | Nira Canal | 12,349 | 16,021 | 28,370 | 28,326 | 44 | ... | ... | 205 | 286 | 258 | 283 |
| 2 | Mhasvad Tank | 1,207 | 3,019 | 4,226 | 4,209 | 17 | 320 | 7.57 | 35.52 | 60.15 | 35.52 | 60.15 |
| | Total | 13,556 | 19,040 | 32,596 | 32,535 | 61 | 320 | 0.98 | ... | ... | ... | ... |
| <i>Productive Works.</i> | | | | | | | | | | | | |
| 5 | Hathmati Canal | 1,797 | 2,402 | 4,199 | 4,191 | 8 | ... | ... | 62 | 62 | 25 | 30 |
| 6 | Lower Pahnra River Works ... | 1,692 | 1,093 | 2,790 | 2,786 | 4 | 120 | 4.30 | 16.36 | ... | 16.36 | ... |
| 7 | Kadwa River Works. { Waghad Tank. Palkhed Canal. Ojhar Tambat Canal. | 683 | 1,163 | 1,851 | 1,840 | 11 | 65 | 3.51 | 16.67 | 26.97 | 11.34 | 16.18 |
| | | 222 | 367 | 589 | 579 | 10 | 26 | 4.41 | 3.80 | 6.08 | 2.96 | 4.56 |
| | | 72 | 255 | 327 | 326 | 1 | 17 | 5.20 | 6.47 | 8.76 | 4.85 | 5.87 |
| 8 | Pravara River Works—Lakh Canal. | 138 | 172 | 310 | 299 | 11 | 10 | 3.23 | 34.68 | 29.20 | 32.36 | 25.44 |
| 9 | Mutha Canals | 7,562 | 2,520 | 10,082 | 10,026 | 56 | 1,247 | 12.37 | 149.84 | 162.23 | Not obtained | ble—allowed to run into the Matoba Tank. |
| 10 | Ekrak Tank | 1,830 | 1,462 | 3,292 | 3,251 | 41 | 141 | 4.28 | 38.29 | 41.06 | 29.95 | 38.15 |
| 11 | Krishna Canal | 2,689 | 1,982 | 4,671 | 4,015 | 656 | 27 | 0.58 | 57.75 | 68.99 | 54.35 | 88.99 |
| | Total | 1,6690 | 11,421 | 23,111 | 27,313 | 798 | 1,653 | 5.88 | ... | ... | ... | ... |
| | Total, Major Works | 30,246 | 30,461 | 60,707 | 59,848 | 859 | 1,973 | 3.25 | ... | ... | ... | ... |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | |
| 12 | Khari Cut | 2,053 | 85 | 2,088 | 2,008 | 80 | ... | ... | 8.49 | 5.91 | 8.90 | 6.06 |
| 13 | Hartala Tank | 12 | 71 | 83 | 83 | ... | 4 | 4.82 | 0.49 | 0.94 | 0.49 | 0.94 |
| 14 | Mhasva do. | 21 | 106 | 127 | 125 | ... | 2 | 1.57 | 0.76 | 1.06 | 0.76 | 1.06 |
| 15 | Jamda Canals | 539 | 609 | 1,148 | 1,148 | ... | 39 | 3.39 | 25.53 | 27.93 | 25.53 | 27.93 |
| 16 | Parsul Tank | 116 | 247 | 363 | 361 | ... | 2 | 75 | 20.66 | 1.53 | 1.69 | 1.69 |
| 17 | Pravara River Works—Ojhar Canal. | 593 | 951 | 1,544 | 1,522 | ... | 23 | 70 | 4.53 | 32.20 | 32.72 | 23.45 |
| 18 | Bhatodi Tank | 517 | 1,181 | 1,698 | 1,679 | ... | 19 | 108 | 6.36 | 4.23 | 8.77 | 4.23 |
| 19 | Matoba do. | 828 | 592 | 1,420 | 1,420 | ... | 295 | 20.77 | 8.75 | 9.12 | 8.75 | 9.12 |
| 20 | Kasurdi do. | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... |
| 21 | Shrisuphal do. | 177 | ... | 177 | 177 | ... | ... | ... | 5.13 | 3.73 | 5.13 | 3.73 |
| 22 | Bhadalvadi do. | 6 | 293 | 299 | 299 | ... | ... | ... | 2.66 | 3.91 | 2.66 | 3.91 |
| 23 | Koregaon do. | 85 | 306 | 391 | 391 | ... | ... | ... | 2.76 | 2.26 | 2.76 | 2.26 |
| 24 | Ashti do. | 645 | 814 | 1,459 | 1,450 | ... | 9 | 95 | 6.51 | 10.83 | 9.85 | 10.83 |
| 25 | Revári Canal | 342 | 1,199 | 1,541 | 1,537 | ... | 4 | 17.20 | 1.12 | 4.77 | 9.87 | 4.77 |
| 26 | Upper Man River Works ... | 614 | 680 | 1,294 | 1,293 | ... | 1 | 169 | 12.99 | 8.80 | 8.88 | 1.88 |
| 27 | Yeria River Irrigation Works. | 147 | 2,239 | 2,386 | 2,368 | ... | 18 | 27 | 1.13 | 7.02 | 11.62 | 8.15 |
| 28 | Chikhli Canal | 147 | 258 | 405 | 400 | ... | 5 | 3 | 0.74 | 4.17 | 6.62 | 2.55 |
| 29 | Maini Tank | 272 | 1,008 | 1,280 | 1,264 | ... | 16 | 61 | 4.77 | 3.32 | 7.63 | 3.32 |
| 30 | Muchkundi Tank | 16 | 3 | 19 | 19 | ... | ... | ... | ... | ... | ... | ... |
| 31 | Nilgund do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 32 | Gadikeri do. | *337 | ... | *337 | ... | ... | ... | ... | ... | ... | ... | ... |
| 33 | Dambal do. | { 98 *143 | { 74 | { 172 *143 | { 172 | ... | ... | ... | 1.69 | 2.26 | ... | ... |
| 34 | Medleri do. | 100 | 37 | 137 | 117 | ... | 20 | ... | 0.42 | 0.52 | ... | ... |
| 35 | Madag do. | 589 | 335 | 924 | 923 | ... | 1 | ... | 4.90 | 7.20 | ... | ... |
| 36 | Asundi do. | 112 | { 99 *185 | { 211 *185 | { 192 | ... | 19 | ... | 1.82 | 1.95 | ... | ... |
| 37 | Mavinkop do. | *492 | ... | *492 | ... | ... | ... | ... | ... | ... | ... | ... |
| | Total | { 8,030 *972 | { 11,137 *185 | { 19,167 *1,157 | { 18,949 | 218 | 964 | 5.03 | ... | ... | ... | ... |
| PROVINCIAL. | | | | | | | | | | | | |
| 39 | Gokak Canal, 1st Section ... | 3,038 | { 1,325 *1,132 | { 4,363 | 4,266 | 97 | ... | ... | 12.70 | 17.05 | Approximately all | ... |
| | GRAND TOTAL | 41,314 *972 | 42,923 *185 | 84,237 *1,157 | 83,063 | 1,174 | 2,937 | 3.49 | ... | ... | ... | ... |

E

Presidency, excluding Sind, during the year 1894-95.

| AREA IRRIGATED PER CUBIC FOOT PER SECOND. | | | | BASE TO WHICH THE DUTIES OF WATER ARE CALCULATED. | | REMARKS. |
|--|---|--|---|--|--|---|
| Discharged at Head. | | Utilized. | | Kharif. | Rabi. | |
| Kharif. | Rabi. | Kharif. | Rabi. | | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 47 33'98 | 56 50'19 | 48 33'98 | 57 50'19 | 16th January to 15th October. 16th January to 15th October. | 16th October to 15th January. 16th October to 15th January. | |
| ... | ... | ... | ... | | | |
| 28'98 103'42 | 38'74 ... | 71'88 103'42 | 80'07 ... | 1st June to 30th September. April to 15th October | 1st October to 31st December. 16th October to 15th January | |
| 41'27 58'42 | 43'12 60'36 | 60'67 75'00 | 71'88 80'48 | 1st June to 15 October | 16th October to end of February. | |
| 43'74 3'98 | 48'74 5'80 | 58'35 4'26 | 72'74 6'76 | June to September | October to January. | |
| 60'47 | 15'53 | Not obtainable. | | 16th January to 15th October | 16th October to 15th January. | |
| 47'79 47'00 | 35'60 22'00 | 61'10 49'00 | 38'32 22'00 | 16th January to 15th October. 15th January to 14th October. | Do. 15th October to 14th January. | |
| ... | ... | ... | ... | | | |
| 241'81 24'49 27'63 21'11 75'81 18'36 | 5'92 75'53 100'00 21'80 146'15 29'06 | 230'67 24'49 27'63 21'11 75'81 25'29 | 5'77 75'53 100'00 21'80 146'15 37'90 | July to October April to 15 October. June to September. | November to February 16th October to 15th January. October to January. | † Besides this, water was used for 242 acres of land assessed on the Chándola Tank which have not been accounted for. |
| 122'22 91'63 | 134'66 61'91 | 122'22 91'63 | 134'66 61'91 | 16th January to 15th October. | 16th October to 15th January. | |
| 31'50 2'26 30'79 59'55 72 162 21 35 82 | ... | 34'50 2'26 30'79 59'55 72 327 47 58 82 | ... | 16th January to 15th October. 15th January to 14th October. | 16th October to 15th January. 15th October to 14th January. | |
| Not known. | ... | Not known. | ... | No experiments made. | No experiments made. | |
| 143 | (a) 88 | ... | ... | ... | ... | |
| 238 120 (c) 133 | (b) 119 (c) 84 (d) 149 | Not known. | ... | 16th January to 15th October. | 16th October to 15th January. | * Area on which consolidated assessment is levied. |
| ... | ... | ... | ... | | | |
| 238 | 114 | 238 | 144 | 16th January to 15th October. | 16th October to 15th January. | † During rabi season 8 months and perennial crops are irrigated. The area of this is included in kharif, but must be added to rabi area to get duty of water. |
| ... | ... | ... | ... | | | |

(a) In the rabi season 49 acres of perennial crops were irrigated in addition to the 74 acres shown in the statement and this has been taken into calculation.
 (b) Do. 25 " " do. do. 37 " do. do.
 (c) Do. 13 " " do. do. 335 " do. do.
 (d) Do. 6 " " do. do. 364 " do. do.

(e) In the Kharif season 139 acres of perennial crops under old irrigation were irrigated in addition to the 112 acres shown in the statement, and this has been taken in calculation.

Statement showing Incidence of Working Expenses and Assessed Water Revenue

| No. | Name of Work. | Average Discharge of the year at Canal Head in Cubic feet per Second. | WATER-RATE ASSESSED. | | | | Gross assessed Revenue from all Sources. | Working Expenses, Direct and Indirect. | | |
|------------------------------------|--|---|----------------------|----------|---------------|-----------|--|--|----------------------------|-------|
| | | | Occupier's. | Owner's. | Total Direct. | Indirect. | | | Total Direct and Indirect. | |
| | | | Rs. | Es. | Rs. | Rs. | Ra. | Ra. | | |
| MAJOR WORKS. | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | |
| 1 | Nira Canal | 223-00 | 90,864 | ... | 90,864 | ... | 90,864 | 92,709 | 53,588 | |
| 2 | Mhasvad Tank | 41-68 | 13,869 | ... | 13,869 | ... | 13,869 | 16,135 | 28,460 | |
| | Total ... | ... | 1,04,733 | ... | 1,04,733 | ... | 1,04,733 | 1,08,844 | 82,048 | |
| <i>Productive Works.</i> | | | | | | | | | | |
| 5 | Háthmati Canal | 62 | 10,537 | ... | 10,537 | ... | 10,537 | 11,733 | 6,087 | |
| 6 | Lower Pánjra River Works ... | 16-36 | 10,442 | ... | 10,442 | 6,788 | 17,230 | 17,759 | 6,686 | |
| 7 | Kádva River Works ... | Wághad Tank ... | ... | ... | ... | ... | ... | 156 | 2,917 | |
| | | Pálkhed Canal ... | 18-50 | 7,349 | ... | 7,349 | 594 | 7,943 | 8,086 | 8,861 |
| | | Ojhar Tánbhat Canal ... | 3-68 | 2,112 | ... | 2,112 | ... | 2,112 | 2,122 | 2,340 |
| | | Wadáli Canal ... | 6-01 | 1,044 | ... | 1,044 | ... | 1,044 | 1,054 | 2,408 |
| 8 | Pravara River Works—Lákh Canal | 30-82 | 1,065 | ... | 1,065 | 147 | 1,212 | 1,444 | 13,319 | |
| 9 | Mutha Canals | 156-03 | 1,39,252 | ... | 1,39,252 | 42 | 1,39,294 | 2,47,955 | 79,709 | |
| 10 | Erkák Tank | 38-99 | 13,463 | ... | 13,463 | ... | 13,463 | 29,551 | 12,050 | |
| 11 | Krishna Canal | 65-56 | 44,377 | ... | 44,377 | ... | 44,377 | 49,041 | 14,266 | |
| | Total ... | ... | 2,29,641 | ... | 2,29,641 | 7,571 | 2,37,212 | 3,68,901 | 1,48,643 | |
| | Total, Major Works ... | ... | 3,34,374 | ... | 3,34,374 | 7,571 | 3,41,945 | 4,77,745 | 2,30,691 | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| 12 | Khári Cut... .. | 7-16 | 12,261 | ... | 12,261 | ... | 12,261 | 12,907 | 6,107 | |
| 13 | Hartála Tank | 1-71 | 208 | ... | 208 | ... | 208 | 637 | 1,030 | |
| 14 | Mhasva Tank | 0-85 | 395 | ... | 395 | ... | 395 | 1,037 | 1,223 | |
| 15 | Jámda Canal | 24-92 | 7,744 | ... | 7,744 | ... | 7,744 | 10,478 | 9,708 | |
| 16 | Parsul Tank | 1-61 | 1,695 | ... | 1,695 | ... | 1,695 | 1,705 | 1,359 | |
| 17 | Pravara River Works—Ojhar Canal | 33-60 | 4,678 | ... | 4,678 | 78 | 4,754 | 5,125 | 28,766 | |
| 18 | Bhátodi Tank | 6-08 | 5,467 | ... | 5,467 | 1,351 | 6,818 | 7,363 | 12,281 | |
| 19 | Mátoba do... .. | 8-93 | 9,936 | ... | 9,936 | ... | 9,936 | 10,079 | 4,257 | |
| 20 | Kásurdi do... .. | ... | 8 | ... | 8 | ... | 8 | 309 | 819 | |
| 21 | Shirapthal do... .. | 4-43 | 1,079 | ... | 1,079 | ... | 1,079 | 1,304 | 3,196 | |
| 22 | Bhádálvadi do... .. | 3-28 | 674 | ... | 674 | ... | 674 | 745 | 1,637 | |
| 23 | Koregaon do... .. | 2-63 | 1,150 | ... | 1,150 | ... | 1,150 | 1,175 | 730 | |
| 24 | Ashti do... .. | 10-59 | 4,717 | ... | 4,717 | ... | 4,717 | 5,136 | 3,953 | |
| 25 | Revári Canal | 4-41 | 6,534 | ... | 6,534 | ... | 6,534 | 6,600 | 1,938 | |
| 26 | Upper Mán River Works ... | 4-32 | 6,675 | ... | 6,675 | ... | 6,675 | 6,775 | 4,239 | |
| 27 | Yerla River Irrigation Works ... | 8-16 | 8,722 | ... | 8,722 | ... | 8,722 | 9,708 | 23,752 | |
| 28 | Chikhli Canal | 4-63 | 1,976 | ... | 1,976 | ... | 1,976 | 2,039 | 874 | |
| 29 | Maini Tank | 4-21 | 5,091 | ... | 5,091 | ... | 5,091 | 5,606 | 8,872 | |
| 30 | Muchkundi do... .. | Not known. | 89 | ... | 89 | ... | 89 | 289 | 566 | |
| 31 | Nilgund do... .. | ... | ... | ... | ... | ... | ... | ... | 25 | |
| 32 | Gadikeri do... .. | ... | ... | ... | ... | 1,987 | 1,987 | 1,987 | 236 | |
| 33 | Dámbal do... .. | 1-83 | 885 | ... | 885 | 982 | 1,867 | 2,392 | 918 | |
| 34 | Modleri | 0-44 | 478 | ... | 478 | ... | 478 | 494 | 835 | |
| 35 | Madag | 5-49 | 2,239 | ... | 2,239 | ... | 2,239 | 2,540 | 1,687 | |
| 36 | Asundi | 1-86 | 779 | ... | 779 | 632 | 1,411 | 1,412 | 909 | |
| 37 | Mávinkop | ... | ... | ... | ... | 1,012 | 1,012 | 1,017 | 101 | |
| | Total ... | ... | 83,480 | ... | 83,480 | 6,040 | 89,520 | 98,925 | 1,14,573 | |
| PROVINCIAL. | | | | | | | | | | |
| 39 | Gokák Canal, 1st Section, and Storage Works | 14-19 | 11,915 | ... | 11,915 | ... | 11,915 | 17,067 | 5,662 | |
| | GRAND TOTAL ... | ... | 4,29,769 | ... | 4,29,769 | 13,611 | 4,43,380 | 5,93,737 | 3,50,926 | |

E.

on Canals in the Bombay Presidency, excluding Sind, during the year 1894-95.

| Area irrigated during the year 1894-95. | WORKING EXPENSES | | | OCCUPIER'S RATE | | TOTAL WATER-RATE, DIRECT AND INDIRECT, | | REMARKS. |
|---|-----------------------------|---------------------|---|---------------------|---|--|---|----------|
| | Per cent. on Gross Revenue. | Per Acre irrigated. | Per Cubic Foot per Second of Discharge at Canal Head. | Per Acre irrigated. | Per Cubic foot per Second of Discharge at Canal Head. | Per Acre irrigated. | Per Cubic foot per Second of Discharge at Canal Head. | |
| Acres. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 28,370 | 57.80 | 1.89 | 235 | 3.20 | 398 | 3.20 | 398 | |
| 4,226 | 176 | 6.73 | 683 | 3.28 | 333 | 3.28 | 333 | |
| 82,596 | 75.38 | 2.52 | ..... | 3.21 | .. .. | 3.21 | ..... |  |
| 4,199 | 51.88 | 1.45 | 98.18 | 2.50 | 169.95 | 2.50 | 169.95 | |
| 2,790 | 37.65 | 2.39 | 409 | 3.74 | 638 | 6.17 | 1,053 | |
| ... | 1870 | ..... | ..... | ... | ..... | ... | ..... |  |
| 1,851 | 110 | 4.79 | 479 | 3.97 | 397 | 4.29 | 429 | |
| 589 | 110 | 3.97 | 636 | 3.59 | 574 | 3.59 | 574 | |
| 327 | 228 | 7.36 | 401 | 3.19 | 174 | 3.19 | 174 | |
| 370 | 9.2 | 42.96 | 432 | 3.44 | 35 | 3.91 | 39 | |
| 10,082 | 32.15 | 7.90 | 510.86 | 13.81 | 892.47 | 13.82 | 892.74 | |
| 3,292 | 41 | 3.66 | 309 | 4.09 | 419 | 4.09 | 419 | |
| 4,671 | 29 | 3.05 | 218 | 9.50 | 677 | 9.50 | 677 | |
| 28,111 | 40.29 | 5.28 | ..... | 8.17 | ..... | 8.44 | ..... |  |
| 60,707 | 48.29 | 3.80 | ..... | 5.51 | ..... | 5.63 | ..... |  |
| 2,088 | 47.31 | 2.92 | 852.98 | 5.87 | 1,712.43 | 5.87 | 1,712.43 | |
| 83 | 162 | 12.41 | 602 | 2.50 | 122 | 2.50 | 122 | |
| 127 | 118 | 9.63 | 1,439 | 3.11 | 465 | 3.11 | 465 | |
| 1,148 | 92 | 8.46 | 389 | 6.75 | 311 | 6.75 | 311 | |
| 363 | 79 | 3.74 | 844 | 4.67 | 1,052 | 4.67 | 1,052 | |
| 1,544 | 561 | 18.63 | 856 | 3.03 | 139 | 3.08 | 141 | |
| 1,698 | 167 | 7.23 | 2,020 | 3.22 | 899 | 4.02 | 1,121 | |
| 1,420 | 42.23 | 2.99 | 476.71 | 7.00 | 1,112.65 | 7.00 | 1,112.65 | |
| 1 | 119.42 | 369.00 | ..... | 8.00 | ..... | 8.00 | ..... |  |
| 177 | 245.09 | 18.06 | 721.41 | 6.10 | 243.56 | 6.10 | 243.56 | |
| 290 | 226.14 | 5.64 | 514.33 | 2.25 | 205.48 | 2.25 | 205.48 | |
| 391 | 62 | 1.87 | 277 | 2.94 | 437 | 2.94 | 437 | |
| 1,469 | 77 | 2.71 | 373 | 3.23 | 445 | 3.23 | 445 | |
| 1,541 | 29 | 1.26 | 439 | 4.27 | 1,493 | 4.27 | 1,493 | |
| 1,294 | 62 | 3.28 | 981 | 5.16 | 1,545 | 5.16 | 1,545 | |
| 2,386 | 245 | 9.95 | 2,911 | 3.66 | 1,069 | 3.66 | 1,069 | |
| 405 | 43 | 2.16 | 189 | 4.88 | 427 | 4.88 | 427 | |
| 1,280 | 68 | 2.99 | 909 | 3.98 | 1,209 | 3.98 | 1,209 | |
| 19 | 196 | 30 | Not known. | 4.68 | Not known. | 4.68 | Not known. | |
| ... | ... | ... | | ... | | ... | | |
| *337 | 11.87 | 70 | ..... | ... | ..... | ... | ..... |  |
| 172 | 38.38 | 5.34 | 502 | 5.15 | 484 | 5.29 | 911 | |
| *143 | | 12.02 | ..... | ... | ..... | ... | ..... |  |
| 137 | 169.37 | 6.09 | 1,898 | 3.48 | 1,084 | 3.48 | 1,084 | |
| 924 | 66.23 | 1.82 | 307 | 2.42 | 408 | 2.42 | 408 | |
| 211 | 64.38 | 4.31 | 489 | 3.69 | 419 | 3.56 | 759 | |
| *185 | | 12.30 | ..... | ... | ..... | ... | ..... |  |
| *492 | 9.93 | 0.21 | ..... | ... | ..... | ... | ..... |  |
| 19,107 | 115.8 | 6.98 | ..... | 4.35 | ..... | 4.67 | ..... |  |
| *1,157 | | | | | | | | |
| 4,363 | 25.86 | 1.30 | 400.70 | 2.73 | 839 | 2.73 | 839 | |
| 84,237 | 59.10 | 4.17 | ..... | 5.10 | ..... | 5.26 | ..... |  |
| *1,157 | | | | | | | | |

* Area on which consolidated assessment is levied.
 † On total area of 315 acres.
 Do. 896 acres.

III—E.

Statement of Quantity and Value of Crops irrigated in the Bombay Presidency, excluding Sind, during the year 1894-95.

| | (1) NIRA CANAL. | | (2) MHASVAD TANK. | | (5) HATHMTI CANAL. | | (6) LOWER PANCHRA RIVER WORKS. | | (7) KA'DVA RIVER WORKS. | | | | | | (8) PRAVARA RIVER WORKS—LAKH CANAL. | | (9) MUTHA CANALS. | | |
|---|--|---|-------------------------------|------------------------|------------------------------|------------------|--------------------------------|-----------------------|------------------------------|---------------|---------------------|----------------|----------------|----------------|-------------------------------------|------------------|-------------------|---------------------|-----------------------------|
| | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Palkhed Canal. | | Ojhar Tambat Canal. | | Wadali Canal. | | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | |
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | |
| Gardens and Orchards ... { Vegetables ... | 114 | 8,710 | 53 | 1,060 | ... | ... | 39 | 711 | 56 | 1,950 | 16 | 500 | 3 | 105 | 7 | 134 | 71 | 3,740 | |
| ... { Fruit and other trees ... | 113 | 7,910 | 51 | 3,315 | 1 | 30 | 581 | 38,415 | 18 | 990 | 2 | 110 | 3 | 165 | 2,510 | 691 | 1,41,462 | | |
| Sugarcane ... | 4,329 | 8,16,095 | 321 | 80,250 | 33 | 5,700 | 187 | 11,567 | 267 | 26,700 | 67 | 6,700 | 18 | 1,800 | 36 | 5,040 | 5,277 | 19,05,528 | |
| Cereals ... { | Wheat ... | 3,174 | 56,245 | 657 | 19,710 | 3:2 | 9,350 | 551 | 8,119 | 456 | 11,400 | 180 | 4,500 | 87 | 2,175 | 34 | 1,190 | 298 | 9,871 |
| | Barley ... | ... | ... | 27 | 270 | 4:5 | 10,375 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 30 |
| | Rice ... | 308 | 7,395 | 92 | 1,840 | 1,739 | 43,475 | 33 | 646 | 24 | 720 | 2 | 60 | ... | ... | ... | ... | 284 | 5,711 |
| | Maize ... | 5 | 70 | 220 | 2,220 | 40 | 600 | 51 | 1,500 | 2 | 20 | 1 | 10 | ... | ... | 2 | 50 | 5 | 131 |
| | Jowar ... | 11,114 | 2,22,280 | 2,072 | 31,080 | ... | ... | 2 | 17 | 1 | 8 | 3 | 24 | ... | ... | 22 | 440 | 1,534 | 30,680 |
| | Chino, Ragi, Rala, Wara... Rajri ... Miscellaneous ... | 196 5,306 2 | 1,960 31,105 20 | 55 27 ... | 550 270 ... | 263 ... | 5,260 ... | 1 27 2 | 13 412 25 | ... | 10 10 310 | 1 1 8 | 10 60 80 | 6 4 4 | 60 40 ... | 23 23 ... | 322 89 ... | 870 1,869 23 | 15,000 10 806 |
| Pulses ... { | Gram, Udid, Mug... Tur ... Peas ... Ground-nut ... Miscellaneous ... | 1,480 17 1,668 9 | 37,000 680 73,845 90 | 197 8 411 ... | 1,970 60 20,550 ... | 1,192 ... | 23,840 ... | 20 1 542 ... | 241 11 2,989 13,897 | 85 ... | 1,275 ... | 16 ... | 240 ... | 17 ... | 255 ... | 23 ... | 552 ... | 513 2 44 4 | 11,883 20 1,105 75 |
| | Fodder Crops { | Fodder ... Lucerne, &c. ... | ... | ... | 9 ... | 450 ... | ... | ... | 7 1 | 62 10 | 63 ... | 1,020 ... | 15 ... | 225 ... | ... | 3 | 187 | 31 184 | 813 80,175 |
| | | Fibres ... { | Cotton ... Tag (Hemp) ... | 2 2 | 50 20 | ... | ... | ... | 225 4 | 1,834 20 | ... | 113 1,695 | 82 ... | 480 ... | 24 560 | ... | ... | ... | ... |
| | Dyes ... { | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Drugs and Narcotics { | | Tobacco ... Bhang ... | 3 10 | 180 250 | 10 ... | 500 ... | ... | 1 ... | 11 ... | 1 ... | 28 ... | ... | ... | ... | ... | 8 | 736 | 7 | 260 |
| | Oil-seeds ... { | Mustard, Sesam ... Linseed, Castor-oil ... | ... | ... | 2 ... | 40 ... | 17 ... | 6:0 ... | 33 75 | 500 ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Condiments ... { | | Chilly and Onions ... Garlic, Turmeric and Methi ... | 268 ... | 13,440 ... | 19 ... | 760 ... | 2 150 | 100 5,950 | 41 37 | 951 322 | 56 108 | 3,640 4,860 | 54 23 | 3,510 1,035 | 2 19 | 130 855 | 35 ... | 2,062 ... | 95 10 | 3,278 213 |
| | Miscellaneous ... | 61 | ... | ... | ... | ... | ... | ... | ... | 31 | 155 | ... | ... | ... | ... | ... | 127 | 2,987 | |
| Land insufficiently irrigated... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | ... | |
| Total ... | 28,370 | 12,83,125 | 4,226 | 1,64,895 | 4,199 | 1,05,370 | 2,790 | 82,348 | 1,851 | 73,979 | 5:9 | 23,628 | 327 | 11,129 | 310 | 15,092 | 10,0:2 | 21,64,028 | |
| Area on which consolidated assessment is levied ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |

III-E-continued

| | (10) EKRU'K TANK. | | (11) KRISHNA CANAL. | | (12) KHA'RI CUT. | | (13) HARTA'LA TANK. | | (14) MHA'SVA TANK. | | (15) JA'MDA CANALS. | | (16) PARSUL TANK. | | (17) PRAVARA RIVER WORKS—OJHAR CANAL. | | (18) BHATODI TANK. | | |
|---|---------------------------------|---------------------|------------------------|---------------------|---------------------|---------------------|------------------------|---------------------|-----------------------|---------------------|------------------------|---------------------|----------------------|---------------------|--|---------------------|-----------------------|---------------------|--------|
| | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | |
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | |
| Gardens and Vegetables ... | 92 | 3,680 | 106 | 2,038 | 27 | 810 | ... | ... | 1 | 3 | 30 | 740 | ... | ... | 23 | 608 | 5 | 75 | |
| Orchards, { Fruit and other trees ... | 44 | 4,400 | 7 | 215 | ... | ... | ... | 3 | 200 | 14 | 1,130 | 52 | 2,857 | 8 | 350 | 42 | 3,665 | 39 | 8,117 |
| Sugarcane ... | 581 | 1,74,300 | 1,566 | 4,38,225 | 23 | 4,600 | ... | ... | 2 | 180 | 326 | 23,199 | 14 | 700 | 207 | 28,980 | 28 | 4,312 | |
| Cereals | Wheat ... | 283 | 7,075 | 196 | 6,514 | 6 | 150 | 66 | 1,325 | 82 | 569 | 433 | 5,040 | 113 | 834 | 180 | 6,300 | 157 | 5,495 |
| | Barley ... | ... | ... | 1 | 20 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Rice... .. | 545 | 16,350 | 358 | 14,312 | 2,027 | 60,810 | 1 | 25 | 2 | 10 | 27 | 255 | ... | ... | 15 | 900 | 13 | 720 |
| | Maize ... | 17 | 340 | 1 | 15 | 2 | 10 | ... | ... | ... | ... | 7 | 34 | 1 | 8 | 7 | 175 | 1 | 30 |
| | Jowar ... | 823 | 16,460 | 219 | 7,917 | 1 | 8 | ... | ... | ... | ... | 8 | 79 | ... | ... | 60 | 1,200 | 690 | 20,700 |
| | Chino, Ragi, Rala, Wara... .. | 8 | 80 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 16 | ... | ... |
| Bajri ... | 8 | 80 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 25 | 124 | 163 | 2,268 | 15 | 210 |
| Miscellaneous ... | ... | ... | 5 | 150 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Pulses ... | Gram, Udid, Mug... .. | 67 | 1,005 | 15 | 288 | ... | ... | 5 | 38 | 19 | 182 | 49 | 540 | 52 | 360 | 700 | 16,800 | 245 | 4,900 |
| | Tur ... | 10 | 200 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Peas... .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 12 | 108 | ... | ... | ... | ... | ... | ... |
| | Ground-nut Miscellaneous ... | 495 | 14,850 | 1,967 | 86,692 | ... | ... | 1 | 35 | 3 | 20 | 2 | 18 | ... | ... | 14 | 770 | 572 | 10,416 |
| Fodder Crops... { Fodder ... Lucerne, &c. ... | 114 | 2,280 | 45 | 1,140 | ... | ... | 5 | 25 | 1 | 2 | 6 | 55 | 68 | 600 | 65 | 4,062 | 1 | 25 | |
| | ... | ... | 22 | 430 | ... | ... | ... | ... | ... | ... | ... | 6 | 6 | ... | 1 | 300 | ... | ... | |
| Fibres ... { Cotton ... Tig (Hemp) ... | ... | ... | ... | ... | ... | ... | 1 | 11 | ... | ... | 4 | 39 | ... | ... | 2 | 220 | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 25 | 999 | ... | ... | 2 | 60 | ... | ... | |
| Dyes ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Drugs and Nar- cotics ... { Tobacco ... Bhang ... | 1 | 30 | 3 | 140 | ... | ... | ... | ... | ... | ... | 5 | 97 | ... | ... | 2 | 160 | 29 | 1,856 | |
| | ... | ... | 4 | 500 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 31 | 2,480 | |
| Oil-seeds ... { Mustard, Sesam ... Linseed, Castor-oil ... | 1 | 20 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 48 | ... | ... | |
| | 21 | 420 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 6 | 120 | |
| Condiments ... { Chilly and Onions... Garlic, Turmeric and Methi | 141 | 4,935 | 96 | 4,280 | ... | ... | 1 | 5 | 3 | 55 | 87 | 2,989 | 9 | 210 | 54 | 2,718 | 63 | 6,048 | |
| | 21 | 630 | 47 | 1,128 | 1 | 30 | ... | ... | ... | ... | 18 | 344 | 68 | 500 | 4 | 240 | 4 | 240 | |
| Miscellaneous ... | 20 | ... | 13 | ... | 1 | ... | ... | ... | ... | ... | 7 | ... | 10 | 72 | ... | ... | ... | ... | |
| Land insufficiently irrigated ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Total ... | 3,292 | 2,47,135 | 4,671 | 5,63,904 | 2,088 | 66,415 | 83 | 1,664 | 127 | 2,151 | 1,148 | 37,393 | 363 | 3,758 | 1,544 | 69,510 | 1,698 | 65,744 | |
| Area on which consolidated assessment is levied ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |

III—E—continued.

| | (19) MA'TOBA TANK. | | (20) KA'SURDI TANK. | | (21) SHIRSUPHAL TANK. | | (22) BHA'DALVA'DI TANK. | | (23) KOREGAON TANK. | | (24) ASHTI TANK. | | (25) REVA'RI CANAL. | | (26) UPPER MA'N RIVER WORKS. | | (27) YERLA RIVER IRRIGATION WORKS. | | (28) CHIKHLI CANAL. | |
|---|-----------------------|------------------|------------------------|------------------|--------------------------|------------------|----------------------------|------------------|------------------------|------------------|---------------------|------------------|------------------------|------------------|---------------------------------|------------------|---------------------------------------|------------------|------------------------|------------------|
| | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. | Area irrigated. | Estimated Value. |
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. |
| Gardens and Orchards ... { Vegetables... ... { Fruit and other trees ... | 7 | 1,883 | ... | ... | 29 | 4,057 | 8 | 3,643 | 2 | 80 | 3 | 120 | 61 | 2,318 | 33 | 590 | 36 | 506 | 5 | 100 |
| Sugarcane ... | 483 | 1,66,672 | ... | ... | 148 | 49,476 | ... | ... | 48 | 14,400 | 120 | 36,000 | 94 | 1,532 | 113 | 2,373 | 68 | 1,700 | 34 | 9,380 |
| Cereals ... { | Wheat ... | 181 | 7,630 | ... | ... | ... | 17 | 691 | 9 | 225 | 267 | 6,675 | 187 | 6,570 | 372 | 5,208 | 294 | 5,184 | 30 | 1,131 |
| | Barley ... | 4 | 144 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 26 | 312 | 4 | 40 | ... | ... | ... |
| | Rice ... | 58 | 1,167 | ... | ... | ... | ... | ... | 3 | 75 | 165 | 3,875 | 29 | 728 | 8 | 112 | 6 | 90 | 4 | 176 |
| | Maize ... | 1 | 25 | ... | ... | ... | ... | ... | ... | ... | 68 | 1,360 | ... | ... | 72 | 1,296 | 23 | 368 | ... | ... |
| | Jowar ... | 302 | 4,325 | ... | ... | ... | 266 | 3,992 | 167 | 3,340 | 393 | 7,860 | 470 | 11,776 | 45 | 675 | 708 | 14,060 | 60 | 1,530 |
| Chino, Ragi, Rala, Wara ... | 1 | 13 | ... | ... | ... | ... | ... | 3 | 30 | 3 | 30 | ... | ... | 26 | 130 | 3 | 20 | 7 | 102 | |
| Bajri ... | 229 | 5,506 | ... | ... | ... | ... | ... | ... | ... | 6 | 150 | ... | ... | 11 | 99 | ... | ... | ... | ... | |
| Miscellaneous ... | 15 | 540 | ... | ... | ... | ... | ... | ... | ... | 11 | 650 | ... | ... | ... | ... | ... | ... | ... | ... | |
| Pulses ... { | Gram, Udid, Mug ... | 90 | 2,122 | ... | ... | ... | 7 | 137 | 7 | 175 | 157 | 3,925 | 10 | 157 | 105 | 1,050 | 284 | 2,292 | 7 | 136 |
| | Tur ... | 1 | 10 | ... | ... | ... | ... | ... | ... | ... | 24 | 600 | ... | ... | ... | ... | ... | ... | ... | |
| | Peas ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 11 | 17 | 170 | ... | ... |
| | Ground-nut ... | 4 | 77 | ... | ... | ... | ... | ... | 118 | 4,720 | 136 | 5,440 | 653 | 3,986 | 171 | 3,420 | 861 | 17,220 | 191 | 8,404 |
| Miscellaneous ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 8 | ... | ... | |
| Fodder Crops... { | Fodder ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 173 | 3,114 | 8 | 112 | ... | ... |
| Lucerne, &c. ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Fibres ... { | Cotton ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Tåg (Hemp) ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Dyes ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Drugs and Narcotics ... { | Tobacco ... | ... | ... | ... | ... | ... | ... | ... | ... | 9 | 360 | ... | ... | 1 | 15 | ... | ... | ... | ... | |
| Bhang ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Oil-seeds ... { | Mustard, Sesam ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Linseed, Castor-oil ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Condiments ... { | Chilly and Onions ... | 40 | 841 | ... | ... | 1 | 23 | 6 | 240 | 93 | 3,720 | 16 | 814 | 38 | 646 | 46 | 640 | 34 | 1,520 | |
| Garlic, Turmeric and Methi ... | 2 | 18 | ... | ... | ... | ... | ... | 27 | 1,215 | ... | ... | 16 | 1,345 | 2 | 20 | 4 | 92 | 37 | 852 | |
| Miscellaneous ... | 2 | 56 | 1 | 12 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4 | ... | 5 | ... | ... | ... | |
| Land insufficiently irrigated ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Total ... | 1,420 | 1,91,529 | 1 | 12 | 177 | 53,533 | 299 | 8,486 | 391 | 24,600 | 1,459 | 72,065 | 1,541 | 29,507 | 1,294 | 20,081 | 2,386 | 43,890 | 405 | 23,331 |
| Area on which consolidated assessment is levied ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |

III—E—concluded.

1310-

| | (29) MAINI TANK. | | (30) MUCHKUNDI TANK. | | (32) GADIKERI TANK. | | (33) DA'MBAL TANK. | | (34) MEDLERI TANK. | | (35) MADAG TANK. | | (36) ASUNDI TANK. | | (37) MA'YINKOP TANK. | | (39) GOKA'K CANAL, 1ST SECTION, AND STORAGE WORKS. | | TOTAL. | | |
|---|-------------------------|--------------------------|----------------------------|--------------------------|---------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|----------------------------|--------------------------|---|---------------------|-------------------------|---------------------|--------|
| | Area irri- gated. | Estimat- ed Value. | Area irri- gated. | Esti- mated value. | Area irri- gated. | Esti- mated value. | Area irri- gated. | Estimat- ed Value. | Area irri- gated. | Esti- mated value. | Area irri- gated. | Estimat- ed value. | Area irri- gated. | Esti- mated value. | Area irri- gated. | Esti- mated value. | Area irri- gated. | Estimated value. | Area irri- gated. | Estimated value. | |
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | |
| Gardens and | 1 | 15 | 4 | 102 | ... | ... | 66 | 1,320 | 9 | 675 | 72 | 5,720 | 49 | 3,880 | ... | ... | 130 | 2,600 | 1,114 | 42,890 | |
| Orchards. { Vegetables ... | 23 | 2,500 | 5 | 520 | ... | ... | 15 | 1,200 | 30 | 2,975 | 1 | 75 | 3 | 300 | ... | ... | 34 | 1,360 | 1,895 | 2,37,205 | |
| | 40 | 6,400 | 1 | 5 | ... | ... | 81 | 3,400 | 1 | 150 | 13 | 1,275 | 3 | 250 | ... | ... | 137 | 13,700 | 14,624 | 38,40,589 | |
| Sugarcane ... | 132 | 6,600 | ... | ... | ... | ... | ... | ... | 1 | 15 | ... | ... | 1 | 15 | ... | ... | 21 | 315 | 8,833 | 1,96,191 | |
| | 3 | 100 | ... | ... | ... | ... | ... | ... | 47 | 1,170 | 261 | 6,538 | 3 | 75 | ... | ... | 98 | 2,450 | 6,187 | 11,291 | |
| | 36 | 1,440 | 5 | 110 | ... | ... | ... | ... | 10 | 210 | 13 | 270 | 19 | 380 | ... | ... | 1,392 | 22,272 | 1,924 | 1,71,235 | |
| | 5 | 200 | 1 | 30 | ... | ... | ... | ... | 10 | 210 | 13 | 270 | 19 | 380 | ... | ... | 921 | 23,026 | 19,955 | 30,764 | |
| Cereals { Maize ... | 47 | 1,150 | ... | ... | ... | ... | ... | ... | 1 | 15 | 23 | 450 | 16 | 320 | ... | ... | 332 | 3,758 | 1,045 | 4,03,983 | |
| | 4 | 20 | 2 | 20 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 60 | 6,722 | 14,988 | |
| | 20 | 800 | ... | ... | ... | ... | ... | ... | 2 | 45 | 1 | 15 | ... | ... | ... | ... | 66 | 988 | 240 | 55,686 | |
| | 356 | 8,875 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 182 | 4,550 | 5,990 | 4,369 | |
| | 1 | 25 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 59 | 1,606 | |
| Pulses { Gram, Udid, Mug | 566 | 24,417 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 119 | 3,570 | 9,084 | 3,273 | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 16 | 16 | 3,23,758 | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 189 | |
| Fodder Crops { Fodder ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 499 | 10,954 |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 678 | 39,926 |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 51 | 930 | 265 | 3,054 | |
| Fibres { Cotton ... | ... | ... | ... | ... | ... | ... | ... | ... | 7 | 140 | ... | ... | ... | ... | ... | ... | 23 | 690 | 232 | 4,464 | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Dyes ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Drugs and | 5 | 375 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 77 | 4,012 |
| Narcotics. { Tobacco ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 53 | 3,966 |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Oil-seeds { Mustard, Sesam | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Condiments { Chilly and Onions ... | 22 | 1,050 | 1 | 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | 19 | 435 | ... | ... | ... | ... | ... | ... | 25 | 254 | 29 | 670 | 532 | 15,945 | 116 | 3,405 | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Miscellaneous ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Land insufficiently irrigated ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Total .. | 1,230 | 54,502 | 19 | 792 | ... | ... | 172 | 6,477 | 137 | 6,265 | 924 | 30,288 | 211 | 8,715 | ... | ... | 4,363 | 1,02,394 | 84,237 | 56,57,235 | |
| Area on which consolidated assessment is levied ... | ... | ... | ... | ... | 337 | ... | 143 | ... | ... | ... | ... | ... | 185 | ... | 492 | ... | ... | ... | ... | 1,157 | |

XXIII

Comparative Statement of Irrigation and Rainfall for the years 1893-94

| No. | Work supplying Irrigation. | Civil Station. | Total Area of the Civil District. | Culturable area of the Civil District. | Cultivated area of the Civil District. | Culturable area commanded by Irrigation Works in Column 2. |
|--------------------------|---|-------------------|-----------------------------------|--|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| MAJOR WORKS, | | | | | | |
| <i>Protective Works.</i> | | | | | | |
| 1 | Hathmati Canal | Ahmedabad ... | 24,43,565 | 19,61,338 | 18,89,163 | 11,336 |
| 2 | Khari Cut | | | | | 11,500 |
| Total ... | | | | | | 22,836 |
| 3 | Nira Canal | Poona | 34,24,059 | 25,53,547 | 25,43,863 | 2,27,670 |
| 4 | Mutha Canals | | | | | 49,800 |
| 5 | Matoba Tank | | | | | 7,133 |
| 6 | Kasurdi do. | | | | | 478 |
| 7 | Shirsuphal do. | | | | | 2,500 |
| 8 | Bhadalvadi do. | 2,400 | | | | |
| Total ... | | 2,89,931 | | | | |
| 9 | Lower Panjhra River Works | Khandesh | 56,60,898 | 36,15,079 | 32,67,596 | 12,627 |
| 10 | Hartala Tank | | | | | 527 |
| 11 | Mhasva do. | | | | | 4,075 |
| 12 | Jamda Canals | | | | | 40,185 |
| Total ... | | 57,414 | | | | |
| 13 | Kadwa River Works. { Waghad Tank Palkhed Canal Ojhar Tambat Canal Wadali Canal | Nasik | 37,20,295 | 25,87,961 | 24,48,450 | 26,280 |
| 14 | Parsul Tank | | | | | 7,421 |
| Total ... | | 2,729 | | | | |
| Total ... | | 2,386 | | | | |
| Total ... | | 53,616 | | | | |
| 15 | Pravara River Works—Lakh Canal | Ahmednagar | 42,15,468 | 32,38,434 | 30,18,744 | 25,536 |
| 16 | Do. —Ojhar Canal | | | | | 21,755 |
| 17 | Bhatodi Tank | | | | | 13,657 |
| Total ... | | 60,348 | | | | |
| 18 | Mhasvad Tank | Sholapur | 29,05,194 | 24,74,349 | 24,61,559 | 1,06,214 |
| 19 | Ekrak Tank | | | | | 16,941 |
| 20 | Koregaon do. | | | | | Not |
| 21 | Ashti do. | | | | | 16,225 |
| Total ... | | 1,39,980 | | | | |
| 22 | Krishna Canal | Satara | 30,87,783 | 22,87,571 | 22,66,430 | 26,453 |
| 23 | Revadi do. | | | | | 3,624 |
| 24 | Upper Man River Works | | | | | 7,623 |
| 25 | Yerla River Irrigation Works | | | | | 10,680 |
| 26 | Chikhli Canal | | | | | 1,478 |
| 27 | Maini Tank | | | | | 4,625 |
| Total ... | | | | | | 54,453 |
| 28 | Muchkundi Tank | Bijapur | 36,01,552 | 32,21,649 | 31,66,029 | 5,417 |
| 29 | Nilgund do. | | | | | ... |
| Total ... | | 5,417 | | | | |
| 30 | Gadikeri Tank | Belgaum | 28,45,285 | 21,61,379 | 21,49,309 | Not known. |
| 31 | Gokak Canal, 1st Section | | | | | 17,627 |
| Total ... | | | | | | 17,627 |
| 32 | Dambal Tank | Dharwar | 29,45,832 | 24,03,035 | 23,18,566 | 4,525 |
| 33 | Medleri do. | | | | | 1,052 |
| 34 | Madag do. | | | | | 2,452 |
| 35 | Asundi do. | | | | | 1,500 |
| Total ... | | 9,529 | | | | |
| 36 | Mavinkop Tank | Kanara | 25,22,266 | 3,86,535 | 2,34,129 | 755 |
| Grand Total ... | | | 3,73,72,197 | 2,69,76,077 | 2,57,64,156 | 6,97,486 |

E.

and 1894-95 in the Bombay Presidency, excluding Sind.

| Culturable area at present irrigable by works specified in Column 2. | AREA IRRIGATED IN ACRES. | | | | | | RAINFALL. | | REMARKS. |
|--|--------------------------|--------|--------|----------|--------|--------|-----------|-----------|------------------------|
| | 1893-94. | | | 1894-95. | | | 1893-94. | 1894-95. | |
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Inches. | Inches. | |
| 8,000 | 1,259 | 2,442 | 3,701 | 1,797 | 2,402 | 4,199 | 50.99 | 50.95 | |
| 3,000 | 1,760 | 28 | 1,786 | 2,053 | 35 | 2,088 | 43.48 | 51.53 | |
| 11,000 | 3,019 | 2,468 | 5,487 | 3,850 | 2,437 | 6,287 | | | |
| 56,640 | 13,566 | 10,947 | 24,503 | 12,349 | 16,021 | 28,370 | 15.83 | 17.75 | Average of 8 stations. |
| 16,800 | 6,634 | 1,625 | 8,259 | 7,562 | 2,520 | 10,082 | 26.41 | 32.22 | |
| 2,600 | 732 | 410 | 1,142 | 828 | 592 | 1,420 | 12.65 | 15.28 | |
| 478 | 41 | 83 | 124 | 1 | ... | 1 | 14.67 | 13.14 | |
| 2,500 | 475 | 438 | 913 | 177 | ... | 177 | 11.93 | 15.24 | |
| 2,400 | 487 | 277 | 764 | 6 | 293 | 299 | 10.85 | 14.23 | |
| 81,418 | 21,925 | 13,780 | 35,705 | 20,923 | 19,426 | 40,349 | | | |
| 12,627 | 1,558 | 1,442 | 3,000 | 1,692 | 1,098 | 2,790 | 18.23 | 18.47 | |
| 415 | 11 | 107 | 118 | 12 | 71 | 83 | 29.85 | 31.71 | |
| 2,983 | 18 | 211 | 229 | 21 | 106 | 127 | 19.86 | 28.07 | |
| 30,538 | 508 | 1,080 | 1,588 | 539 | 609 | 1,148 | 19.52 | 24.37 | |
| 46,563 | 2,095 | 2,840 | 4,935 | 2,264 | 1,884 | 4,148 | | | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 9,837 | 605 | 1,439 | 2,104 | 688 | 1,163 | 1,851 | 23.32 | 25.38 | |
| 2,367 | 174 | 364 | 538 | 222 | 367 | 589 | 23.22 | 30.28 | |
| 2,433 | 185 | 200 | 385 | 72 | 255 | 327 | 15.34 | 25.37 | |
| Not yet ascertained. | 69 | 299 | 359 | 116 | 247 | 363 | | | |
| 14,637 | 1,093 | 2,293 | 3,386 | 1,098 | 2,032 | 3,130 | | | |
| 11,280 | 76 | 267 | 343 | 138 | 172 | 310 | 18.77 | 26.64 | |
| 14,763 | 352 | 1,891 | 2,243 | 593 | 951 | 1,544 | 16.77 | 24.29 | |
| 12,124 | 648 | 965 | 1,613 | 517 | 1,181 | 1,698 | 24.39 | 24.95 | |
| 38,167 | 1,076 | 3,123 | 4,199 | 1,248 | 2,304 | 3,552 | | | |
| 45,813 | 3,907 | 1,376 | 5,283 | 1,207 | 3,019 | 4,226 | 17.30 | 15.71 | |
| 14,352 | 2,247 | 642 | 2,889 | 1,830 | 1,462 | 3,292 | 24.22 | 20.18 | |
| known. | 94 | 258 | 352 | 85 | 306 | 391 | 18.90 | 23.10 | |
| 14,476 | 711 | 487 | 1,198 | 645 | 814 | 1,459 | 23.65 | 21.70 | |
| 74,641 | 6,959 | 2,763 | 9,722 | 3,767 | 5,601 | 9,368 | | | |
| 26,453 | 2,810 | 1,932 | 4,742 | 2,639 | 1,982 | 4,621 | 20.09 | 25.45 | |
| 3,624 | 213 | 1,135 | 1,348 | 342 | 1,199 | 1,541 | 26.73 | 31.76 | |
| 7,623 | 942 | 548 | 1,490 | 614 | 680 | 1,294 | 17.06 | 20.18 | |
| 10,680 | 424 | 1,534 | 1,958 | 147 | 2,239 | 2,386 | 25.48 | 29.40 | |
| 1,478 | 291 | 79 | 370 | 147 | 258 | 405 | 21.24 | 20.02 | |
| 4,625 | 866 | 493 | 1,359 | 272 | 1,008 | 1,280 | 15.56 | 14.43 | |
| 54,483 | 5,546 | 5,721 | 11,267 | 4,211 | 7,366 | 11,577 | | | |
| 3,417 | 10 | 2 | 12 | 16 | 3 | 19 | 21.56 | 17.87 | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 3,417 | 10 | 2 | 12 | 16 | 3 | 19 | | | |
| 337 | +337 | ... | +337 | +337 | ... | +337 | 28.63 | 28.53 | |
| 6,170 | 3,014 | 1,223 | 4,237 | 3,038 | 1,325 | 4,363 | 24.11 | 13.90 | |
| 6,507 | +337 | 1,223 | +337 | +337 | 1,325 | +337 | | | |
| | 3,014 | | 4,237 | 3,038 | | 4,363 | | | |
| 4,525 | 110 | 17 | 127 | 98 | 74 | 172 | 20.37 | 12.98 | |
| 1,063 | +97 | 21 | +97 | +143 | | +143 | | | |
| 2,188 | 75 | 374 | 692 | 100 | 37 | 137 | 14.98 | 9.29 | |
| | 318 | 25 | 85 | 589 | 335 | 924 | 25.31 | 19.74 | |
| 1,800 | 60 | +24 | +124 | 112 | +185 | +85 | 23.51 | 13.40 | |
| 9,565 | +97 | +124 | +221 | +143 | +185 | +382 | | | |
| | 563 | 437 | 1,000 | 899 | 545 | 1,444 | | | |
| 617 | +192 | ... | +192 | +192 | ... | +192 | No gauge. | No gauge. | |
| 3,41,015 | 45,300 | 34,650 | 79,950 | 41,314 | 42,923 | 84,237 | 22.74 | 23.13 | |
| | +926 | +124 | +1,050 | +972 | +185 | +1,157 | | | |

The figures in columns 4, 5 and 6 are exclusive of the areas of one British Village in Mán Taluka of the Sátára District and three Pant Pratindhi's villages in the Atpadi Mahal which are under command of Mhasvar Tank Canal No. 1.

† Area on which consolidated assessment is levied.

STATEMENT F.

Statement showing the Operation of Irrigation Works in the Deccan and Gujarat for the year 1894-95.

| No. | Names of Works. | AMOUNTS PAID, 1894-95. | | REMISSIONS. | | TOTAL. | | Grand Total. | REMARKS. |
|------------------------------------|--|------------------------|----------------|-------------|-------|----------|----------|--------------|----------|
| | | Kharif, 1894-95. | Rabi, 1894-95. | Kharif. | Rabi. | Kharif. | Rabi. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| MAJOR WORKS. | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | |
| 1 | Nira Canal | 54,558 | 36,306 | ... | ... | 54,558 | 36,306 | 90,864 | |
| 2 | Mhasvad Tank | 6,303 | 7,567 | ... | ... | 6,303 | 7,567 | 13,869 | |
| | Total | 60,860 | 43,873 | ... | ... | 60,860 | 43,873 | 1,04,733 | |
| <i>Productive Works.</i> | | | | | | | | | |
| 5 | Háthmati Canal | 5,708 | 4,949 | 71 | 49 | 5,637 | 4,900 | 10,537 | |
| 6 | Lower Pánjhra River Works | 7,422 | 3,020 | ... | ... | 7,422 | 3,020 | 10,442 | |
| 7 | Kádva River Works. { Waghád Tank Pálkhed Canal Ojhar Tánbat Canal Wadzi Canal | 3,914 | 3,435 | ... | ... | 3,914 | 3,435 | 7,349 | |
| 8 | Pravara River Works—Lákh Canal | 1,082 | 1,030 | ... | ... | 1,082 | 1,030 | 2,112 | |
| | | 274 | 770 | ... | ... | 274 | 770 | 1,044 | |
| | | 721 | 344 | ... | ... | 721 | 344 | 1,065 | |
| 9 | Mutha Canals | 1,33,160 | 6,092 | ... | ... | 1,33,160 | 6,092 | 1,39,252 | |
| 10 | Ekruk Tank | 9,913 | 3,550 | ... | ... | 9,913 | 3,550 | 13,463 | |
| 11 | Krishna Canal | 36,957 | 7,420 | ... | ... | 36,957 | 7,420 | 44,377 | |
| | Total | 1,99,151 | 30,610 | 71 | 49 | 1,99,080 | 30,561 | 2,29,641 | |
| | Total, Major Works | 2,60,011 | 74,483 | 71 | 49 | 2,59,910 | 74,434 | 3,34,374 | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | |
| 12 | Khári Cut | 13,661 | 172 | 1,572 | ... | 12,089 | 172 | 12,261 | |
| 13 | Hartáls Tank | 66 | 142 | ... | ... | 66 | 142 | 208 | |
| 14 | Mhasva do. | 172 | 223 | ... | ... | 172 | 223 | 395 | |
| 15 | Jámda Canals | 6,413 | 1,331 | ... | ... | 6,413 | 1,331 | 7,744 | |
| 16 | Parsul Tank | 708 | 987 | ... | ... | 708 | 987 | 1,695 | |
| 17 | Pravara River Works—Ojhar Canal | 2,617 | 2,061 | ... | ... | 2,617 | 2,061 | 4,678 | |
| 18 | Bhatodi Tank | 2,572 | 2,895 | ... | ... | 2,572 | 2,895 | 5,467 | |
| 19 | Matoba do. | 8,607 | 1,329 | ... | ... | 8,607 | 1,329 | 9,936 | |
| 20 | Kásurdi do. | 8 | ... | ... | ... | 8 | ... | 8 | |
| 21 | Shirsuphal Tank | 1,636 | ... | 557 | ... | 1,079 | ... | 1,079 | |
| 22 | Bhádsalvádi do. | 63 | 611 | ... | ... | 63 | 611 | 674 | |
| 23 | Koregaon do. | 473 | 677 | ... | ... | 473 | 677 | 1,150 | |
| 24 | Ashti do. | 2,825 | 1,592 | ... | ... | 2,825 | 1,592 | 4,417 | |
| 25 | Revári Canal | 3,035 | 3,549 | 24 | 26 | 3,011 | 3,523 | 6,534 | |
| 26 | Upper Mán River Works | 4,264 | 2,411 | ... | ... | 4,264 | 2,411 | 6,675 | |
| 27 | Yerla River Irrigation Works | 1,694 | 7,034 | ... | 6 | 1,694 | 7,028 | 8,722 | |
| 28 | Chikhli Canal | 1,061 | 915 | ... | ... | 1,061 | 915 | 1,976 | |
| 29 | Maini Tank | 1,760 | 3,331 | ... | ... | 1,760 | 3,331 | 5,091 | |
| 30 | Muehkundi Tank | 82 | 7 | ... | ... | 82 | 7 | 89 | |
| 31 | Nilgund do. | ... | ... | ... | ... | ... | ... | ... | |
| 32 | Gadikeri do. | ... | ... | ... | ... | ... | ... | ... | |
| 33 | Dámbal do. | 624 | 261 | ... | ... | 624 | 261 | 885 | |
| 34 | Medleri do. | 362 | 116 | ... | ... | 362 | 116 | 478 | |
| 35 | Madag do. | 1,274 | 965 | ... | ... | 1,274 | 965 | 2,239 | |
| 36 | Asundi do. | 476 | 303 | ... | ... | 476 | 303 | 779 | |
| 37 | Mávinkop do. | ... | ... | ... | ... | ... | ... | ... | |
| | Total | 54,453 | 31,212 | 2,153 | 82 | 52,300 | 31,180 | 83,480 | |
| PROVINCIAL. | | | | | | | | | |
| 9 | Gokak Canal, 1st Section, and Storage Works | 8,507 | 3,409 | ... | ... | 8,507 | 3,409 | 11,916 | |
| | GRAND TOTAL | 3,22,971 | 1,09,103 | 2,224 | 81 | 3,20,747 | 1,09,022 | 4,29,769 | |

*Includes water-rates on dry land and enhanced water share of consolidated revenue on MAMUL Irrigation.

Statement showing Water-rates per Acre in force during 1894-95 on Irrigation Works in the Bombay Presidency, excluding Sind.

| No. | Names of Works. | WATER-RATES. | | | | | Occupier's Rate. | Owner's Rate. | Water advantage. | Remarks. |
|------------------------------------|---|---------------------------|---------------------------------------|---------------------------|--------------|----------------------|------------------|---------------|------------------|--|
| | | Class I. | Class II. | Class III. | Class IV. | Class V. | | | | |
| | | Perennial. | Eight months. | Four months. | Monsoon dry. | Special hot weather. | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| MAJOR WORKS. | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | |
| 1 | Nira Canal | 10 | 4 0 0 | 2 0 0 | 0 12 0 | 5 0 0 | | | | Half rates are levied on irrigation from leakage water picked up from nálas at the expense of the cultivators. |
| 2 | Mhasvad Tank | 10 | 4 0 0 | 2 0 0 | 0 12 0 | 4 0 0 | | | | |
| <i>Productive Works.</i> | | | | | | | | | | |
| 5 | Háthmati Canal | 10 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | Rice flooding land is charged at Re. 1. |
| 6 | Lower Pánjhra River Works | 10 | 4 0 0 | 2 0 0 | 1 0 0 | 4 0 0 | | | | |
| 7 | Kádva River Works. { Palkhed Canal | 8 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | |
| | { Ojhar & Támbat Canal | 8 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | |
| 8 | Pravara River Works—Lákh Canal | 8 | 4 0 0 | 2 0 0 | 0 8 0 | 4 0 0 | | | | |
| | First Section, i.e., within the Poona City and the suburban Municipal and Cantonment limits or within one mile of these limits. | { A. 50 B. 9 C. 6 | { 5 0 0 | { 2 0 0 | { 1 4 0 | { 6 0 0 | | | | |
| 9 | Mutha Canals. Second Section, i.e., for all villages excepting those within the above-mentioned limits within a radius of 8 miles from Poona. | { A. 25 B. 18 C. 12 | { 5 0 0 | { 2 0 0 | { 1 4 0 | { 6 0 0 | | | | |
| | Third Section, i.e., for villages beyond those limits. | { A. 13 B. 12 C. 10 | { 4 0 0 | { 2 0 0 1 8 0 | { 1 0 0 | { 6 0 0 | | | | |
| | For pán gardens wherever situated throughout the canal | 30 | ..... | ..... | ..... | ..... |  |  |  |  |
| 10 | Ekruk Tank | *12 | 4 0 0 | 2 0 0 | 0 12 0 | 6 0 0 | | | | |
| 11 | Krishna Canal | 22 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | *The original rate of Rs. 10 has been increased to Rs. 12 in Government Resolution No. 233-A I-1860, dated 24th October 1894. |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | |
| 12 | Khári Cut... .. | 14 | 7 0 0 | 5 0 0 | 1 0 0 | 6 0 0 | | | | |
| 13 | Hartála Tank | 10 | 4 0 0 | 2 0 0 | 1 0 0 | 4 0 0 | | | | |
| 14 | Mhasva Tank | 10 | 4 0 0 | 2 0 0 | 1 0 0 | 4 0 0 | | | | |
| 15 | Jámda Canals | 16 | 4 0 0 | 2 0 0 | 0 8 0 | 4 0 0 | | | | |
| 16 | Paraul Tank ... .. | ... | ..... | 4 0 0 | 1 0 0 | 6 0 0 | | | | |
| 17 | Pravara River Works (Ojhar Canal) | 8 | 4 0 0 | 2 0 0 | 0 8 0 | 4 0 0 | | | | |
| 18 | Bhatodi Tank | 12 | 4 0 0 | 2 0 0 | 1 0 0 | 4 0 0 | | | | |
| | | { A. 18 B. 12 C. 10 | { 4 0 0 | { 2 0 0 1 8 0 | { 1 0 0 | { 6 0 0 | | | | |
| 19 | Matoba Tank | { A. 16 B. 12 C. 10 | { 4 0 0 | { 2 0 0 | { 0 12 0 | { 6 0 0 | | | | |
| | Pán gardens 30 | ..... | ..... | ..... | ..... | ..... |  |  |  |  |
| 20 | Kásurdi Tank | 10 | 4 0 0 | 2 0 0 | 0 12 0 | 4 0 0 | | | | |
| 21 | Shirsuphal Tank | 10 | 4 0 0 | 2 0 0 | 0 12 0 | 4 0 0 | | | | |
| 22 | Bhádralvádi do. | 10 | 4 0 0 | 2 0 0 | 0 12 0 | 4 0 0 | | | | |
| 23 | Koregaon do. | 6 | 2 0 0 | 2 0 0 | 2 0 0 | 2 0 0 | | | | |
| 24 | Ashti do. | 12 | 4 0 0 | 2 0 0 | 0 12 0 | 4 0 0 | | | | |
| 25 | Revári Canal | 18 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | |
| 26 | Upper Mán River Works | 18 | 4 0 0 | 2 0 0 | 0 12 0 | 6 0 0 | | | | |
| 27 | Yerla River Irrigation Works | 18 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | |
| 28 | Chikhli Canal | 18 | 4 0 0 | 2 0 0 | 1 0 0 | 6 0 0 | | | | |
| 29 | Maini Tank | 18 | 4 0 0 | 2 0 0 | 0 12 0 | 6 0 0 | | | | |
| 30 | Muchkundi Tank | 8 | 4 0 0 | 2 0 0 | 1 0 0 | 4 0 0 | | | | |
| 31 | Nilgund do. ... .. | ... | ..... | ..... | ..... | ..... |  |  |  |  |
| 32 | Gadikeri do. ... .. | ... | ..... | ..... | ..... | ..... |  |  |  |  |
| 33 | Dámbal do. | 10 | { \$1 0 0 \$6 0 0 | { a 2 0 0 b 2 0 0 | { 0 8 0 | { 4 0 0 | | | | |
| 34 | Medleri do. | 10 | { \$1 0 0 \$6 0 0 | { a 2 0 0 b 2 0 0 | { 0 8 0 | { 4 0 0 | | | | |
| 35 | Madag do. | 10 | { \$4 0 0 \$6 0 0 | { a 2 0 0 b 2 0 0 | { 0 8 0 | { 4 0 0 | | | | |
| 36 | Asundi do. | 10 | { \$1 0 0 \$6 0 0 | { a 2 0 0 b 2 0 0 | { 0 8 0 | { 4 0 0 | | | | |
| 37 | Mávin kop... .. | ... | ..... | ..... | ..... | ..... |  |  |  |  |
| PROVINCIAL. | | | | | | | | | | |
| 39 | Gokak Canal, 1st Section, and Storage Works | { (a) 15 (a) 8 | { (b) 3 8 0 (c) 3 0 0 (d) 7 0 0 | { (e) 1 8 0 (f) 2 8 0 | { 0 14 0 | { (g) 6 0 0 | | | | { (a) This is a special rate for sweet potatoes which require water for 10 months. (b) " " 15th October to 15th June. (c) & (d) " " 15th June to 15th October. (e) " " 15th October to 15th June. (f) " " 15th June to 15th October. (g) " " 15th October to 15th February. |

Note.—(1) For lift irrigation half the ordinary rates are charged.
(2) Double the ordinary rates are charged as penal rates for taking water without permission.
(3) Leakage or percolation rates are the same as ordinary rates.

STATEMENT G.

Statement showing Areas and Water-rate Assessments during 1894-95 according to the system of classification adopted in fixing the Scale of Water-rates.

| Number. | Name of Work. | CLASS I.— PERENNIAL. | | CLASS II.— 8 MONTHS. | | CLASS III.— 4 MONTHS. | | CLASS IV.— MOONSOON DRY. | | CLASS V.— SPECIAL HOT WEATHERS. | | MISCELLA- NEOUS. | | GRAND TOTAL. | | REMARKS. | |
|------------------------------------|--|-------------------------|------------------|-------------------------|------------------|--------------------------|------------------|--------------------------------|------------------|---------------------------------------|------------------|---------------------|------------------|--------------|------------------|--|----------|
| | | Areas. | Assess- ment. | Areas. | Assess- ment. | Areas. | Assess- ment. | Areas. | Assess- ment. | Areas. | Assess- ment. | Areas. | Assess- ment. | Areas. | Assess- ment. | | |
| MAJOR WORKS. | | | | | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | | | | | |
| 1 | Nira Canal | 4,455 | 41,788 | 3,615 | 14,442 | 14,165 | 38,482 | 5,786 | 4,889 | 349 | 1,763 | ... | ... | 28,370 | 90,864 | | |
| 2 | Mhasvad Tank | 373 | 3,779 | 1,081 | 4,622 | 2,680 | 5,406 | 83 | 62 | 8 | 37 | 2 | 64 | 4,218 | 18,809 | | |
| | Total | 4,828 | 45,567 | 1,696 | 18,964 | 16,845 | 33,887 | 5,869 | 4,951 | 357 | 1,800 | 2 | 64 | 32,588 | 1,04,733 | | |
| | Average rate | ... | 9'44 | ... | 4'04 | ... | 2'01 | ... | 0'76 | ... | 5'04 | ... | 32'0 | ... | 3'31 | | |
| <i>Productive Works.</i> | | | | | | | | | | | | | | | | | |
| 5 | Háthmati Canal | 39 | 394 | 1,738 | 5,144 | 2,331 | 4,608 | ... | ... | 61 | 361 | 30 | 30 | 4,199 | 10,537 | | |
| 6 | Lower Pánjira River Works | 211 | 2,090 | 237 | 946 | 553 | 1,109 | 17 | 17 | 10 | 29 | ... | ... | 1,026 | 4,193 | | |
| 7 | Kádra River (Fákhed Canal Works.) | 285 | 2,330 | 639 | 2,668 | 688 | 1,407 | 115 | 115 | 98 | 730 | 86 | 95 | 1,651 | 7,349 | | |
| | Wádáli Canal | 69 | 612 | 223 | 876 | 238 | 485 | 39 | 39 | 12 | 84 | 6 | 18 | 686 | 3,112 | | |
| 8 | Pravara River Works—Lákh Canal | 91 | 1,688 | 146 | 590 | 126 | 252 | 34 | 34 | ... | ... | ... | ... | 527 | 1,044 | | |
| | First Section, i.e., within the Poona City and the Suburban Municipal and Cantonment limits or within one mile of these limits. | A. 761 | 30,359 | ... | ... | 175 | 345 | 24 | ... | 13 | ... | ... | ... | 810 | 1,905 | | |
| | Second Section, i.e., for all villages excepting those within the above-mentioned limits within a radius of 8 miles from Poona. | B. 536 | 4,591 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | |
| | Third Section, i.e., for villages beyond those limits. | C. 232 | 1,363 | 193 | 1,025 | 363 | 1,006 | 8 | 9 | ... | ... | ... | ... | ... | ... | | |
| 9 | Mutha Canals. | A. 3,798 | 82,045 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | |
| | For pán gardens wherever situated throughout the canal. | B. 38 | 562 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 31 | 476 | 10,062 | 1,39,252 |
| | For pán gardens wherever situated throughout the canal. | C. 90 | 1,053 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | For pán gardens wherever situated throughout the canal. | A. 717 | 9,349 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | For pán gardens wherever situated throughout the canal. | B. 10 | 104 | 180 | 762 | 2,177 | 4,360 | 896 | 900 | ... | ... | ... | ... | ... | ... | ... | |
| | For pán gardens wherever situated throughout the canal. | C. 14 | 108 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 10 | Ekrak Tank | 38 | 1,140 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 11 | Krishna Canal | 671 | 6,413 | 788 | 3,173 | 1,337 | 2,657 | 357 | 276 | 119 | 654 | 20 | 90 | 3,292 | 18,403 | | |
| | Total | 1,575 | 32,880 | 2,656 | 10,182 | 340 | 692 | 5 | 6 | 84 | 598 | 13 | 25 | 4,071 | 44,377 | | |
| | Average rate | ... | 19'2 | ... | 3'74 | ... | 2'03 | ... | 0'98 | ... | 6'90 | ... | 5'23 | ... | 6'45 | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | | | | |
| 12 | Khárdi Cut | 23 | 223 | 2,027 | 11,846 | 34 | 170 | ... | ... | 8 | 16 | 1 | 2 | 2,068 | 12,261 | | |
| 13 | Hartáls Tank | 3 | 37 | 2 | 6 | 71 | 142 | 2 | 2 | 5 | 19 | ... | ... | 63 | 20 | | |
| 14 | Mhasva do. | 16 | 163 | 6 | 22 | 10 | 205 | 2 | 2 | 2 | 9 | ... | ... | 127 | 395 | | |
| 15 | Jámda Canals | 373 | 6,044 | 92 | 368 | 577 | 1,142 | 71 | 89 | 30 | 181 | ... | ... | 1,148 | 7,744 | | |
| 16 | Parsul Tank | 22 | 212 | 1 | 6 | 239 | 956 | 25 | 24 | 76 | 490 | ... | ... | 363 | 1,694 | | |
| 17 | Pravara River Works (Ojhar Canal) | 250 | 1,982 | 81 | 329 | 963 | 2,089 | 204 | 110 | 46 | 19 | ... | ... | 1,544 | 4,678 | | |
| 18 | Bhatodi Tank... .. | 64 | 822 | 475 | 2,063 | 1,127 | 2,524 | 27 | 43 | 5 | 16 | ... | ... | 1,098 | 5,467 | | |
| | Pán garden | A. 483 | 7,971 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 19 | Mátoba do. | B. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Pán garden | C. 5 | 49 | 113 | 458 | 588 | 1,165 | 234 | 236 | ... | ... | ... | ... | 1,420 | 9,936 | | |
| | Pán garden | 2 | 57 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 20 | Kásurdi do. | ... | ... | 1 | 8 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 6 | | |
| 21 | Shirsuphal do. | A. 147 | 904 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 177 | 1,079 |
| | Pán garden | B. 21 | 118 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Pán garden | C. 8 | 65 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 22 | Bhádrajvadi do. | A. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Pán garden | B. 1 | 2 | 9 | 39 | 28 | 567 | ... | ... | ... | ... | ... | ... | 1 | 1 | 290 | 674 |
| | Pán garden | C. 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 23 | Koregaon do. | 76 | 455 | 125 | 257 | 189 | 424 | 5 | 11 | 2 | 3 | ... | ... | 391 | 1,150 | | |
| 24 | Ashti do. | 133 | 1,593 | 262 | 1,000 | 804 | 1,834 | 241 | 184 | 19 | 104 | ... | ... | 1,469 | 4,717 | | |
| 25 | Revári do. | 85 | 1,873 | 719 | 2,803 | 650 | 1,828 | ... | ... | 78 | 570 | 3 | 1 | 1,541 | 6,664 | Includes remission of Rs. 50. | |
| 26 | Upper Mán River Works | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1,294 | 6,675 | Includes remission of Rs. 6. | |
| 27 | Yerla River Irrigation Works | 116 | 2,107 | 606 | 2,443 | 344 | 716 | 37 | 29 | 167 | 1,374 | 4 | 6 | 2,386 | 12,728 | | |
| 28 | Chikhli Canal | 34 | 620 | 290 | 1,162 | 69 | 187 | 7 | 7 | 5 | 51 | ... | ... | 405 | 1,977 | | |
| 29 | Maini Tank | 63 | 1,128 | 729 | 2,896 | 473 | 948 | 4 | 8 | 10 | 114 | 1 | 2 | 1,240 | 5,091 | | |
| 30 | Muchkundi do. | 6 | 47 | 7 | 30 | 6 | 12 | ... | ... | ... | ... | ... | ... | 19 | 8 | | |
| 31 | Nilgund do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 32 | Gadikeri do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 33 | Dámbal do. | 49 | 491 | 35 | 218 | 37 | 72 | 28 | 28 | 19 | 77 | 4 | 6 | 172 | 84 | | |
| 34 | Medleri do. | 32 | 240 | 10 | 49 | 70 | 160 | 21 | 21 | 4 | 17 | ... | ... | 187 | 477 | | |
| 35 | Madag do. | 14 | 136 | 91 | 601 | 766 | 1,536 | 36 | 22 | 9 | 34 | 8 | 6 | 624 | 2,259 | | |
| 36 | Asundi do. | 6 | 55 | 74 | 474 | 90 | 205 | 36 | 30 | 4 | 14 | 1 | 1 | 211 | 77 | | |
| 37 | Mavinkop do. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Total | 2,134 | 29,052 | 6,808 | 31,420 | 8,607 | 18,600 | 983 | 794 | 546 | 3,831 | 29 | 38 | 19,167 | 83,535 | | |
| | Average rate | ... | 13'0 | ... | 4'56 | ... | 2'16 | ... | 0'61 | ... | 6'61 | ... | 1'31 | ... | 4'34 | | |
| PROVINCIAL. | | | | | | | | | | | | | | | | | |
| 39 | Gokák Canal, 1st Section, and Storage Works... .. | 171 | 2,559 | 964 | 3,323 | 2,710 | 4,416 | 606 | 790 | 34 | 304 | 178 | 618 | 4,363 | 11,911 | Exclusive of 1,782 acres of Mánula Nagar area and Rs. 6,248 enhanced water rates on old wárga of the Lower Pánjira system. | |
| | Grand Total | 16,301 | 2,53,273 | 19,303 | 79,267 | 35,990 | 78,644 | 9,250 | 7,446 | 1,323 | 8,302 | 349 | 1,458 | 1,82,476 | 14,23,575 | | |
| | Average rate | ... | 15'5 | ... | 4'09 | ... | 2'06 | ... | 0'60 | ... | 6'27 | ... | 4'16 | ... | 5'13 | | |

Note.—The difference between the figures of total areas and assessments in this statement and those in Statements I—E to IV—K is due to difference in treatment of fractions in some cases, and in others to the fact that the figures in this statement are more or less hypothetical and are arrived at on the assumption that certain areas are assessed at certain rates.

STATEMENT II.

Statement showing Operations of the year 1894-95.

| No. | Names of Works. | Amount of Estimate, Direct and Indirect. | CAPITAL OUTLAY DIRECT AND INDIRECT. | | LENGTH OF (AS EXCLUDED). | | AREA UNDER COMMAND. | | Rain-fall. | Dis-charge of canal at head, Cubic feet per second. | AREA. | | Amount of Assessment. | Realiza-tions. | Working Expenses. | Net Revenue. | REMARKS. |
|------------------------------------|---|--|-------------------------------------|--------------------|--------------------------|-----------------|---------------------|-----------------------|--------------|---|---------------|---------------|-----------------------|-----------------|-------------------|-----------------|---|
| | | | During 1894-95. | To end of 1894-95. | Canal. | Distributaries. | Gross. | Irrigable at present. | | | Applied for. | Irrigated. | | | | | |
| | | Rs. | Rs. | Rs. | Miles. | Miles. | Acres. | Acres. | | | Acres. | Acres. | Rs. | Rs. | Rs. | Rs. | |
| MAJOR WORKS. | | | | | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | | | | | |
| 1 | Nira Canal | * 69,49,307 | 2,42,892 | 55,95,977 | 99°0 | 132°46 | 274,447 | 56,640 | 17°75 | 229 | 20,073 | 28,370 | 93,700 | 81,830 | 53,838 | 29,243 | * Includes Interest charges. |
| 2 | Mhasvad Tank | * 27,94,466 | 3,633 | 20,45,895 | 60°25 | 34°0 | 129,045 | 45,813 | 15°71 | 41°68 | 3,633 | 4,226 | 16,135 | 12,718 | 28,460 | -15,742 | |
| | Total .. | 1,17,33,893 | 2,46,525 | 76,41,862 | 156°25 | 166°40 | 403,492 | 102,453 | .. | .. | 24,906 | 32,596 | 1,08,944 | 94,548 | 82,048 | 12,500 | |
| <i>Productive Works.</i> | | | | | | | | | | | | | | | | | |
| 5 | Hathmati Canal | * 8,57,392 | .. | 5,18,395 | 21°0 | 20°0 | 44,744 | 8,000 | 50°95 | 62°00 | 3,333 | 4,190 | 11,733 | 11,079 | 8,087 | 4,992 | † Includes 1,763 acres of Mamil Bagyat. |
| 6 | Lower Pajhra River Works | * 8,68,099 | 532 | 4,61,864 | .. | 45°0 | 13,117 | 12,627 | 18°47 | 16°36 | 896 | 2,790 | 17,759 | 16,555 | 6,896 | 9,889 | |
| 7 | Kadva River Works... (Waghad Tank, Palkhed Canal, Ojhar Tambat Canal, Wadali Canal) | * 4,86,402 | .. | 2,38,526 | 11°0 | 14°36 | .. | .. | .. | .. | .. | .. | 156 | 169 | 3,917 | -2,791 | |
| 8 | Pravara River Works—Lakh Canal | * 68,461 | .. | 29,354 | 8°62 | .. | 28,832 | 9,837 | 25°38 | 19°50 | 1,661 | 1,851 | 8,036 | 8,878 | 3,861 | 17 | |
| 9 | Mutha Canals | * 7,60,764 | 511 | 3,71,891 | 23°0 | 9°37 | 8,486 | 2,333 | 30°28 | 3°68 | 518 | 689 | 2,122 | 744 | 3,340 | -1,596 | |
| 10 | Ekrak Tank | * 98,85,199 | 81,793 | 65,66,489 | 88°0 | 67°0 | 29,918 | 11,280 | 25°64 | 30°32 | 368 | 827 | 1,054 | 2,101 | 3,408 | -307 | |
| 11 | Krishna Canal | * 21,35,880 | .. | 13,40,886 | 48°0 | .. | 94,087 | 16,890 | 32°22 | 158°01 | 13,363 | 10,082 | 2,47,955 | 2,33,386 | 79,709 | 1,53,677 | |
| | Total .. | * 16,60,896 | 1,554 | 8,81,892 | 63°87 | .. | 28,327 | 20,453 | 28°45 | 66°66 | 4,397 | 4,671 | 49,041 | 50,049 | 14,260 | 41,783 | |
| | Total, Major Works .. | 1,74,35,308 | 84,380 | 1,08,36,333 | 267°99 | 165°73 | 267,718 | 104,149 | .. | .. | 26,781 | 28,111 | 3,68,901 | 3,59,467 | 1,48,643 | 2,10,924 | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | | | | |
| 12 | Khari Cut | 1,78,680 | .. | 1,81,848 | 23°0 | 7°0 | 17,300 | 3,000 | 51°33 | 7°16 | 1,800 | 2,088 | 12,607 | 9,681 | 6,107 | 3,674 | ‡ Approximate figures. |
| 13 | Hartala Tank | 75,040 | .. | 73,382 | .. | 5°50 | 4,647 | 415 | 34°71 | 1°71 | 83 | 83 | 637 | 711 | 1,090 | -319 | |
| 14 | Mhasva Tank | 1,40,015 | .. | 1,38,856 | .. | 7°0 | 584 | 1,700 | 28°07 | 0°85 | 114 | 127 | 1,037 | 1,243 | 1,223 | 20 | |
| 15 | Jamda Canals | 10,48,640 | 1,061 | 10,40,446 | 39°0 | 75°0 | 46,238 | 5,000 | 24°37 | 21°92 | 1,106 | 1,148 | 10,478 | 11,361 | 9,708 | 1,553 | |
| 16 | Farsal Tank | 2,28,612 | 847 | 2,19,410 | .. | 4°75 | 2,593 | 2,327 | 1°61 | .. | 363 | 1,705 | 5,125 | 1,887 | 1,369 | 588 | |
| 17 | Pravara River Works—Ojhar Canal | 8,48,211 | 58 | 3,30,240 | 19°0 | 21°0 | 24,784 | 14,763 | 24°29 | 33°60 | 1,870 | 1,644 | 6,125 | 7,738 | 28,760 | -21,028 | |
| 18 | Bhatodi Tank | 3,78,278 | .. | 3,79,707 | 4°30 | 5°66 | 16,128 | 12,124 | 21°95 | 8°08 | 2,066 | 1,840 | 1,369 | 7,383 | 12,281 | -7,612 | |
| 19 | Mathoba do. | 2,10,500 | 695 | 2,01,422 | 17°0 | .. | 10,700 | 2,800 | 18°28 | 8°93 | 1,948 | 1,420 | 10,079 | 9,508 | 4,257 | 148 | |
| 20 | Kasurdi do. | 45,600 | .. | 45,690 | .. | 1°75 | 597 | 478 | 18°14 | .. | 3 | 1 | 309 | 617 | 309 | .. | |
| 21 | Shirsaphal do. | 2,22,222 | 2,141 | 2,23,703 | .. | 13°50 | 4,500 | 2,500 | 15°24 | 4°43 | 209 | 177 | 1,394 | 2,581 | 3,196 | -615 | |
| 22 | Bhadralvad do. | 2,28,724 | 185 | 2,27,414 | .. | 9°75 | 3,000 | 2,400 | 14°23 | 3°28 | 534 | 299 | 745 | 800 | 1,697 | -947 | |
| 23 | Koregaon do. | 42,049 | .. | 39,169 | .. | .. | .. | .. | 23°10 | 2°38 | 387 | 391 | 1,175 | 1,028 | 730 | 296 | |
| 24 | Ashti do. | 8,34,927 | 10 | 8,91,103 | 3°75 | .. | Not known. | 14,476 | 21°70 | 10°39 | 1,470 | 1,459 | 5,136 | 4,338 | 3,953 | 436 | |
| 25 | Revari Canal | 59,448 | 49 | 59,420 | 10°25 | .. | 3,818 | 3,824 | 31°78 | 4°41 | 1,490 | 1,541 | 6,660 | 6,018 | 1,038 | 4,978 | |
| 26 | Upper Man River Works | 4,44,531 | .. | 4,29,662 | 17°50 | 6°60 | 8,443 | 7,025 | 20°18 | 4°32 | 1,338 | 1,294 | 6,775 | 6,036 | 4,239 | 1,797 | |
| 27 | Yeria River Irrigation Works | * 7,30,073 | 7,641 | 6,80,244 | 28°60 | 4°0 | 11,334 | 10,630 | 29°40 | 8°16 | 2,139 | 2,386 | 9,708 | 7,579 | 23,752 | -16,178 | |
| 28 | Chikhli-Canal | 67,415 | .. | 67,442 | 6°50 | .. | 1,871 | 1,478 | 20°02 | 4°93 | 344 | 403 | 2,039 | 1,442 | 874 | 668 | |
| 29 | Maini Tank | 3,90,492 | .. | 3,89,910 | 9°25 | 7°68 | 4,876 | 4,626 | 14°43 | 4°31 | 1,149 | 1,260 | 5,806 | 3,888 | 3,827 | 161 | |
| 30 | Muchkundi do. | 1,68,420 | .. | 1,68,707 | 5°60 | 2°25 | 5,570 | 3,417 | 17°87 | Not known. | 80 | 19 | 289 | 289 | 666 | -377 | |
| 31 | Nilgund do. | .. | .. | 9,027 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 25 | -25 | |
| 32 | Gadikeri do. | 9,238 | .. | 9,279 | .. | .. | 687 | 337 | 28°53 | .. | .. | .. | 1,987 | 1,987 | 236 | 1,751 | |
| 33 | Dambal do. | 64,906 | .. | 63,980 | .. | 3°27 | 4,595 | 4,525 | 12°08 | 1°38 | 133 | 172 | 2,392 | 2,104 | 918 | 1,186 | |
| 34 | Medleri do. | 81,705 | .. | 81,392 | .. | 5°64 | 1,916 | 1,052 | 9°29 | 0°44 | 129 | 187 | 494 | 505 | 855 | -380 | |
| 35 | Madag do. | 2,49,407 | .. | 1,67,698 | 9°0 | .. | 2,851 | 2,198 | 19°74 | 5°49 | 914 | 924 | 2,546 | 3,030 | 1,687 | 1,333 | |
| 36 | Asundi do. | 80,485 | 12,536 | 74,995 | .. | 4°36 | 1,800 | 1,800 | 13°49 | 1°36 | 142 | 142 | 1,412 | 1,368 | 909 | 449 | |
| 37 | Mavinkop do. | 31,817 | .. | 30,847 | .. | .. | 873 | 617 | No gauge. | .. | .. | .. | 1,017 | 1,017 | 101 | 916 | |
| | Total .. | 63,64,485 | 25,223 | 61,60,840 | 203°35 | 202°85 | 198,460 | 103,922 | .. | .. | 19,545 | 19,167 | 98,925 | 92,711 | 1,14,573 | -21,862 | |
| PROVINCIAL. | | | | | | | | | | | | | | | | | |
| 39 | Gokak Canal | * 18,77,878 | 18,395 | 11,94,876 | 14°02 | 28°65 | 18,068 | 6,170 | 13°90 | 14°19 | 4,150 | 4,363 | 17,067 | 16,736 | 5,662 | 11,094 | |
| | GRAND TOTAL .. | 3,00,31,474 | 3,74,633 | 2,58,23,911 | 642°21 | 561°69 | 385,342 | 315,694 | 23°13 | .. | 73,999 | 84,237 | 6,03,737 | 5,63,462 | 3,50,926 | 2,12,566 | |

XXXX

† Acres on which consolidated assessment is levied.
‡ See foot-note to Statement II A.

STATEMENT G.

Statement showing Areas and Water-rate Assessments during 1894-95 according to the system of classification adopted in fixing the Scale of Water-rates.

| Numbers | Name of Work. | CLASS I.— PERENNIAL. | | CLASS II.— 6 MONTHS. | | CLASS III.— 4 MONTHS. | | CLASS IV.— MONSOON DEY. | | CLASS V.— SPECIAL HOT WEATHER. | | MISCELLA- NEOUS. | | GRAND TOTAL. | | REMARKS. | |
|------------------------------------|---|-------------------------|------------------|-------------------------|------------------|--------------------------|------------------|-------------------------------|------------------|--------------------------------------|------------------|---------------------|------------------|--------------|-------------------------------|--|----------|
| | | Area. | Assess- ment. | Area. | Assess- ment. | Area. | Assess- ment. | Area. | Assess- ment. | Area. | Assess- ment. | Area. | Assess- ment. | Area. | Assess- ment. | | |
| MAJOR WORKS. | | | | | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | | | | | |
| 1 | Nira Canal | 4,455 | 41,788 | 3,615 | 14,443 | 14,165 | 28,482 | 5,766 | 4,388 | 348 | 1,743 | — | — | 38,370 | 80,864 | | |
| 2 | Mhasvad Tank | 373 | 3,778 | 1,061 | 4,623 | 2,650 | 5,405 | 62 | 62 | 8 | 37 | 2 | 64 | 4,216 | 13,888 | | |
| | Total | 4,828 | 45,567 | 4,676 | 19,066 | 16,815 | 33,887 | 5,828 | 4,450 | 356 | 1,800 | 2 | 64 | 42,586 | 1,04,752 | | |
| | Average rate | — | 9.44 | — | 4.04 | — | 2.01 | — | 0.76 | — | 5.04 | — | 33.0 | — | 3.31 | | |
| <i>Productive Works.</i> | | | | | | | | | | | | | | | | | |
| 5 | Hathmati Canal | 30 | 304 | 1,738 | 5,144 | 2,321 | 4,098 | — | — | 61 | 361 | 30 | 30 | 4,190 | 10,537 | | |
| 6 | Lower Pambhara River Works | 211 | 2,060 | 27 | 946 | 65 | 1,100 | 37 | 17 | 10 | 2 | — | — | 1,036 | 4,193 | | |
| 7 | Kadva River (Palkhed Canal Works.) | 265 | 2,339 | 639 | 2,686 | 608 | 1,407 | 118 | 118 | 98 | 73 | 38 | 38 | 1,651 | 7,549 | | |
| | Wadhli Canal | 69 | 612 | 223 | 876 | 23 | 465 | 39 | 39 | 12 | 54 | 5 | 16 | 600 | 2,112 | | |
| 8 | Pravara River Works—Lath Canal | 31 | 168 | 146 | 590 | 128 | 252 | 34 | 34 | — | — | — | — | 327 | 1,044 | | |
| | First Section, i.e., within the Poona City and the Suburban Municipal and Cantonment limits or within one mile of these limits. | A. 761 | 30,339 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | Second Section, i.e., for all villages excepting those within the above-mentioned limits within a radius of 8 miles from Poona. | B. 536 | 4,591 | 198 | 1,025 | 363 | 1,006 | 8 | 9 | — | — | — | — | — | — | | |
| | Third Section, i.e., for villages beyond those limits. | C. 233 | 1,363 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 9 | Mutha Canals | A. 3,798 | 82,045 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | For pan gardens wherever situated throughout the canal. | B. 28 | 562 | — | — | — | — | — | — | — | — | — | — | 31 | 476 | 10,083 | 1,30,253 |
| | For pan gardens wherever situated throughout the canal. | C. 90 | 1,053 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | For pan gardens wherever situated throughout the canal. | A. 717 | 9,399 | 180 | 762 | 2,177 | 4,360 | 896 | 90 | — | — | — | — | — | — | | |
| | For pan gardens wherever situated throughout the canal. | B. 10 | 104 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | For pan gardens wherever situated throughout the canal. | C. 14 | 168 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 10 | Ekrak Tank | 38 | 1,140 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 11 | Krishna Canal | 671 | 6,413 | 799 | 3,173 | 1,337 | 2,657 | 357 | 276 | 119 | 654 | 20 | 90 | 3,292 | 13,463 | | |
| | Total | 1,575 | 32,580 | 2,666 | 10,162 | 340 | 692 | 3 | 5 | 64 | 560 | 13 | 25 | 4,671 | 44,377 | | |
| | Average rate | — | 19.2 | — | 3.74 | — | 2.03 | — | 0.98 | — | 6.90 | — | 5.23 | — | 6.46 | | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | | | | |
| 12 | Khari Cut | 23 | 224 | 2,027 | 11,848 | 34 | 170 | — | — | 3 | 15 | 1 | 2 | 2,068 | 12,261 | | |
| 13 | Hartia Tank | 3 | 37 | — | — | 71 | 145 | 2 | 2 | 2 | 3 | — | — | 63 | 20 | | |
| 14 | Mhasva do. | 16 | 164 | 6 | 22 | 10 | 265 | 2 | 2 | 2 | 3 | — | — | 127 | 265 | | |
| 15 | Jambhura Canals | 373 | 6,044 | 92 | 306 | 577 | 1,162 | 71 | 36 | 30 | 131 | — | — | 1,146 | 7,144 | | |
| 16 | Parvat Tank | 22 | 212 | 1 | 6 | 239 | 950 | 25 | 24 | 16 | 49 | — | — | 303 | 1,044 | | |
| 17 | Pravara River Works (Ojhar Canal) | 250 | 1,992 | 81 | 329 | 983 | 2,089 | 304 | 110 | 46 | 19 | — | — | 1,544 | 4,676 | | |
| 18 | Bhadoli Tank | 64 | 622 | 475 | 2,063 | 1,127 | 2,524 | 27 | 43 | 5 | 16 | — | — | 1,688 | 6,467 | | |
| | For pan gardens | A. 483 | 7,971 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 19 | Mitoba do. | C. 5 | 49 | 113 | 458 | 583 | 1,163 | 234 | 226 | — | — | — | — | 1,420 | 9,386 | | |
| | For pan gardens | 2 | 57 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 20 | Kasurdi do. | — | — | 1 | 8 | — | — | — | — | — | — | — | — | 1 | 6 | | |
| 21 | Shiruphal do. | A. 147 | 904 | — | — | — | — | — | — | — | — | — | — | 1 | 2 | 177 | 1,079 |
| | For pan gardens | B. 21 | 118 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | For pan gardens | C. 8 | 65 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 22 | Bhadalvadi do. | A. 1 | 2 | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 290 | 674 |
| | For pan gardens | B. 1 | 2 | 9 | 30 | 29 | 567 | — | — | — | — | — | — | — | — | | |
| | For pan gardens | C. 2 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 23 | Kovgaon do. | 76 | 455 | 125 | 257 | 183 | 424 | 5 | 11 | 2 | 3 | — | — | 301 | 1,160 | | |
| 24 | Ashi do. | 133 | 1,508 | 262 | 1,090 | 604 | 1,824 | 241 | 164 | 10 | 10 | — | — | 1,460 | 4,317 | | |
| 25 | Bavari do. | 95 | 1,673 | 719 | 2,693 | 649 | 1,228 | — | — | 75 | 57 | 3 | 1 | 1,541 | 6,564 | Includes remission of Rs. 60. | |
| 26 | Upper Man River Works | 114 | 3,107 | 696 | 2,443 | 344 | 716 | 37 | 29 | 167 | 1,374 | 4 | 4 | 1,294 | 6,675 | Includes remission of Rs. 60. | |
| 27 | Yeria River Irrigation Works | 90 | 1,023 | 1,113 | 4,443 | 1,139 | 2,953 | 3 | 65 | 34 | 5 | 11 | 2,306 | 10,729 | Includes remission of Rs. 60. | | |
| 28 | Chikhli Canal | 34 | 624 | 250 | 1,162 | 66 | 157 | 7 | 7 | 5 | 51 | — | — | 606 | 1,977 | | |
| 29 | Maini Tank | 63 | 1,128 | 729 | 2,956 | 473 | 943 | 6 | 5 | 10 | 110 | 1 | 2 | 1,290 | 6,091 | | |
| 30 | Muchkundi do. | 6 | 47 | 7 | 30 | 6 | 12 | — | — | — | — | — | — | 10 | 50 | | |
| 31 | Nilgund do. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 32 | Gadikeri do. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| 33 | Dambal do. | 40 | 401 | 33 | 213 | 37 | 72 | 28 | 28 | 19 | 77 | 4 | 4 | 172 | 640 | | |
| 34 | Medleri do. | 32 | 340 | 10 | 49 | 7 | 150 | 21 | 21 | 4 | 17 | — | — | 137 | 477 | | |
| 35 | Madar do. | 14 | 186 | 91 | 501 | 798 | 1,598 | 36 | 23 | 9 | 30 | 8 | 8 | 921 | 2,236 | | |
| 36 | Asundi do. | 6 | 50 | 74 | 474 | 2 | 35 | 36 | 30 | 4 | 16 | 1 | 1 | 311 | 774 | | |
| 37 | Mavinkop do. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| | Total | 2,134 | 29,023 | 6,608 | 31,420 | 8,607 | 18,600 | 963 | 784 | 846 | 2,621 | 29 | 38 | 19,167 | 63,637 | | |
| | Average rate | — | 13.6 | — | 4.56 | — | 2.16 | — | 0.81 | — | 6.96 | — | 1.21 | — | 4.30 | | |
| PROVINCIAL. | | | | | | | | | | | | | | | | | |
| 38 | Gokak Canal, 1st Section, and Storage Works | 171 | 2,559 | 964 | 3,223 | 2,110 | 4,416 | 5 | 79 | 24 | 39 | 173 | 616 | 4,363 | 11,811 | Exclusive of 1,720 acres of Muzamir Nagar area and Rs. 2,200 estimated water rate on said area of the Lower Fazlgaon system. | |
| | Grand Total | 16,201 | 2,48,373 | 18,363 | 79,267 | 35,990 | 73,694 | 9,250 | 7,446 | 1,323 | 8,202 | 340 | 1,453 | 102,425 | 1,42,357 | | |
| | Average rate | — | 15.3 | — | 4.00 | — | 2.00 | — | 0.50 | — | 6.27 | — | 4.16 | — | 5.13 | | |

Note.—The difference between the figures of total areas and assessments in this statement and those in Statements I—E to IV—E is due to difference in treatment of fractions in some cases, and in others to the fact that the figures in this statement are more or less hypothetical and are arrived at on the assumption that certain areas are assessed at certain rates.

STATEMENT II.
Statement showing Operations of the year 1894-95.

| No. | Names of Works. | Amount of Estimate, Direct and Indirect. | CAPITAL OUTLAY DIRECT AND INDIRECT. | | LENGTH OF (AS EXCLUDED). | | AREA UNDER COMMAND. | | Rain-fall. | Dis-charge of canal at head, Cubic feet per second. | AREA. | | Amount of gross Assessment. | Realiza-tions. | Working Expenses. | Net Revenue. | REMARKS. |
|------------------------------------|---|--|-------------------------------------|-----------------------------|--------------------------|-------------------|--------------------------|-------------------------|-------------------------|---|-----------------------|-----------------------|-----------------------------|-----------------------|--------------------------|-----------------|--|
| | | | During 1894-95. | To end of 1894-95. | Canal. | Distribu-taries. | Gross. | Irrigable at present. | | | Applied for. | Irrigated. | | | | | |
| | | Rs. | Rs. | Rs. | Miles. | Miles. | Acres. | Acres. | | | Acres. | Acres. | Rs. | Rs. | Rs. | Rs. | |
| MAJOR WORKS. | | | | | | | | | | | | | | | | | |
| <i>Protective Works.</i> | | | | | | | | | | | | | | | | | |
| 1 | Nira Canal | * 89,49,307 | 2,42,892 | 55,95,977 | 90*0 | 192*46 | 274,447 | 56,640 | 17*75 | 228 | 20,072 | 28,370 | 92,709 | 81,830 | 53,538 | 29,243 | * Includes Interest charges. |
| 2 | Mhasvad Tank | * 27,64,406 | 3,833 | 20,45,885 | 60*25 | 84*0 | 129,045 | 45,813 | 15*71 | 41*68 | 3,533 | 4,226 | 16,135 | 12,718 | 25,400 | 15,742 | |
| | Total | 1,17,33,803 | 2,46,625 | 76,41,862 | 156*25 | 168*46 | 403,492 | 102,453 | .. | .. | 24,506 | 32,596 | 1,08,844 | 94,548 | 82,048 | 12,500 | |
| <i>Productive Works.</i> | | | | | | | | | | | | | | | | | |
| 5 | Háthmati Canal | * 8,57,392 | .. | 5,18,395 | 21*0 | 30*0 | 44,744 | 8,000 | 50*85 | 62*00 | 3,393 | 4,199 | 11,733 | 11,079 | 6,037 | 4,992 | † Includes 1,762 acres of Mámul Bagayat. |
| 6 | Lower Pánjhra River Works | * 6,66,099 | .. 532 | 4,61,664 | .. | 45*0 | 13,117 | 12,627 | 18*47 | 16*36 | 896 | 2,790 | 17,749 | 16,555 | 6,696 | 9,989 | |
| 7 | Kadva River Works... { Wághad Tank Pákhed Canal (Jhar Tánbat Canal. Wadsil Canal | * 4,66,432 * 17,785 * 63,461 | .. .. .. | 2,36,528 6,932 29,354 | 11*0 4*50 8*63 | 14*36 | 28,832 8,055 3,486 | 9,837 2,367 2,438 | 25*38 18*50 30*28 | 25*38 18*50 30*28 | 1,661 1,651 519 | 1,851 1,851 539 | 8,986 8,878 744 | 8,878 744 2,340 | 8,861 2,917 -1,596 | 17 | |
| 8 | Pravara River Works—Láksh Canal | * 7,90,764 | .. 511 | 29,354 | 23*0 | 9*37 | 29,918 | 11,280 | 25*64 | 30*28 | 6*01 | 368 | 2,122 | 2,101 | 2,408 | 13,319 | |
| 9 | Mrukha Canals | * 98,85,189 | 81,793 | 65,56,439 | 38*0 | 67*0 | 64,087 | 16,890 | 32*22 | 156*01 | 11,366 | 10,083 | 2,47,955 | 2,33,986 | 79,709 | -11,671 | |
| 10 | Ekruk Tank | * 21,35,680 | .. | 13,40,386 | 48*0 | .. | 17,162 | 14,352 | 20*18 | 89*99 | 2,768 | 8,292 | 29,551 | 28,871 | 13,050 | 16,821 | |
| 11 | Krishna Canal | * 16,60,890 | 1,554 | 8,64,892 | 63*87 | .. | 28,327 | 20,453 | 25*45 | 66*56 | 4,397 | 4,671 | 49,041 | 56,049 | 14,266 | 41,783 | |
| | Total | 1,74,35,308 | 84,390 | 1,08,36,333 | 267*99 | 165*73 | 267,718 | 104,149 | .. | .. | 25,781 | 28,111 | 3,68,901 | 3,59,467 | 1,48,643 | 2,10,824 | |
| | Total Major Works | 2,91,69,111 | 3,30,915 | 1,84,78,195 | 424*24 | 332*19 | 671,205 | 203,603 | .. | .. | 60,286 | 60,707 | 4,77,745 | 4,54,015 | 2,30,691 | 2,23,324 | |
| MINOR WORKS AND NAVIGATION. | | | | | | | | | | | | | | | | | |
| 12 | Khári Cut | 1,78,680 | .. | 1,81,848 | 23*0 | 7*0 | 17,800 | 3,000 | 61*33 | 7*16 | 1,800 | 2,088 | 12,907 | 9,681 | 6,107 | 3,574 | ‡ Approximate figures. |
| 13 | Hartala Tank | 75,040 | .. | 73,393 | .. | 5*50 | 684 | 415 | 34*71 | 1*71 | 83 | 87 | 637 | 1,030 | 1,223 | 80 | |
| 14 | Mhasva Tank | 1,40,015 | .. | 1,89,956 | .. | 7*0 | 4,647 | 1,700 | 28*07 | 0*85 | 114 | 137 | 1,845 | 1,361 | 9,708 | 1,653 | |
| 15 | Jánda Canals | 10,98,640 | 1,061 | 10,40,448 | 39*0 | 75*0 | 46,288 | 5,000 | 24*87 | 24*92 | 1,106 | 1,148 | 10,478 | 11,361 | 1,359 | 598 | |
| 16 | Parval Tank | 2,23,612 | .. | 2,19,419 | .. | 4*75 | 2,593 | 1,500 | 25*87 | 1*61 | 237 | 833 | 1,705 | 1,387 | 7,738 | 6,568 | |
| 17 | Pravara River Works—Ojhar Canal | 3,43,211 | 847 | 8,30,249 | 19*0 | 21*0 | 23,724 | 14,763 | 24*29 | 33*60 | 1,870 | 1,544 | 5,138 | 24,229 | 26,766 | -21,028 | |
| 18 | Bhátodi Tank | 3,78,273 | .. | 8,79,707 | 4*50 | 5*50 | 16,126 | 12,124 | 21*85 | 6*08 | 2,096 | 1,698 | 7,383 | 4,769 | 12,241 | -7,512 | |
| 19 | Mathoba do. | 2,19,500 | .. 695 | 2,01,432 | .. | 17*0 | 10,700 | 2,600 | 16*28 | 8*93 | 1,048 | 1,420 | 10,079 | 9,606 | 4,267 | 5,549 | |
| 20 | Káurdi do. | 45,590 | .. | 45,590 | .. | 1*75 | 597 | 478 | 18*14 | .. | 2 | 1 | 309 | 617 | 369 | 148 | |
| 21 | Shiruphal do. | 2,22,282 | 2,141 | 2,23,793 | .. | 13*50 | 4,800 | 2,500 | 15*24 | 4*43 | 209 | 177 | 1,304 | 2,581 | 3,196 | -615 | |
| 22 | Bhádvaládi do. | 2,28,724 | 185 | 2,27,414 | .. | 9*75 | 9,000 | 2,400 | 14*28 | 3*28 | 534 | 299 | 745 | 1,687 | 1,687 | -837 | |
| 23 | Koregaon do. | 42,049 | .. | 39,189 | 3*75 | .. | Not known. | .. | 23*10 | 2*63 | 391 | 391 | 1,175 | 1,028 | 730 | 298 | |
| 24 | Ashti do. | 8,34,927 | 10 | 8,31,103 | 27*60 | 2*0 | 17,832 | 14,476 | 21*70 | 10*39 | 1,470 | 1,469 | 5,136 | 4,338 | 3,933 | 438 | |
| 25 | Upper Mán River Works | 59,448 | 49 | 59,420 | 10*25 | .. | 3,813 | 3,624 | 31*78 | 4*41 | 1,480 | 1,541 | 6,960 | 6,916 | 4,239 | 4,978 | |
| 26 | Yepla River Irrigation Works | 4,44,531 | .. | 4,29,562 | 17*50 | 6*50 | 8,443 | 7,623 | 20*18 | 4*32 | 1,338 | 1,294 | 6,775 | 4,239 | 1,797 | 1,797 | |
| 27 | Chikhli-Canal | * 7,90,073 | 7,641 | 6,86,244 | 28*80 | 4*0 | 11,234 | 10,680 | 29*40 | 6*16 | 2,139 | 2,386 | 9,708 | 7,679 | 23,752 | -10,173 | |
| 28 | Maini Tank | 57,416 | .. | 1,871 | 6*50 | .. | 1,871 | 1,478 | 20*02 | 4*63 | 344 | 405 | 2,039 | 1,443 | 693 | 874 | |
| 29 | Muchkundi do. | 3,90,492 | .. | 3,80,010 | 9*25 | 7*58 | 4,676 | 4,625 | 14*43 | 4*21 | 1,149 | 1,280 | 5,606 | 3,988 | 3,897 | 161 | |
| 30 | .. .. . | 1,68,420 | .. | 1,68,707 | 5*50 | 2*25 | 5,570 | 3,417 | 17*87 | .. | 30 | 19 | 280 | 280 | 586 | -377 | |
| 31 | Nilgund do. | .. | .. | 9,027 | .. | .. | .. | .. | .. | known, | .. | .. | .. | .. | 25 | -25 | |
| 32 | Gadikeri do. | 9,238 | .. | 9,279 | .. | .. | .. | .. | 28*53 | .. | .. | .. | 1,987 | 1,987 | 236 | 1,751 | |
| | Total | 63,84,485 | 25,223 | 61,50,840 | 203*85 | 202*85 | 105,460 | 103,922 | .. | .. | 10,545 | 19,167 | 98,925 | 92,711 | 1,14,873 | -21,862 | |
| PROVINCIAL. | | | | | | | | | | | | | | | | | |
| 33 | Dámbal do. | 64,906 | .. | 63,980 | .. | 3*27 | 4,595 | 4,525 | 12*98 | 1*88 | 133 | 172 | 2,392 | 2,104 | 918 | 1,168 | |
| 34 | Medleri do. | 81,705 | .. | 81,392 | .. | 5*64 | 1,916 | 1,052 | 9*29 | 0*44 | 129 | 187 | 494 | 605 | 635 | -380 | |
| 35 | Madag do. | 2,49,407 | .. | 1,67,698 | 9*0 | .. | 2,851 | 2,188 | 19*74 | 5*40 | 914 | 924 | 2,546 | 3,020 | 1,687 | 1,333 | |
| 36 | Asundi do. | 80,485 | 12,536 | 74,995 | .. | 4*96 | 1,800 | 1,800 | 13*49 | 1*86 | 142 | 211 | 1,412 | 1,358 | 909 | 449 | |
| 37 | Mávinkop do. | 31,817 | .. | 30,847 | .. | .. | 872 | 617 | No gauge. | .. | .. | 492 | 1,017 | 1,017 | 101 | 016 | |
| | Total | 3,69,31,474 | 3,74,533 | 2,58,23,911 | 642*21 | 601*50 | 885,342 | 315,694 | 23*13 | .. | 73,990 | 84,237 | 5,93,737 | 5,63,482 | 3,50,926 | 2,12,556 | |

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† Acres on which consolidated assessment is levied.
‡ See foot-note to Statement II A.

PART I.

MAJOR WORKS.

PROTECTIVE IRRIGATION WORKS.

(1).—NIRA CANAL.

On the 31st March 1894 the culturable area commanded by the distributaries in operation was 183,862 acres, the same as in the previous year. Under the explanation of the terms *gross area, culturable area, and irrigable area* recently given by Government, an alteration in the figures in Statement I—A. becomes necessary. The gross area commanded by complete project is 274,447 acres. The culturable area under command of the complete project is 227,670 acres. The irrigable area, or in other words the irrigating capacity of the work, ascertained from the maximum discharging capacity of the canal and an assumed duty of water, has been estimated at 56,640 acres, *vide* paragraph 28 of the Nira Canal printed report. This is therefore entered as the *area irrigable* by complete project. The existing distributaries are able to carry more than the full discharge of the canal, and, therefore, the irrigable area *at present* is the same as for the complete project. The construction of the two end distributaries, *i. e.*, Nos. 60 and 61, would increase the culturable area to the maximum, but would not increase the irrigable area.

During the year no fresh area was brought under command, though the head regulators of three distributaries were enlarged to accommodate increased irrigation.

2. The total area irrigated during the year was 28,370 acres. The following table gives the figures for the last six years :—

| Years. | Kharif. | Rabi. | Total. | Water-rates assessed. |
|----------------|---------|--------|--------|-----------------------|
| | Acres. | Acres. | Acres. | Rs. |
| 1889-90 | 9,819 | 12,111 | 21,930 | 24,688 |
| 1890-91 | 8,920 | 7,993 | 16,913 | 36,226 |
| 1891-92 | 9,595 | 19,268 | 28,863 | 66,390 |
| 1892-93 | 11,104 | 7,142 | 18,246 | 60,036 |
| 1893-94 | 13,556 | 10,947 | 24,503 | 83,703 |
| 1894-95 | 12,349 | 16,021 | 28,370 | 90,864 |

3. The total area irrigated was 3,867 acres more than in 1893-94. The kharif season showed a decrease of 1,207 acres, chiefly due to reduction in area of sugarcane crops. The rabi season showed an increase of 5,074 acres, due to the scanty rain during the rabi season in this district.

4. The excess of the measured area over that applied for, as shown in the following table, was 7,398 acres. The difference is due to the fact that cultivators are in the habit of entering in their applications only the minimum area they can be charged for, and irrigating generally much more. Measures are being taken to check this :—

| Season and years. | | | | Applied for. | Irrigated. | Difference. | Percentage of difference on area applied for. | |
|-------------------|-----|-----|-----|--------------|------------|-------------|---|-------|
| | | | | Acres. | Acres. | Acres. | | |
| <i>Kharif.</i> | | | | | | | | |
| 1893-94 | ... | ... | ... | 11,629 | 13,556 | 1,927 | .... |  |
| 1894-95 | ... | ... | ... | 11,039 | 12,349 | 1,310 | .... |  |
| <i>Rabi.</i> | | | | | | | | |
| 1893-94 | ... | ... | ... | 7,113 | 10,947 | 3,834 | ..... |  |
| 1894-95 | ... | ... | ... | 9,933 | 16,021 | 6,088 | ..... |  |
| Total | | | | | | | | |
| | | | | 1893-94 | 18,742 | 24,503 | 5,761 | 30.74 |
| | | | | 1894-95 | 20,972 | 28,370 | 7,398 | 35.28 |

Rainfall.

5. The rainfall during the year was very scanty in the rabi season and compares with the last two years as follows :—

| Years. | | | | Kharif. | Rabi. | Total. |
|---------|-----|-----|-----|---------|---------|---------|
| | | | | Inches. | Inches. | Inches. |
| 1892-93 | ... | ... | ... | 21.34 | 10.67 | 32.01 |
| 1893-94 | ... | ... | ... | 10.20 | 5.63 | 15.83 |
| 1894-95 | ... | ... | ... | 13.62 | 4.13 | 17.75 |

NOTE.—The kharif and rabi rainfall 13.62 and 4.13 shown in the above table is correct. The fall of 9 cents and 1.60 was through oversight not included in the figures shown against Nira Canal in Irrigation operation Statements for first half of October 1894 and first half of January 1895, respectively, and the comparative Statement of Irrigation and Rainfall for 1894-95.

The following table shows the total rainfall of the kharif and rabi seasons at different stations along the canal :—

| Stations. | 1894-95. | | | Average for 10 years from 1884-93. | Average for 5 years from 1890-94. |
|-----------|----------|--------|--------|------------------------------------|-----------------------------------|
| | Kharif. | Rabi. | Total. | | |
| | In. c. | In. c. | In. c. | In. c. | In. c. |
| Pimpra | 12 26 | 4 96 | 17 22 | 20 77 | 18 39 |
| Wadgaon | 12 40 | 3 63 | 16 03 | 20 63 | 20 91 |
| Pandhara | 15 84 | 2 66 | 18 50 | 20 68 | 20 70 |
| Baramati | 12 99 | 3 72 | 16 71 | 20 19 | 20 14 |
| Sansar | 13 88 | 3 50 | 17 38 | 21 43 | 20 71 |
| Haturna | 16 40 | 3 92 | 20 32 | *21 38 | 22 37 |
| Nimbgaon | 13 44 | 6 61 | 20 05 | *19 51 | 18 82 |
| Bavda | 11 75 | 4 03 | 15 78 | †16 82 | †16 82 |
| Total | 108 96 | 33 03 | 141 99 | ... | 158 86 |
| Average | 13 62 | 4 13 | 17 75 | ... | 19 86 |
| Virwadi | 11 55 | 3 14 | 14 69 | 19 20 | 18 40 |
| Indapur | 12 15 | 4 54 | 16 69 | 22 51 | 18 00 |

* 8 years. † 3 years.

6. The first flood in the Nira river occurred on the 15th July, and water was not drawn off from Bhatghar reservoir until the 10th November 1894. Water was stored successfully to a level of 3 feet above weir crest, giving a storage of 4,300 millions of cubic feet, and proved largely in excess of requirements.

7. The monthly average discharge at head of the canal is given below.

The first column shows the average struck on the number of days the canal was actually open, and the figures correspond with those reported in the monthly statements of irrigation, while the second column gives the mean average discharge for the month ascertained by dividing the total quantity of water by the full number of days in the month :—

| Months. | Average actual discharge taken on number of days. | Mean discharge taken on full number of days in month. |
|------------------------|---|---|
| April | 162 | 162 |
| May... .. | 184 | 142 |
| June | 181 | 151 |
| July | 246 | 199 |
| August | 308 | 248 |
| September | 245 | 225 |
| October | 257 | 223 |
| November | 247 | 247 |
| December | 393 | 380 |
| | | |
| January | 250 | 228 |
| February | 216 | 147 |
| March | 186 | 186 |
| Monthly average | 239 | 211 |

8. The working expenses, including direct and indirect charges, amounted to Rs. 53,588.

Working Expenses. With 96 miles of main canal in operation, this gives a rate of Rs. 558.21 per mile, and it includes the maintenance of 132 miles of distributaries. The cost of maintenance per acre irrigated was less than last year, the rate being Rs. 1.89 against Rs. 2.53 and Rs. 3.22 of the two previous years. The working expenses included a sum of Rs. 1,770 for special repairs, which consisted in strengthening the banks by puddled-earth cores in places where they were found to be unsafe or leaky, due to the nature of the soil of which they were originally made. This charge will appear again next year and perhaps in the year following, and by that time all these leaky places will have been made perfectly sound.

9. The gross revenue from all sources amounted to Rs. 92,709, consisting of Rs. 90,864 for water rates assessed on the total irrigated area of 28,370 acres and Rs. 1,845 from other sources. The rate of assessment thus works out at Rs. 3.20 per acre against Rs. 3.42 of the previous year.

Gross Revenue. Deducting Rs. 53,588 for working expenses, and Rs. 33 for remissions sanctioned during the year, from the gross revenue Rs. 92,709, the net revenue was Rs. 39,088 or Rs. 16,014 more than that of the previous year.

10. The expenditure on plantations was Rs. 1,232, and receipts amounted to Rs. 548. The trees were not counted during the year.

11. The cost of measuring the irrigated area was Rs. 1,844 giving a rate of 1 anna per acre against 1 anna and 4 pies in the previous year.

12. The figures in Statement I—E, showing the duty of water during the kharif and rabi seasons, show merely the average of all sorts of crops actually irrigated per cubic foot of discharge at the head of the canal for the two seasons, but give no guide to the actual quantity of water required for any given acreage of a certain class of crops.

(1)—NIRA CANAL.

The duty of the whole discharge at head of canal was taken for certain periods in the rabi and kharif seasons, the results of which are as follows :—

| Period taken. | Average discharge of head, less waste. | Actual area irrigated. | Crops irrigated. | Duty. |
|--|--|------------------------|--|-------|
| 10th December 1894 to 10th January 1895. | 323 cubic feet per second. | 17,383 | Rabi, perennial, 8 months kharif, 4 months kharif. | 54 |
| 1st to 28th February 1895. | 147 | 5,538 | Perennial, 8 months kharif. | 38 |

During these periods the area under irrigation was very carefully recorded and the results arrived at may be depended on.

The supply in the second period was practically for perennial crops, chiefly sugarcane. The low duty is due to some of the sugarcane being situated at a great distance from the head, the loss by leakage in the canal being very great. As long, however, as the supply is in excess of the demand, there is no object in checking the perennial irrigation in the lower reaches of the canal. Every endeavour will be made to develop this class of irrigation as close to the head as possible and so increase the duty of water.

13. During the year special experiments to ascertain the quantity of water consumed by sugarcane crops were carefully carried out, a crop conveniently situated near the head of a small distributary being chosen for the purpose. Two days before water was required for the crop, the cultivators gave notice to the sub-divisional officer, who then arranged to be present during the time of watering. The supervisor was present at three-fourths of the total number of waterings, and the remainder were watched by an intelligent Inspector. At each watering the total quantity of water used was accurately gauged by means of a carefully constructed triangular notch at the field head, the supply being kept constant by means of the head sluice of the distributary. No other crops were allowed to take water during the time the one under experiment was being watered. Similar arrangements were made on other distributaries. The results of these experiments are tabulated below.

| Area under command. | Number of waterings. | Total quality of water given. | Average watering. | Period of irrigation. | Duty per cubic foot at field. | Outturn. |
|---------------------|----------------------|-------------------------------|-------------------|-----------------------|-------------------------------|----------|
| A. g. | | Cubic feet. | | Days. | Acres. | Lbs. |
| 1 18 | 24 | 270,216 | 11,259 | 314 | 145 | 11,280 |
| 1 0 | 34 | 214,835 | 6,319 | 340 | 137 | 5,850 |

The outturn of both the crops was abnormally low.

Experiments of this nature will be repeated.

14. The duty of water passing down five principal distributaries was obtained during the rabi season by daily gaugings. The period of observation was from 15th October to 28th February and the results are here given.

| Number of distributaries. | Quantity of water passed between 15th October 1894 to 28th February 1895. | Area irrigated. | Duty of water for a base of 136 days. | DETAILS OF CROPS WATERED. | | | | No. of days open. |
|---------------------------|---|-----------------|---------------------------------------|---------------------------|---------------|--------|--------|-------------------|
| | | | | Perennial. | Eight months. | Rabi. | Total. | |
| | Cubic feet. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | |
| Distributaries No. 8 | 21,593,916 | 417 | 227 | 190 | 4 | 223 | 417 | 77 |
| " No. 13 | 11,039,868 | 316 | 336 | 59 | 2 | 255 | 316 | 62 |
| " No. 16 | 17,380,807 | 388 | 262 | 42 | 14 | 332 | 388 | 77 |
| " No. 54 | 39,542,400 | 784 | 235 | 96 | 120 | 568 | 784 | 70 |
| " No. 57 | 65,152,800 | 979 | 135 | 116 | 117 | 716 | 979 | 12 |

15. The total area under command was 183,862 acres, and of this 6·7 per cent. was irrigated during the kharif season and 8·7 per cent. during the rabi season.

16. The most noticeable feature of the year was the large area of rabi irrigation, the cause being plentiful rain favourable for sowing operations and scarcity afterwards. The eight and four months' kharif was rather less than in the previous year, and the perennial irrigation, which promised to increase so largely, received a severe check, owing to the poor outturn obtained and to the low market rate for molasses. There were various reasons for this; in several cases unsuitable soil irrigated for the first time kept the cane stunted, and in others the cultivators were new to the sort of irrigation required. The groundnut area, as anticipated, was less than last year, being altogether 1,568 acres.

During the year the depth of water admitted into the canal was 7 feet, and the banks stood well, except in the weak and leaky places near Limbodi and Kurra, which are now being well strengthened by means of the puddle hearting, extending from full supply level down to firm soil. An improvement in this puddle has also been made by means of an addition of $\frac{1}{3}$ rd part of fine sand, which seems to prevent cracking when the canal is dry.

Several portions of roads available for the transport of produce, but which had been damaged by canal leakage, were put in good order, and by degrees others will be taken in hand.

(2).—MHASVAD TANK.

The rainfall for the year under report was 15·71 inches (kharif 11·29 and rabi 4·42), against 17·30 inches of the previous year (kharif 11·28 and rabi 6·02), and was seasonable.

2. The lowest level reached by the water was R. L. 1919·70 on the 2nd June, and then the tank commenced to fill. On the 2nd October water began to flow through the cut, which had been made in the waste weir to prevent danger of slips in the dam, and the R. L. of which was 1931·64, and continued flowing until the 28th November.

3. The area irrigated during the year was 4,226 acres (of which 1,207 were kharif and 3,019 were rabi crops), against 5,283 acres of the previous year (kharif 3,907 and rabi 1,376). The area applied for was 3,533 acres (kharif 1,037 and rabi 2,496 acres), or 693 acres less than that actually measured. The difference is about 20 per cent., and is due to the cultivators being ignorant of the areas of their fields.

4. There was no increase in water-rates during the year. The assessment on account of water-rates amounted to Rs. 13,869, against Rs. 21,492 of the previous year. The gross revenue from all sources was Rs. 16,134, against Rs. 22,490 of the last year.

5. The figures for the previous years, since the opening of the canals, are given in the following statement:—

| Years. | Kharif. | Rabi. | Total. | Water rate assessment. | Gross Revenue from all sources. | Working expenses. |
|---------|---------|--------|--------|------------------------|---------------------------------|-------------------|
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| 1886-87 | 617 | 727 | 1,344 | 1,030 | 1,825 | 11,812 |
| 1887-88 | 1,717 | 2,144 | 3,861 | 5,897 | 6,883 | 15,618 |
| 1888-89 | 2,965 | 3,139 | 6,104 | 12,733 | 12,875 | 13,269 |
| 1889-90 | 4,074 | 2,718 | 6,792 | 14,969 | 16,327 | 12,285 |
| 1890-91 | 4,081 | 3,025 | 7,106 | 13,541 | 14,241 | 12,729 |
| 1891-92 | 3,544 | 4,760 | 8,304 | 25,457 | 26,104 | 12,633 |
| 1892-93 | 3,561 | 1,438 | 4,997 | 19,997 | 20,613 | 15,121 |
| 1893-94 | 3,907 | 1,376 | 5,283 | 21,492 | 22,490 | 22,060 |
| 1894-95 | 1,207 | 3,019 | 4,226 | 13,869 | 16,134 | 28,460 |

There was a decrease of 2,700 acres in kharif and increase of 1,613 acres in rabi during 1894-95, as compared with the previous year. The decrease in kharif was due to the lowering of the water-level in the tank, by opening a portion of the waste weir in order to facilitate the remaking of the river portion of the dam, which work was in progress in the monsoon of 1894. The increase in the rabi area was the result of unfavourable rainfall. The incidence of water-rate per acre was Rs. 3.28, against Rs. 4.07 of the previous year.

6. The rainfall over 480 square miles of catchment area of the tank was gauged at five stations. The average rainfall from 1st

Tank supply. June to 31st October 1894 was 18.36 inches, which gave 20,474 millions cubic feet of water on the catchment area. The run-off is calculated to have been 0.098 of the rainfall from 1st June to 31st October 1894, and 0.103 of the rainfall from 1st June to 2nd October, on which date the waste weir began to overflow. The supply in the tank at R. L. 1931.64 (cut in waste weir), or 15.94 feet above the sill of the canal sluice was sufficient for the irrigation of about 5,000 acres up to 31st March 1895, without calculating on further rain.

7. The working expenses, including direct charges, amounted to Rs. 28,460. Working expenses. The expenditure on maintenance and repairs amounted to Rs. 5,892. The length of canals, branches and distributaries being 94 miles, this represents a charge of Rs. 62.68 per mile against Rs. 80 of the previous year.

Measuring charges. 8. The area irrigated was measured at a cost of Rs. 610, or Re. 0.2-3 per acre against Re. 0.3-10 of the previous year.

Duty of water. 9. Special experiments to determine the duty of water per acre of different crops were made, and the result was as under :—

| Number of Plot. | Name of Crop. | Quantity of water required for one Acre to mature the crop. |
|-----------------|------------------|---|
| | | C. feet. |
| 1 | Sugarcane | 282,426.07 |
| 2 | Wheat Jôd | 40,411.86 |
| 3 | Wheat | 47,422.36 |
| 4 | Barley | 36,522.00 |

Plantations. 10. At the end of the year, the numbers of trees above and below 5 feet in height on this work were :—

| | Above 5 feet. | Below 5 feet. |
|----------------------|---------------|---------------|
| Bábul | 9,545 | 9,079 |
| Nimb | 3,046 | 1,174 |
| Mango | 419 | 366 |
| Tamarind | 14 | 17 |
| Chandan | 4 | 12 |
| Nimboni | ... | ... |
| Bori | 497 | 478 |
| Guava | 24 | 12 |
| Miscellaneous | 2,146 | 737 |
| | 15,695 | 11,875 |
| Total | 27,570 | |

There was no expenditure on plantations, except for renewing aloe fencing in places, which cost Rs. 28. The ground along the channels being chiefly muram, the plantations are not generally in a flourishing state.

11. The evaporation could not be ascertained, as the water in the tank was allowed to pass through the cut in waste weir and canal to ensure the safety of the dam.

12. The particulars in regard to the leaks that occurred in the dam, and the steps taken to prevent the dam being carried away, were given in the Revenue Report of last year. General remarks. The work of remaking the affected portion of the dam with better material and constructing two drains from centre of the dam to rear slope, in order to prevent accumulation of water, was completed in March 1895. The cut in the waste weir, 6 feet in depth, is to be raised by 2 feet every year, and the work is in progress.

PRODUCTIVE PUBLIC WORKS.

(5).—HA'THMATI CANAL.

The rainfall during the year under report was 50·74 inches in the kharif and 0·21 inches in the rabi season, against 48·94 and 2·05 inches, respectively, during the previous year. The average of the last five years was as follows:—

| | | | | | |
|------------|-----|-----|-----|-----|------|
| Kharif ... | ... | ... | ... | In. | cts. |
| Rabi ... | ... | ... | ... | 33 | 20 |
| | | | | 0 | 62 |

2. The areas irrigated are contrasted in the table below with those of 1893-94:—

| | | | | | |
|---------|-----|-----|---------|--------|--------|
| | | | Kharif. | Rabi. | Total. |
| | | | Acres. | Acres. | Acres. |
| 1893-94 | ... | ... | 1,259 | 2,442 | 3,701 |
| 1894-95 | ... | ... | 1,797 | 2,402 | 4,199 |

3. The assessments were as follows:—

| | | | | | |
|---------|-----|-----|---------|-------|--------|
| | | | Kharif. | Rabi. | Total. |
| | | | Rs. | Rs. | Rs. |
| 1893-94 | ... | ... | 4,069 | 5,019 | 9,088 |
| 1894-95 | ... | ... | 5,637 | 4,900 | 10,537 |

4. Although the rainfall was nearly the same as in the previous year, the total area irrigated exceeded that of the previous year by about 500 acres. The increase is wholly under kharif, and seems to bear out the remark made in last year's report that it is not the rainfall alone, but also the growing appreciation on the part of the cultivators of a regular and steady supply of water, to which the improved results are due. There was a sufficient supply available in the canal and there was no difficulty in complying fully with the demands of the cultivators.

5. The following table shows the rainfall, areas irrigated, and assessments from 1888-89 to 1894-95:—

| Years. | RAINFALL. | | AREA. | | | ASSESSMENT. | | |
|----------------|-----------|---------|---------|--------|--------|-------------|-------|--------|
| | Kharif. | Rabi. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Inches. | Inches. | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| 1888-89 | 13·00 | 2·17 | 1,010 | 1,467 | 2,467 | 3,200 | 2,018 | 5,218 |
| 1889-90 | 27·89 | 0·17 | 909 | 1,441 | 2,350 | 2,809 | 2,854 | 5,663 |
| 1890-91 | 22·11 | 0·56 | 1,266 | 2,500 | 3,766 | 3,727 | 4,947 | 8,674 |
| 1891-92 | 22·46 | 0·22 | 1,367 | 1,349 | 2,716 | 4,074 | 2,641 | 6,715 |
| 1892-93 | 44·60 | 0·10 | 357 | 2,341 | 2,728 | 1,126 | 4,698 | 5,824 |
| 1893-94 | 48·94 | 2·05 | 1,259 | 2,442 | 3,701 | 4,069 | 5,019 | 9,088 |
| 1894-95 | 50·70 | 0·21 | 1,797 | 2,402 | 4,199 | 5,637 | 4,900 | 10,537 |

(6).—LOWER PÁNJHRA RIVER WORKS.

Remissions.

6. Of the total of Rs. 120 shown in the accounts as remissions, Rs. 85 were on account of free grants.

7. The areas applied for and irrigated were as under:—

| | | Kharif. | Rabi. | Total. |
|-------------|-----|---------|-------|--------|
| Applied for | ... | 1,512 | 1,820 | 3,332 |
| Irrigated | ... | 1,797 | 2,402 | 4,199 |

The difference is due to the inability of cultivators to estimate correctly what areas they will irrigate, and also to the fact that lands within 200 yards of the canal and benefited by percolation are assessed, no application for water being, from the nature of the case, necessary for them.

8. The miscellaneous revenue realized during the year amounted to Rs. 1,196 against Rs. 1,169 in the previous year.

9. The areas irrigated were measured by the ordinary establishment employed on the canal (charged to Revenue establishment) at a total cost of Rs. 141, or 6 pies per acre irrigated, against 7 pies per acre during the previous year.

10. The average water rate per acre irrigated during the year was Rs. 2.50, as compared with Rs. 2.46 during the previous year.

11. The working expenses of the year, as compared with those of the previous year, were as follows:—

| Years. | | Extensions and Improvements. | Maintenance and Repairs. | Establishment including indirect charges. | Tools and Plant. | Total. |
|---------|-----|------------------------------|--------------------------|---|------------------|--------|
| | | | Rs. | Rs. | Rs. | Rs. |
| 1893-94 | ... | ... | 4,269 | 1,743 | 13 | 6,025 |
| 1894-95 | ... | ... | 4,331 | 1,750 | 6 | 6,087 |

The rate per acre irrigated was Rs. 1.45 for the year under report against Rs. 1.63 in the previous year, which shows a decrease of nearly 18 per cent. There would have been a slight reduction in the working expenses but for some special repairs which were executed at a cost of Rs. 144. The average amount spent on silt clearance from the commencement, including the year under report, was Rs. 576, or Rs. 11.3 per mile on a length of canal and distributaries of 51 miles.

12. No reliable data can be given regarding the duty of water. The canal has been gauged for a series of years, and the results show that about 50 per cent. of the water is lost by absorption and evaporation in the first ten miles, where there is practically no irrigation. The average discharge gauged at the head during the kharif season was 62 cubic feet per second. Out of this only about 31 cubic feet per second reached the first distributary. Assuming the quantity consumed during the kharif season to have been 30 cubic feet per second, the duty was 58 acres per cubic foot of discharge against 36 acres in the previous year. This was due to increased irrigation. In the rabi season the average discharge at the head for the year was about 62 cubic feet per second, the area irrigated being 2,402 acres. Allowing the same percentage for loss by absorption, the result is 77 acres per cubic foot as against 65 acres for the previous year.

13. Sugarcane cultivation is increasing near Parántij. The area under this crop during 1893-94 was 17 acres, and during the year under-report 33 acres.

(6).—LOWER PA'NJHRA RIVER WORKS.

These works have been in operation for the past 23 years.

Gross and irrigable area.

2. The gross area under command is 13,117 acres, of which the irrigable area at present is 12,627 acres.

3. The source of supply of water to the irrigation is principally the Pánjhra river. If the natural supply of the river falls short of requirements, it is supplemented by the Mukti tank storage. During the year under report the river supply was deficient in the hot season. The tank supply was therefore let out for 50 days from 18th April to 6th June 1894. In the monsoon and cold weather succeeding it, the river supply was sufficient.

4. The available storage in the tank at the commencement of the year was 227·56 million cubic feet, which, after delivering water for irrigation for 50 days by a daily discharge varying from 25·20 to 4·59 cubic feet per second, went down to 132·94 million cubic feet before the tank had its first replenishment on the 8th June. The highest level reached by the water was on the 27th October when the quantity of water impounded was 309·94 million cubic feet, or 32·46 million cubic feet short of the full contents of the tank, *viz* 342·4 million cubic feet. At the close of the year the storage in the tank was 237·56 million cubic feet.

5. The area irrigated during the year amounted to 2,790 acres, of which 1,762 acres were in the land classed as *mámul bágáyat* and 1,028 acres in the dry-crop land under the survey settlement.

6. The *mámul bágáyat* irrigation is detailed in the following table by villages and by seasons :—

| Number | Villages. | Area under settlement. | AREA IRRIGATED. 1894-95. | | |
|--------|-----------------|------------------------|-----------------------------|-------|--------|
| | | | Kharif. | Rabi. | Total. |
| | | | | | Rs. |
| 1 | Dhulia | 311 | 209 | 102 | 311 |
| 2 | Nimkhedi | 151 | 124 | 25 | 149 |
| 3 | Japi | 147 | 129 | 18 | 147 |
| 4 | Nahálod | 279 | 186 | 93 | 279 |
| 5 | Kaothal... .. | 167 | 95 | 72 | 167 |
| 6 | Mándal | 238 | 145 | 93 | 238 |
| 7 | Mudhi | 124 | 96 | 28 | 124 |
| 8 | Betávad | 347 | 245 | 102 | 347 |
| | Total ... | 1,764 | 1,229 | 533 | 1,762 |

This is the same as was irrigated last year. Two acres were lying fallow at Nimkhedi.

7. The first five villages in the above table are in Dhulia Táluka, where the revision settlement has not yet been declared. The areas are according to the old settlement. Four of these pay the enhanced water-rate to the Irrigation Department for the benefit of the ensured water-supply from the Mukti Tank constructed after the settlement. The fifth is a Jágghir village. The question of the operations of the revision survey at the 6th and 7th villages, in the table in paragraph 6, still remains unsettled. At Betávad, the last village in the table above referred to, water-rates on *káyam bágáyat* land are directly credited to the Irrigation Department, as well as the irrigation share of consolidated revenue on the thal land.

10. The following table shows the irrigation of dry-crop land in the villages under command:—

| Number. | Villages. | Kharif. | | Rabi. | | Total. | |
|---------|------------------|---------|-------|-------|-------|--------|-------|
| | | 1893. | 1894. | 1893. | 1894. | 1893. | 1894. |
| | | | | | | Rs. | Rs. |
| 1 | Mahindle | 7 | 6 | ... | ... | 7 | 6 |
| 2 | Dhulia | 9 | 6 | 2 | 3 | 11 | 9 |
| 3 | Kimdana | 1 | ... | ... | ... | 1 | ... |
| 4 | Nimkhedi | ... | 2 | ... | 1 | ... | 3 |
| 5 | Japi | ... | 3 | 7 | 5 | 7 | 8 |
| 6 | Nahálod | 14 | 30 | 119 | 61 | 133 | 91 |
| 7 | Kaotbal | ... | ... | 4 | 4 | 4 | 4 |
| 8 | Mohadi | 42 | 76 | 255 | 194 | 297 | 270 |
| 9 | Mandal | 45 | 49 | 96 | 73 | 141 | 122 |
| 10 | Mudhi | 86 | 88 | 75 | 55 | 161 | 143 |
| 11 | Bodarda | 32 | 13 | 32 | 37 | 64 | 50 |
| 12 | Walkheda | 154 | 118 | 135 | 128 | 289 | 246 |
| 13 | War | 3 | 2 | ... | ... | 3 | 2 |
| 14 | Betávad | 71 | 70 | 39 | 4 | 110 | 74 |
| 15 | Padleavad | 7 | ... | 3 | ... | 10 | ... |
| | Total ... | 471 | 463 | 767 | 565 | 1,238 | 1,028 |

This irrigation is assessed under the crop rates sanctioned from time to time. The present scale of rates will be found in Statement I--F. The areas under this irrigation fluctuate according to the nature of the rainfall, and the inclination and means of the irrigators. During the year under report there was a decrease of 17 per cent. in the areas irrigated, as compared with the previous year with only 1 per cent. of increase in the rainfall. The monsoon dry-crop and the eight months' crops have decreased in the year. Similarly the rabi area has also decreased on account of timely rainfall: a little more than half of the previous year's wheat areas required water.

11. The total rainfall during the year was 18.62 inches, gauged at the dam site, against 18.48 inches of the previous year, and 22.83 inches the average of 21 years. The year's rainfall by seasons was as under in comparison with the fall of the previous year:—

| Year. | Kharif. | Rabi. | Total. |
|----------------|------------|------------|------------|
| | In. cents. | In. cents. | In. cents. |
| 1894-95 | 16 82 | 1 65 | 18 47 |
| 1893-94 | 14 68 | 3 55 | 18 23 |

On the whole there was nearly 1 per cent. increase, which was in the kharif season, and consequently the eight months' and monsoon areas have decreased. The rabi rain of the year was only $\frac{1}{3}$ of the rabi rain of previous year, but it fell in October and made the wheat crop independent of the canal water.

12. The following is a classification of the areas irrigated in dry-crop land during the year, according to the rates levied:—

Classification of area irrigated.

| | Kharif. | | Rabi. | | Total. | |
|-----------------------|--------------------|-------|-------|-------|--------|-------|
| | 1894. | 1893. | 1894. | 1893. | 1894. | 1893. |
| | 1 Perennial | 201 | 163 | 10 | ... | 211 | 163 |
| 2 Eight months | 234 | 273 | 3 | ... | 237 | 273 |
| 3 Four do. | 1 | ... | 552 | 767 | 553 | 767 |
| 4 Monsoon | 17 | 23 | ... | ... | 17 | 23 |
| 5 Hot weather | 10 | 12 | ... | ... | 10 | 12 |
| Total | 463 | 471 | 565 | 767 | 1,028 | 1,238 |

Only 290 acres of wheat were irrigated against 522 acres of previous year.

13. The year's assessments amounted to Rs. 17,759 as under:—

| | Rs. |
|--|--------|
| On old irrigation or káyam bágáyat land | 13,036 |
| On new irrigation or dry-crop land | 4,193 |
| Miscellaneous | 530 |
| Total | 17,759 |

against Rs. 17,847 of the previous year. The small decrease of Rs. 88 was due to falling off in the dry-crop land irrigation.

14. The average rates per acre, were:—

| | Rs. | a. | p. |
|-----------------------|-----|----|----|
| Old irrigation | 7 | 6 | 5 |
| New irrigation | 4 | 1 | 3 |

The new irrigation has paid more than last year owing to the increase in the high-rated perennial crops.

15. The remissions during the year amounted to Rs. 104, on account of the penal rate levied upon the káyam bágáyat land in the villages of Mudhi and Mandal, which was degraded to jiráyat. The irrigators had no knowledge of the degradation and the penal rates charged were remitted.

16. The realizations amounted to:—

| | Rs. |
|---|--------|
| Water-rates on old irrigation | 6,248 |
| Irrigation share of land revenue | 6,788 |
| Total | 13,036 |
| Water-rates and new irrigation | 4,872 |
| Total water-rates | 17,908 |
| Revenue from other sources | 530 |
| Total | 18,438 |

17. There were no outstandings of revenue.

18. The following table contains a comparison of the areas for which applications for water were received and the areas actually assessed:—

| | Kharif. | Rabi. | Total. |
|--------------------|---------|--------|--------|
| | Acres. | Acres. | Acres. |
| Applied for | 417 | 478 | 895 |
| Assessed | 463 | 565 | 1,028 |
| Difference | 46 | 87 | 133 |

(6).—LOWER PÁNJHRA RIVER WORKS.

The difference is due mostly to the jirayat portions of káyam bágáyat lands in Mudhi and Mandal, which are watered without applications. The cause of this has been explained in previous reports.

19. The cost of measurement of crops irrigated in dry-crop land during the year was Rs. 41-12-8 against Rs. 55-6-3 of the previous year, and the rate per acre 8 pies against 9 pies.

20. The working expenses of the year, including refunds of revenue Rs. 1,883, amounted to Rs. 8,569 against Rs. 4,952 last year. The increase was due to the charge for construction establishment now apportioned equally on all revenue works in the district in proportion to the outlay on works and repairs on each, and a large refund of revenue which was assessed at penal rate on the irrigation at Mudhi and Mandal referred to in para. 15 above. The establishment charges have increased on this work but there has been a corresponding decrease on the second class Revenue works, the charge on which used to be heavy under the old method of apportionment. The minimum establishment is maintained, and there is no margin for reduction.

21. Special experiments were made during the year to find out the duty of water in the rabi season. A record was kept of the water actually given to wheat and pea crops in the village of Nahálad. The results are given below :—

| Village. | Survey Number. | Crops irrigated. | Area irrigated. | Number of watering given. | Total quantity of water given. | Total quantity of water used per Acre. | Duty of water in acres per cubic ft. per second of discharge running during the rabi season of 4 months (123 days). | Remarks. |
|---------------|----------------|------------------|-----------------|---------------------------|--------------------------------|--|---|--------------------------------------|
| | | | A. g. | | | | | |
| Nahálad ... { | 170 | Pea. | 0 12 | 2 | 10,692 | 35,640 | 298 | Owing to rain one watering sufficed. |
| | 132 | Wheat. | 0 37 | 1 | 16,092 | 17,397 | 611 | |

22. The following figures represent the calculated loss by evaporation and absorption from the Mukti Tank, after making deduction for leakage gauged below the dam :—

| | | |
|---|-----|------------|
| Kharif Season— | | |
| April to June 1894—66 days | ... | 1.44 Feet. |
| Rabi Season— | | |
| October 1894—19 days | ... | 0.127 " |
| November—December 1894 and January 1895—92 days | ... | 1.07 " |
| Hot Season— | | |
| February and March 1895—50 days | ... | 1.22 " |
| Total | | 3.74 Feet. |
| Average daily loss during the year | | 0.0159 " |

23. The number of trees on this work at the end of the year was 4,126.

290 full-grown bábul trees and 4 tamarind trees were sold by auction, and 13 plants of sorts destroyed by white ants.

The expenditure on plantation during the year was Rs. 229, which raises the total expenditure to end of the year to Rs. 7,039.

(7).—KADVA RIVER SYSTEM.

The Wághad Tank has been for the last ten years in partial operation. As the waste weir has not been constructed as yet, the full supply level of the water rises from 15 to 18 feet short of the designed full supply level. At the close of the monsoon a temporary bank is thrown across the waste weir channel, and from 5 to 8 feet additional storage above the level of waste weir can be obtained from the rain which usually falls in October.

2. From April 1st to June 1st, 1894, a period of 61 days, the tank was continuously drawn upon to feed the canals. The expenditure of water from the tank was 81.18 millions cubic feet. The flow in the river was 4.60 millions cubic feet. Thus during this period 86 millions cubic feet were used in watering 442 acres (*vide* Irrigation Operations Statement). The duty calculated on these data is 27 acres per cubic foot per second.

3. Of the 86 millions cubic feet, only 72 millions cubic feet passed into the canal, showing a loss of 14 millions or 16 per cent. in 14 miles, *i.e.* 2.66 cubic feet per second, or 0.19 cubic feet. per second per mile.

4. In the canal itself, experiments made in March showed that 41 per cent. was lost by evaporation and percolation. Deducting the loss by evaporation and percolation and 15.61 millions cubic ft. for tail discharge from the Ojhar Támbat Distributary to the Ojhar Támbat Canal, we have 26.87 millions cubic feet actually irrigating 359 acres on the Páلكhed Canal. The duty thus arrived at is 70 acres per cubic foot per second.

5. At the head of the Wadáli Canal the quantity of water derived from springs between the Páلكhed and Wadáli weirs was 24.31 millions cubic feet. Deducting 36 per cent. for loss by evaporation and percolation, or 8.75 millions cubic feet, the remainder, 15.56 millions cubic feet, is the quantity of water utilized on 60 acres (of which 41 acres is the *thal* irrigation); the duty therefore is 20 acres per cubic foot per second. This result is not so good as on the Páلكhed Canal.

6. In the Ojhar Támbat Canal the quantity at the head was 16.07 millions cubic feet; deducting 29 per cent. for loss by evaporation and percolation, or 4.66 millions cubic feet, the remainder, 11.41 millions cubic feet, is the quantity used on 83 acres, which gives a duty of 38 acres per cubic foot per second.

7. The tail flow of the Páلكhed Canal was all utilized and no water was allowed to run to waste. The above consideration shows that water was economically used and, as there are no complaints of insufficiency, the management may be regarded as good. The balance of water left in the tank on 13th June, when the sluices were closed, was 65.82 millions cubic feet, or sufficient for irrigating 433 acres of sugarcane on the Páلكhed Canal.

8. There was no replenishment to the tank during the hot weather. On the 4th July, after 10.19 inches of rain had fallen at Wághad from the beginning of the monsoon, the tank began to overflow, and the waste weir water continued to run until the 6th of October, when the temporary bank was begun. The water begins to flow in the waste weir channel at R. L. 110.00, at which level the storage is 197.64 millions cubic feet. The temporary dam brought the water level to R. L. 113.13, giving a storage, at the beginning of the new season, of 247.34 millions cubic feet.

9. By February 21st, 1895, the natural supply had fallen so low that it was necessary to supplement it from the tank, the discharge from which was at first 5 cubic feet per second, increased to 14 cubic feet per second from the 25th of March.

10. The duty for the rabi season is worked out for the Páلكhed Canal as follows:—

(7).—KADVA RIVER SYSTEM.

| | | | Millions cft. |
|---|-----|-----|---------------|
| From October 15th to February 28th supplied by the river... | | | 198.51 |
| do. | do. | do. | tank... 3.00 |
| Total supply ... | | | 201.51 |

11. The quantity of water flowing at the head of the Pálkhed Canal amounted to 215 millions cubic feet, and that received from the river, including Wághad Tank discharge, was 202 millions cubic feet. The difference of 13 millions cubic feet may be due to springs or flow through the sand at the river gauging site.

12. From 215 millions cubic feet, deducting 40 per cent. or 86 millions cubic feet for loss by evaporation and percolation, and 30.40 millions cubic feet, as the tail discharge of Ojhar Támbat distributary let into Ojhar Támbat Canal, the net quantity of water utilized was 98.60 millions cubic feet, irrigating 1,587 acres, of which 285 acres were under perennial crops.

The duty for the rabi season (including the watering of hot weather crops) works out therefore to 189 acres per cubic feet per second.

Taking the perennial duty at 70 acres, arrived at for the hot weather, the duty for rabi crops alone, excluding perennial crops, works out to 228 acres.

13. On the Ojhar Támbat Canal the quantity by the

| | | | Millions cft. |
|------------------------|-----|-----|---------------|
| River Banganga was ... | | | 17.18 |
| Pálkhed Canal... | ... | ... | 30.40 |
| Total supply ... | | | 47.58 |

irrigating 543 acres, the duty being thus 134 acres per cubic foot per second.

14. The quantity of water flowing at the head of the Ojhar Támbat Canal amounted to 48.75 millions cubic feet. The excess of 1.17 millions cubic feet is probably due to springs.

15. From 48.75 millions cubic feet, deducting 25 per cent., or 12.19 millions cubic feet, for loss by evaporation and percolation, the quantity of water utilized was 36.56 millions cubic feet, irrigating 543 acres. The duty for the season thus arrived at is 175 acres per cubic foot per second.

16. On the Wadáli Canal the discharge at the head amounted to 65.89 millions cubic feet, during the rabi season. Deducting 33 per cent., or 21.74 millions cubic feet, for loss by evaporation and percolation, the remainder, 44.15 millions cubic feet, was used for irrigating 590 acres, including the area under perennial crops, giving a duty of 157 acres per cubic foot per second.

17. The rainfall in the tank basin was 62.61 inches against the average 52.72 inches. Over the irrigated area the total, 27.83 inches, is in excess of the average, 25.37 inches, for the last 21 years.

The distribution according to seasons was :—

| Locality of gauge. | Kharif, | Rabi, | Total, |
|--------------------|---------|---------|---------|
| | Inches. | Inches. | Inches. |
| Pálkhed ... | 20.68 | 4.70 | 25.38 |
| Niphád . | 23.83 | 6.45 | 30.28 |

The monsoon season was characterised by insufficient fall at the beginning and favourable rainfall at the end. At Pálkhed there was no rain after the 27th October.

18. During the year water applications for 2,547 acres were received and the area actually irrigated was 2,767 acres, the discrepancy being due to the approximate character of the areas as given in the water applications.

Irrigation.

19. The following table shews the area and assessment by seasons of irrigated land, exclusive of permanent bágayat:—

1894-95.

| Canals. | Areas. | | | Assessment. | | |
|---------------------------|---------|--------|--------|-------------|-------|--------|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| Pálkhed Canal | 688 | 1,163 | 1,851 | 3,914 | 3,435 | 7,349 |
| Wadáli Canal | 72 | 255 | 327 | 274 | 770 | 1,044 |
| Ojhar Támbat Canal | 222 | 367 | 589 | 1,082 | 1,030 | 2,112 |
| Total | 982 | 1,785 | 2,767 | 5,270 | 5,235 | 10,505 |

20. The following table shews the average of the previous four years:—

| Canals. | Areas. | | | Assessment. | | |
|---------------------------|---------|--------|--------|-------------|-------|--------|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| Pálkhed Canal | 713 | 1,316 | 2,029 | 3,725 | 3,396 | 7,121 |
| Wadáli Canal | 139 | 228 | 367 | 574 | 593 | 1,167 |
| Ojhar Támbat Canal | 122 | 244 | 366 | 621 | 637 | 1,258 |
| Total | 974 | 1,788 | 2,762 | 4,920 | 4,626 | 9,546 |

The areas being nearly the same, the increase in assessment, due to increase in crops assessed at higher rates, is satisfactory.

21. The following table shews the areas of principal crops for the year under review, compared with the average of the preceding five years:—

Principal crops irrigated.

| Name of crops. | For the year 1894-95. | Average of five preceding years. | Increase. | Decrease. |
|-------------------|-----------------------|----------------------------------|-----------|-----------|
| | Acres. | Acres. | Acres. | Acres. |
| Wheat | 723 | 926 | ... | 203 |
| Groundnuts | 846 | 774 | 72 | ... |
| Gram | 118 | 176 | ... | 58 |
| Sugarcane | 352 | 258 | 94 | ... |

22. The total area irrigated shows a decrease of 9 per cent. as compared with that of the previous year, but is almost the same as the average of the preceding four years.

23. The most noticeable features of the year are that owing to the favourable rainfall at the beginning of the rabi season and the subsequent attack of red blight, the irrigated wheat crops on the three canals are much less than in the previous year. There was however no diminution of the wheat area cultivated. The same remark applies to gram also. The increase in sugarcane on the Pálkhed Canal is the result of an anticipated rise in the market price of coarse

sugar. The increase of 20 acres in sugarcane on the Ojhar Tāmbat Canal may be attributed partly to the same cause and partly to the development of irrigation at the tail of the canal at Sukana.

24. The measuring of crops was carried out at a cost of Rs. 291 for 2,767 acres, which gives a rate of 1 anna 8 pies per acre.

25. The duty of water in the canals has been worked out in the remarks relating to the storage tank. When calculated according to the ordinary method, it varies from 53 to 75 for the kharif season and from 72 to 80 for the rabi season.

26. Special observations were taken of the quantities of water required for irrigating two fields of groundnuts and one of methi, and the results are given in the following statement:—

Statement showing results of crop experiments during the kharif and rabi season of the year 1894-95, Pālkhed Canal.

| Canal or Distributary. | Name of crop. | Date. | Number of waterings. | Time required for irrigation in seconds. | Length of weir boards in feet. | Height of water in inches. | Area irrigated. | Total cubic feet. | Remarks. |
|---|---------------|---------------------|----------------------|--|--------------------------------|----------------------------|-----------------|-------------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | A. G. | | |
| <i>Kharif season.</i> | | | | | | | | | |
| Pālkhed Canal | Groundnut. | 26th June 1894. | 1st .. | 21,195 | 1 | 2'40 | 0 29 | 6,782'40 | The discharges have been calculated by the formula $D = \frac{214}{60} \sqrt{H^3}$ per second expressed in cubic feet. |
| Do. | Do. .. | 8th October 1894. | 2nd .. | 18,918 | 1 | 3'50 | 0 29 | 10,651'00 | |
| Do. | Do. .. | 14th November 1894. | 3rd .. | 11,507 | 1 | 5'90 | 0 29 | 14,173'00 | |
| Total cubic feet required for maturity of crop .. | .. | .... | .... | .. | .. | .. | .. | 31,606'40 | Reduced to cubic feet per acre 43,594. |
| <i>Rabi season.</i> | | | | | | | | | |
| Pālkhed Canal | Methi .. | 30th November 1894. | 1st .. | 5,315 | 1 | 1'70 | 0 7 | 1,009'85 | Do. 23,365 cubic feet. |
| Do. | Do. .. | 14th December 1894. | 2nd .. | 5,571 | 1 | 1'60 | 0 7 | 966'00 | |
| Do. | Do. .. | 30th December 1894. | 3rd .. | 5,327 | 1 | 1'25 | 0 7 | 637'00 | |
| Do. | Do. .. | 14th January 1895. | 4th .. | 5,523 | 1 | 1'25 | 0 7 | 661'00 | |
| Do. | Do. .. | 5th February 1895. | 5th .. | 5,192 | 1 | 1'50 | 0 7 | 615'00 | |
| Total cubic feet required for maturity of crop .. | .. | .... | .... | .. | .. | .... | .. | 4,038'85 | |
| <i>Rabi season.</i> | | | | | | | | | |
| Dikshi distributary .. | Groundnut. | 12th November 1895. | 1st .. | 6,237 | 2 | 1'90 | 0 19 | 2,789'02 | Do. 16,532 cubic feet. |
| Do. | Do. .. | 4th December 1894. | 2nd .. | 8,127 | 2 | 3'00 | 0 19 | 4,003'56 | |
| Total cubic feet required for maturity of crop .. | Do. .. | .... | .... | .. | .. | .. | .. | 7,852'58 | |

Of these the groundnuts on the Pālkhed Canal required three waterings and those on Dikshi distributary two waterings only, the latter being irrigated in the rabi season. The methi crop had to be watered five times. The result of these experiments showed that the quantity of water needed to bring one acre of crop to maturity was 23,365 cubic feet in the case of methi, and in the case of gram varied from 43,594 cubic feet on the Pālkhed Canal to 16,532 cubic feet on the Dikshi distributary.

27. Observations were made in September, January, and March for ascertaining the loss by evaporation and percolation. The results are:—

| Canals. | AVERAGE LOSS IN CUBIC FEET PER SECOND PER MILL. | | | PERCENTAGE OF HEAD DISCHARGE LOST. | | | REMARKS. |
|---------------------|---|-------|--------------|------------------------------------|-------|--------------|---------------------------------|
| | Kharif. | Rabi. | Hot weather. | Kharif. | Rabi. | Hot weather. | |
| Pālkhed | ·34 | ·53 | ·65 | 32 | 40 | 41 | *Experiment made in April 1895. |
| Wadāli | ·18 | ·27 | ·24 | 25 | 33 | 36* | |
| Ojhar Tāmbat | ·15 | ·20 | ·29 | 22 | 25 | 29 | |

28. The Pálkhed Canal was closed six times, and the Wadáli Canal five times for periods aggregating 27 and 21 days respectively. The Ojhar Támbat Canal was not formally closed, but the canal runs dry when water is shut off from the Pálkhed Canal.

Canal closures.

Plantations.

29. The total number of trees standing on the canals at the close of the year was 12,175. Of these the principal were as under :—

| Names of Trees. | Number of trees. |
|-----------------|------------------|
| Bábul | 9,573 |
| Mango | 912 |
| Nimb | 481 |
| Moho | 634 |

The expenditure during the year was Rs. 240 from the revenue account.

Maintenance and repairs.

30. The usual works of maintenance and repairs were carried out during the year. No important work was undertaken.

Gross revenue.

31. The total assessment and the amount realized during the year are accounted for as under :—

| | | | |
|---|---------------|-----------|----------|
| | Rs. | a. | p. |
| Assessment during the year | 10,823 | 8 | 0 |
| Unrealized rabi assessment for the year 1893-94 . | 5,062 | 13 | 0 |
| Unrealized balance from previous year was ... | 2,026 | 0 | 6 |
| Do. do. on Miscellaneous Receipts ... | 69 | 9 | 11 |
| | <u>17,981</u> | <u>15</u> | <u>5</u> |
| <i>Deduct—</i> | | | |
| Total realizations during the year | 11,292 | 8 | 5 |
| Balance unrealized | 6,689 | 7 | 0 |

The above figures include direct receipts as noted below :—

| | |
|---|------------|
| | Rs. |
| (1) Sale of Water | 3 |
| (2) Receipts from Plantation | 26 |
| (3) Do. from other Canal Produce | 243 |
| (4) Alluvial Galper land above Pálkhed weir for 1894-95... .. | 41 |
| (5) Rent of Buildings | 5 |
| | <u>318</u> |

32. The total maintenance charges on the three canals and the Wághad Tank during the year amounted to Rs. 16,534, divided as follows :—

| | |
|--|---------------|
| | Rs. |
| I. Maintenance and Repairs... .. | 3,506 |
| II. Establishment | 10,811 |
| III. Tools and Plant | 144 |
| IV. Share of Collection Charges | 551 |
| V. Indirect Charges | 1,514 |
| VI. Refund of Revenue | 8 |
| Total | <u>16,534</u> |

As compared with the previous year the increase is chiefly in establishment charges, due to balance of establishment being distributed on this head in proportion to outlay, *vide* Government Resolution No. 222 A. I.—1312, dated 17th August 1895.

The indirect charges also show an increase due to large establishment charges.

(8).—PRAVARA RIVER WORKS—LAKH CANAL.

1. The area irrigated during the year was 310 acres, of which 138 were under kharif and 172 acres under rabi crops. The total shows a decrease of 33 acres on the area of the last year. The area of kharif was 62 acres greater and the area of rabi 95 acres less than in the previous year. The increase in kharif is due partly to deficient rainfall at sowing time and partly to the increase in the area of perennial and 8 months' crops. The decrease in the rabi area is due to the favourable and heavy rainfall in October.

Comparison of area applied for and irrigated.

2. The following statement compares the area applied for and irrigated during the year :—

| Year. | KHARIF. | | RABI. | | T | | DIFFERENCE LESS IRRIGATED. | | |
|----------------|--------------|------------|--------------|------------|--------------|------------|----------------------------|--------|--------|
| | Applied for. | Irrigated. | Applied for. | Irrigated. | Applied for. | Irrigated. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. |
| 1894-95 | 230 | 138 | 251 | 172 | 481 | 310 | 92 | 79 | 171 |

The area applied for but not irrigated is 35.55 per cent. of the total area applied for. Endeavours were made to lessen the possibility of such difference by promptly returning the applications to the applicants after sanction and by requiring daily inspection reports from the canal karkuns, and it is hoped that an improvement will be apparent in the current year.

3. The water-rate assessments amounted to Rs. 1,065 against Rs. 1,078 in the previous year. The details were :—

| | | | | | |
|--------|-----|-----|-----|-----|-------|
| Kharif | ... | ... | ... | ... | 721 |
| Rabi | ... | ... | ... | ... | 344 |
| Total | ... | ... | ... | ... | 1,065 |

4. The area irrigated per mile of main canal was kharif 6.00 and rabi 7.48 acres, and of main canal and branches was kharif 4.26 acres and rabi 5.31 acres. The high cost of maintenance per acre is due to this very small duty per mile of canal.

5. The following table compares the area irrigated and the revenue derived during the past three years with those of the year under report :—

| Year. | Area irrigated. | Revenue from water-rates. | REMARKS. |
|----------------|-----------------|---------------------------|---|
| | Acres. | Rs. | Rainfall from 1st April to 31st March— Inches. |
| 1891-92 | 508 | 1,509 | 17.02 |
| 1892-93 | 158 | 532 | 32.41 |
| 1893-94 | 343 | 1,078 | 27.17 |
| 1894-95 | 310 | 1,065 | 26.71 |

6. The incidence of water-rate per acre was Rs. 3.44 against 3.14 in the previous year.

7. The capital expenditure during the year amounted to Rs. 513, and was incurred in payment of compensation for land taken up for distributaries.

8 The working expenses amounted to Rs. 13,319 as detailed below, as compared with Rs. 3,426 in the previous year :—

| | | | Rs. |
|---------------------------------|-----|-----------|---------------|
| Maintenance and repairs ... | ... | ... | 2,142 |
| Share of establishment ... | ... | ... | 9,634 |
| Tools and plant ... | ... | ... | 116 |
| Share of collection charges ... | ... | ... | 78 |
| Indirect charges ... | ... | ... | 1,349 |
| | | Total ... | <u>13,319</u> |

The rate of working expenses per mile of main canal open was Rs. 579, and per acre irrigated Rs. 42·96.

The excess was due partly to special silt clearance and partly to the fact that while in former years the balance of establishment charges after the usual shares had been debited to the works for which capital and revenue accounts are kept was debited to those for which only revenue accounts are kept; in the year under report no charge was made for establishment on works of the latter class on which there had been no expenditure, and thus the amount charged to works of the former class was largely increased.

9. The duty per cubic foot per second of water admitted into the canal was 3·98 acres in the kharif and 5·89 acres in the rabi season. That of water actually utilized was 4·26 acres in the kharif and 6·76 acres in the rabi season. This exceedingly small duty is due to the great length of canal compared with the area irrigated, the loss by leakage and evaporation per mile being nearly constant, whether the area irrigated per mile is large or small.

10. The total cost of measuring 310 acres during the year was Rs. 32, or one anna and eight pies per acre against one anna and four pies per acre in the previous year. The high cost is due to the very small areas for which water is taken by each cultivator.

11. The rainfall gauged at Malunja was 21·40 inches in the kharif and 4·24 inches in the rabi season, total 25·64 inches, or 3·86 inches more than the average of the last five years. The rainfall in January and February 1895, not included in the above figures, was 1·07 inches.

12. The supply of water in the Pravara River was sufficient to meet the requirements of the irrigators. In January 1895 a temporary earthen bund 2 feet high was constructed on the weir as usual to increase the back water during the hot weather of 1895-96.

13. The canal was closed six times (for 38 days altogether) during the year for silt and weed clearance.

14. At the end of the year the number of trees on this canal was 22,932. The numbers of principal kinds were :—

| | | | | | |
|--------------|-----|--------|------------------|-----|-----|
| Bábul ... | ... | 16,098 | Mellingtonia ... | ... | 32 |
| Nimbhara ... | ... | 49 | Divi-divi ... | ... | 18 |
| Nimb ... | ... | 1,447 | Moho ... | ... | 3 |
| Bore ... | ... | 586 | Jámbhul ... | ... | 869 |
| Sandal ... | ... | 83 | Siras ... | ... | 31 |
| Bakan ... | ... | 55 | Mango ... | ... | 635 |
| Tamarind ... | ... | 14 | Bamboo ... | ... | 198 |

Miscellaneous 2,814.

The total number in the previous year was 17,483.

(9).—MUTHA CANALS.

On the 1st April 1894 the water at Lake Fife was 17·90 feet above the sills of the canal sluices; the minimum level was reached on the 12th June, when the depth was 9·17 feet. The water began to rise on the 13th June and the lake filled to overflowing on the 18th of that month. The highest flood ever recorded occurred on 21st July 1894, when the water rose to R. L. 249·52 or 5·45 feet above finished crest level. The flood of July 1891 rose to R. L. 249·17. The highest recorded previous to 1891 was in July 1882, when the water rose to R. L. 248·87.

The standards and planks were fixed on the weir by the end of September, and water was stored to a depth of 4 feet above the finished crest of the weir.

The draw-off from the storage commenced from the 25th October, *i.e.* 10 days later than in the previous year. On the 31st March 1895 the level of the water was 21·40 feet above sills of the sluices, or 3·40 feet higher than on the same date in 1894.

Assessments of revenue.

2. The assessments amounted to Rs. 2,47,954 as detailed below :—

| | Rs. |
|---|----------|
| Water-rates | 1,39,252 |
| Sales of water | 2,530 |
| Water-supply of towns | 94,760 |
| Plantations | 88 |
| Water-power | 6,000 |
| Receipts from other canal produce | 1,353 |
| Rents of buildings | 152 |
| Miscellaneous... .. | 3,827 |
| Irrigation share of enhanced revenue from percolation from the Mutha Canals in the villages of Warza, Shiwna, and Kondvé Dhawdi, Taluka Haveli, as per Canal Return VIII. | 42 |
| | 2,47,954 |

3. The area irrigated during the year was 10,082 acres, of which 7,562 were under kharif and 2,520 under rabi crops. The total shows an increase of 1,823 acres on the area irrigated in the previous year.

The increase is chiefly due to increase in the area of monsoon dry-crops and rice, and also to deficient seasonable rainfall. An effort was made to induce the cultivators to try the cultivation of superior rice. Applications were received for nearly 500 acres, but when the time came for preparing the land and sowing, many of the cultivators held back, with the result that only 284 acres were actually irrigated. This was chiefly due to the people being doubtful about the supply. The crops that were grown exceeded all expectations both as to out-turn and quality of the grain. The value of the crops was also much greater than anticipated. The outturn was on the average 1½ khandis per acre, which for a rice crop anywhere is very fair. Arrangements have been made by the Agricultural Department for the supply of good seed, and it is hoped that the area will increase next year. The cultivation of rice during the monsoon, when the supply is only limited by the carrying capacity of the canal, will be of the greatest value. The area this year was small, but it proved that the supply was sufficient and the results generally were encouraging.

It is now intended to use the whole of the storage at Lake Fife for perennial and 8 months' crops. The only other class of irrigation will be that obtained during the monsoon. In addition to the discharge required for perennial crops during the monsoon, the canal can carry an average of 100 cubic feet per second. As this will be utilized for rice and monsoon dry-crops, it is anticipated that the duty will not exceed 100 acres to the cubic foot per second. The irrigating capacity is therefore 6,800 (for perennial and 8 months) and 10,000 acres (monsoon)=16,800 acres as entered in Statement II—A.

4. The revenue derived from water-supply of towns amounted to Rs. 94,760, showing an increase of Rs. 1,251 on that of the previous year. This is chiefly due to an increase in the supply to the Military Department.

5. The improvements to the Poona water-supply works referred to in last year's report were practically completed by the end of March. Two of the new filter beds were in working order; five new settling tanks, roofing in of the pure water tanks with the exception of a small portion, the alteration in the pumping machinery, were all completed during the year. The results of these improvements which have been carried out at a cost of Rs. 1,58,573 are in every way most satisfactory.

6. While the alterations above referred to were in progress, it was necessary to supply the greater portion of the Cantonment with water from the old north bank filter, from which it was not possible to measure the quantity supplied. No accurate figures therefore of the quantity supplied can be given. During the coming year it will be possible to give the consumption by the new works, but until the supply to the Sudder Bazaar from the existing small filter bed from which the quantity cannot be measured is abandoned, and this section connected with the new works, the total quantity consumed cannot be ascertained with sufficient accuracy to be of any value. Estimates for increasing the size of the mains to enable the whole of the Cantonment and bazaars to be supplied from the new works were prepared and submitted for sanction during the year.

7. The working expenses of the year including Rs. 2,478 for refunds of revenue amounted to Rs. 82,187, as compared with Rs. 70,615 in the previous year.

The following table shows the analysis of the charges.

| Names of Works. | Maintenance and Repairs. | Establishment. | Tools and Plant. | Refunds of Revenue. | Leave and Pension Allowances. | Share of Collection Charges. | Total. |
|--------------------|--------------------------|-----------------------|------------------|---------------------|-------------------------------|------------------------------|--------|
| 1894-95. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Mutha Canals ... | 19,930 | D. 4,136 C. 12,814 | 3,759 | 2,478 | 2,975 | 6,330 | 52,422 |
| Poona water supply | 13,806 | D. 2,172 C. 10,071 | 2,604 | ... | 1,112 | ... | 29,765 |
| Total ... | 33,736 | 29,193 | 6,363 | 2,478 | 4,087 | 6,330 | 82,187 |
| 1893-94. | | | | | | | |
| Mutha Canals ... | 19,225 | D. 3,879 C. 8,081 | 1,668 | 3,404 | 2,308 | 7,173 | 45,738 |
| Poona water supply | 11,822 | D. 2,385 C. 8,723 | 1,025 | ... | 922 | ... | 24,877 |
| Total ... | 31,047 | 23,068 | 2,693 | 3,404 | 3,230 | 7,173 | 70,615 |

On the Mutha Canals the cost as shown above represents a rate for maintenance, administration, &c. of Rs. 567.55 per mile (the total mileage in operation being 88 miles), and Rs. 4.95 per acre irrigated (the total acreage being 10,082.)

8. The excess in the working expenses as compared with the previous year due to increase in cost of maintenance of the Poona water-supply and to special repairs to the water wheel, and to pumping by steam during alterations of mains. Excluding these special items the cost of maintenance was the same as in the previous year. The chief increase is, however, in the cost of establishment and tools and plant. The establishment charges were heavier owing to decrease in the capital outlay and to the revised rule ordering 18 per cent. instead of 20, as the charge to capital. The increase in tools and plant is due to cost of new meters and component parts of meters required for the Poona water-supply.

9. Deducting the total net working expenses Rs. 79,709, plus Rs. 2,528, the amounts of remissions and refunds sanctioned during the year, from the total earnings of Rs. 2,47,954,

Net profits.

the net profits from the work amount to Rs. 1,65,717, or Rs. 2.53 per cent. on Rs. 65,56,489, the total entire capital outlay to the end of the year.

10. The areas irrigated were ascertained by actual measurements, the greater part of which were taken by measurers specially entertained for the purpose, and the remainder by an Inspector when time could be spared from his ordinary work, and from 9 to 12 per cent. of the area was checked by the Subordinate in charge. The cost of measurements amounted to Rs. 1,366 or at the rate of 2 annas and 2 pies per acre against 2 annas and 3 pies in the previous year.

11. The rainfall of the year along the canal varied considerably. The maximum was 28.66 inches at Hadapsar and the minimum 13.14 inches at Kasurdi, as under :

| | Kharif, | Rabi, | Total |
|-----------------|---------|-------|-------|
| Hadapsar | 25.05 | 3.61 | 28.66 |
| Kasurdi | 11.84 | 1.30 | 13.14 |

The characteristics of the rainfall were that the kharif and early rabi rainfall was favourable, and the late rabi on which the crops depended to bring them to maturity was scanty, resulting in an increase of the irrigation of rabi dry-crops.

12. A statement is appended giving the particulars of the water issued gratis or at reduced rates to various institutions in accordance with the orders issued by Government from time to time. From it, it will be seen that local institutions have received water during the year at Rs. 5,830 less than the normal rates.

Area actually irrigated compared with area applied for.

13. The following is the comparison of areas as applied for and those actually irrigated.

| | Area applied for. | | | Area irrigated. | | | More. | | Less. | | |
|-----------------------------|-------------------|--------|--------|-----------------|--------|--------|---------|--------|---------|--------|-----|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Kharif. | Rabi. | |
| | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | |
| Mutha Right Bank Canal ... | 7,832 | 2,622 | 10,454 | 6,658 | 2,367 | 9,025 | ... | ... | 1,174 | 255 | |
| Mutha Left Bank Canal... .. | 868 | 44 | 912 | 904 | 153 | 1,057 | 36 | 109 | ... | ... | |
| Total ... | 8,700 | 2,666 | 11,366 | 7,562 | 2,520 | 10,082 | 36 | 109 | 1,174 | 255 | |
| | | | | | | | | | Net ... | 1,138 | 148 |

In the case of the Right Bank Canal the area applied for was in excess of that actually irrigated. This is chiefly due to people applying for rice for which they were told water would be sufficient, but many of them being sceptical as to the water-supply abandoned the idea of trying the crop till they had seen the results of the undertakings of other more enterprising cultivators. On the Left Bank Canal, the excess of actuals over applications is probably due to over-estimating the areas entered in the form of application.

Remissions.

14. Remissions amounting to Rs. 49 were granted during the year on account of erroneous assessments.

15. Refunds amounting to Rs. 2,478 were sanctioned during the year, of which Rs. 1,206 were on account of the use for irrigation of the surplus water from the Nána Phadnavis' conduit together with the leakage from the Mutha Canal in the village of Vadgaon Budruk, taluka Haveli, Rs. 6 for short supply of water, and Rs. 1,266 on account of rebate given to the Indian Paper Mills Company for 77 days, for 56 days the supply having been insufficient to yield 60 horse-power and for 21 days the canal having been closed.

Refunds.

Plantations.

16. The plantations and canal fences were maintained as usual but the trees were not counted, as the establishment was fully employed on other duties.

17. Gaugings to ascertain evaporation and leakage were taken for broken periods in the months of April, May, June, and January, February and March 1895, or a total number of 156 days. During this period the loss amounted to 582,565,499 cubic feet or rather more than one-fifth of the total capacity of the lake above outlet level.

Loss by evaporation and absorption.

Duty of water.

18. The following statement shows the duty of water on the two canals for those months, during which correct figures regarding the discharge and area under irrigation were available:—

| Month. | Discharge of Canal at head, cubic feet per second. | AREA UNDER IRRIGATION, ACRES. | | | | Duty per cubic foot, per second. |
|--------|--|-------------------------------|-----------|-----------|--------|----------------------------------|
| | | Perennial. | 3 months. | 4 months. | Total. | |
| 1894 | { April 87.34 | 5,321 | 118 | 303 | 5,742 | 65.7 |
| | { May... .. 93.01 | 5,321 | 118 | 303 | 5,742 | 61.7 |
| 1895 | { January 111.91 | 5,357 | 332 | 2,107 | 7,796 | 69.6 |
| | { March 120.00 | 5,500 | 200 | 135 | 5,835 | 48.6 |
| 1894 | { April 14.62 | 678 | ... | 12 | 690 | 47.2 |
| | { May... .. 16.13 | 783 | ... | 12 | 795 | 49.2 |
| 1895 | { January 15.20 | 800 | ... | 4 | 804 | 52.8 |
| | { March 14.03 | 630 | ... | ... | 630 | 44.9 |

It will be seen that the duty in the month of March 1895 (Right Bank Canal) is considerably lower than in the months of April and May 1894, although the area under irrigation is very nearly the same. This is chiefly due to the fact that during March the newly planted sugar-cane has to be given a large supply of water.

Experiment with sugar-cane crop.

19. A careful record was kept of the quantity used for a crop of sugar-cane, by means of a gauge notch at the field. The following is a summary of results:—

Area irrigated=4.77 acres.

Quantity of water consumed=1,539,199 cubic feet.

Period of irrigation=342 days.

Number of waterings=26.

Quantity supplied=0.052 cubic feet per second.

Duty to base of 342 days=92 acres per cubic foot per second.

The quantity supplied was equivalent to a rainfall over the whole area of 89 inches.

POONA WATER-SUPPLY.

Statement showing water supplies given gratuitously or at reduced rates during 1894-95.

| To whom supplied. | Quantity supplied. | Amount paid. | Value at 6 annas per 1,000 gallons. | Difference between 4 and 3. | Remarks. |
|---|--------------------|--------------|-------------------------------------|-----------------------------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | | Rs. a. p. | Rs. a. p. | Rs. a. p. | |
| The Civil Surgeon, Sassoon Hospital... | 1,001,916 | 187 13 6 | 375 11 0 | 187 13 6 | |
| Do. do. ... | 632,670 | 118 9 9 | 237 3 6 | 118 9 9 | |
| Superintendent, Byramji Jijibhoy Medical School ... | 620,670 | 116 5 8 | 232 11 4 | 116 5 8 | |
| The Superintendent, Lunatic Asylum. Secretary, Cantonment Com-mittee :— | 715,922 | 134 3 3 | 268 6 6 | 134 3 3 | |
| Do. (New Modikhána) ... | 1,201,918 | 225 5 6 | 450 11 0 | 225 5 6 | |
| Do. (Beef Market) ... | 1,334,411 | 250 3 3 | 500 6 6 | 250 3 3 | |
| Do. (Malcolm Tank) ... | 1,336,495 | 250 9 6 | 501 3 0 | 250 9 6 | |
| Do. (Mutton Market) ... | 1,321,488 | 247 12 6 | 495 9 0 | 247 12 6 | |
| Do. (Asurkhána) ... | 1,414,910 | 265 4 9 | 530 9 6 | 265 4 9 | |
| Do. (Butler Moholla) ... | 1,425,330 | 267 4 0 | 534 8 0 | 267 4 0 | |
| Convent School ... | 375,840 | 70 7 3 | 140 14 6 | 70 7 3 | |
| Jamsetji Fountain ... | 1,201,800 | 40 0 9 | 450 10 9 | 410 10 0 | |
| Houds in Booty Street ... | 4,380,000 | ..... | 1,642 8 0 | 1,642 8 0 | |
| Bazar Reservoir ... | 1,460,000 | ..... | 547 8 0 | 547 8 0 | |
| Malcolm Tank ... | 2,920,000 | ..... | 1,095 0 0 | 1,095 0 0 | |
| | | | | 5,829 8 11 | |

(10).—EKBUK TANK.

The rainfall for the year under report was 20·18 inches (kharif 19·25 and rabi 0·93), against 24·22 inches of the previous year (kharif 15·16 and rabi 9·06), and was not seasonable for kharif crops. Owing to insufficiency of rain the tank did not fill during the year, the highest level reached being R. L. 1518·407, or 3·20 feet below the waste weir.

2. The area irrigated during the year was 3,292 acres, of which 1,830 were under kharif and 1,462 under rabi crops, against 2,889 acres of the previous year (2,247 kharif and 642 rabi). The area applied for was 2,763 (kharif 1,620 and rabi 1,143), or 529 acres less than the area actually irrigated. The cause of the discrepancy is that the cultivators are unable to estimate properly the area they propose to irrigate.

3. The assessment of water-rates amounted to Rs. 13,463, against Rs. 14,364 of the previous year. The gross revenue from all sources was Rs. 29,551 against Rs. 24,357 of the previous year. The details of revenue other than water-rate are as under :—

| | Rs. |
|---|--------|
| 1. Plantation ... | 208 |
| 2. Other canal produce ... | 8,800 |
| 3. Sale of water to— | |
| (a) Sholápur Municipality for drinking purposes ... | 4,020 |
| (b) G. I. P. Railway Company for engine ... | 1,313 |
| (c) Spinning and Weaving Mills for engine ... | 1,362 |
| (d) Distillery for engine ... | 75 |
| (e) Building purposes ... | 85 |
| 4. Miscellaneous ... | 225 |
| Total ... | 16,088 |

4. The following table compares the figures of area, assessments and working expenses with those of the previous seven years :—

| Years. | Kharif. | Rabi. | Total. | Water-rate Assessment. | Gross Revenue. | Working Expenses. |
|----------------|---------|--------|--------|------------------------|----------------|-------------------|
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| 1887-88 | 1,357 | 757 | 2,114 | 6,651 | 13,784 | 15,953 |
| 1888-89 | 1,620 | 1,356 | 2,976 | 7,652 | 15,209 | 14,666 |
| 1889-90 | 1,335 | 1,199 | 2,534 | 9,441 | 18,532 | 13,231 |
| 1890-91 | 1,835 | 763 | 2,598 | 10,188 | 23,516 | 13,824 |
| 1891-92 | 1,935 | 1,202 | 3,137 | 13,125 | 27,470 | 13,770 |
| 1892-93 | 2,425 | 613 | 3,038 | 14,760 | 23,830 | 27,043 |
| 1893-94 | 2,247 | 642 | 2,889 | 14,364 | 24,357 | 26,411 |
| 1894-95 | 1,830 | 1,462 | 3,292 | 13,463 | 29,551 | 12,050 |

The falling off in kharif was due to a smaller area than usual of groundnut and rice having been irrigated, in consequence of a deficiency of rain in the early part of the year which checked the sowing of these crops, as the cultivators near Sholapur prefer rain to tank water at the time of sowing, though they take canal water for subsequent waterings. The increase in rabi was due partly to development of irrigation at the tail, and partly to unfavourable rainfall in this season.

The incidence of water-rate was 4.09 per acre irrigated against 4.97 in the previous year.

Area irrigated, water-rate, &c., on each canal.

6. The area irrigated by each canal and water-rate assessment thereon were as follows :—

| Name of Canal. | Average discharge during the year. | AREA IRRIGATED. | | | | | | REDUCED LEVEL OF WATER ON 5TH JUNE. | | RE-MARKS. |
|---------------------------------|------------------------------------|-----------------|-----------------------|--------|-----------------------|--------|-----------------------|-------------------------------------|------------------------------------|-----------|
| | | KHARIF. | | RABI. | | TOTAL. | | R. L. on 5th June 1894. | Height of water over sill in feet. | |
| | | Acres. | Amount of assessment. | Acres. | Amount of assessment. | Acres. | Amount of assessment. | | | |
| | | | Rs. | | Rs. | | Rs. | | | |
| Left Bank Low Level Canal ... | 22.67 | 1,460 | 7,353 | 1,100 | 2,618 | 2,560 | 9,971 | 194.40 | 28.65 | |
| Left Bank High Level Canal ... | 2.53 | 240 | 1,965 | 119 | 358 | 359 | 2,323 | | | 3.82 |
| Right Bank High Level Canal ... | 6.88 | 130 | 595 | 243 | 574 | 373 | 1,169 |  |  |  | 3.88 |
| Total ... | ... | 1,830 | 9,913 | 1,462 | 3,550 | 3,292 | 13,463 | ... | ... | |

7. The working expenses including indirect charges amounted to Rs. 12,050.

Working expenses. The item "Maintenance and Repairs" amounted to Rs. 6,057, or Rs. 126 per mile of canal, the length of the canals being 48 miles.

Measuring charges.

8. The area irrigated was measured at a cost of Rs. 557, which gives a charge of 2 annas and 8 pies per acre.

9. The rainfall over 159 square miles of catchment area was gauged at

Tank supply. one place only, and amounted to 18.54 inches from 1st June 1894 to 31st October 1894. The run-off into the tank was estimated to be 0.204 of the rainfall.

10. Babul trees grow plentifully on the tank margin and on the canals, and

Plantations. form a good source of revenue, as there is always demand for firewood at Sholapur. Fruit trees have not yet commenced to yield a good revenue. The expenditure on account of plantations during the year was Rs. 1,107, and the revenue was Rs. 9,003, inclusive of the proceeds from other canal produce.

The numbers of trees above and below 5 feet at the end of March 1895 were as under :—

(11).—KRISHNA CANAL.

| | Above 5 feet. | Below 5 feet. |
|----------------------|------------------|------------------|
| Bábul | 53,071 | 74,732 |
| Nimb | 1,204 | 139 |
| Mango | 641 | 165 |
| Jámbul... .. | 84 | 40 |
| Tamarind | 172 | 140 |
| Siras | 135 | 24 |
| Bori | 36 | 2 |
| Chandan | 79 | 17 |
| Bamboo | 212 | 9 |
| Guava | 26 | 1 |
| Moho | 5 | 2 |
| Nimboni | 101 | 13 |
| Sendi | 45 | 300 |
| Miscellaneous | 627 | 104 |
| | 56,438 | 75,688 |
| Total ... | 1,32,126 | |

11. The Right Bank Canal continues to be in an unsatisfactory condition. There is no bank on its upper side, and the rain water therefore enters the canal, and brings in a large quantity of silt which obstructs the free flow of water to the tail, and entails high maintenance charges. The revenue from this canal is not sufficient to justify a large expenditure upon its improvement.

General remarks.

12. Experiments were made during the year to ascertain accurately the quantity of water required to mature certain crops, and the results obtained were as under :—

Duty of water.

| Plot No. | Name of Crop. | Quantity of water for one acre in cubic feet. |
|----------|------------------------|---|
| 1 | Wheat, 1st sort | 60,593 |
| 2 | Do. ordinary | 41,838 |
| 3 | Gram | 12,229 |

(11).—KRISHNA CANAL.

The construction estimate of the canal was closed on 31st March 1892, vide Government Resolution No. 75 W. I.—777, dated 14th May 1892, and the completion report was approved of in Government Resolution No. 12 W.J.—119, dated 22nd January 1894. The stop-gate on nála No. 21 referred to in the last year's report was completed during the year, Rs. 206 being spent on it and charged to open capital sanction. The total capital outlay direct and indirect to end of the year was Rs. 8,64,692.

Capital outlay.

By the completion last year of the Burli Branch Channel (see Administration Report), an additional area of 920 acres has been added to the cultivable area commanded.

2. The rainfall as gauged at Retre Budruk (16th mile of the canal) compares with the average of the previous ten years and with the fall of 1893-94 as under :—

Rainfall.

| | | | Average of ten years. | 1893-94. | 1894-95. |
|--------|-----|-----|--------------------------|----------|----------|
| | | | Inches. | Inches. | Inches. |
| Kharif | ... | ... | 17.20 | 14.50 | 20.82 |
| Rabi | ... | ... | 8.17 | 5.59 | 4.63 |
| Total | | | 25.37 | 20.09 | 25.45 |

Showing an increase of 6.32 inches for the kharif over last year, but a decrease of nearly an inch in the rabi. The total of the year was about equal to the average, but the rabi fall was rather deficient.

3. The hot weather flow of the river in 1894 (April and May) was about equal to the average. After that the supply was ample for all requirements down to January, but owing to the deficient late rainfall, the river discharge fell to below the average in February and March. There was, however, no actual deficiency of supply until the hot weather of 1895.

Area irrigated and water-rate assessment.

4. The areas irrigated and water-rate assessments as compared with the four previous years were:—

| Years. | AREA IRRIGATED. | | | ASSESSMENTS. | | |
|-------------|-----------------|--------|--------|--------------|-------|--------|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| 1890-91 ... | 1,736 | 2,214 | 3,950 | 23,630 | 9,077 | 32,707 |
| 1891-92 ... | 3,259 | 2,115 | 5,374 | 32,962 | 6,300 | 39,262 |
| 1892-93 ... | 1,751 | 2,045 | 3,796 | 28,669 | 7,910 | 36,579 |
| 1893-94 ... | 2,810 | 1,932 | 4,742 | 34,918 | 7,165 | 42,083 |
| Average ... | 2,389 | 2,076 | 4,465 | 30,045 | 7,610 | 37,658 |
| 1894-95 ... | 2,689 | 1,982 | 4,671 | 36,957 | 7,420 | 44,377 |

Area.—As compared with the average of the previous four years, there was an increase of 300 acres in the kharif irrigation and a decrease of 94 acres in the rabi. The kharif area was about the same as that of the previous year as is also the rabi. The total area shows a difference of 71 acres.

The area irrigated was 18 per cent. of the whole irrigable area and the measured area was 6 per cent. more than that applied for.

| Area of Sugarcane. | | Area of Sugarcane. | |
|--------------------|-------------------|--------------------|--|
| Acres. | | Acres. | |
| 1885-86 ... 852 | 1890-91 ... 1,036 | | |
| 1886-87 ... 907 | 1891-92 ... 1,219 | | |
| 1887-88 ... 1,089 | 1892-93 ... 1,319 | | |
| 1888-89 ... 1,144 | 1893-94 ... 1,449 | | |
| 1889-90 ... 1,023 | 1894-95 ... 1,566 | | |

Assessments.—Kharif assessments show a substantial increase due to the steady progress of perennial irrigation on this canal, as will be seen from the marginal table. The figures in the statement show that the revenue from this canal is steadily rising. There were no remissions during the year.

5. The average water-rate per acre was Rs. 9.50, as compared with 8.87 of the previous year, the increase being due to the larger area of the higher classes of crops.

Realizations and outstandings.

6. The realizations of the year amounted to Rs. 56,050, against Rs. 36,836 of the previous year, and the outstandings were only Rs. 660.

7. The miscellaneous revenue amounted to Rs. 4,664 (Rs. 4,354 from plantations alone), against Rs. 1,419 of the previous year.

Miscellaneous revenue.

The plantation revenue is notable, being due to the thinning out of the bábul trees on the banks of the canal.

8. The working expenses, including direct and indirect charges, compare as under for the last five years :—

| Particulars. | 1890-91. | 1891-92. | 1892-93. | 1893-94. | 1894-95. |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|
| | Rs. | Rs. | Rs. | Rs. | Rs. |
| Works | 7,911 | 6,164 | 7,954 | 6,898 | 7,064 |
| Establishment | 3,023 | 2,633 | 3,530 | 3,571 | 3,086 |
| Tools and Plant | 18 | 103 | 99 | 91 | 100 |
| Refund of Revenue | 6 | ... | ... | 1 | ... |
| Collection | 1,906 | 1,775 | 3,629 | 1,943 | 3,584 |
| Leave and Pension Allowances. | 423 | 376 | 494 | 500 | 432 |
| Total ... | 13,287 | 11,101 | 15,706 | 13,004 | 14,266 |

The actual outlay on works was about the same as in the previous year, but there was a saving of Rs. 485 on establishment, of which Rs. 211 was due to diminished charge for revenue management. The excess of Rs. 1,641 on collection of revenue is rateably on the increased realizations of the year.

Cost of working per mile of canal and per acre irrigated.

9. The cost of working was :—

| Years. | Per mile of canal. | Per acre irrigated. |
|----------------|--------------------|---------------------|
| | Rs. | Rs. |
| 1890-91 | 216 | 3.36 |
| 1891-92 | 182 | 2.07 |
| 1892-93 | 255 | 4.14 |
| 1893-94 | 211 | 2.75 |
| 1894-95 | 223 | 3.05 |

The higher figures for the year are due to rather higher working expenses and to a less total area of irrigation. A better comparison would be between the working expenses and the total revenue. The figures are :—

| Years. | Gross Revenue (assessed). | Working Expenses. | Per cent. | Surplus Revenue. |
|----------------|---------------------------|-------------------|-----------|------------------|
| | Rs. | Rs. | | Rs. |
| 1890-91 | 34,591 | 13,287 | 38.4 | 21,304 |
| 1891-92 | 40,970 | 11,101 | 27.1 | 29,869 |
| 1892-93 | 40,057 | 15,706 | 39.2 | 24,351 |
| 1893-94 | 43,281 | 13,004 | 30.0 | 30,277 |
| 1894-95 | 49,041 | 14,266 | 29.1 | 34,775 |

Thus it will be seen that the percentage of working expenses to gross revenue for the year under report was the lowest of the series, except in the year 1891-92, when, however, little or no silt clearance was done.

The last column of the table above shows a steadily increasing net or surplus revenue, which is a very satisfactory feature in the working of the Krishna Canal during the last few years.

The sum at capital charge at end of the year was Rs. 8,64,892. The net revenue of the year amounted to Rs. 34,775, giving a return of 4.02 per cent. on the total capital outlay, direct and indirect, and rather more than covering the interest charge.

10. The cost of crop measurement was Rs. 767, equivalent to Re. 0-2-7 per acre irrigated, or practically the same as the figures of 1893-94.
- Cost of measurement.
11. The average duty of water obtained was only 47 acres in the kharif season and 22 acres in the rabi. The Executive Engineer has not explained these extremely low duties, but it was previously reported that the cause was probably due to ample river supply and the number of uncontrolled distributary outlets.
- Duty of water.
12. The number of trees of all classes on the canal at the beginning of the year was 23,616, and in addition 600 new sapplings were planted. The number of trees cut and sold during the year was 1,524. The balance at the close of the year was thus 22,692. The net revenue from plantation was Rs. 4,354. The principal varieties of trees on the canal are:—bábul 19,715, mango 1,130, nimb 652, bamboo 508, and jámbul 286.
- Plantations.
13. Enquiries are proceeding as to the feasibility of obtaining a moderate amount of storage, so as to secure the continuance of the progressive increase in the perennial irrigation. The limit of irrigation possibilities dependent on the natural flow of the Krishna river is fast being reached, and further development must follow in the direction of storage.
- General remarks.

MINOR WORKS AND NAVIGATION.

(12).—KHA'RI CUT.

The rainfall during the year was 49·94 inches in the kharif and 1·39 inches in the rabi season, against 41·07 and 2·41 inches, respectively, during the previous year; the average of the last five years being as follows:—

| | In. | Cts. |
|--------|-----|------|
| Kharif | 32 | 52 |
| Rabi | 0 | 81 |

2. The rainfall was favourable, and the Chandola tank, the main storage reservoir for irrigation, remained at the full supply level throughout the year. To this fact was due an increase of about 300 acres in the area irrigated, as compared with that of the previous year, as shown below:—

| | Kharif. | Rabi. | Total. |
|---------|---------|-------|--------|
| 1893-94 | 1,760 | 26 | 1,786 |
| 1894-95 | 2,053 | 35 | 2,088 |

3. The assessments excluding remissions and free grants (the former being Rs. 6 and the latter Rs. 1,566) were as under:—

| | Kharif. | Rabi. | Total. |
|---------|---------|-------|--------|
| 1893-94 | 9,789 | 128 | 9,917 |
| 1894-95 | 12,089 | 172 | 12,261 |

4. The result is encouraging. The revenue seems to increase year by year, and is said to be capable of greater expansion with some further expenditure on improvements.

5. The working expenses of the year amounted to Rs. 6,107 against Rs. 4,702 in the previous year. The increase was due to special repairs necessitated by damages done by heavy floods in the Khári river. The incidence per acre was Rs. 2·92, or slightly more than that of the last year, which was 2·63.

Working expenses.

6. The area under irrigation was measured by the establishment specially employed for the purpose at a total cost of Rs. 162, or nearly 1¼ anna per acre.

7. The average water-rate during the year was Rs. 5·87 per acre, as compared with Rs. 5·55 during the previous year.

8. The supply drawn from the Khári river during the kharif season at the head of the Khári Cut was at the rate of 8·49 cubic feet per second, and the area irrigated was 2,295 acres.

Duty of water.

including the area assessed on the Chandola Tank, *viz.*, 242 acres; these figures prove a duty of 270 acres per cubic foot of discharge at head.

9. The discharge at the headworks during the rabi season was 5.91 cubic feet per second, and the area irrigated being 35 acres, the duty was 5.92 acres per cubic foot.

10. The year under report is the first year in which hot weather crops were sown by the cultivators, with the aid of water from the Khári Cut Canal. The cultivators of Vátva and a few more villages tried hot weather crops this year, and the result was satisfactory. An attempt was made by the Police Pátíl of Sahijpur to grow rice crop during the hot weather, but the result was not satisfactory.

(13).—HARTALA TANK.

1. This tank has been in operation for 22 years. It commands a gross area of 584 acres in the village of Hartála, of which the net irrigable area is 415 acres. The works are complete and can deliver water to this acreage when the tank is full. But water is in fact never taken for the whole area, as most of the land is cropped with cotton.

2. The depth of water in the tank fell to 7.59 feet on 10th June 1894. On the following day the first replenishment was received and by 27th October 1894 the water was 13.68 feet deep, or 0.02 feet below the full supply level. At the end of the year the water in the tank was 10.10 feet deep above the outlet sill.

3. The rainfall gauged at the tank site amounted to 34.71 inches (29.20 inches during the kharif and 5.51 during the rabi season), against 29.85 inches of the previous year and 25.88 inches the average of the past 21 years. The rainfall was thus copious in both seasons.

4. The area irrigated during the year amounted to:—

| Area irrigated. | | | | Acres. |
|-----------------|-----|-----|-----|--------|
| Kharif | ... | ... | ... | 12 |
| Rabi | ... | ... | ... | 71 |
| | | | | 83 |

which is 20 per cent. only of the irrigable area commanded by the tank, against 28.43 per cent. in the previous year. The falling off in the rabi area is due to favourable rainfall.

5. The kharif areas consist of 3 acres of fruit gardens, 5 acres of fodder, 1 acre groundnut, 1 acre chillies, and 2 acres of monsoon dry-crops. The rabi crops were wheat and gram. The total value of these crops is estimated at Rs. 1,664 against Rs. 2,841 in the previous year.

6. The gross assessed revenue from this tank during the year amounted to Rs. 636-6-5, as under:—

| Gross revenue. | | Rs. a. p. | | Rs. a. p. | |
|-----------------------------------|-----|-----------|-----|-----------|------|
| Water-rates— | | | | | |
| Kharif | ... | ... | 65 | 14 | 0 |
| Rabi | ... | ... | 142 | 0 | 0 |
| | | | | 207 | 14 0 |
| Miscellaneous— | | | | | |
| Protective rate on irrigable land | ... | ... | 414 | 2 | 5 |
| Fishery | ... | ... | 13 | 0 | 0 |
| Grass and trees | ... | ... | 1 | 6 | 0 |
| | | | | 428 | 8 5 |
| Total | | | | 636 | 6 5 |

against Rs. 1,227-2-0 of the previous year. The decrease was in chief part due to the sale of bábul trees not having been effected before the close of the year, owing to unavoidable delay in the selection and marking of the trees.

7. The incidence of water-rate per acre during the year under report was Rs. 2-8-1 against Rs. 2-4-1 of the previous year. The small increase, notwithstanding the fall in the assessed revenue, is accounted for by increase in the hot weather irrigation of the year.

8. The realization of revenue during the year amounted to:—

| | | | | Rs. | a. | p. |
|------------------|-----|-----|-----------|-----|----|----|
| Water-rates ... | ... | ... | ... | 282 | 4 | 0 |
| Miscellaneous... | ... | ... | ... | 428 | 8 | 5 |
| | | | Total ... | 710 | 12 | 5 |

Excepting the rabi assessments of the year, Rs. 142, which were sent for realization after the close of the year, there is no outstanding of revenue.

9. The working expenses were Rs. 394 in excess of the revenue, and amounted as shown below to Rs. 1,030 against Rs. 361 in the previous year:—

| | | | | Rs. |
|--------------------------------|-----|-----|-----------|-------|
| In the Public Works Department | ... | ... | ... | 995 |
| In the Civil Department | ... | ... | ... | 35 |
| | | | Total ... | 1,030 |

The increase in outlay was due to extensive repairs to the feed channel having been carried out.

10. The cost of measurement of the area irrigated was the same as last year, *viz.*, Rs. 2-5-4, which gives a rate of 5 pies against 4 pies of last year.

11. The area irrigated during the year was exactly the same as the area applied for, *viz.*, 83 acres.

12. The duty of water is shown in Statement I—E attached to this report. There were no special observations.

13. The loss by evaporation and absorption was as follows:—

| | Kharif Season. | Feet. |
|--|----------------|----------------|
| April, May and June, 67 days | ... | 2.32 |
| July, August and September | ... | Nil. |
| <i>Rabi Season.</i> | | |
| October, November, December, 1894, and January, 1895, 110 days | ... | 1.91 |
| <i>Hot Season.</i> | | |
| February and March, 59 days | ... | 1.22 |
| | | Total ... 5.45 |
| Average daily loss | ... | 0.231 |

(14).—MHASVA TANK.

This tank has been in operation for 18 years.

2. The following are the details of the gross area commanded by the whole project and the area irrigable by the project as so far completed:—

Gross and irrigable areas,

| Number. | Villages. | Area under command. | Area irrigable by the project as completed. |
|---------|-----------------------|---------------------|---|
| | <i>West Channel.</i> | Acres. | Acres. |
| 1 | Utrud | 386 | 355 |
| 2 | Nhava | 196 | 169 |
| 3 | Shelava Budruk | 1,149 | 631 |
| 4 | Ratna Pimpri | 1,207 | ... |
| 5 | Chiklod | 1,046 | ... |
| | <i>East Channel.</i> | | |
| 6 | Hirapur | 131 | 90 |
| 7 | Dhába | 407 | 337 |
| 8 | Sheláva Khurd | 125 | 118 |
| | Total ... | 4,647 | 1,700 |

No distributary has yet been constructed to irrigate the lands of Ratna Pimpri under the west channel, and very small areas are watered in the villages provided with distributaries, although the tank supply is available for larger area than is now irrigated. At Chiklod there is hardly ever any irrigation from the tank.

3. The depth of water in the tank at full supply level is 22 feet. At the commencement of the year the depth of water was 16.36 feet, which fell to 13.42 feet on the 9th June. The tank filled to overflowing on 10th September and by the end of the year the water was 18.65 feet deep. The supply was sufficient to meet the requirements of irrigation.

4. The year's rainfall amounted to 28.07 inches (23.48 inches in the kharif and 4.59 inches in the rabi season) against 19.86 inches in the previous year and 29.82 inches, the average of the past 17 years. The increase in the kharif rainfall did not cause any reduction in the kharif irrigation of the year compared with that of the previous year, as there was a larger area of perennial crops which could not do without the canal water. There was a decrease in rabi irrigation, however, owing to favourable rain.

5. The area irrigated during the year was as under :—

| | Acres. |
|---------------|--------|
| Kharif | 21 |
| Rabi | 106 |
| Total ... | 127 |

against 229 acres of the previous year. The value of the crops grown is estimated to have been Rs. 215.

6. The assessed revenue of the year was :—

| | Rs. a. p. |
|----------------------|-----------|
| Water rates | 394 12 0 |
| Miscellaneous | 641 6 0 |
| Total ... | 1,036 2 0 |

against Rs. 1,623-7-3 of the previous year. There was a falling off in miscellaneous receipts, partly owing to there being no cultivation in the tank area, and partly owing to the fact that the sale of the right of fishing, which realized an unusually high price last year in consequence of keen competition, fetched only ordinary prices this year.

7. The average incidence of water-rate assessment per acre was Rs. 3-1-8 against Rs. 2-6-4 last year. The rise in rate was due to an increase in the area under perennial crops.

8. The revenue realized amounted to :—

| | | | Rs. | a. | p. |
|---------------|-----|-----|-------|----|----|
| Water rates | ... | ... | 601 | 4 | 0 |
| Other sources | ... | ... | 641 | 8 | 0 |
| Total | | | 1,242 | 10 | 0 |

and there are no outstandings, excepting the rabi assessments of Rs. 222-3-0 which were demanded after the close of the year.

9. There were no refunds during the year.

10. The working expenses of the year amounted to :—

| | Rs. |
|---|-----------|
| In the Public Works Department | ... 1,193 |
| Collection charges in the Revenue Department. | 30 |
| Total | ... 1,223 |

against Rs. 2,024 of the previous year.

11. The cost of measurement of crops irrigated amounted to Rs. 8-13-7, which gives a rate of 1 anna 1 pie per acre.

12. The area applied for was 13 acres less than that actually irrigated, the discrepancy being due to the areas in the applications having been slightly under-estimated.

13. The scale of water-rates during the year under report was the same as in the previous year, and the following table shows the classification of crops and the revenue assessed under that scale :—

| Number. | Crops. | Area Irrigated. | Rate per Acre. | | Assessment. |
|-----------|-------------------|-----------------|----------------|-----|-------------|
| | | | Acres | Rs. | Rs. |
| 1 | Perennial ... | 16 | 10 | 163 | |
| 2 | Eight months ... | 6 | 4 | 22 | |
| 3 | Four months... .. | 101 | 2 | 205 | |
| 4 | Monsoon-dry... .. | 2 | 1 | 2 | |
| 5 | Hot weather... .. | 2 | 4 | 3 | |
| Total ... | | 127 | | 395 | |

There were also 2 acres of lift irrigation assessed at half the sanctioned rate.

14. The duty of water used for irrigation was as follows :—

| | Acres. |
|---------------|------------|
| Kharif | ... 27.63 |
| Rabi | ... 100.00 |

per cubic foot per second of discharge utilized, *vide* Statement I—E attached.

15. The loss by evaporation and absorption was as under :—

Evaporation and absorption.

(15).—JAMDA CANALS.

| | | | Feet. |
|--|-----|-----|----------------|
| <i>Kharif Season.</i> | | | |
| April, May and June, 65 days | ... | ... | 2.39 |
| <i>Rabi Season.</i> | | | |
| November, December and January 1895, 87 days | ... | ... | 1.46 |
| <i>Hot Season.</i> | | | |
| February and March 1895, 59 days | ... | ... | 1.18 |
| | | | Total ... 5.03 |
| Average daily loss | ... | ... | .0238 |

(15).—JAMDA CANALS.

1. These canals have been in operation for 28 years. The gross area under command is 46,288 acres, of which the area irrigable by the works as completed is as under :—

| | | | Acres. |
|------------------|-----|-----|-----------------|
| Left Bank Canal | ... | ... | 3,500 |
| Right Bank Canal | ... | ... | 1,500 |
| | | | Total ... 5,000 |

2. Though the discharge in the river was less than in the previous year except in the rabi season, the supply was sufficient for all requirements and the area under sugarcane rose to 326 acres, the highest area recorded during the past 25 years.

3. The rainfall was much greater than that of the previous year, in both the kharif and the rabi seasons, as will be observed from the following table :—

| Stations. | KHARIF. | | RABI. | |
|--------------------------------|---------|-------|-------|-------|
| | 1893. | 1894. | 1893. | 1894. |
| <i>At Canal head.</i> | | | | |
| Jamda Bungalow | 18.62 | 20.71 | 0.90 | 3.66 |
| <i>About middle of Canals.</i> | | | | |
| Kolgaon Chowki | 19.24 | 24.74 | 0.10 | 5.87 |
| <i>At tail of Canal.</i> | | | | |
| Bhadgaon Dispensary | 23.35 | 29.47 | 1.12 | 4.62 |

The favourable rainfall led to a falling off in the irrigation of monsoon, wet rabi, and 8 months' crops.

4. The following table compares the areas irrigated with those of the previous year :—

| | | 1893-94. | 1894-95. |
|--------|-----|----------|----------|
| | | Acres. | Acres. |
| Kharif | ... | 508 | 539 |
| Rabi | ... | 1,080 | 609 |
| Total | | 1,588 | 1,148 |

Gross revenue.

5. The assessments of the year from all sources are contrasted with those of the previous year in the following table:—

| | 1893-94. | 1894-95. | Increase. | Decrease. |
|----------------------|----------|----------|-----------|-----------|
| | Rs. | Rs. | Rs. | Rs. |
| Water-rates | 6,630 | 7,744 | 1,114 | ... |
| Miscellaneous | 3,937 | 2,734 | ... | 1,203 |
| Total | 10,567 | 10,478 | ... | 89 |

The increase in water-rates in spite of the reduction in the area irrigated is due to the satisfactory increase in the area of sugar-cane cultivation. The falling off in miscellaneous receipts was due to the sales of bábul trees not having been completed by the end of the year.

6. There were no remissions during the year and the realizations amounted to—

| | | |
|----------------------|-----|--------|
| Water-rates | Rs. | 8,527 |
| Other sources | Rs. | 2,734 |
| Total | Rs. | 11,261 |

or Rs. 903 in excess of the amount realized last year.

7. The unrealized balance of assessed water-rates is Rs. 1,191, besides the rabi assessment of Rs. 1,331 sent for realization after the close of the year under report. Legal measures are being adopted to effect the recovery of the sum of Rs. 1,191 remaining unrealised.

8. The average incidence of water-rate assessment per acre during the year under report was Rs. 6-11-11 against Rs. 4-2-10 in the previous year and Rs. 1-13-5 in 1892-93. The rapid rise in average rate is due to the increase in perennial cultivation encouraged by a continuous good supply of water in the river for two years.

Working expenses.

9. In the following table are contrasted the working expenses of the year with those of the previous year:—

| | 1893-94. | 1894-95. | Increase. | Decrease. |
|------------------------------------|----------|----------|-----------|-----------|
| | Rs. | Rs. | Rs. | Rs. |
| <i>Direct Charges.</i> | | | | |
| Original Works | —53 | ... | 53 | ... |
| Repairs | 4,484 | 3,071 | ... | 1,413 |
| <i>Establishment.</i> | | | | |
| Direction | 894 | 587 | ... | 307 |
| Construction | 2,679 | 4,686 | 2,007 | ... |
| Tools and Plant | 100 | 200 | 100 | ... |
| | 8,104 | 8,544 | 2,160 | 1,720 |
| <i>Indirect Charges.</i> | | | | |
| Leave and Pension allowance | 500 | 738 | 238 | ... |
| Collection charges | 8,604 | 9,282 | 2,398 | 1,720 |
| | 311 | 426 | 115 | ... |
| | 8,915 | 9,708 | 793 | ... |

The total charges of the year are in the excess of those of the previous year by Rs. 793. The excess is due mostly to increase in the establishment charges and the consequent leave and pension allowance charge. This increase is now unavoidable, the lowest possible establishment having been kept on the Canals. Notwithstanding this increase in the working expenses and the falling off in the areas irrigated, the assessed revenue has exceeded the working expenses by Rs. 770, which is a small improvement, for previous to 1892-93 the canals worked at a loss every year.

10. The cost of measurement of crops irrigated during the year on the two canals separately is given below :—

| | Area irrigated. | Area measured. | Cost of measurement. | | | Rate per Acre. | | |
|-------------------------|-----------------|----------------|----------------------|--------|-----------|----------------|-----------|---|
| | | | Acres. | Acres. | Rs. a. p. | Rs. a. p. | Rs. a. p. | |
| Left Bank Canal | 775 | 334 | 42 | 2 | 0 | 0 | 2 | 0 |
| Right Bank Canal | 373 | 70 | 7 | 3 | 2 | 0 | 1 | 8 |

The rate per acre is greater than that of the last year as more accurate measurements had to be taken in the case of high-rated crops, of which larger areas were irrigated during the year under report. In the case of low-rated crops the areas are ascertained by measurements of lengths and breadths only for economy in cost; 35.1 per cent. of the area irrigated had to be measured, the remaining 64.9 per cent. of the area was in lands sub-divided for irrigation purposes or in whole fields.

Areas applied for and irrigated.

11. The total area applied for—1,139 acres—corresponds nearly with that assessed—1,148 acres.

12. Special observations were made in the village of Kolgaon during the rabi season to determine the duty of water and the quantities required for the maturing of wheat crops, with the following results :—

| Survey Number. | Crop | Number of waterings. | Area. | | Quantity of water used. | Duty (123) days. |
|---------------------|--------------|----------------------|-------|----|-------------------------|------------------|
| | | | A. | G. | | |
| 81—Pot No. 1 | Wheat | 2 | 0 | 27 | 19,062 | 376 |

13. The expenditure on plantation amounted to Rs. 645 during the year and Rs. 16,369 to end of the year. The number of trees on the Canals is 15,344 against 15,974 of last year, the decrease being due to the thinning out of bábul trees.

(16).—PARSUL TANK.

1. This tank has been in operation for 6 years. It commands the lands of the villages of Murana, Saundana and Nandgaon in the Málegaon Táluka of the Násik District. The accurate figures of the gross and irrigable areas in each of these villages have yet to be ascertained by a proper survey, for which an estimate has been sanctioned. Approximate figures only have been entered in Statement II—A.

2. The tank works with the distributaries have been completed, with the exception of the extension of the Saundana Channel to irrigate the lands of Nandgaon. This was to have been done during the year under report, but as the question of formation of a new 'thal' at Umrana and the extension of the existing 'thal' at Saundana was

under consideration, it was thought advisable to defer the execution of the work for the present.

3. The tank supply during the year was sufficient to meet all demands.

The storage in the tank at the commencement of the year was 44·94 millions cubic feet, which fell to 13·06 millions cubic feet on the 10th July, when the tank received its first replenishment. The full storage of 118·70 million cubic feet was reached on the 8th August 1894, and the tank remained full till the 13th November 1894. At the close of the year the tank was more than half full, the contents being 78·86 millions cubic feet.

4. The rainfall of the year was 25·37 inches against 17·63 inches in the previous year and 21·47 inches, the average of the past 12 years. By seasons the year's fall was as given

Rainfall. below, in comparison with that of the previous year :—

| Seasons. | 1894-95. | 1893-94. |
|---------------|----------|----------|
| | Inches. | Inches. |
| Kharif | 21·95 | 13·69 |
| Rabi | 3·42 | 1·65 |
| Total | 25·37 | 15·34 |

Although the kharif fall was greater than that of the previous year, there was a long break in the month of August, when only 0·06 inches of rain fell and this necessitated the watering of monsoon dry-crops from the tank. The rabi rain, though very favourable, did not cause any remarkable decrease in the rabi irrigation.

5. The areas irrigated during the year amounted to 363 acres, distributed as under by seasons and the villages commanded in comparison with those of the previous years :—

| Villages. | Kharif. | | Rabi. | | Total. | |
|-----------------|----------|----------|----------|----------|----------|----------|
| | 1893-94. | 1894-95. | 1893-94. | 1894-95. | 1893-94. | 1894-95. |
| | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. |
| Umrana | 44 | 77 | 177 | 102 | 221 | 179 |
| Saundana | 25 | 39 | 111 | 117 | 136 | 156 |
| Nandgaon | ... | ... | 2 | 28 | 2 | 28 |
| Total | 69 | 116 | 290 | 247 | 359 | 363 |

The increase in the kharif irrigation was due to an increase in the area under sugarcane, and also in that under fodder crops in the hot weather. The long break in August necessitated the use of the canal water for 25 acres of bajri crop, which would have otherwise withered and failed. The details of the kinds of crops watered with their valuation are given in Statement III—E. The value of the crops was Rs. 3,758.

6. In the village of Saundana, before the Parsul Tank was constructed, there were about 98 acres of land entitled under the Survey Settlement to water from the Parsul river, which generally lasted till February, and for the right to use which a charge of Rs. 2-6-0 per acre was levied. After the completion of the tank the owners of these fields were required to pay the rates for irrigation from the tank, in addition to those previously levied. Government, however,

have now, after careful consideration of the facts of the case, decided that during the currency of the present lease the crop rate is not to be charged in addition to the consolidated rate, unless the irrigators prefer to surrender the guarantee. Should they prefer to adhere to the terms of the settlement, the water-supply is to cease after February, and if water is required after February the difference between the Parsul Tank crop-rate and the water share of the survey settlement rate already paid is to be charged.

7. The total assessments of the year amounted to—

| Gross revenue. | | | | Rs. | a. | p. |
|----------------|-----|-----|-----|-------|----|----|
| Water-rates | ... | ... | ... | 1,694 | 4 | 0 |
| Miscellaneous | ... | ... | ... | 9 | 15 | 0 |
| Total | | | | 1,704 | 3 | 0 |

against Rs. 1,426-3-0 of the previous year. The increase was chiefly in the kharif assessments which amounted to Rs. 707-11-0, the highest amount yet reached since the opening of the tank. It is due to larger areas of sugarcane and fodder, both high-rated crops.

8. The realizations amounted to—

| | | | | Rs. | a. | p. |
|---------------|-----|-----|-----|-------|----|----|
| Water-rates | ... | ... | ... | 1,881 | 4 | 0 |
| Other sources | ... | ... | ... | 9 | 15 | 0 |
| Total | | | | 1,891 | 3 | 0 |

This is inclusive of the amount of over-collection of Rs. 8-6-0 twice received by mistake from one irrigator. The amount will be refunded. Omitting this sum, the actual revenue receipts of the year were Rs. 1,882-13-0.

10. The outstandings of revenue to end of the year are Rs. 986-9-0, which is the amount of the rabi assessments sent for realization after the close of the year.

11. The working expenses amounted to Rs. 1,359 against Rs. 970 of the previous year. The increase was due to the increase in the establishment charges brought about by the ruling promulgated in Government Resolution No. 280, A.I.—1903 of 14th December 1894, according to which a percentage is debited to capital expenditure and the balance of the outlay on establishment is distributed in proportion to the outlay on works and repairs in the case of the 1st and 2nd class revenue works. This mode has reduced the establishment charge on the old irrigation works in this district and enhanced the working expenses of the new irrigation works. The least establishment is maintained for this and other similar works, and there is no margin now to effect any reduction.

Water-rates.

12. The previous scale of water-rates, viz :

for kharif crops Re. 1 per acre, rabi crops, Rs. 4 per acre and hot weather Rs. 6 per acre, was sanctioned for the year under report also. There was no separate rate sanctioned for perennial crops. Water was allowed to these according to the rate for the season in which they were watered. A considerable area of land received water all the year round and was assessed at Rs. 11 per acre.

13. The year's irrigation may be classified as under :—

| Crops. | Area in acres. | Assessment. |
|--|----------------|-------------|
| | | Rs. |
| Kharif | 25 | 24 |
| Rabi (including 8 months' crops) | 240 | 962 |
| Hot weather (including perennial) | 98 | 708 |
| Total | 363 | 1,694 |

14. There has been no separate charge for measurements of irrigated crops, which were done by the canal kárkún.

Measurement of crops.

Area applied for and irrigated.

15. The area applied for compared as below with actual irrigation :—

| | | | | Kharif. Acres. | Rabi. Acres. |
|------------------------|-----|-----|------------|-------------------|-----------------|
| Area applied for ... | ... | ... | ... | 96 | 131 |
| Do. actually irrigated | ... | ... | ... | 116 | 247 |
| | | | Difference | 20 | 116 |

The differences were due partly to under-estimates in water applications, but mostly to the káyam bágáyat land of Saundana having been irrigated without water applications.

Evaporation and absorption. 16. The calculated loss by evaporation and absorption was as under :—

| <i>Kharif Season.</i> | | | | Feet. |
|--|-----|-----|--------------------|-------|
| April, May and June, 66 days | ... | ... | ... | 5.26 |
| <i>Rabi Season.</i> | | | | |
| November 1894 to January 1895, 80 days | ... | ... | ... | 2.57 |
| <i>Hot Season.</i> | | | | |
| February and March, 59 days | ... | ... | ... | 2.00 |
| | | | Total | 9.83 |
| | | | Average daily loss | .048 |

(17).—OJHAR CANAL.

1. The area irrigated during the year was 1,544 acres, of which 593 were under kharif, and 951 under rabi crops. The total shows a decrease of 699 acres on the area of the previous year. There was an increase in kharif due to untimely rainfall, and a considerable decrease in rabi, owing to heavy rain in October.

Comparison of area applied for and irrigated.

2. The following statement compares the area applied for and irrigated during the year :—

| Year. | Kharif. | | Rabi. | | Total. | | Difference, less Irrigated. | | |
|-------------|--------------|------------|--------------|------------|--------------|------------|-----------------------------|--------|--------|
| | Applied for. | Irrigated. | Applied for. | Irrigated. | Applied for. | Irrigated. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. |
| 1894-95 ... | 855 | 593 | 1,015 | 951 | 1,870 | 1,544 | 262 | 64 | 326 |

The area not irrigated is 17.43 per cent. of the area applied for. The decrease is reported to have been due to timely and favourable rain after receipt of applications, which rendered canal water unnecessary.

3. Owing to the falling off in rabi irrigation, the water-rate assessments amounted to only Rs. 4,678 as detailed below, against Rs. 6,030 in the previous year.

| | | | | | Rs. |
|---------|-----|-----|-------|-----|-------|
| Kharif | ... | ... | ... | ... | 2,617 |
| Rabi... | ... | ... | ... | ... | 2,061 |
| | | | Total | ... | 4,678 |

Area irrigated per mile of main canal and of main canal and branches.

4. The area irrigated per mile of main canal was kharif 31.21 and rabi 50.05 acres, and that of main canal and branches was kharif 14.82 acres and rabi 23.77 acres.

Comparison of area irrigated and revenue.

5. The following table compares the area irrigated and revenue derived during the previous three years with the figures of the year under report.

| Year. | Area irrigated. | Revenue from water-rates. | REMARKS. |
|----------------|-----------------|---------------------------|-------------------------------|
| | Acres. | Rs. | From 1st April to 31st March. |
| 1891-92 | 2,621 | 6,490 | Rainfall 15.44 |
| 1892-93 | 1,100 | 3,471 | Do. 37.72 |
| 1893-94 | 2,243 | 6,030 | Do. 25.09 |
| 1894-95 | 1,544 | 4,678 | Do. 25.46 |

6. The incidence of water-rate per acre was 3.03 against 2.69 in the previous year, which was due to an increase in the area of perennial and hot weather crops.

Water-rate per acre.

7. The capital account is closed. Rs. 51 were paid during the year on account of masonry outlets.

Capital account.

8. The working expenses amounted to Rs. 28,766 as detailed below, against Rs. 6,808 in the previous year :—

Working expenses.

| | | | | |
|------------------------------------|-----|-----|--------------|---------------|
| | | | | Rs. |
| Maintenance and repairs | ... | ... | ... | 4,582 |
| Share of establishment | ... | ... | ... | 20,781 |
| Tools and plant | ... | ... | ... | 122 |
| Share of collection charges | ... | ... | ... | 372 |
| Indirect charges | ... | ... | ... | 2,909 |
| | | | Total | <u>28,766</u> |

The incidence of total charges per mile of main canal open was Rs. 1,514, and per acre irrigated Rs. 18.63.

The increase under maintenance and repairs is Rs. 1,211, and is due to special silt clearance. There is also an increase under Establishment charges, which is due to no charges on account of establishment being charged to works for which only revenue accounts are kept, and on which there was no expenditure. The increase under Tools and Plant is due to the increase in the amounts for repairs and new supply during the year necessitated by additional clearance work. That in collection charges is due to the increase in the amounts to be collected during the year.

The increase in indirect charges is due to the increase in establishment charges.

9. The duty per cubic foot per second of water admitted into the canal was 18.36 acres in the kharif and 29.06 acres in the rabi season. That of water actually utilized was 25.29 acres in the kharif and 37.90 acres in the rabi season.

Duty of Water.

10. The water-rates were the same as those in force since 1889-90, but revised rates are to be introduced from 1st April 1895.

Water-rates.

11. The total cost of measurement of 1,090 acres (excluding 454 acres sub-divided) during the year was Rs. 118, or 1 anna and 9 pies per acre against Rs. 202, or 1 anna and 9 pies per acre last year.

Cost of measurement.

12. The rainfall as gauged at Ashvi was kharif 20.29, rabi 4.00, total 24.29 inches, or 2.23 inches more than the average of the last five years. The rainfall in February 1895, not included in the above figures, was 1.17 inches.

13. The supply of water in the Pravara River was sufficient to meet all requirements. In January a temporary earthen bund 2 feet high was thrown on the weir as usual to increase the back water during the hot weather of 1895-96.

14. At end of the year the number of trees on this canal was 13,105. The numbers of principal kinds were:—

| | | | | | | | |
|---------------|-----|-----|--------|---------------------|-----|-----|-------|
| Bábul... | ... | ... | 10,151 | Bakan | ... | ... | 28 |
| Mango | ... | ... | 839 | Jámbhul | ... | ... | 209 |
| Do. grafts... | ... | ... | 52 | Sandal | ... | ... | 89 |
| Orange | ... | ... | 29 | Nimb... | ... | ... | 1,490 |
| Bor | ... | ... | 112 | Bamboo | ... | ... | 53 |
| Moho | ... | ... | 2 | Kyene | ... | ... | 2 |
| Siras | ... | ... | 11 | Miscellaneous trees | ... | ... | 38 |

The total number last year was 11,805.

15. The canal was closed eight times during the year for silt and weed clearance for periods aggregating 54 days in all.

(18).—BHATODI TANK.

1. The area irrigated during the year was 1,698 acres, of which 517 were under kharif and 1,181 under rabi crops. The total shows an increase of 85 acres on the area of the last year. The increase in area is undoubtedly due to increased vigilance on the part at the canal establishment, who discovered many cases of surreptitious waterings of night time.

Comparison of areas applied for and irrigated.

2. The following statement compares the areas applied for and irrigated during the year:—

| Year. | KHARIF. | | RABI. | | TOTAL. | | DIFFERENCE. | | |
|---------|--------------|------------|--------------|------------|--------------|------------|-------------|--------|--------|
| | Applied for. | Irrigated. | Applied for. | Irrigated. | Applied for. | Irrigated. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | Acres. |
| 1894-95 | 487 | 517 | 1,609 | 1,181 | 2,096 | 1,698 | + 0 | -428 | -398 |

The cultivators on all three irrigation works in the Ahmednagar District appear to make applications for water before deciding whether they will make use of the permission when received, thus causing much unnecessary office and field work to the canal establishment. Endeavours are being made to check this practice by returning the applications sanctioned as early as possible.

3. During the year the water-rate assessments amounted to Rs. 5,467 detailed as below, against Rs. 5,173 in the previous year:—

| | | | | | |
|--------|-----|-----|-----|-----|-------|
| | | | | | Rs. |
| Kharif | ... | ... | ... | ... | 2,572 |
| Rabi | ... | ... | ... | ... | 2,895 |
| Total | ... | ... | ... | ... | 5,467 |

4. The following table compares the areas irrigated and revenue derived during the previous three years with the figures of the year under report:—

| Year. | | Area irrigated. | Revenue from water-rates. | Remarks. |
|---------|-----|-----------------|---------------------------|---|
| | | Acres. | Rs. | From 1st April to 31st March Rainfall. |
| 1891-92 | ... | 1,576 | 4,818 | 20.30 |
| 1892-93 | ... | 1,337 | 4,038 | 46.63 |
| 1893-94 | ... | 1,613 | 5,173 | 31.50 |
| 1894-95 | ... | 1,698 | 5,467 | 23.55 |

Water-rate per acre. 5. The incidence of water-rate per acre was Rs. 3.22 against 3.21 in the previous year.

Working expenses. 6. The working expenses amounted to Rs. 12,281 detailed as below, against Rs. 4,148 in the previous year:—

| | Rs. |
|-----------------------------|--------|
| Maintenance and repairs | 1,963 |
| Share of establishment | 8,796 |
| Tools and plant | 11 |
| Share of collection charges | 280 |
| Indirect charges | 1,231 |
| Total | 12,281 |

The rate of working expenses per mile of main canal open was Rs. 2,720 and per acre irrigated Rs. 7.23.

The increase in maintenance and repairs was trifling and calls for no explanation.

The increase in establishment is due to no charges on account of establishment being debited to works for which only revenue accounts are kept, on which there was no expenditure. Previously charges were made proportionately, and the remaining amount was debited to works for which only revenue accounts are kept.

The increase in indirect charges was due to the increase in establishment charges.

7. The duty per cubic foot per second of water actually utilized was 122.22 acres in the kharif and 134.66 acres in the rabi season.

8. The water-rates are the same as those in force since 1889-90. Revised rates assanctioned in Government Resolution No. 154 A. I.—898, dated 7th June 1895, are to be introduced from 15th October 1895.

9. The cost of measurement amounted to Rs. 30 or Re. 0-3-10 against Rs. 19 or Re. 0-1-10 per acre irrigated last year. Out of the irrigated area of 1,698 acres, 1,573 acres had merely to be inspected and checked with the registers of Pot numbers, and 125 acres had to be actually measured. The excess rate is due to the fields being at a distance from each other, and the incompetence as a measurer of the canal Inspector. In future measurements will be made by a special measurer as usual.

10. The rainfall as gauged at Bhatodi was kharif 22.34, rabi 2.61, total 24.95 inches, or 0.56 inches less than the average of the previous five years. The rainfall in May 1894 and February 1895, not included in the above figures, was 3.60 inches.

11. The water-supply of the tank was sufficient to meet the requirements of the cultivators. On 1st April 1894, the water in the tank stood at 18·10 feet above sill of outlet sluice, that is, at R. L. 88·10 against R. L. 91·87 on the same date in the previous year. The tank received its first replenishment on 22nd May 1894, and the R. L. of surface of water rose from R. L. 85·00 to 85·50. The highest level of water in the tank was 94·75 on 14th September 1894, that is, 2·25 feet above the crest of waste weir. The R. L. of surface of water on 31st March 1895 was 81·90.

12. At the end of the year the number of trees on the canal was 7,681 as compared with 7,662 in the previous year. The numbers of principal kinds were :—

| Plantations. | | as compared with 7,662 in the previous year. The numbers of principal kinds were :— | |
|--------------|------------|---|------------|
| Mango | 993 | Nimb | 317 |
| Do. grafts | 17 | Sandal | 161 |
| Tamarind | 45 | Siras | 49 |
| Bor | 147 | Bábul | ... 5,189 |
| Orange | 29 | Miscellaneous | ... 595 |
| Jámbul | 139 | | |

(19).—MATOBA TANK.

The water in the tank stood at 17·42 feet above sill of outlet on 1st April 1894. The draw-off for irrigation reduced the level until 22nd June when it stood at 0·50, and the tank ran dry on the 23rd June. From the 24th June it commenced to be replenished and filled to overflowing on the 26th August. On the 31st March 1895, the level was 17·94 above sill of outlet, or 0·44 foot higher than on the same date in the previous year.

2. The area irrigated from the tank during the year was 1,420 acres, of which 828 acres were under kharif and 592 acres under rabi crops. The total shews an increase of 278 acres as compared with that of the previous year, due to increase in the area of monsoon dry-crops and rice.

The assessments of water-rates amounted to Rs. 9,936, and the miscellaneous revenue to Rs. 143, making a total of Rs. 10,079 against Rs. 10,792 in the previous year. The incidence of water-rates was Rs. 7·00 per acre irrigated against Rs. 9·45 in the previous year.

3. The area irrigated was ascertained by actual measurements, most of which were taken by measurers, specially entertained for the purpose, and the remainder by an Inspector in the intervals of his regular work. The total cost of measurements was Rs. 81, or 11 pies per acre, as compared with 9 pies in the previous year.

4. The working expenses amounted to Rs. 4,257, which represents a rate per mile of canal in operation of Rs. 250·41 or 2·99 per acre irrigated. The expenditure on maintenance and repairs during the year was greater than in 1893-94 due to the puddling work done on portions of embankments. The charge for establishment was also proportionately greater on the above account.

5. The following statement shows the duty of water ascertained from special observations of discharge and area actually under irrigation during the months referred to :—

| Month. | Discharge cubic feet per second. | Area irrigated. | Duty in acres per cubic foot per second. |
|--------------------|----------------------------------|-----------------|--|
| | | | Acres. |
| 1894 ... { April | 8·41 | 363 | 43·16 |
| ... { May | 6·48 | 360 | 55·55 |
| 1895 ... { January | 7·83 | 350 | 44·69 |
| ... { March | 9·69 | 445 | 45·92 |

(21).—SHIRSUPHAL TANK.

Area irrigated and applied for.

6. The following is the comparison of areas irrigated and applied for:—

| AREA APPLIED FOR. | | | AREA IRRIGATED. | | | MORE. | | LESS. | |
|-------------------|-------|--------|-----------------|-------|--------|---------|-------|---------|-------|
| Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Kharif. | Rabi. |
| 1,218 | 730 | 1,948 | 828 | 592 | 1,420 | ... | ... | 390 | 138 |

The decrease is due to the cultivators over-estimating the areas of their fields.

(20).—KASURDI TANK.

The depth of water above sill of outlet in this tank on 1st April 1894 was 8.90 feet. On the 2nd May the tank ran dry. On the 23rd July it received a slight replenishment and on 4th August became dry again. From 8th September the tank received gradual replenishments and filled to a height of 10.70 feet above sill on 10th September 1894. The water was drawn off for irrigation, and on 25th November 1894, it ran dry and remained so to the end of the year.

2. The area irrigated was 1 acre of kharif only. The small area irrigated was due to the failure of supply. During the hot weather the bed was utilized as usual for the cultivation of melons, and a sum of Rs. 180 was obtained as rent.

The assessments amounted to Rs. 309, of which Rs. 8 were on account of water-rates and Rs. 301 for miscellaneous revenue.

Working expenses.

3. The working expenses amounted to Rs. 369.

Area applied for and irrigated.

4. The following table shows comparison of area applied for and irrigated:—

| AREA APPLIED FOR | | | AREA IRRIGATED. | | | MORE. | | LESS. | |
|------------------|-------|--------|-----------------|-------|--------|---------|-------|---------|-------|
| Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Kharif. | Rabi. |
| 3 | ... | 3 | 1 | ... | 1 | ... | ... | 2 | ... |

The difference is due to failure of supply.

(21).—SHIRSUPHAL TANK.

On the 1st April 1894 the water in the tank stood at 14.74 feet above sill of outlet, *i.e.*, 11.04 feet lower than on the same date in the previous year. The tank ran dry on 3rd September and remained so till the 7th of that month. It commenced to be replenished from the 8th September and water rose to 11.30 feet above outlet sill on 23rd October 1894. At the close of the year the tank again ran dry.

Area irrigated and assessment.

The area irrigated was 177 acres of kharif, as compared with 913 acres in the previous year. The decrease was due to failure of supply.

The net assessments amounted to Rs. 1,304, of which Rs. 1,079 were on account of water-rates and Rs. 225 for miscellaneous revenue.

2. The areas irrigated were measured by measurers specially entertained for the purpose, and partly by an Inspector when time could be spared from his ordinary work, and the measurements were checked as usual by the subordinate in charge. The cost was Rs. 16, or 1 anna and 5 pies per acre against 10 pies in the previous year.

Cost of measurement.

3. The working expenses amounted to Rs. 3,196, which represents a rate for maintenance per mile of canal in operation of Rs. 255·68 and Rs. 18·06 per acre irrigated. The expenditure on maintenance and repairs during the year was greater than in the previous year due to the renewal of regulating bars.

Working expenses.

Duty of water.

4. Owing to failure of supply, no information of any value can be given, regarding the duty of water.

Area applied for and irrigated.

5. The following is the comparison of areas irrigated and applied for:—

| AREA APPLIED FOR | | | AREA IRRIGATED. | | | MORE. | | LESS. | |
|------------------|-------|--------|-----------------|-------|--------|---------|-------|---------|-------|
| Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Kharif. | Rabi. |
| Acres. | | Acres. | Acres. | | Acres. | | | Acres. | |
| 209 | ... | 209 | 177 | ... | 177 | ... | ... | 32 | ... |

The decrease is due to the cultivators over-estimating the areas of their fields.

6. Remissions amounting to Rs. 557 have been granted during the year on account of short supply of water due to failure of supply in the tank.

Remissions.

7. To ascertain the loss by evaporation and leakage from the tank during the year, gaugings were taken for broken periods during the months of April 1894 to March 1895 inclusive, or a total number of 300 days. During this period the loss amounted to 35,882,337 cubic feet, or nearly one-eleventh of the total capacity of the tank above outlet level. The tank was emptied in September 1894 for five days and again on the 31st March 1895.

Evaporation and leakage.

(22).—BHÁDALVÁDI TANK.

At the beginning of the year the water level stood at 10·90 feet above the outlet sill, or 20·35 feet lower than on the same date in the previous year. The tank received gradual replenishments during the year, and on 22nd October water rose to a height of 25·80 feet above sill of outlet, and on 31st March 1895 the water in the tank stood at 20·17 feet above the sill of outlet.

Tank supply.

2. The areas irrigated were 6 acres of kharif and 293 acres of rabi making a total of 299 acres against 764 acres in the previous year. The decrease was due to failure of supply.

Areas irrigated and assessments.

The assessments of water-rates amounted to Rs. 674, and the miscellaneous revenue to Rs. 72, making a total of Rs. 746 against Rs. 4,403 in the previous year.

3. The areas irrigated were measured partly by a measurer specially entertained for the purpose and partly by an Inspector, when time could be spared from his ordinary work. The total cost of measurements was Rs. 19, or 1 anna per acre against 10 pies in the previous year.

Cost of measurement.

4. The working expenses amounted to Rs. 1,687, which represents a rate of Rs. 173·02 per mile of canal in operation and Rs. 5·64 per acre irrigated.

Working expenses.

5. No information regarding duty of water that would be of any value can be given, owing to failure of supply.

Duty of water.

Area applied for and irrigated.

6. The following is the comparison of areas irrigated and applied for :—

| AREA APPLIED FOR. | | | AREA IRRIGATED. | | | MORE. | | LESS. | |
|-------------------|--------|--------|-----------------|--------|--------|---------|-------|---------|--------|
| Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Kharif. | Rabi. |
| Acres. | Acres. | Acres. | Acres. | Acres. | Acres. | | | | Acres. |
| 6 | 528 | 534 | 6 | 293 | 299 | ... | ... | ... | 235 |

The difference is due to the cultivators over-estimating the areas of their fields.

7. To ascertain the loss by evaporation and leakage from the tank during the year, gaugings were taken for broken periods during April, May, June, July, August and October to March 1895, or a total number of 294 days. During this period the loss amounted to 41,942,364 cubic feet or nearly $\frac{1}{2}$ of the total capacity of the tank above outlet level.

Evaporation and leakage.

(23).—KOREGAON TANK.

The rainfall for the year under report was 23·10 inches (kharif 21·20 and rabi 1·90) against 18·80 inches (kharif 14·50 and rabi 4·30) of the previous year.

Rainfall.

2. The area irrigated during the year was 391 acres (kharif 85 and rabi 306) against 352 acres of the previous year (kharif 94 and rabi 258). The area irrigated was nearly the same as applied for.

Area irrigated.

3. The assessment on account of water-rates amounted to Rs. 1,150 against Rs. 1,006 of the previous year. The gross revenue from all sources amounted to Rs. 1,175 against Rs. 1,015 of last year.

Assessed revenue.

4. The following table compares the results with those of previous years :—

| Years. | Kharif. | Rabi. | Total. | Water-rates. | Gross Revenue. | Working expenses. | Remarks. |
|---------|---------|-------|--------|--------------|----------------|-------------------|----------|
| 1888-89 | 151 | 79 | 230 | 714 | 1,289 | 757 | |
| 1889-90 | 13 | 323 | 336 | 743 | 746 | 895 | |
| 1890-91 | 121 | 99 | 220 | 590 | 599 | 773 | |
| 1891-92 | 66 | 363 | 429 | 1,061 | 1,073 | 886 | |
| 1892-93 | 47 | 255 | 302 | 769 | 779 | 1,087 | |
| 1893-94 | 94 | 258 | 352 | 1,006 | 1,015 | 822 | |
| 1894-95 | 85 | 306 | 391 | 1,150 | 1,175 | 730 | |

The decrease of 9 acres in kharif area in 1894-95, as compared with the figures for the previous year, was small. The increase of 43 acres in rabi was due to the unfavourable rainfall in 1894-95.

5. The working expenses, including indirect charges, were Rs. 730, of which Rs. 312 were for maintenance and repairs, representing Rs. 83 per mile of canal (the length of the canal being $3\frac{3}{4}$ miles) against Rs. 94 of last year.

Working expenses.

6. The area irrigated was measured at a cost of Rs. 40, or Re. 0-1-8 per acre against Re. 0-5-4 in the previous year.

Measuring charges.

7. The rainfall over the catchment area, which is 4.4 square miles, was 22.60 inches against 18.50 inches of the previous year, and the run-off is calculated to have been 0.639 of the rainfall from June to October 1894, and 0.496 up to 13th September 1894, the date on which the waste weir began to overflow.

Tank supply.

8. The following figures show the storage and loss of water by evaporation and absorption:—

Evaporation and absorption.

C. ft.

| | |
|---|--------------------|
| Quantity of water in Tank | 207,958,010 |
| Quantity of water discharged through canal and over waste weir | 119,311,136 |
| Quantity in the Tank on 31st March 1895 | 57,161,600 |
| | <u>176,472,736</u> |
| Quantity lost by evaporation and absorption | 31,485,274 |

9. Special experiments were made to determine the duty of water required for certain crops, and the result was as under:—

Duty of water.

| Plot Number. | Name of crop. | Cubic feet of water required per acre to bring the crop to maturity. | Remarks. |
|--------------|------------------|--|----------|
| 1. | Sugarcane | 499,606 | |
| 2. | Groundnut | 115,639 | |
| 3. | Jowári | 59,740 | |

10. At the end of the year the numbers of trees above and below 5 feet on this work were as given below:—

Plantations.

| | Above 5 feet. | Below 5 feet. |
|----------------------|---------------|---------------|
| Bábul | 1,550 | 725 |
| Nimb | 5 | 5 |
| Mango | 1 | ... |
| Jámbul | 2 | 1 |
| Tamarind | 13 | ... |
| Bori | 20 | 15 |
| Miscellaneous | 107 | 87 |
| | <u>1,698</u> | <u>833</u> |
| Total | 2,531 | |

There was no expenditure incurred on plantations during the year.

(24).—ASHTI TANK.

(24).—ASHTI TANK.

1. The rainfall for the year under report was 21·70 inches (kharif 19·30 and rabi 2·40) against 23·65 inches (kharif 15·05 and rabi 8·60) of the previous year.
- Rainfall.
2. The area irrigated was 1,459 acres (kharif 645 and rabi 814) against 1,198 acres of the previous year (kharif 711 and rabi 487). The area actually irrigated was nearly the same as that applied for. The land-under command having been sub-divided into small irrigation numbers, the cultivators know the exact area of land to be irrigated.
- Area irrigated.
3. The assessment on account of water-rates was Rs. 4,717, against Rs. 3,860 of the previous year. The gross revenue from all sources amounted to Rs. 5,136 against Rs. 4,207 of the previous year.
- Assessed revenue.
4. The following statement compares the results of the year with those of the previous six years:—
- Comparison with irrigation and revenue of previous years.

| Years, | Kharif. | Rabi. | Total. | Water rate. | Gross Revenue. | Working expenses. | Remarks. |
|----------------|---------|--------|--------|-------------|----------------|-------------------|----------|
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. | |
| 1888-89 | 980 | 1,437 | 2,417 | 4,598 | 4,990 | 7,981 | |
| 1889-90 | 829 | 618 | 1,447 | 4,523 | 5,068 | 5,774 | |
| 1890-91 | 576 | 548 | 1,124 | 3,284 | 4,294 | 5,151 | |
| 1891-92 | 559 | 1,143 | 1,702 | 4,610 | 6,200 | 5,333 | |
| 1892-93 | 677 | 437 | 1,114 | 4,176 | 4,687 | 7,528 | |
| 1893-94 | 711 | 487 | 1,198 | 3,860 | 4,207 | 5,440 | |
| 1894-95 | 645 | 814 | 1,459 | 4,717 | 5,136 | 3,953 | |

5. There was an increase of 327 acres in rabi, and a decrease of 66 acres in kharif, as compared with the previous year. The former was due to unfavourable rainfall in the rabi season. The revenue from sources other than water-rates was Rs. 399, and was on account of land let out for cultivation, and grazing, and sales of bábul trees, branches and aloe leaves, &c. The incidence of water-rate per acre was Rs. 3·23, against Rs. 3·22 of the previous year.

6. The working expenses, including indirect charges, were Rs. 3,953, of which Rs. 2,079 were for maintenance and repairs, representing Rs. 70 per mile of canal against Rs. 81 in the previous year, the length of canals and distributaries being 29½ miles.

Working expenses.

7. No measuring charges were incurred, as the lands under command have been sub-divided into smaller numbers for irrigation purposes.

Measuring charges.

8. The rainfall over 92 square miles of catchment area of the tank was gauged at two stations, Ashti and Modlimb, and the average was 21·62 inches, against 21·47 inches of the previous year. The run-off into the tank is calculated to have been 118 of the rainfall from 1st June to 31st October 1894. The tank did not fill to overflowing.

Tank supply.

9. The following shows the storage of water and loss by evaporation and absorption during the year.

Evaporation and absorption.

| | | |
|--|-----|------------------|
| Total quantity of water in the Tank | ... | 12,85,281,116-95 |
| Quantity of water discharged through canals and waste weir | ... | 3,57,752,868-00 |
| Quantity in Tank on 31st March 1895 | ... | 4,96,573,716-00 |
| | | 8,54,323,604-00 |
| Quantity lost by evaporation and absorption | . | 4,30,954,512-95 |

10. The trees on the tank contour and canals, under and above 5 feet in height on 31st March 1895, were 24,320 and 12,809 respectively, and the expenditure on plantations during the year was Rs. 236. The revenue from plantations during the year was Rs. 96 realized by sale of trees. This amount has been credited under head "other canal produce."

Duty water.

11. Special experiments were made to determine the duty of water, and the result was as under :—

| Plot Number. | Name of Crop. | Quantity of water per acre required to bring the crop to maturity. | REMARKS. |
|--------------|----------------------|--|----------|
| | | Cubic feet. | |
| 1 | Sugarcane | 3,70,492 | |
| 2 | Chillies | 1,17,730 | |
| 3 | Inferior rice | 70,991 | |

(25).—REVA'RI CANAL.

The construction estimate of this canal was closed on 31st March 1893. The only expenditure that was incurred on it during the year was Rs. 49 paid by the Civil Department on account of land taken up for the extension of the canal, *vide* note explaining the differences between the sanctioned and actual expenditure under II.—Main Canal and Branches, B Land, in the completion report of the work.

Rainfall.

2. The rainfall as gauged at Revári, near the headworks, is shown in the following table :—

| Year. | Kharif. | Rabi. | Total. |
|------------------------|------------|------------|------------|
| | In. cents. | In. cents. | In. cents. |
| 1894-95 | 27 91 | 3 85 | 31 76 |
| 1893-94 | 21 95 | 4 78 | 26 73 |
| Average 1890-93 | 21 07 | 6 58 | 27 65 |

3. The area irrigated, assessments, working expenses and average water-rate, as compared with the averages of the previous four years were :—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|--------------------|---------|-------|--------|-------|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1894-95 | 342 | 3,035 | 1,199 | 3,549 | 1,541 | 6,584 | 4.27 | 1,938 |
| Average 1890-93... | 185 | 2,184 | 871 | 2,896 | 1,056 | 5,080 | 4.85 | 1,837 |
| Increase | 157 | 851 | 328 | 653 | 485 | 1,504 | ... | 101 |
| Decrease | ... | ... | ... | ... | ... | ... | 0.58 | ... |

As compared with the average of the previous four years, there is an increase of 157 acres in the kharif and 328 acres in the rabi seasons.

The latter large increase was due to crops, such as groundnuts, &c., for which water was applied for in the kharif season, having been watered in the rabi season on account of favourable rainfall in the former and insufficient rainfall in the latter season. The net increase in the water-rate assessment is Rs. 1,504 over the average of previous four years. This increase is due to the popularity and natural growth of irrigation on the canal. Remissions of Rs. 24 and 26 were granted in the kharif and rabi seasons respectively, *vide* Government Resolution No. 3610, dated 23rd August 1865. Revenue from other sources was Rs. 126, bringing the gross revenue up to Rs. 6,710.

Principal crops. 4. The principal crops irrigated during the year were as follows, compared with the previous four years:—

| | Area irrigated in 1894-95. | Average of the previous four years. |
|------------------|-------------------------------|---|
| | Acres. | Acres. |
| Sugarcane | 94 | 87 |
| Wheat | 187 | 128 |
| Groundnut | 652 | 518 |
| Jowári | 470 | 232 |

Area applied for and irrigated. 5. The area irrigated was 43 per cent. of that irrigable and 4 per cent. in excess of that applied for.

Working expenses. 6. The working expenses, including direct and indirect charges, amounted to Rs. 1,938 against Rs. 1,750 in the previous year, and were 29 per cent. of the gross revenue. The rate per mile of canal was Rs. 387, and the rate per acre irrigated was Rs. 1.26, as compared with Rs. 350 and Rs. 1.29 for the previous year.

Net profit. 7. The operations of the year show a net profit of Rs. 4,772, or 8 per cent. on the direct capital outlay of Rs. 56,582.

Cost of measurement. 8. The average water-rate and cost of measurement, as compared with the previous years, were as follows:—

| Years. | Area irrigated. | Average incidence of water-rate per Acre. | COST OF MEASUREMENT AND REVENUE ESTABLISHMENT. | |
|----------------|-----------------|---|---|-----------|
| | | | Total Cost. | Per Acre. |
| | Acres. | Rs. | Rs. | Rs. a. p. |
| 1891-92 | 887 | 5.76 | 160 | 0 3 0. |
| 1892-93 | 1,011 | 4.15 | 181 | 0 2 9 |
| 1893-94 | 1,348 | 4.64 | 217 | 0 2 7 |
| 1894-95 | 1,541 | 4.27 | 271 | 0 2 9 |

Excluding the charge for revenue establishment, the cost of crop measurement alone was Rs. 187 or Re. 0-1-11 per acre against Rs. 140 and Re. 0-1-8 per acre for 1893-94.

Duty of water. 9. The average duty of water obtained was for the kharif season 72 acres per cubic foot per second and for the rabi, 121 acres.

Plantation. 10. The number of trees of all classes on the canal at the beginning of the year was 1,828 and at the end 1,729. The net revenue from plantation was Rs. 105.

The principal varieties are Lábul 1,188, jámbul 129, and bamboo 124.

(26).—UPPER MAN RIVER WORKS.

The construction estimate of this project was closed on 31st March 1892. Closure of construction estimate. No expenditure was incurred on capital account during the year under report.

2. The rainfall, as gauged at Gondwli, the centre of the irrigated area, is shown in the following table :—

| Years. | Kharif. | | Rabi. | | Total. | |
|---------------------|---------|--------|-------|--------|--------|--------|
| | In. | cents. | In. | cents. | In. | cents. |
| 1894-95 | 15 | 28 | 4 | 90 | 20 | 18 |
| 1893-94 | 12 | 53 | 5 | 43 | 17 | 96 |
| Average 1890-93 ... | 11 | 90 | 7 | 95 | 10 | 85 |

3. The area irrigated, the assessments, working expenses and average water-rate, as compared with the averages of the previous four years, were as follows :—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|--------------------|---------|-------|--------|-------|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | Rs. | Rs. |
| 1894-95 | 614 | 4,264 | 680 | 2,411 | 1,294 | 6,675 | 5.16 | 4,239 |
| Average 1890-93... | 841 | 3,454 | 481 | 1,608 | 1,322 | 5,062 | 3.75 | 4,831 |
| Increase | ... | 810 | 199 | 803 | ... | 1,613 | 1.41 | ... |
| Decrease | 227 | ... | ... | ... | 28 | ... | ... | 592 |

As compared with the average of the previous four years, there was a decrease of 227 acres in the kharif season and an increase of 199 acres in the rabi season. The year's assessment is Rs. 1,613 more than the average of four years, but is less by Rs. 396 than that of 1893-94. This decrease is due to the fact that there were no replenishments to the Pingli Tank up to 19th July 1894, and on this account it became necessary to refuse some applications for water on the lower sections of the canal.

4. The principal crops irrigated during the year were as follows, compared with the previous four years :—

| Crops. | Area irrigated in 1894-95. | Average of the previous four years. |
|------------------|----------------------------|-------------------------------------|
| Wheat... .. | 372 | 199 |
| Jowári... .. | 218 | 218 |
| Groundnut | 170 | 281 |
| Sugarcane | 112 | 57 |

5. The area irrigated was 17 per cent. of the irrigable area and 5 per cent. Area applied for. in excess of that applied for.
6. The revenue from all other sources amounted to Rs. 100, bringing the Miscellaneous revenue. gross revenue of the year to Rs. 6,775.
7. The working expenses, including direct and indirect charges, amounted Working expenses. to Rs. 4,239 against Rs. 5,119 for 1893-94. The rate per mile of canal was Rs. 301 and per acre irrigated Rs. 3.28. The expenses amount to Rs. 62 per cent. on the gross revenue.

(27).—YERLA RIVER IRRIGATION WORKS.

8. After deducting working expenses from the gross revenue there was a net profit of Rs. 2,536, equal to a rate of 0.62 per cent. on the outlay of Rs. 4,07,421 for direct charges.

Net profit.

Cost of measurement.

9. The average water-rate and cost of measurement as compared with the previous four years were

as under :—

| Years. | Total area irrigated. | Average incidence of water-rate per Acre. | COST OF MEASUREMENT AND REVENUE ESTABLISHMENT. | |
|----------------|-----------------------|---|--|-----------|
| | | | Total Cost. | Per Acre. |
| | Acres. | | Rs. | Rs. a. p. |
| 1891-92 | 1,391 | 3.09 | 109 | 0 1 3 |
| 1892-93 | 1,039 | 2.90 | 303 | 0 4 8 |
| 1893-94 | 1,490 | 4.75 | 474 | 0 5 1 |
| 1894-95 | 1,294 | 5.16 | 414 | 0 5 1 |

Excluding the charge for revenue establishment, the cost of crop measurement alone is Rs. 175 and Re. 0-2-2 per acre against Rs. 254 and Re. 0-2-9 per acre for 1893-94.

Duty of water.

10. The average duty of water obtained was for kharif 162 acres per cubic foot per second and for rabi, 116.

Storage.

11. The following table shows the principal levels of the Pingli Tank which serves this system of

| Date. | Above M. S. L. | REMARKS. |
|--------------------------|----------------|---------------------------|
| 31st March 1894 | 2,362.19 | |
| 19th July 1894 | 2,347.99 | Lowest pre-monsoon level. |
| 22nd October 1894 | 2,371.84 | Highest monsoon level. |
| 26th Do | 2,371.19 | Level at end of monsoon. |
| 31st March 1895 | 2,363.58 | |
| Outlet sill | 2,342.09 | |
| Full supply level | 2,371.09 | |

There were no waste-weir floods over 2 feet deep during the year.

12. The number of trees of all classes on the canals at the beginning of the year was 5,245, and at its close 5,003.

The principal varieties are, bábul 4,824, jámbul 28, saundad 20, mango 17.

The net revenue from plantation was Rs. 57.

(27).—YERLA RIVER IRRIGATION WORKS.

The works of (1) reconstructing a portion of Nehr Tank Dam, (2) Nehr Tank service road, (3) Special Repairs to Nehr Store, (4) Dam drainage works and canal bed-stones, (5) Famine memorial pillar, Nehr Tank, and (6) Replacing new sluice rods, Nehr Tank, were in progress. The expenditure incurred during the year was Rs. 5,772 on "Works."

Works in progress.

2. The rainfall as gauged at Khatgun near the head of the irrigated area is shown in the following table :—

Rainfall.

| Years. | Kharif. | | Rabi. | | Total. | |
|---------------------|---------|-----|-------|-----|--------|-----|
| | In. | ct. | In. | ct. | In. | ct. |
| 1894-95 | 23 | 49 | 5 | 91 | 29 | 40 |
| 1893-94 | 18 | 98 | 6 | 50 | 25 | 48 |
| Average 1890-93 ... | 19 | 92 | 7 | 97 | 27 | 89 |

Area irrigated and assessments.

3. The area irrigated, assessments, working expenses and average water-rate, as compared with the averages of the previous four years, were as under :—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|--------------------|---------|-------|--------|-------|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1894-95 | 147 | 1,694 | 2,238 | 70 | 2,385 | 8,728 | 3.66 | 23,752 |
| Average 1890-93 .. | 700 | 3,889 | 1,263 | 3,936 | 1,963 | 7,825 | 3.98 | 6,233 |
| Increase | ... | ... | 975 | 3,098 | 422 | 903 | ... | 17,519 |
| Decrease | 553 | 2,195 | ... | ... | ... | ... | 0.32 | ... |

As compared with the average of the previous four years, there was a decrease of 553 acres in the kharif and an increase of 975 acres in the rabi season. This was due to the favourable rainfall in the kharif and to scanty rainfall in the rabi season, a portion of the area applied for in the former season having been watered in the latter. The replenishment to the Nehr Tank during the monsoon was good, and the supply would have lasted throughout the hot season, but water was let out to lower the level in the tank for replacing new rods to the sluices, causing a decrease in the perennial and hot weather irrigation. Owing to the present state of the Nehr Tank Dam and the uncertainty of a sufficient supply for perennial crops, the cultivators irrigated during the year a larger area of rabi crops, the net result being an increase of 422 acres in area and of Rs. 903 in assessment over the average results of the previous four years, and of 427 acres in area and of Rs. 1,742 in assessment over those for 1893-94. Compared, however, with 1891-92, the year before the accident to the Nehr Tank Dam occurred, the figures are as follows :—

| Years. | Kharif. | | Rabi. | | Total. | |
|----------------|---------|-------------|--------|-------------|--------|-------------|
| | Area. | Assessment. | Area. | Assessment. | Area. | Assessment. |
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. |
| 1891-92 | 915 | 5,624 | 1,332 | 3,832 | 2,247 | 9,456 |
| 1894-95 | 147 | 1,694 | 2,238 | 7,034 | 2,385 | 8,728 |

It may, from these figures, be fairly assumed that when the reconstruction of the dam has been completed, and a sufficient supply for perennial crops has been secured, the irrigation of the higher rated crops will be resumed and a corresponding increase in revenue obtained.

Remissions to the extent of Rs. 6 were granted in the rabi season, *vide* Government Resolution No. 107 W. I.—327 of 22nd August 1877. The revenue from other sources was Rs. 963 and the gross revenue Rs. 9,691.

Principal crops. 4. The principal crops irrigated during the year were as follows, compared with the previous four years :—

| Crops. | Area irrigated in 1894-95. | Average of the previous four years. |
|------------------|----------------------------|-------------------------------------|
| Groundnut | 859 | 789 |
| Jowári... .. | 709 | 436 |
| Wheat... .. | 294 | 284 |
| Sugarcane | 68 | 60 |

5. The area irrigated was 22 per cent. of that irrigable, and 11 per cent. in excess of that for which applications were received.

6. The revenue account of the year is a little complicated by the special charges for reconstruction of the Nehr Dam ordered by Government to be made against revenue, under Code II, IX, 13. These special charges and the revenue charges proper of the year are shown below :—

| | Special charges. | Working expenses proper. | Total. |
|-------------------------------------|------------------|--------------------------|--------|
| | Rs. | Rs. | Rs. |
| Works... .. | 13,647 | 3,866 | 17,513 |
| Establishment | 3,829 | 1,255 | 5,084 |
| Tools and Plant | 112 | ... | 112 |
| Collection | ... | 331 | 331 |
| Leave and Pension Allowances | 536 | 176 | 712 |
| Total | 18,124 | 5,628 | 23,752 |

Thus the working expenses proper amounted to Rs. 5,628, as against Rs. 5,964 for the previous year, showing a reduction of Rs. 336. *

As the gross assessed revenue amounted to Rs. 9,691, there would, but for the exceptional and special outlay on the reconstruction of the Nehr Tank Dam, have been a net surplus revenue of Rs. 4,063.

Cost of measurement. 7. The average water-rate and cost of the measurement, as compared with the previous three years, were :—

| Years. | Total area irrigated | Average incidence of water-rate per acre. | COST OF MEASUREMENT AND REVENUE ESTABLISHMENT. | |
|----------------|----------------------|---|--|-----------|
| | | | Total cost. | Per acre. |
| | Acres. | | Rs. | Rs. a. p. |
| 1891-92 | 2,247 | 4.21 | 303 | 0 2 2 |
| 1892-93 | 1,831 | 3.48 | 466 | 0 4 1 |
| 1893-94 | 1,958 | 3.57 | 527 | 0 4 4 |
| 1894-95 | 2,385 | 3.66 | 556 | 0 3 8 |

Excluding the charge for the revenue establishment, the cost of crop measurement alone was Rs. 216 and Re. 0-1-5 per acre against Rs. 212 and Re. 0-1-9 per acre, for 1893-94.

Duty of water.

8. The average duty of water obtained was for kharif 21 acres per cubic foot per second, and for rabi 107.

Storage.

9. The following table shows the principal levels of Nehr Tank :—

| Date. | M. S. L. | REMARKS. |
|--------------------------|----------|---|
| 31st March 1894 | 2,650.98 | Lowest pre-monsoon level. Highest monsoon level. Level at end of monsoon. |
| 1st June 1894 | 2,640.24 | |
| 24th October 1894 | 2,660.12 | |
| 25th Do. | 2,659.72 | |
| 31st March 1895 | 2,648.51 | |
| Outlet sill | 2,634.02 | |
| Full supply level | 2,666.02 | |

There were no waste-weir floods over 2 feet deep during the year.

Plantations.

10. The number of trees of all classes on the canal at the beginning of the year was 22,167, and that at its close 30,715.

The principal varieties are bábul 24,476, mango 3,212, karanj 539, and bamboo 332. The net revenue from plantation was Rs. 784.

(28).—CHIKHLI CANAL.

Closure of construction estimate.

The construction estimate of this canal was closed on 31st March 1883.

Rainfall.

2. The rainfall, as gauged at Chikhli near the head of the irrigated area, is shown in the following table :—

| Year | Kharif. | | Rabi. | | Total. | |
|------------------------|---------|--------|---------|--------|---------|--------|
| | Inches. | Cents. | Inches. | Cents. | Inches. | Cents. |
| 1894-95 | 15 | 09 | 4 | 93 | 20 | 02 |
| 1893-94 | 15 | 64 | 5 | 60 | 21 | 24 |
| Average 1890-93 | 15 | 76 | 7 | 73 | 23 | 49 |

3. The area irrigated, assessments, working expenses and average water-rate, as compared with the averages of the previous four years, were as follows :—

| Year. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|------------------------|---------|-------|--------|-----|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1894-95 | 147 | 1,061 | 258 | 916 | 405 | 1,977 | 4.88 | 874 |
| Average 1890-93 | 295 | 1,425 | 65 | 261 | 360 | 1,686 | 4.69 | 829 |
| Increase | ... | ... | 193 | 655 | 45 | 291 | 0.19 | 45 |
| Decrease | 148 | 364 | ... | ... | ... | ... | ... | ... |

There was a decrease, as compared with the average in kharif revenue of Rs. 364, and in area irrigated of 148 acres. In rabi, there was an increase of Rs. 655 in revenue and 193 acres in area irrigated. The reason for this is that on account of favourable rainfall in the kharif season, some of the principal crops, such as groundnuts, &c., did not require water in that season, but were afterwards watered in the rabi season on account of insufficient rainfall in that season. The net increase in the water-rate assessment is Rs. 291 over the average of previous four years.

Principal crops. 4. The principal crops irrigated during the year were as follows, compared with the previous four years :—

| Names of Crops. | Area irrigated in 1894-95. | Average of the previous four years. |
|------------------|----------------------------|-------------------------------------|
| | Acres. | Acres. |
| Groundnut | 191 | 181 |
| Wheat | 36 | 27 |
| Jowári | 51 | 37 |
| Sugarcane | 34 | 24 |

5. The area irrigated was 27 per cent. of the irrigable area and 18 per cent. Area applied for. more than that for which applications were received.

Miscellaneous revenue. 6. Revenue from other sources was Rs. 63 and the gross revenue amounted to Rs. 2,040.

7. The working expenses, including direct and indirect charges, were Rs. 874. The expenses amounted to 43 per cent. on the gross revenue and to Rs. 134 per mile of canal open and Rs. 2.16 per acre irrigated.

8. The operations of the year show a net profit of Rs. 1,166, or 2 per cent. Net profit. on the direct capital outlay of Rs. 53,803.

Cost of measurement. 9. The average water-rate and cost of measurement as compared with previous three years were :—

| Years. | Total Area irrigated. | Average incidence of water-rate per Acre. | COST OF MEASUREMENT AND REVENUE ESTABLISHMENT. | |
|----------------|-----------------------|---|--|-----------|
| | | | Total Cost. | Per Acre. |
| | | | Rs. | Rs. a. p. |
| 1891-92 | 375 | 4.10 | No change this year. | |
| 1892-93 | 269 | 4.65 | 62 | 0 3 8 |
| 1893-94 | 370 | 5.43 | 113 | 0 4 10 |
| 1894-95 | 405 | 4.88 | 120 | 0 4 9 |

Excluding the charge of revenue establishment, the cost of the measurement alone was Rs. 36 and Rs. 0-1-7 per acre against Rs. 36 and 0-1-7 per acre for 1893-94.

10. The average duty of water obtained was for the kharif season, 33 acres. Duty of water. per cubic foot per second and for the rabi 43 acres.

11. The number of all classes of trees on the canal at the beginning of the year was 2,685 and at its close 2,763.

The principal varieties are bábul 2,519, mango 140, nimb 34.

The net revenue from plantation was Rs. 63.

(29).—MAINI TANK CANAL.

Closure of construction
estimate.

The construction estimate of this canal was closed
on 31st March 1892.

2. The rainfall, as gauged at Maini at the head of the irrigated area, is shown in the following table:—

| Year. | Kharif. | | Rabi. | | Total. | |
|---------------------|---------|--------|-------|--------|--------|--------|
| | Inch. | cents. | Inch. | cents. | Inch. | cents. |
| 1894-95 | 12 | 31 | 2 | 12 | 14 | 43 |
| 1893-94 | 11 | 54 | 4 | 02 | 15 | 56 |
| Average 1892-93 ... | 16 | 84 | 7 | 56 | 24 | 40 |

3. The area irrigated, assessments, working expenses and average water-rate, as compared with the average of the previous four years, were as follows:—

| Year. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|---------------------|---------|-------|--------|-------|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1894-95 | 272 | 1,760 | 1,008 | 3,331 | 1,280 | 5,091 | 3-98 | 3,827 |
| Average 1890-93 ... | 1,003 | 5,091 | 465 | 1,726 | 1,468 | 6,817 | 4-64 | 8,602 |
| Increase | ... | ... | 543 | 1,605 | ... | ... | ... | ... |
| Decrease | 731 | 3,331 | ... | ... | 188 | 1,726 | 66 | 4,775 |

The kharif area irrigated during the year was less by 731 acres and the rabi greater by 543 acres than the average irrigated during the previous four years. The assessment during the year is less than that of the average of the past four years by Rs. 1,726. The reason for this decrease is the same as was reported in the revenue report for 1893-94, that is insufficient rainfall and the accumulation of silt in the tank, now 14 feet higher than the outlet sill. Unless the contents of the tank are increased there will be no growth of irrigation on this canal. Enquiries are proceeding as to whether anything can be done.

4. The principal crops irrigated during the year were as follows, compared with the previous four years:—

| | Area irrigated in 1894-95. | Average of the previous 4 years. |
|------------------|----------------------------|----------------------------------|
| Sugarcane | 40 | 74 |
| Wheat... .. | 132 | 173 |
| Groundnut | 566 | 525 |

5. The area irrigated was 27 per cent. of the irrigable area under command of the canal and 11 per cent. in excess of that applied for.
6. The revenue from other sources amounted to Rs. 515 and the gross Miscellaneous revenue. revenue to Rs. 5,606.
7. The working expenses, including direct and indirect charges, amounted to Rs. 3,827 or Rs. 227 per mile for canal open Rs. 2-99 per acre irrigated and about 63 per cent. of the gross revenue.

(30).—MUCHKUNDI TANK.

Net profit.

8. The operations of the year show a net profit of Rs. 1,779.

9. The average water-rate and cost of measurement, as compared with previous three years, were as under :—

| Years, | Total area irrigated. | Average incidence of water rate per acre. | COST OF MEASUREMENT AND REVENUE ESTABLISHMENT. | |
|----------------|-----------------------|---|--|-----------|
| | | | Total Cost. | Per Acre. |
| | Acres. | | Rs. | Rs. a. p. |
| 1891-92 | 1,687 | 4.74 | 237 | 0 2 3 |
| 1892-93 | 1,101 | 4.46 | 419 | 0 6 1 |
| 1893-94 | 1,359 | 4.81 | 532 | 0 6 3 |
| 1894-95 | 1,280 | 3.98 | 440 | 0 5 6 |

Excluding the charge for revenue establishment, the cost of crop measurement alone was Rs. 224 and Re. 0-2-9 per acre against Rs. 334 and Re. 0-3-11 per acre for 1893-94.

10. The average duty of water obtained for the kharif season was 82 acres Duty of water. per cubic foot per second and for the rabi season, 139.

Storage.

11. The following table shows the principal levels of the Maini Tank :—

| Date. | Above M. S. L. | REMARKS. |
|----------------------------|----------------|---------------------------|
| 31st March 1894 | 2,289.94 | |
| 3rd June 1894 | 2,287.14 | Lowest pre-monsoon level. |
| 30th September 1894 | 2,300.57 | Highest monsoon level. |
| 25th October 1894 | 2,300.08 | Level at end of monsoon. |
| 31st March 1895 | 2,291.02 | |
| Outlet sill | 2,269.32 | |
| Full supply level | 2,300.52 | |

The average depth of sill above the outlet sluice is 14 feet. There was only one waste-weir flood nearly 2 feet deep during the year.

12. The number of trees of all classes on the canal at the beginning of the year was 9,681 and at its close 8,800. The net revenue from plantation was Rs. 493.

Plantation.

(30).—MUCHKUNDI TANK.

1. The rainfall of the year compares with that of the previous year and with the average of the 10 previous years as under :—

Rainfall.

| | Kharif | Rabi. | Total. |
|-------------------------|--------|-------|--------|
| Average of 10 years ... | 12.38 | 8.38 | 20.76 |
| 1893-94 | 10.68 | 10.88 | 21.56 |
| 1894-95 | 13.22 | 4.65 | 17.87 |

Area irrigated and assessments.

2. The areas irrigated and assessed revenues of the past 3 years are shown below:—

| Years. | AREAS IRRIGATED. | | | ASSESSMENTS. | | |
|----------------|------------------|---------|--------|--------------|-------|--------|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Acres. | Ac res. | Acres. | Rs. | Rs. | Rs. |
| 1892-93 | 3 | ... | 3 | 25 | ... | 25 |
| 1893-94 | 10 | 2 | 12 | 54 | 6 | 60 |
| 1894-95 | 16 | 3 | 19 | 82 | 7 | 89 |

In 1891-92, when the rain almost entirely failed during the rabi season, there were 200 acres irrigated, but that was an exceptional year. Since then the tank irrigation has very slowly been increasing as seen from the above figures.

3. Besides water-rates, the sum of Rs. 200 was realized under miscellaneous revenue from the sale of grass within the tank limits.

4. Working expenses amounted to Rs. 566 as against Rs. 387 last year the increase being due to a small survey during the year for enlarging the catchment area of the tank.

5. There was ample supply in the tank throughout the year for the small area under irrigation. At the end of the monsoon the tank held 14.64 feet of water. The run-off during the year into the tank amounted to 0.165, or almost exactly one-sixth of the rainfall.

6. The total number of trees and plants on the main and branch canals was 753, consisting of bábul 722, nimb 28 and tamarind 3. The bábul are mostly fair-sized trees, the others are only small plants.

(31).—NILGUND TANK.

An expenditure of Rs. 20 was incurred on this work only for clearing prickly pear on the dam. No other work has been carried out. There is no irrigation under this tank, as in accordance with Government Resolution No. $\frac{98 \text{ W. I.}}{1,141}$ of 17th July 1894 the sluice is left full open in order that the water may not rise above sluice level.

(32).—GADIKERI TANK.

1. The management of this tank is under the control of the Revenue Department

2. The rainfall of the year was 28.53 inches, almost exactly the average (28.63) for the last 27 years, gauged at Sampgaon six miles from the tank.

3. The area irrigated was 337 acres and the irrigation share of the consolidated revenue amounted to Rs. 1,987.

4. The working expenses, direct and indirect, amounted to Rs. 236 against Rs. 304 of the previous year.

5. After deducting working expenses the net revenue amounted to Rs. 1,751, which represents a return of 18.87 per cent. per annum on the gross capital outlay of Rs. 9,279.

This small work was carried out for the relief of famine in 1876-77, and has financially been most successful.

(33).—DAMBAL TANK.

The rainfall of the year was considerably less than that of the last year. It was 12.98 inches (during the kharif 8.22 and during rabi 4.76) against 20.37 inches of the previous year.

The average total fall of the previous 10 years was 20.73 inches.

2. At the beginning of the year there was a depth of 6 feet of water in the tank. It fell to 4.38 on the 26th April 1894, when the first replenishment occurred. On the 26th October the greatest storage was reached, namely 9.65 feet above the bed of the tank. The tank ran dry on the 31st March 1895.

3. The new area irrigated, assessment, working expenses and average water-rate, as compared with the two previous years, were:—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|---------|---------|-----|--------|-----|--------|-----|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1892-93 | 261 | 272 | 54 | 115 | 315 | 387 | 1.23 | 571 |
| 1893-94 | 110 | 629 | 17 | 50 | 127 | 679 | 5.35 | 560 |
| 1894-95 | 98 | 624 | 74 | 261 | 172 | 885 | 5.15 | 918 |

The increase of 45 acres in the area irrigated, as compared with that of the previous year, was due to the scanty later rainfall of the year under report. 143 acres were irrigated under consolidated rates bearing assessment (irrigation revenue) of Rs. 982. The total revenue from both these sources, amounted to Rs. 1,867, giving an incidence of Rs. 5.15 and Rs. 6.87 per acre for new and old irrigation, respectively.

4. In addition to the above revenue a sum of Rs. 204 was derived from sale of grass, trees, &c., in this Department, and Rs. 321 in the Revenue Department, on account of other canal produce, making a total of Rs. 525 under this miscellaneous head.

5. The tank revenue from all sources thus amounted to Rs. 2,193, and after deducting the direct and indirect working expenses, Rs. 918, there was a net profit of Rs. 1,295 equal to 2.10 per cent. on the direct capital outlay of Rs. 60,844.

6. The average water duty per cubic foot per second was during the kharif season 143 acres and during the rabi season 54 acres.

(34).—MEDLERI TANK.

Rainfall.

The rainfall of the year was—

Kharif .. 2.64
Rabi ... 6.65

Total ... 9.29

as compared with 14.98 inches of the previous year, the average fall of the previous 10 years being 21.39 inches.

2. At the commencement of the year the water level was 8.52 above the outlet sluices. The highest level reached was 10.25 feet on the 31st May 1894, after which date it fell steadily, and the tank became dry on 18th February 1895.

3. The area irrigated, the assessment, working expenses and average water-rate, as compared with the two previous years, were:—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|---------|---------|-----|--------|-----|--------|-----|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1892-93 | 76 | 269 | 19 | 68 | 95 | 337 | 3.55 | 600 |
| 1893-94 | 75 | 283 | 21 | 127 | 96 | 410 | 4.27 | 527 |
| 1894-95 | 100 | 361 | 37 | 116 | 137 | 477 | 3.48 | 835 |

4. It will be seen from the above figures that there was an increase in the area irrigated and the revenue assessed, as compared with the previous year. The increase was due to the failure of rainfall of the year.

Miscellaneous revenue. 5. Amount of miscellaneous receipts was Rs. 16, the total revenue from all sources was, therefore, Rs. 493.

Duty of water. 6. The average duty of water per cubic foot per second during the kharif was 238 acres and during the rabi 119 acres.

(35).—MADAG TANK.

The rainfall of the year (during kharif 11·72 inches and rabi 8·02 inches) was 19·74 inches against 25·31 inches of the previous year. The average rainfall of the previous 10 years was 28·99 inches.

Area irrigated and assessment. 2. The area irrigated, water assessment, the working expenses, and average water-rate, as compared with the two previous years, were :—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|-------------|---------|-------|--------|-------|--------|-------|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1892-93 ... | 359 | 1,081 | 382 | 1,134 | 741 | 2,215 | 2·99 | 1,050 |
| 1893-94 ... | 318 | 796 | 374 | 1,096 | 692 | 1,892 | 2·73 | 920 |
| 1894-95 ... | 589 | 1,274 | 335 | 965 | 924 | 2,239 | 2·42 | 1,687 |

The increase of 232 acres in the area irrigated, as compared with that of the previous year, was due to the insufficient rainfall of year.

Miscellaneous revenue. 3. In addition to the above revenue Rs. 308 were realized on account of sale of grass, trees, &c., making a total revenue of Rs. 2,547 or Rs. 386 in excess of that of the previous year.

Plantation. 4. The total number of trees on the canals is 3,052, consisting chiefly of mango, bábul nimb, sandal and tamarind.

Net profit. 5. Deducting Rs. 1,687, the amount of working expenses, direct and indirect, from the amount of the total revenue derived from the tank this year, there is a net profit of Rs. 860, equal to about $\frac{1}{2}$ per cent. on the direct capital outlay of Rs. 1,61,243.

Duty of water. 6. The average water duty per cubic foot per second was during the kharif season 120 acres and during the rabi season 48 acres.

(36).—ASUNDI TANK.

The rainfall of the year was during kharif 7·07 inches and rabi 6·42 inches, total 13·49 inches against 23·51 inches of the previous year. The average fall for the previous 10 years was 24·44 inches.

Storage. 2. The tank received replenishments in the last week of April, and it filled on the 19th of May and water flowed over the weir crest till 21st idem. The water level then gradually fell, but the tank again filled on 5th and 6th of June. After that the water level stood between 10 and 7·88 above the outlet sluices till 22nd of October,

62 (37).—MA'VINKOP TANK ;(38).—GOKA'K CANAL, 1ST SECTION, AND STORAGE WORKS.

and then fell steadily owing to the demand for canal water for irrigation purposes on account of scanty rainfall, and there was no water in the tank on 31st March 1895.

Area irrigated and assessment.

3. The area irrigated, assessment, working expenses and average water-rate, as compared with the two previous years, were :—

| Years. | Kharif. | | Rabi. | | Total. | | Average water-rate. | Working expenses. |
|-------------|---------|-----|--------|-----|--------|-----|---------------------|-------------------|
| | Acres. | Rs. | Acres. | Rs. | Acres. | Rs. | | |
| 1892-93 ... | 46 | 196 | 18 | 120 | 64 | 316 | 4.19 | 1,162 |
| 1893-94 ... | 60 | 175 | 25 | 116 | 85 | 291 | 3.42 | 791 |
| 1894-95 ... | 112 | 476 | 99 | 303 | 211 | 779 | 3.69 | 909 |

The above figures show a considerable increase in the area irrigated, and the water-rates assessed over those of the previous year or any other year since 1884-85. The increase was due to scanty rainfall.

4. In addition to the above, 185 acres, with an irrigation revenue of Rs. 632, were irrigated under old irrigation with the amount of Re. 1 as miscellaneous receipts.

5. The total amount of revenue was Rs. 1,412, and the working expenses direct and indirect amounted to Rs. 909, leaving a net profit of Rs. 503 on the operations of the year, or equal to 0.83 per cent. on the direct capital outlay of Rs. 60,741.

6. The average water duty per cubic foot per second was during kharif season 62 acres, and during rabi season 149 acres.

(37).—MA'VINKOP TANK.

Water distribution, &c., under this tank is managed by the cultivators concerned under the control of the Revenue Department.

2. The area irrigated, all kharif, was 492 acres with a consolidated assessment of Rs. 1,265, which is the same as that of the previous year. Four-fifths or Rs. 1,012 were credited for water share. Rs. 5 were realized on account of miscellaneous receipts, the total revenue from the tank, therefore, amounted to Rs. 1,017.

3. The Collector of Kánara, in his No. 3104 of 18th June 1895, stated that new rates have been assessed on the lands irrigated by the tank water, which are to come into force in 1895-96. They are as follows :—

| | Dry crop. | | Rice. | | Total. |
|------------------|-----------|-------------|-------------|-------------|--------|
| | Area. | Assessment. | Area. | Assessment. | |
| | A. g. | Rs. a. | A. g. | Rs. a. | |
| New Akarband ... | 520 15 | 225 6 | 616 23 | 2,395 10 | 2,621 |
| Old do. ... | 647 26 | 302 15 | 488 10 | 1,275 2 | 1,575 |
| | | | Increase .. | | 1,043 |

This is additional revenue due to the improvement of the tank.

(35).—GOKA'K CANAL, 1ST SECTION, AND STORAGE WORKS.

The capital expenditure, including direct and indirect charges, during the year was Rs. 18,395, and the total outlay up to the end of the year was Rs. 11,94,876 against the estimated amount of Rs. 12,33,013. The principal items of the year's outlay on works only were Land Compensation (Rs. 471), Extension of Gokák Canal, 1st Section, (Rs. 1,857), and Improving Konur Ford (Rs. 1,222).

The short extension of the canal sanctioned in Government Resolution No. 151 W.I.—1940, dated 21st December 1894, was finished soon after the close of the year. It will add 1,030 acres to the present irrigable command of 6,170 acres.

Rainfall. 2. The rainfall gauged at the head of the canal compares with the average of the last ten years and with fall of 1893-94, as under :—

| | | Average of ten years. | 1893-94. | 1894-95. |
|--------|-----|-----------------------|----------|----------|
| | | Inches. | Inches. | Inches. |
| Kharif | ... | 12.62 | 10.61 | 8.25 |
| Rabi | ... | 9.16 | 13.50 | 5.65 |
| Total | ... | 21.78 | 24.11 | 13.90 |

It will be seen that there was a decrease of 2.36 inches in the kharif and 7.85 inches in the rabi, as compared with last year. The total fall was less by 7.88 inches than the average, and not much more than half the fall of the previous year.

3. The lowest level of storage in the hot weather of 1894 was on 21st March when the tank level was 17.50 feet above the sill of the canal sluice. On the 19th May the tank was again at about the same level, but it then quickly filled to overflowing. The late rain failed, and storage began to be drawn upon on the unusually early date of 19th December. There was some anxiety, whether the supply to the mills and to the canal would last out through the season, but happily a freshet in the river gave relief on the 11th April 1895, on which date there was only a depth of 15½ feet in the tank, equal to about 25 days' supply. After the replenishment, there was no further cause for anxiety.

The maximum flood occurred on the 20th July, rising 3.70 feet above the weir crest, representing a volume of 73,000 cubic feet per second and a run-off of 0.10 inches from the catchment area of the river of 1,080 square miles.

4. The following table compares the areas irrigated and water-rate assessments of the year with the average of the last three years, since the works were completed in the hot weather of 1891 :—

| Years. | AREA IRRIGATED. | | | ASSESSMENT. | | |
|-------------|-----------------|--------|--------|-------------|-------|--------|
| | Kharif. | Rabi. | Total. | Kharif. | Rabi. | Total. |
| | Acres. | Acres. | Acres. | Rs. | Rs. | Rs. |
| 1891-92 ... | 3,629 | 2,371 | 6,000 | 6,160 | 5,281 | 11,441 |
| 1892-93 ... | 2,821 | 1,027 | 3,848 | 7,139 | 2,218 | 9,357 |
| 1893-94 ... | 3,014 | 1,223 | 4,237 | 8,509 | 3,120 | 11,629 |
| Average ... | 3,155 | 1,540 | 4,695 | 7,269 | 3,540 | 10,809 |
| 1894-95 ... | 3,038 | 1,325 | 4,363 | 8,507 | 3,408 | 11,915 |

Area.—The kharif area was about equal to that of last year. In the rabi season there was an increase of 102 acres over that of the previous year due to short rainfall.

The area irrigated during the hot weather was 34 acres against 43 in the previous year.

No applications for perennial crops were refused during the year. The irrigated area (4,363 acres) amounted to 71 per cent. of the entire irrigable area (6,170) acres of the canal, so far as it was then constructed. In 1895-96 the

irrigable area under command will have been increased to 7,200 acres by the completion of the short extension of canal alluded to in the first para. *ante*.

Assessment.—The kharif assessments were the same as last year, but show a substantial increase over the average of the three previous years. The increase of Rs. 288 in the rabi over that of last year was mostly due to the 102 acres additional area.

No remissions were granted during the year.

5. The average water-rate per acre irrigated was 2·73, or practically the same as that of last year.

6. The realizations of the year amounted to Rs. 16,780, including Rs. 4,920 paid by the Mill Company. There were no outstandings.

7. In addition to water-rates the following miscellaneous revenue was derived by the canal:—

| | | | | |
|---------------------------|-----|-----|-----------|-------|
| | | | | Rs. |
| Water supply to the Mills | ... | ... | ... | 4,920 |
| Sale of canal produce | ... | ... | ... | 232 |
| | | | Total ... | 5,152 |

The assessment for the continuous supply of 47 cubic feet per second to the mills was Rs. 9,840, but half of this sum had been paid in advance last year (see para. 9, page 62 of the printed Irrigation Revenue Report for 1893-94), so that the actual realization of the year for water power was Rs. 4,920 only.

8. The total assessed revenue of the year was therefore:—

| | | | | |
|---------------|-----|-----|-----------|--------|
| | | | | Rs. |
| Water-rates | ... | ... | ... | 11,915 |
| Water power | ... | ... | ... | 9,840 |
| Canal produce | .. | ... | ... | 232 |
| | | | Total ... | 21,987 |

9. The working expenses, including direct and indirect charges, compare as under for the last four years, being the period in which the present works have been in operation:—

| Particulars. | 1891-92. | 1892-93. | 1893-94. | 1894-95. |
|------------------------------|----------|----------|----------|----------|
| Works | 2,626 | 2,654 | 2,439 | 2,416 |
| Establishment | 1,501 | 1,650 | 1,587 | 1,859 |
| Tools and Plant | 199 | 302 | 282 | 300 |
| Refund of Revenue | 10 | 14 | ... | 24 |
| Collection | 837 | 867 | 1,522 | 827 |
| Leave and Pension Allowances | 210 | 231 | 222 | 260 |
| Total | 5,383 | 5,718 | 6,052 | 5,686 |

The outlay on works was the same as last year. Establishment cost Rs. 272 more in consequence of the new rules directing a debit of share of Subordinate Establishment to revenue management. Collection charges were less by Rs. 295 than last year, and the whole cost of working was Rs. 366 less.

Cost of working per mile of canal and per acre irrigated.

10. The cost of working was:—

| Years. | Per mile of Canal. | Per acre irrigated. |
|---------|--------------------|---------------------|
| 1891-92 | 2,051 | ·89 |
| 1892-93 | 2,178 | 1·49 |
| 1893-94 | 2,303 | 1·43 |
| 1894-95 | 2,166 | 1·30 |

The high cost per mile is misleading as in consequence of the falls (200 feet high) just below the main weir, the canal in a length of only $2\frac{5}{8}$ miles attains its present command of 7,200 acres irrigable land. At $2\frac{1}{2}$ miles the canal gives off its first and at present its only great branch to Wadarhatti. With the canal only constructed for the 1st section, this Wadarhatti Branch is virtually the main Canal, and if its length, 12 miles, be added, to the $2\frac{5}{8}$ miles of canal proper, the working expenses per mile of canal become $\frac{6,636}{14\frac{5}{8}} = \text{Rs. } 390$.

The cost of working per acre irrigated is seen to be rather less than in the two previous years.

11. The following table compares the gross assessed revenue with the working expenses for the last four years:—

| Years | Gross assessed revenue. | Working expenses. | Per cent. | Surplus revenue. |
|---------|-------------------------|-------------------|-----------|------------------|
| 1891-92 | 19,317 | 5,383 | 27.9 | 13,934 |
| 1892-93 | 19,340 | 6,718 | 29.6 | 13,622 |
| 1893-94 | *21,665 | 6,052 | 35.8 | 15,613 |
| 1894-95 | 21,987 | 5,686 | 25.9 | 16,301 |

* Excludes Rs. 4,920 paid in advance for 1894-95.

The working expenses as seen from this table compare very favourably with those of any of the previous years, the percentage to assessed revenue being only 25.9, as compared with 27.9, the lowest on record since the completion of the works.

After deducting working expenses from the assessed revenue of the year, there remains a surplus of Rs. 16,301, which represents a net return of nearly $1\frac{1}{2}$ per cent. on the whole capital outlay (Rs. 11,94,876) to end of the year, direct and indirect. In the case of so young a canal, this is a very favourable and promising result. The current water-rates last till 1897-98 inclusive, when they will be again considered, and there is little doubt that the rates can then be substantially increased without in any way prejudicially affecting the popularity of this canal. Moreover, the increased command of 1,030 acres (irrigable) secured by the extension of the canal (see para. I) will in a year or two add sensibly to the favourable results already attained.

12. The quantity of water given out during the year to the Mills Company remained as before at 47 cubic feet per second continuous supply night and day. During 1895-96 the company have applied for an increased supply up to 58 cubic feet per second continuous flow.

13. The area irrigated was measured by a special establishment consisting of one measurer and the required number of khalásis. The cost of measurement was Rs. 749 equal to Re. 0-2-9 per acre irrigated against Rs. 772 equal to Re. 0-2-10 of the previous year.

14. The duty of water was 238 acres in the kharif and 144 acres in the rabi season per cubic foot per second. The former very high duty is due to the fact that although the rainfall was below the average, the periods during which the rain fell were so timely and convenient for the crops, that the ordinary discharge from the canal was not required. The same reason influenced the duty of rabi, but to a less extent.

15. The number of existing trees during the year was 7,134, consisting chiefly of bábul 6,500, nimb 147, shemi 133, tam-arind 80, banian 76, pimpri 64 and mango 54. Of the total number about half are over 6 feet in height, and the remainder are seedlings from 2 feet high upwards.

PART II.

WORKS IN OPERATION FOR WHICH ONLY REVENUE ACCOUNTS ARE KEPT.

1. The following table shows the areas irrigated in the different districts in the Deccan and Gujarát and the consolidated revenue assessed during the year :—

| Collectorates. | Number of works. | Area irrigated. | REVENUE. | | | REMARKS. |
|----------------|------------------|-----------------|-------------------|-------------|----------|---|
| | | | Irrigation share. | Land share. | Total. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | Acres. | Ra. | Rs. | Rs. | |
| Ahmedabad ... | 66 | 10,802 | 21,948 | 29,128 | 51,076 | * Figures of 1893-94. Information for 1894-95 not available on the records of the Collector of Kaira. |
| Kaira ... | 2 | 7,992 | 27,916 | 11,361 | 39,277 | |
| Surat ... | 290 | 12,365 | 49,391 | 1,17,154 | 1,66,545 | † In charge of the Khándesh Irrigation District. |
| Broach ... | 28 | 905 | 3,027 | 4,739 | 7,766 | |
| Khándesh ... | 83 | 9,188 | 58,782 | 12,670 | 71,452 | |
| Násik ... | 191 | 17,817 | 80,804 | 26,002 | 1,06,806 | |
| Ahmednagar ... | 2 | 147 | 353 | 132 | 485 | |
| Poona ... | 3 | 515 | 2,857 | 1,015 | 3,872 | |
| Sátára ... | 1 | 100 | 623 | 415 | 1,038 | |
| Belgaum ... | 67 | 9,910 | 33,049 | 8,255 | 41,304 | |
| Dhárwar ... | 474 | 60,746 | 1,72,894 | 43,221 | 2,16,115 | |
| Bijápúr ... | 17 | 1,440 | 5,924 | 1,474 | 7,398 | |
| Ratnágiri ... | 4 | 1,349 | 3,664 | 2,798 | 6,462 | |
| Total ... | 1,308 | 1,43,907 | 5,41,852 | 2,70,135 | 8,11,987 | ‡ Net consolidated assessment for the Revenue year 1894-95. |

2. The following table shows the actual expenditure and receipts for the year 1894-95 on all the irrigation works in the Deccan and Gujarát for which only Revenue Accounts are kept :—

| Collectorate. | EXPENDITURE. | | | | | | | | ACTUAL RECEIPTS. | | | | | Refunds of Revenue. | Gross Receipts less refunds. |
|----------------|------------------------------|--------------------------|----------------|--------|------------------|-----------------------|-------------------|--------------|------------------------------|----------------|------------------------|--------------------|---|---------------------|------------------------------|
| | Direct Charges. | | | | | | Indirect charges. | Grand Total. | Direct Receipts. | | | Indirect Receipts. | Grand Total Direct and Indirect Receipts. | | |
| | Extensions and Improvements. | Maintenance and Repairs. | Establishment. | | Tools and Plant. | Total Direct Charges. | | | Water Rates from Irrigation. | Miscellaneous. | Total Direct Receipts. |  |  |  |  | Share of Consolidated Revenue. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | Ra. | Rs. | Ra. | Rs. | Rs. | Ra. | Rs. | Ra. | Ra. | Rs. | Ra. | Rs. | Ra. | Rs. | Ra. |
| Ahmedabad ... | 446 | 1,703 | 272 | 1,216 | 115 | 7,046 | 2,195 | 9,242 | ... | ... | ... | 21,948 | 21,948 | ... | 21,948 |
| Kaira ... | 72 | 8,222 | ... | ... | ... | ... | ... | ... | ... | 47 | 426 | 27,916 | 28,342 | ... | 28,342 |
| Surat ... | 13,761 | 13,316 | 1,359 | 5,509 | 408 | 136,060 | 4,973 | 141,033 | ... | 678 | 678 | 49,391 | 49,969 | ... | 49,969 |
| Broach ... | 648 | 839 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,027 | 3,027 | ... | 3,027 |
| Násik ... | 6,315 | 267 | 1,254 | 16,556 | 194 | 24,696 | 9,000 | 33,764 | 74 | 4 | 79 | 80,804 | 80,882 | ... | 80,882 |
| Khándesh ... | 12,117 | 6,159 | 6,023 | 26,534 | 805 | 64,871 | 5,191 | 70,040 | 1,260 | ... | 1,260 | 80,820 | 81,910 | ... | 81,910 |
| Ahmednagar ... | 13,067 | 2,146 | ... | ... | ... | ... | ... | ... | ... | 129 | 129 | 59,732 | 60,911 | ... | 60,911 |
| Poona ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Sátára ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Belgaum ... | 945 | 2,641 | 178 | 611 | 300 | 4,705 | 2,305 | 8,010 | ... | ... | ... | 23,040 | 23,040 | ... | 23,040 |
| Dhárwar ... | 15,243 | 35,209 | 2,641 | 30,445 | 1,909 | 67,697 | 17,431 | 1,06,218 | 524 | 1,536 | 2,060 | 1,72,894 | 1,74,954 | ... | 1,74,954 |
| Bijápúr ... | 67 | 803 | 47 | 177 | 14 | 1,100 | 602 | 1,769 | ... | 62 | 62 | 5,924 | 5,986 | ... | 5,986 |
| Ratnágiri ... | ... | 156 | 8 | 29 | 2 | 197 | 806 | 1,003 | ... | ... | ... | 3,664 | 3,694 | ... | 3,694 |
| Total ... | 65,946 | 64,611 | 11,840 | 61,276 | 3,147 | 12,27,852 | 51,624 | 2,78,906 | 2,577 | 2,906 | 5,573 | 5,41,852 | 5,47,425 | ... | 5,47,425 |

* Expenditure and revenue on account of the works in charge of the Khándesh Irrigation District.

† Excluding—Ra. 25 on account of "Suspense."

‡ Represents charges in the Civil Department not adjusted in the Finance Accounts.

§ Figures for 1893-94; those for 1894-95 not available.

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Comparison with previous years.

3. The total amount of revenue realized from and the working expenses of this class of works during the past three years were as follows :—

| | 1892-93. | 1893-94. | 1894-95. |
|---|----------|----------|----------|
| | Rs. | Rs. | Rs. |
| Revenue realized | 5,44,910 | 5,46,333 | 5,47,425 |
| Working expenses | 1,97,976 | 2,80,571 | 2,78,906 |
| Net Revenue | 3,46,934 | 2,65,762 | 2,68,519 |
| Percentage of Working expenses to Revenue ... | 36.33 | 51.35 | 50.94 |

4. The expenditure from contributions and Pátphála funds on all irrigation works for which only revenue accounts are kept for the year 1894-95 is as shown in table below :—

| Collectorate. | EXPENDITURE. | | | REMARKS. |
|-------------------|----------------|----------------|---------|--|
| | Contributions. | Pátphála Fund. | Total. | |
| 1 | 2 | 3 | 4 | 5 |
| | Rs. | Rs. | Rs. | |
| Ahmedabad | 159 | ... | 159 | |
| Kaira | ... | ... | ... | |
| Surat | 3,060 | ... | 3,060 | |
| Broach | 95 | ... | 95 | |
| Násik | 670 | 2,759 | 3,429 | |
| Khándesh | 148 | 2,013 | 2,161 | |
| Ahmednagar | ... | ... | ... | |
| Poona | ... | ... | ... | |
| Sátára | ... | ... | ... | |
| Belgaum | 971 | ... | 971 | |
| Dhárwár | 5,617 | ... | 5,617 | |
| Bijápur | ... | ... | ... | |
| Ratnágiri | ... | ... | ... | |
| Total | 10,720 | 4,772 | *15,492 | * Accounted for in the Finance Accounts under "Works for which neither Capital nor Revenue Accounts are kept." |

AHMEDABAD DISTRICT.

5. The only new work which was in progress during the year was the improvement and extension of the Naika Channel estimated to cost Rs. 16,274 and sanctioned in Government Resolution No. 24-W.I.—262 of 13th February 1891. On this an expenditure of Rs. 72 was incurred, leaving an unexpended balance of Rs. 1,203, which will be utilized in making certain improvements lately sanctioned.

6. The working expenses during the year, exclusive of charges for revenue collection, amounted to Rs. 1,133.

7. The old works in this district were fully described in the report for 1892-93 and there is nothing to add thereto.

8. During the year under report five tanks were repaired at a total cost of Rs. 2,411 of which Rs. 1,806 were spent on repairs and Rs. 605, including Rs. 261 contributed by the villagers concerned, on improvements.

9. The revenue derived and areas irrigated from tanks in this district are as under :—

| | | | | |
|---------|-----------------|------------------|-----|------------------|
| | Number of tanks | ... | ... | 66 |
| | Areas irrigated | ... | ... | 10,802 Acres. |
| | | | | Rs. |
| Revenue | { | Irrigation share | ... | 21,948 |
| | | Land share | ... | 29,128 |
| | | | | Total Rs. 51,076 |

SURAT AND BROACH.

10. During the year under report 38 tanks were repaired at a total cost of Rs. 31,360, of which Rs. 15,200 were spent on repairs, and Rs. 16,160 on improvements. Of the above a sum of Rs. 3,083 was contributed by the villagers interested in the irrigation of lands under the different tanks, and Rs. 75 by the Taluka Local Board, Chikhli, in aid of water-supply privileges.

11. Of the 38 tanks, 2 belong to the Broach District, the total cost of repairs and improvements carried out to them amounting to Rs. 1,869.

12. A sum of Rs. 496 was expended in surveying tanks for preparation of estimates for repairs and improvements.

13. The total area irrigated and the consolidated revenue assessed on irrigation tanks in the Surat and Broach Districts, as reported in Canal Return No. VIII by the Collectors, are as under :—

| District. | | | | Area. | Net consolidated assessment. | Irrigation share. | Land share. |
|-----------|-----|-----|-----|--------|------------------------------|-------------------|-------------|
| | | | | Acres. | Rs. | Rs. | Rs. |
| Surat | ... | ... | ... | 12,865 | 1,66,545 | 49,391 | 1,17,154 |
| Broach | ... | ... | ... | 952 | 7,766 | 3,027 | 4,739 |

NASIK DISTRICT.

15. The area under permanent *bagayat* is 17,817 acres, paying Rs. 1,06,806 consolidated assessment, of which the Irrigation share is Rs. 80,804: that is about Rs. 4½ per acre.

16. The expenditure on maintaining the works has been Rs. 6,846 on extension and improvements, and Rs. 452 on repairs. These amounts include contributions by the rayats of Rs. 585 for improvements and Rs. 85 for repairs.

17. Rs. 4,856 is the estimated cost of works in progress for the improvement of the Dátáli bandhára in the Sinnar taluka, and an increase of Rs. 30 in the Revenue is anticipated when the works are completed. Similarly for the Rs. 1,952 expended on Gulkhadi Nála, an increase of Rs. 104 in the revenue is expected. The other works are all small and unimportant. They consist chiefly of diversions in bad places where the channels run near the river.

Details of expenditure.

18. The expenditure in detail was as follows :—

| No. | Names of Works. | 1894-95. | | REMARKS. |
|-----|--|------------|-------------|--------------|
| | | Allotment. | Outlay. | |
| | REPAIRS. | Rs. | Rs. a. p. | |
| | TÁLUKA DINDORI. | | | |
| 1 | Maintenance and repairs to old Wádali Canal. | 102 | 101 0 0 | Completed. |
| 2 | Repairs to bandhára No. 26 near village at Khedgaon. | 108 | 105 12 6 | Do. |
| | TÁLUKA SINNAR. | | | |
| 3 | Repairs to bandhára at Khopdi Budruk, Sháhápur, and repairs to escape No. 1, and breaches at 3,500, 3,900, and 4,100 feet. | 87 | 86 4 2 | Do. |
| 4 | Bandhára repair surveys in the Godávári basin, Násik Collectorate. | 232 | 159 0 5 | Do. |
| | Total, Repairs ... | 529 | 452 1 1 | |
| | EXTENSIONS AND IMPROVEMENTS. | | | |
| | TÁLUKA SINNAR. | | | |
| 1 | Improvements to Datali bandhára and Irrigation Channel. | 3,730 | 3,668 5 9 | In progress. |
| 2 | Improvements to Thángaon bandhára ... | 1,175 | 1,095 14 10 | Do. |
| 3 | Improvements to bandhára No. 39, Khopdi Budruk. | 871 | 870 8 9 | Completed. |
| | TÁLUKA CHÁNDOR. | | | |
| 4 | Constructing a new Gulkhadi Nála bandhára at Borala. | 500 | 508 0 6 | Do. |
| | TÁLUKA DINDORI. | | | |
| 5 | Improvements to bandhára No. 26 near village at Khedgaon. | 581 | 496 4 6 | In progress. |
| | TÁLUKA NIPHÁD. | | | |
| 6 | Improvements to bandhára No. 27 at Gondegaon, Táluka Dindori, and No. 7 at Niphád. | 150 | 139 0 6 | Do. |
| 7 | Bandhára extensions and improvements surveys in the Godávári basin, Násik Collectorate. | 112 | 67 5 7 | Completed. |
| | Total, Improvements ... | 7,119 | 6,845 8 5 | |
| | Total, Repairs and Improvements ... | 7,648 | 7,297 9 6 | |

19. The following statement shows the areas irrigated and the consolidated revenue assessed on second class revenue works during the year :—

Revenue.

| No. | Táluka. | Area Irrigation. | REVENUE. | | |
|----------------------------|---------------------|---------------------|---------------------|-------------|----------|
| | | | Irrigated share. | Land share. | Total. |
| | | Acres. | Rs. | Rs. | Rs. |
| <i>Násik Collectorate.</i> | | | | | |
| 1 | Násik Táluka | 2,756 | 8,585 | 4,258 | 12,843 |
| 2 | Sinnar do. | 4,457 | 21,988 | 6,470 | 28,458 |
| 3 | Dindori do. | 3,054 | 15,622 | 4,607 | 20,229 |
| 4 | Niphád do. | 4,562 | 21,056 | 7,177 | 28,233 |
| 5 | Chándor do. | 2,812 | 18,126 | 3,413 | 16,539 |
| 6 | Yeola do. | 176 | 427 | 77 | 504 |
| Total ... | | 17,817 | 80,804 | 26,002 | 1,06,806 |

KHANDESH IRRIGATION DISTRICT.

20. The following table gives a summary of the area irrigated and the revenue derived from old irrigation works :—

| | Khándesh. | Násik. | Total. |
|--|-----------|--------|----------|
| Area irrigated at consolidated rates ... | 9,246 | 10,631 | 19,877 |
| Do. at separate water-rates ... | ..... | 406 | 406 |
| Total ... | 9,246 | 11,037 | 20,283 |
| Consolidated revenue | 71,682 | 92,391 | 1,64,073 |
| Irrigation share of consolidated revenue ... | 58,937 | 80,620 | 1,39,557 |
| Separate water-rates ... .. | ..... | 1,290 | 1,290 |
| | 58,937 | 81,910 | 1,40,847 |

These figures are exclusive of the old irrigation under the Lower Pánjhra system. The miscellaneous revenue amounts to Rs. 129, which being added to the above, the gross revenue from these works amounts to Rs. 1,40,976.

21. A sum of Rs. 800 is outstanding from the separate water-rates due from works improved by the State.

22. The cost of the maintenance and improvement of these old irrigation works is exhibited in the following table in contrast with the outlay of the previous year :—

Expenditure.

| | 1893-94. | 1894-95. |
|------------------------|----------|----------|
| Improvements | 15,846 | 25,204 |
| Repairs | 3,711 | 6,805 |
| Establishment | 38,480 | 32,557 |
| Tools and Plant | 946 | 805 |
| | 58,983 | 64,871 |

The year's operations have been described in the annual Administration Report of the year. Despite the increase in expenditure on improvements and repairs, the establishment charges have decreased by Rs. 5,923, as these charges are now distributed equally on all works in proportion to the outlay, and the undue debit of charges to these works has disappeared.

23. In the foregoing table the Government share in the maintenance of these works is represented, but that alone is not all that is required to keep up these works. The irrigators also have an obligation to perform in the matter of silt clearance and petty earth-works, and the construction of works of local interest, such as small road bridges, minor diversions, escapes, &c. The latter are carried out from the "Páthála Fund" a voluntary cess contributed by the irrigators, and from partial grants from local funds, and the former are supposed to be done by the people themselves, Government stepping in to help when the works are beyond the capability of the people. The "Páthála Fund" money spent during the year amounts to:—

| | | | | Rs. |
|--------------|-----|-----|-----|-------|
| Improvements | ... | ... | ... | 2,039 |
| Repairs | ... | ... | ... | 2,733 |
| Total | | | | 4,772 |

against Rs. 1,522 in the previous year, and endeavours are being made to keep the unspent balance of the people's contribution at as low an amount as practicable. The Local Fund expenditure has been on—

| | | | | Rs. |
|-----------------|-----|-----|-----|-------|
| Works | ... | ... | ... | 959 |
| Repairs | ... | ... | ... | 21 |
| Establishment | ... | ... | ... | 91 |
| Tools and Plant | ... | ... | ... | 11 |
| Total | | | | 1,082 |

24. The work of silt clearances and petty earthworks is not satisfactorily done by the irrigators, and the question formed the subject of deliberations of a special committee at Poona during the year under report.

AHMEDNAGAR DISTRICT.

25. The only two works of this class are situated in the Akola Táluka—

1. Sávargaon bandhára.
2. Gardani do.

26. The following table shows the area irrigated and the consolidated Area irrigated and revenue. revenue assessed during the year.

| Name of Bandhára. | Area Irrigated. | REVENUE. | | |
|-------------------|-----------------|-------------------|-------------|--------|
| | | Irrigation share. | Land share. | Total. |
| | Acres. | Rs. | Rs. | Rs. |
| Sávargaon | 76 | 200 | 61 | 261 |
| Gardani | 71 | 153 | 71 | 224 |
| Total ... | 147 | 353 | 132 | 485 |

POONA DISTRICT.

27. The following are the works in this Collectorate, for which only revenue accounts are kept:—

- | | |
|------------------|-------------------------|
| 1. Dam at Kasur. | 4. Dam at Náráyengaoon. |
| 2. Dam at Vadaj. | 5. Dam at Pátus. |
| 3. Dam at Agur. | 6. Tank at Wadhána. |

The description of these works has been given in the Revenue Report for 1881-82.

28. During the year 1894-95, a sum of Rs. 228 has been expended on maintenance and repairs of the dam at Náráyengaoon as under:—

| | |
|--|-----|
| | Rs. |
| 1. Strengthening the banks of the existing channel | 146 |
| 2. Diverting the nála close to the bandhára headworks | 82 |

29. Rs. 27 were expended during the year for gauging the heights of water in Supa, Wadhána and new Pátus Tanks.

BELGAUM DISTRICT.

30. Total number of second class tanks irrigating over 50 acres each in this district is 67, with an irrigation area of 9,910 acres, paying a consolidated assessment, amounting to Rs. 41,304, of which the irrigation share is Rs. 33,049. Of these only one tank was repaired and improved during the year at a total cost of Rs. 4,532. Rs. 24 were paid during the year for land compensation on account of repairs to Hirekeri at Bechinkeri carried out in the previous year.

DHA'RWA'R DISTRICT.

31. The total number of tanks of this class is 3,220, of which 471 irrigate above 50 acres.

32. The following table shows the progress made in repairing and improving these tanks during the year:—

| Nature of Tanks. | COMMENCED IN PREVIOUS YEAR. | | COMMENCED AND COMPLETED DURING THE YEAR. | | COMMENCED, BUT NOT COMPLETED DURING THE YEAR. | | TOTAL. | |
|---------------------------------|-----------------------------|---------------|--|---------------|---|---------------|------------------|---------------|
| | Number of Tanks. | Cost of Work. | Number of Tanks. | Cost of Work. | Number of Tanks. | Cost of Work. | Number of Tanks. | Cost of Work. |
| Irrigating over 50 Acres | 19 | Rs. 7,595 | 14 | 13,296 | 18 | 23,735 | 51 | 44,626 |
| Do. less than do, | 22 | 818 | 79 | 9,302 | 10 | 4,243 | 111 | 14,363 |
| Total ... | 41 | 8,413 | 93 | 22,598 | 28 | 27,978 | 162 | 53,989 |

giving a total of 51 of the larger tanks attended to at a cost Rs. 44,626 and of 111 of the smaller tanks at a cost of Rs. 14,363. The rayats' contribution towards this expenditure was Rs. 5,371.

33. The area irrigated and the assessment on lands below the tanks irrigating over 50 acres are as under:—

| Number of Tanks. | Area irrigated. | REVENUE. | | |
|------------------|-----------------|-------------------|-------------|----------|
| | | Irrigation share. | Land share. | Total. |
| | Acres. | Rs. | Rs. | Rs. |
| 474 | 60,746 | 1,72,894 | 43,221 | 2,16,115 |

In addition to the above the following direct receipts were realized during the year:—

| | | | |
|---------------------------|-----|-------|-------|
| | | | Rs. |
| From direct water-rates | ... | ... | 524 |
| Do, miscellaneous sources | ... | ... | 1,536 |
| | | Total | 2,060 |

As in former years no portion of the revenue from land irrigated under the smaller tanks has been credited to the Public Works Department.

BIJAPUR DISTRICT.

34. The fifteen old irrigation works in this district in charge of the Public Works Department shown in the revised list of tanks approved and published during 1893-94 have been reduced during the year by one, the Nandikeshvar Tank in Bádámi Táluka having been struck off the list, *vide* Government Resolution No. 129 W.-I—1607 of 2nd October 1894. The area irrigated was 1,440 acres and the irrigation revenue under the 14 tanks was Rs. 5,924.

35. During the year Rs. 882 were expended on repairs to 7 tanks and Rs. 67 on improvements to 2 tanks.

RATNA'GIRI DISTRICT.

36. There are three tanks in this district with an irrigated area of 1,105 acres and an irrigation revenue of Rs. 4,988.

37. Annual ordinary repairs to two of them, *viz.*, the Pat and Warad, were executed during the year at a cost of Rs. 72 and 86, respectively.

AGRICULTURAL WORKS.

38. The following table shows the financial results of the several Drainage channels in drainage channels constructed in the Broach Colléctorate.

| Names of Channels. | Expenditure during year. | Total cost up to date. | Receipts from sale of occupancy rights. | Balance against Capital. | Area assessed under Settlement. | Land taken up for cultivation. | Assessment of land taken up for cultivation. | Irrigation share. | Percentage of Revenue on Capital. |
|---|--------------------------|------------------------|---|--------------------------|---------------------------------|--------------------------------|--|-------------------|-----------------------------------|
| | Rs. | Rs. | Rs. | Rs. | Acres. | Acres. | Rs. | Rs. | Rs. |
| <i>Jambusar Táluka.</i> | | | | | | | | | |
| 1. Kora-Madafar Channel including Jantram Branch. | ... | 16,003 | 2,376 | 13,627 | 2,750 | 1,478 | 5,405 | ... | 39.66 |
| 2. Amanpur-Nadiád Channel... | ... | 14,302 | 2,104 | 12,198 | 980 | 748 | 3,093 | ... | 25.35 |
| 3. Sindhav Channel ... | 1,238 | 1,238 | ... | 1,238 | 63 | ... | ... | ... | ... |
| <i>Vágra Táluka.</i> | | | | | | | | | |
| 4. Samadpor-Kadodra-Paniádra Channel, ... | ... | 7,072 | 3,800 | 3,272 | 495 | 477 | 1,006 | ... | 30.74 |
| 5. Pakhajan-Ambhel Channel... | 16,494 | 23,917 | 8,242 | 15,675 | 1,251 | 573 | 1,429 | ... | 9.12 |
| <i>Ankleshvar Táluka.</i> | | | | | | | | | |
| 6. Adol-Hajat-Piludra Channel ... | 7 | 12,296 | 3,408 | 8,888 | 653 | 490 | 1,967 | ... | 22.13 |
| Total ... | 17,739 | 74,828 | 19,930 | 54,898 | 6,192 | 3,766 | 12,900 | ... | 23.49 |

39. The amounts realized from sales of occupancy right during the year 1894-95 were as follows:—

| | | |
|-------------------------|-----|-------|
| | | Rs. |
| Pakhajan-Ambhel Channel | ... | 7,543 |

40. The Pakhajan-Ambhel Channel which was commenced in 1893-94 was all but completed during the year, and has already given a return of over 9 per cent. on the net outlay.

41. The Sindhav drainage channel was completed during the year at a cost of Rs. 1,238, but no land has been taken up owing to the past two seasons being unfavourable. If the present season proves favourable, most of the assessed waste land on the channel is likely to be taken up.

42. The total revenue from all the drainage channels amounts to 23.49 per cent. of the total net outlay.

43. Current repairs to the dam at Borvi in the Kolába Collectorate were
Dam at Borvi. carried out during the year at a cost of Rs. 35.

*Revenue Report of Irrigation Works in
the Bombay Presidency, excluding
Sind, for 1894-95—Review of the.*

No. 9 W. I.—123 of 1896.

Public Works Department.

Bombay Castle,
28th January 1896.

Letter from the Chief Engineer, Northern Division, No. 4649, dated 14th September 1895.

Forwards the Irrigation Revenue Report for 1894-95, Part I.

Letter from the Chief Engineer, Northern Division, No. 5056, dated 25th September 1895.

Forwards the Irrigation Revenue Report for 1894-95, Part II.

Letter from the Superintending Engineer, Central Division, No. 5581, dated 30th September 1895.

Forwards the Irrigation Revenue Report for 1894-95, Parts I and II.

Letter from the Examiner of Public Works Accounts, No. B-3—1322, dated 11th October 1895.

Submits the statements and tables required in connection with the Revenue Report of Irrigation Works in the Deccan and Gujarát for 1894-95.

Memorandum from the Superintending Engineer, Southern Division, No. 4341, dated 14th October 1895.

Forwards the Irrigation Revenue Report, 1894-95, Parts I and II.

Memorandum from the Chief Engineer, Northern Division, No. 5299, dated 8th October 1895.

Forwards a letter from the Executive Engineer, Ahmedabad District, together with a revised statement IV. E in accordance with Government Resolution No. 129 W. I.—1460, dated 17th September 1895.

Memorandum from the Chief Engineer, Northern Division, No. 5572, dated 22nd October 1895.

Letter from the Superintending Engineer, Central Division, No. 5977, dated 23rd October 1895.

Memorandum from the Superintending Engineer, Central Division, No. 6109, dated 30th October 1895.

Memorandum from the Superintending Engineer, Southern Division, No. 4566, dated 1st November 1895.

Memorandum from the Superintending Engineer, Southern Division, No. 4902, dated 18th November 1895.

Forwards revised Statement IV. E.

Letter from the Superintending Engineer, Central Division, No. 6560, dated November 1895.

Furnishes the additional information required to complete Statement IV. E.

Memorandum from the Superintending Engineer, Southern Division, No. D.-1317, dated 7th December 1895.

Advises certain corrections in his general remarks accompanying the Irrigation Revenue Report.

Memorandum from the Superintending Engineer, Southern Division, No. D.-1305, dated 6th December 1895.

Forwards amended Statement III. E.

Letter from the Superintending Engineer, Southern Division, No. D.-1377, dated 9th December 1895.

Memorandum from the Superintending Engineer, Southern Division, No. D.-1399, dated 10th December 1895.

Forwards revised Statement I. E.

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Memorandum from the Superintending Engineer, Southern Division, No. D.-1467, dated 14th December 1895.

Submits an amended Statement IV. E to be substituted for the revised statement previously sent.

Memorandum from the Superintending Engineer, Central Division, No. 6923, dated 13th December 1895.

RESOLUTION.—The salient features of the year's operations are, as usual, detailed in the general remarks embodied in the report.

2. The number of works in operation, for which Capital and Revenue Accounts are kept, is the same as in the previous year, viz. 36.

Part I.—Number of Works. 3. The Capital expenditure amounted to Rs. 3,74,724, distributed as follows:—

| | | | | Rs. | | |
|-------------|---|-----------------|--------------|-----|-----|--------------|
| Imperial | { | Major Works ... | { Protective | ... | ... | 2,46,716 |
| | | | { Productive | ... | ... | 84,390 |
| | | Minor Works ... | ... | ... | ... | 25,223 |
| Provincial— | | Minor Works | ... | ... | ... | 18,395 |
| | | | | | | Rs. 3,74,724 |

Of the total sum of Rs. 3,74,724, Rs. 1,66,888 were on account of Indirect charges, of which, Rs. 1,33,312, were on account of Capitalization of assessment on land taken up for the Nira Canal. The Direct charges amounted to Rs. 2,07,836 and were incurred almost wholly on the Major works, Nira and Mutha Canals. On the Nira Canal the expenditure was, as in the previous year, chiefly on the Bhatghar reservoir, but some work was also carried out at Vir. On the Mutha Canals the expenditure was in connection with the water-supply works in progress in the foregoing year.

The entire Capital outlay at the end of the year under all heads was Rs. 2,61,17,514, of which Rs. 1,85,81,514 represents expenditure on Major works.

4. The Interest charges on Productive and Protective Works to the end of the year were Rs. 1,21,86,874, and deducting the total net revenue realized, viz. Rs. 19,38,317, the deficit at the end of 1894-95 amounted to Rs. 1,02,48,557.

5. The total length of main canals completed was 642 miles and of distributaries 562 miles. When the report for 1893-94 was reviewed, discrepancies were noticed between the figures showing the length of 'Main Canals', 'Branch Canals' and 'Distributaries,' as given in Statements I. A and II. A accompanying the Revenue Reports and Table No. I of the statements of Financial results of Irrigation Works annually prepared for submission to the Secretary of State for India, and orders were issued in Government Resolution No. 73 W. I.—773, dated 14th May 1895, with a view to correct these discrepancies.

6. In reviewing the report for the previous year it was observed that there were grounds for suspicion that the terms indicating the areas 'commanded' and 'irrigable' as used in Statements I. A, II. A and IV. E, were not uniformly interpreted, and the orders of the Government of India were requested for the guidance of the officers concerned. These orders were received and communicated to the officers concerned in Government Resolution No. 81 W. I.—953, dated 30th May 1895. The figures entered in the statements accompanying the report under review have been determined in the light of the interpretation placed by the Government of India on the terms in question, and any comparison with the figures appearing in the report for the previous year will therefore be misleading. For the year under report the gross area under command and the area irrigable at present were 885,342 and 315,694 acres respectively.

The Government of India were further addressed in June last on the subject of the headings of columns 3 and 4 of Statement IV. E, and it was suggested that the figures in those columns, as also the corresponding figures in the annual

comparative statement of irrigation and rainfall, should respectively represent the area irrigable by the complete project concerned and the area irrigable by it at the date of the report. The Government of India, however, replied that the object of Statement IV. E is to show how the area (1) cultivated and (2) irrigated out of the total area of each district is affected by the rainfall of the year, that the headings in Statement IV. E were correct, and explanation was given as to how the columns should be filled up, and the addition of three new columns was ordered. The Statement IV. E, accompanying this report, has been prepared in the revised form. From the explanation given by the Government of India it appears that they desire that this statement should furnish the necessary information by *Districts*. This however cannot be done consistently with the maintenance of the form accompanying the Government of India letter No. 166 I, dated 11th July 1885, which requires that the works should be arranged according to their classification as 'Protective,' 'Productive' or 'Minor.' In these circumstances the memorandum, forwarded by the Government of India, which explains the objects of Statement IV. E and the correct method of filling in that statement, has been taken as a guide, and the form has been recast to admit of works appearing by districts. The Government of India should be requested to favour this Government with an expression of opinion as to whether the statement as now prepared satisfies all requirements.

7. The total area irrigated was 84,237 acres as compared with 79,950 acres in the previous year. The increase is not very remarkable. The average rainfall was 23.13 inches as compared with 22.74 in 1893-94.

Area irrigated.

8. The principal crops irrigated were jowári (19,955 acres), sugarcane (14,624 acres), groundnut (9,084 acres), wheat (8,833 acres), bajri (6,722 acres) and rice (6,187 acres). All these crops, except wheat and groundnut, show increases, the most noticeable being that under jowári (8,351 acres). The Nira Canal shows an increase under this crop of 4,577 acres. The area under groundnut shows a considerable falling off, the works chiefly responsible for it being the Nira Canal, the Mhasvad Tank and the works in the Sátára District. Under sugarcane the increase was only 1,561 acres. Last year it was noticed that the area of sugarcane on the Nira Canal had risen from 1,639 to 3,436 acres. This year it has further increased to 4,329 acres, but the development has not been equal to what was anticipated. It is stated that perennial irrigation received a severe check owing to the poor outturn obtained and the low market rate for molasses. In several cases unsuitable soil irrigated for the first time kept the cane stunted, and in others the cultivators were new to the sort of irrigation required. On the Krishna Canal the area of sugarcane has been steadily increasing, and has nearly doubled during the last five years. On the Mutha Canals an effort was made to induce the cultivators to try the cultivation of superior rice. The crops that were grown are reported to have exceeded all expectations both as to outturn and quality of the grain. The area was however small, but it proved that the water-supply was sufficient and the results were generally encouraging. It is now intended to use the whole of the storage at Lake Fife for perennial and eight months' crops, and the only other class of irrigation will be that obtained during the monsoon.

9. The assessed revenue amounted to Rs. 5,93,737 against Rs. 5,91,487 of the previous year. The assessments show a small increase under all heads except plantations and water-power. The decrease under plantations was mainly on the Hartála Tank and Janda Canals, while that under water-power was on the Gokák Canal, 1st Section. The average water-rate per acre was 5.10 as compared with 5.37 of the previous year.

Assessed Revenue.

10. The gross actual revenue realized from all sources, after deducting refunds (Rs. 4,430), was Rs. 5,63,482 against Rs. 5,73,746 of the previous year. The net revenue realized was Rs. 2,12,556 as compared with Rs. 2,86,328. The outstandings amounted to Rs. 40,417, the greater portion of which has since been realized.

Gross actual Revenue.

11. The working expenses during the year amounted to Rs. 3,50,926 as compared with Rs. 2,87,418, showing an increase of Rs. 63,508. The causes of the increase and the variations in the figures for the several works are commented upon in paragraph 13 of the general remarks. The actual increase in expenditure on works and repairs was about Rs. 14,000, the balance being mainly due to a difference in the mode of distributing the charges for establishment.

12. The net revenue of the year, after deducting working expenses, was—

| | Rs. |
|----------------------------------|----------|
| (a) On the basis of assessment | 2,42,811 |
| (b) On the basis of realizations | 2,12,556 |

as compared with Rs. 3,04,069 and Rs. 2,86,328. There is a decrease under both heads for which the increased working expenses are principally responsible.

13. The financial results are unfavourable under all heads.

14. Under Protective Works the Nira Canal shows an increase under net revenue of Rs. 12,760, which is more than counter-balanced by a falling off of Rs. 18,709 under the Mhasvad Tank, due to heavy charges for unavoidable special repairs to the tank embankment, the result being a decrease of Rs. 5,949. On the Nira Canal the receipts have been more and the working expenses less, while the opposite is the case with the Mhasvad Tank.

15. The Productive Works show a profit of Rs. 2,10,824 against Rs. 2,19,618 of the previous year. The decrease is the total of decreases under the Lower Panjhra, Kadva and Pravara River Works and the Mutha Canals, and is principally due to heavy working expenses, but partly also to a considerable falling off in the revenue on the Mutha Canals. The decrease would have been very heavy but for the favourable returns on the Ekruk Tank and the Krishna Canal, on the former of which the net revenue rose from Rs. —2,609 to Rs. 16,821, and on the latter from Rs. 23,833 to Rs. 41,783.

16. The Imperial Minor Works show a deficit of Rs. 21,862 against a profit of Rs. 23,667 of the previous year, the works showing the greatest deficit being the Ojhar Canal and Yerla River Works. The question of handing over some of these works to the Revenue Department has now been fully considered and the Government of India will shortly be addressed separately on the subject. The only Provincial Minor Work (Gokak Canal) shows a net revenue of Rs. 11,094 against Rs. 24,594 of 1893-94, the decrease being however apparent only and not real, as is shown in the body of the report.

17. Under Works for which only Revenue Accounts are kept the area irrigated shows a decrease of 3,486 acres, and gross revenue an increase of Rs. 1,092. The expenditure on Extensions and Improvements and Maintenance and Repairs continues to increase, showing that the necessity for the efficient maintenance and improvement of these works is fully recognised. Orders have been issued on the reports of the committees appointed to report on tanks in the Northern and Southern Divisions, and have been communicated to the Government of India.

18. The issue of the report under review has been delayed this year partly on account of the preparation of revised Statement IV. E, and partly on account of the number of corrections found necessary. Instructions have been issued which will, it is hoped, reduce these delays in future.

19. The record for the year under review, as already stated, shows unsatisfactory results, and the conditions are unfortunately such as to make this unavoidable. The reasons why the results for the Deccan and Gujarat compare so unfavourably with irrigation

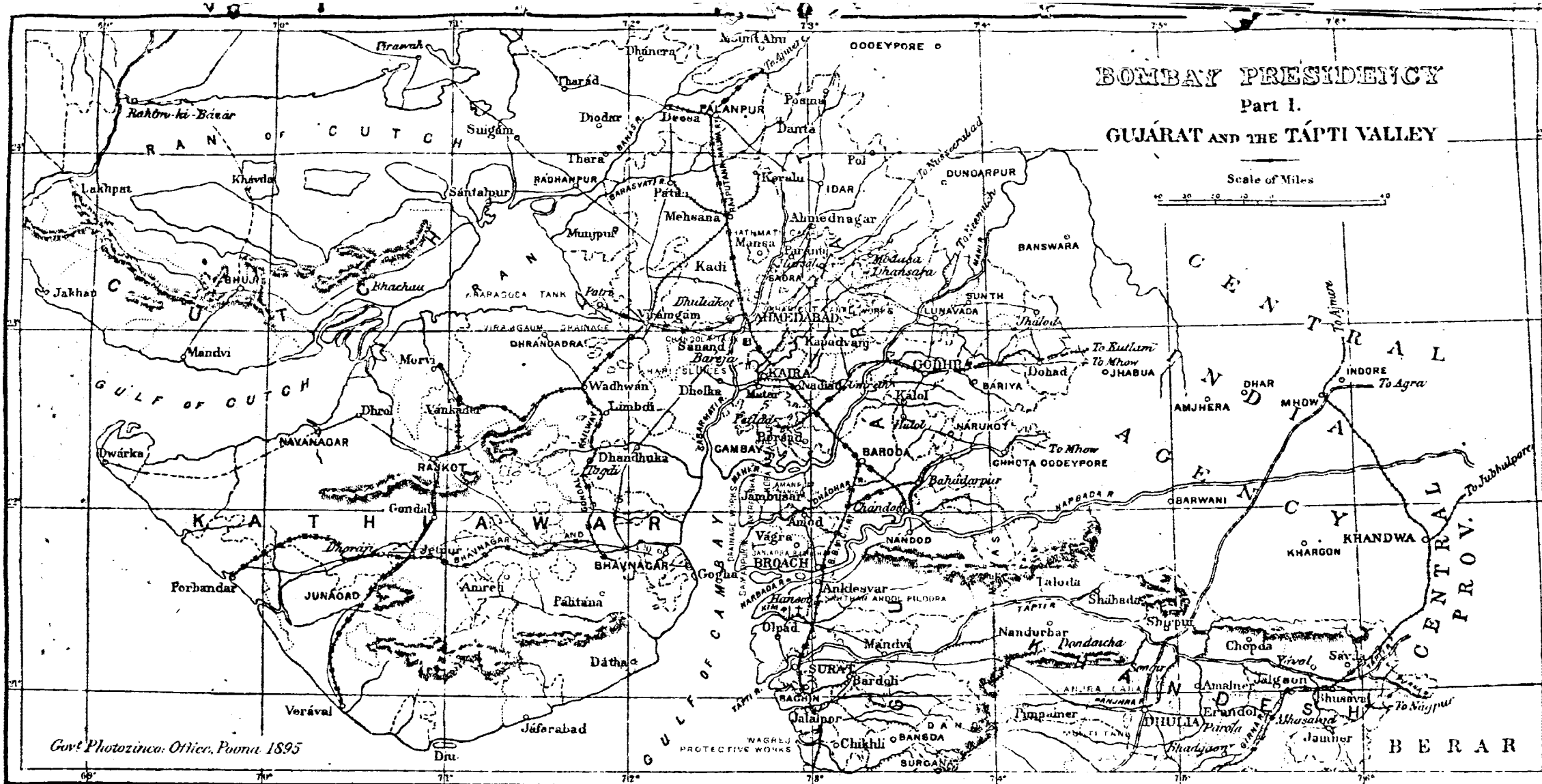
in many other parts of India, including the Province of Sind in this Presidency, have been fully explained to the Government of India, and the possibility of improving the existing conditions has long been under consideration and is still engaging the attention of this Government. Measured by direct financial results, the experience of the past is very disappointing; but it is some consolation to find that although many of the projects have failed to give any adequate return on their capital outlay, the total value of the produce under the irrigated area amounts to more than half a crore of rupees, a large share of this being due to irrigation. The sanguine anticipations of the past have unfortunately proved unreliable in many instances, and all that can now be done is (1) to endeavour to keep down working charges, including establishment; (2) to endeavour to obtain a reasonable price for the water according to its value to the cultivators and to encourage its use; (3) to limit further capital expenditure to works of development of a clearly remunerative character. While admitting that the figures for the year are not satisfactory, it is necessary to point out that a considerable share of the unfavourable results, as compared to the preceding year, is due to modifications in the method of charging establishment, and much of the loss debitable to this cause is counterbalanced by gain under other heads. Further it is hoped that certain items of special repairs will not recur, and as far as can be foreseen at present, it appears probable that many of the works will show a healthy improvement in the future owing to an increase in revenue; and it is also possible that charges under establishment may be reduced when certain modifications now under consideration are carried out.

20. Copies of the report and of this Resolution should, as usual, be forwarded to the Government of India and the Secretary of State.

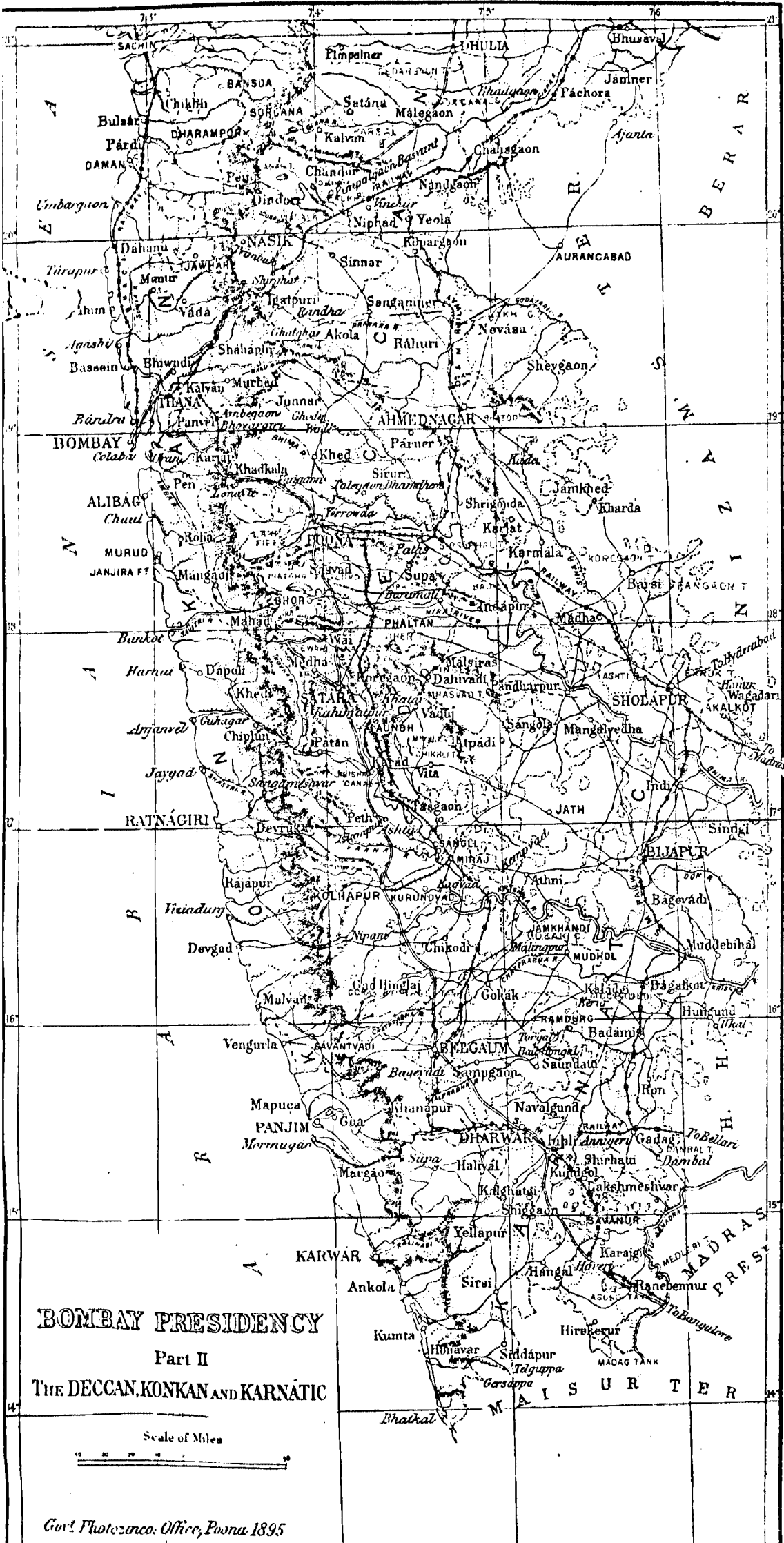
T. D. LITTLE,

Secretary to Government.

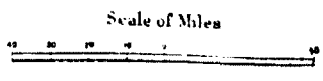
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|--|---|------------------------|---|------------|
| The Revenue Department, Secretariat. | } | With copies of report. | | |
| The Financial Department, Secretariat. | | | | |
| The Commissioner N. D. | | | | |
| The Commissioner C. D. | | | | |
| The Commissioner S. D. | | | | |
| The Survey Commissioner and Director of Land Records and Agriculture. | | | | |
| The Chief Engineer C. D. | | | | |
| The Superintending Engineer N. D. | | | | |
| The Superintending Engineer S. D. | | | | |
| The Superintending Engineer Indus Right Bank Division. | | | | |
| The Superintending Engineer Indus Left Bank Division. | | | | |
| The Examiner of Public Works Account. | | | } | By letter. |
| The Government of India. | | | | |
| The Secretary of State for India. | | | | |
| The Editors' Table. | | | | |



Anantpur Nariad Channel.
 Jamnagar Tanka. {
 2. Kora Madaphar Channel.
 Vagra. do. do. 3. Somnagar-Kadodra Puniadra Channel.
 Anantpur. do. do. 4. Suthan Ardal Pileotra Channel.



BOMBAY PRESIDENCY
Part II
THE DECCAN, KONKAN AND KARNATIC



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