

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No. 1103	Press
12284	Mis.
Dated 10th Jan 18	

Not to be folded or roughly handled

Read the following papers:—

No. 182. Endorsement of the Revenue Department, dated 11th June 1872.

Proceedings of the Board of Revenue, dated 3rd June 1872, No. 889.

From the Acting Collector of Vizagapatam, to the Secretary to the Board of Revenue, dated 7th May 1872, No. 430.

I HAVE the honour to forward copies of letters from the Superintending Engineer on the subject of the Kondakirla Ava. This he proposes to make capable of retaining a far larger supply of water than is at present the case. The estimated cost of the work is 50,000 Rupees, the advantages to be derived from it are the

Of Survasidhi Taluq.

1. Kothuru.
2. Gokivada.
3. Kattupalem.
4. Teruvupilli.
5. Tamaracherla.
6. Kotta Yellamunchelli.
7. Dimilai.
8. Kattubolu.
9. Kummarapeta.
10. Rajala.

11. Kalavalapilli.
12. Murakada.
13. Murripalem.
14. Thatakulapalem.
15. Agraharum.
16. Velchuru.
17. Thurungalapalem.
18. Ramarayudupalem.
19. Poddapadu.
20. Khajipalem.

saving of remissions to the lands of the villages noted in the margin, the remissions on which in the last twelve years have averaged Rupees 5,393-1-7 per annum. Had this work been completed before the present year, the crops of these villages would have been saved, and a sum of Rupees 19,816-5-10 saved to Gov-

ernment. The proposal now made is to raise the bund two yards, which it is estimated will more than double the present supply of water. When the natural freshes fail in the Saradanaddi, it is proposed to turn water from the Ava into the river, and by this means convey water into the river channels which supply the villages with water. The scheme has been proposed

* *Vide* Proceedings, dated 14th June 1869, No. 4,246. before, but the Board* were desirous that some more extended scheme to utilize

the water of the Ava should be drawn up. This has been done by the Range Officer, but some of the details were not approved of by the Superintending Engineer.

2. The present proposal naturally forms part of the more extended scheme, but can be proceeded with irrespective of it. The object of the improvement now proposed is to ensure a certain supply of water to the lands of the villages above referred to, and thus remove the necessity of future remissions. If this is done, the work will pay at the rate of 10 per cent. on the amount expended. Any doubts which existed as to whether water was available for storage or not have been set at rest by registers taken in the river during the present most exceptional season. I would strongly advocate the work being at once proceeded with. Even if the Range Officer be mistaken as to the willingness of the ryots to pay an additional rupee per acre, the saving of future remissions will render the work remunerative to the extent of Rupees 5,000 per annum, the average amount hitherto remitted.

3. I have countersigned an estimate for Rupees 30,000, which represents the cost of earthworks connected with the proposed improvement. These the Superintending Engineer considers it will take two seasons to complete. It is, therefore, of the utmost importance that the work be undertaken without delay.

4. The figures of remissions granted in the present fasli differ from those given by the Range Officer in his letter of April 11th, but I have ascertained that they are correct.

THE outlay of Rupees 50,000 in raising the retaining bund of the Ava would secure the full and complete irrigation of a number of villages which at present obtain almost yearly remissions owing to defective supply; the average of these remissions is as much as 5,000 Rupees yearly or $\frac{1}{4}$ th of the proposed outlay, and as there is no reason to question these figures a strong case is created for immediate action. Added to this the operations now proposed are an essential preliminary to a wider scheme, according to which the Ava would serve as a reservoir to supplement the irrigation of lands under the river channels.

2. The ryots appear to have offered to pay an additional rupee per acre in consideration to the improved supply, and the Collector will obtain a definite declaration from them on this point. The Board observe, however, that in some cases the land is already paying Rupees 14 per acre, and that the assessment shows great inequalities, the Collector will observe fully on these particulars in reporting on the proposal of the ryots.

3. The Board resolve to submit these papers to Government, and to urge the vigorous prosecution of the work.

REFERRED to the Department Public Works for disposal.

(Signed) W. HUDLESTON,

Secretary to Government.

No. 106 B.

No. 183. Note by the Acting Chief Engineer for Irrigation.

THERE is no information in this Office relative to the Kondakirla Ava project.

From the papers which accompanied the Revenue Board's Proceedings No. 889, dated 3rd June 1872, it would appear that the total acreage dependent upon the tank is acres 1,288-14-1; that it is proposed to increase the capacity of the tank from 19 to 43 millions of cubic yards of water in order to ensure a full supply to the lands dependent upon the tank, and also to supplement the supply to

upwards of 5,908* acres which now appear to draw a direct supply from the Saradanaddi below the Goday anicut from which the Kondakirla Ava appears to be supplied.

2. Judging by the statement which accompanied Mr. Laskey's letter No. 15 of 11th April 1872, there would appear to have been no remissions on the lands dependent directly upon the tank; but a sum of Rupees 19,816-5-10 appears to have been lost on the villages, the supply to which it is proposed to supplement from the Kondakirla Ava tank.

3. At 2 cubic yards per hour per acre 10½ millions of cubic yards will be required per mensem for the lands directly and indirectly dependent upon the tank, and a supply for five and a half months will be required if the six-month crop is grown, or 57½ millions exclusive of evaporation.

4. From a statement furnished by the Superintending Engineer, it would appear that, in September and October 1871, 55 millions of cubic yards might have been received by the tank, had the capacity of the tank been sufficient to

admit of the water received being retained. There is, however, clearly some error in this statement, for the Superintending Engineer while stating that the area of

* No. 5.

the vents* is (4×4) in many cases calculates the quantity of water with areas from (4×4) to (4×6) according to the depth of water above the floor, and when the vent is submerged a uniform head of 1 foot is said to have existed, this is very improbable, but, in the absence of information relative to the level of back water, if the statement relative to the head be accepted, the quantity passed through the sluices in sixteen days would appear to have been 20½ millions against 33½ as given by the Superintending Engineer, who, in addition to the error noted above relative to the area of the vents, has used a very high co-efficient, namely, .86, the co-efficient I have used is .625. When the water is below the crown of the vents the Superintending Engineer has estimated the quantity of water passing through the sluices as though there were a clear overfall, this is possible, though not probable, and is not consistent with a head of only 1 foot as soon as the vent is submerged assuming a head of 1 foot in this case as given by the Superintending Engineer, when the vent is submerged, the quantity passed through the sluices would be 11½ millions nearly, or 32 millions in all, against 44½ millions as given by the Superintending Engineer. During sixteen days

9 Days, 1 foot.
6 " 2 feet.
1 Day, 3 "

in September water passed over the anicut as per margin. As the length of the weir is not given, it is impossible to

ascertain what quantity of water passed over the anicut, but a portion of what passed would be utilized for the irrigation of the 5,900 and odd acres which draw a direct supply from the river.

5. From an examination of the trigonometrical survey, it would appear that the drainage basin of the Saradanaddi above the dam is about 320 square miles, and that the drainage from about 160 square miles enters the river below the dam; taking the rainfall at Narsipatam to represent the rainfall in the basin of the

Year.	Rainfall in inches.	Probable yield in millions of cubic yards.
1871	22-11	121½
1870	52-17	770
1869	52-09	770
1868	38-01	385
1867	66-05	1,155
1866	40-61	453
1865	44-23	550

Saradanaddi, the yield would probably have approximated closely to the entries given in the margin. The valley of the Saradanaddi appears to be studded by a large number of tanks; it is impossible to judge what quantity of water they would retain, if, however, the yield in September, 1871 was upwards of 32 millions of cubic yards (for the quantity which passed over the Goday anicut has not been computed) there can be

but little doubt that there will always be sufficient water to fill the Kondakirla Ava tank, and to supply the lands dependent directly and indirectly upon that tank.

6. The state of the case, as far as I can judge from the papers submitted, appears to be as follows:—

The area dependent upon the Kondakirla tank is 1,289 acres, the capacity of the tank, as it now is, is sufficient to store water for this area, but it is desired to

*Proceedings of the Madras Government, Public Works Department,
10th July 1872*

render the tank capable of affording storage to admit of a supplemental supply being provided for some 5,900 and odd acres when the local rains fail in October and November as they did in 1871; these lands now draw their supply from several dams on the Saradanaddi, situated below the Goday anicut from which the Kondakirla Ava tank is supplied; the water from the tank is, it appears, to be admitted into the river again above the lower dams, but to provide for this a new channel has to be excavated, a portion of which is to pass through a cutting 45 feet deep, and it has not yet been ascertained what may be the nature of the soil or rock through which the

Superintending Engineer's letter No. 2,806 of 7th December 1871.

channel may have to pass, and the Superintending Engineer appears to doubt the accuracy of the levels taken, his estimate of Rupees 20,000 for this channel and for masonry works cannot, therefore, be accepted. The cost of raising the tank bank to admit of its retaining an additional 24 millions of cubic yards of water is Rupees 30,000, the tank is at present sufficiently capacious to store water for the land directly dependent upon it; until, therefore, it has been ascertained beyond a doubt, that the channel from the tank to the river can be excavated, and the necessary masonry works can be supplied at or about the cost estimated by the Superintending Engineer, namely, Rupees 20,000, it appears to me that the raising of the tank bank should not be undertaken.

No. 3,179, dated 18th January 1872.

(Signed) R. F. OAKES, Captain, R.E.,
Acting Chief Engineer for Irrigation.

20th June 1872.

No. 184. •

ORDER THEREON, 10th July 1872, No. 1,663.

IRRIGATION, No. 7.

THE Government regret to observe the exceedingly unsatisfactory manner in which the project for increasing the capacity of the Kondakirla Ava tank to admit of water being stored to afford a supplemental supply to lands now dependent upon dams in the Saradanaddi has been submitted by the Superintending Engineer to the Collector.

2. The capacity of the tank is at present sufficient to store water for the area dependent upon the tank itself, and it appears to be necessary to excavate a channel to the river from the tank to supply certain lands, which now draw a direct supply from the river when local rains and the river supply fail in October and November as they did in 1871. The Superintending Engineer appears to doubt the accuracy of the levels taken for this channel, and has not ascertained the nature of the soil or rock which may be met with in an anticipated cutting 45 feet in depth; it is impossible, therefore, that he should be able to estimate even approximately the probable cost of excavating the channel, and as on this depends the desirability or otherwise of increasing the capacity of the Kondakirla Ava tank, the Superintending Engineer will submit an estimate with the least possible delay for excavating the channel, for providing the sluice in the tank bank for its supply, and for alterations which may be necessary to the surplus weir of the tank.

3. It is clear from the observations of the Acting Chief Engineer for Irrigation that the project should be matured before the raising of the tank bank is undertaken.

*Proceedings of the Madras Government, Public Works Department,
10th July 1872.*

4. If it can be shown that the excavation of the channel, etc., can be carried out at a reasonable cost so as to obviate the necessity of granting remissions on the present area of cultivation in future years, the project will be sanctioned; but, as it would appear that the original project under consideration embraced the utilization of the waters of the Saradanaddi to a greater extent than is contemplated in securing a permanent supply for the lands now irrigated, in submitting the project now called for the Superintending Engineer will give a brief outline of the larger project, and will satisfy himself that the works proposed may eventually be adapted for the duty they may be called upon to perform.

(True Extract.)

Captain, R.E.,

Acting Joint Secretary to Government.

MEMORANDUM.

REQUESTED for reference the under-mentioned papers

the unknown
the original of G.O. No 1613 dated
10th July-72

OFFICE OF THE CHIEF
ENGR. FOR IRRIGATION,
P. W. Department,

15th Aug. 1872
To

Mr. Hamilton
Head Clerk.

The Registrar of the

Mr. Leetland

No. 889.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 3rd June 1872.

Read the following letter from R. J. MELVILLE, Esq., Acting Collector of Vizagapatam, to the Secretary to the Board of Revenue, dated 7th May 1872, No. 430:—

I HAVE the honour to forward, copies of letters from the Superintending Engineer, on the subject of the Kondakirla Ava. This he proposes to make capable of retaining a far larger supply of water than is at present the case. The estimated cost of the work is 50,000 Rupees, the advantages to be derived from it are, the

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| 6. Kotta Yellamunchelli | 16. Velchuru. |
| 7. Dhillat. | 17. Thurungalapalem. |
| 8. Kattubolu. | 18. Ramarayudupalem. |
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saving of remissions to the lands of the villages noted in the margin, the remissions on which in the last twelve years have averaged Rupees 5,393-1-7, per annum. Had this work been completed before the present year, the crops of these villages would have been saved, and a sum of Rupees 19,816-5-10 saved to Gov-

ernment. The proposal now made is to raise the bund two yards, which it is estimated will more than double the present supply of water. When the natural freshes fail in the Saradanaddi, it is proposed to turn water from the Ava into the river, and by this means convey water into the river channels which supply the villages with

* *Vide* Proceedings, dated 14th June 1869, No. 4,246.

water. The scheme has been proposed before, but the Board* were desirous that some more extended scheme to utilize

the water of the Ava should be drawn up. This has been done by the Range Officer, but some of the details were not approved of by the Superintending Engineer.

2. The present proposal naturally forms part of the more extended scheme, but can be proceeded with irrespective of it. The object of the improvement now proposed is to ensure a certain supply of water to the lands of the villages above referred to, and thus remove the necessity of future remissions. If this is done, the work will pay at the rate of 10 per cent. on the amount expended. Any doubts which existed as to whether water was available for storage or not have been set at rest by registers taken in the river during the present most exceptional season. I would strongly advocate the work being at once proceeded with. Even if the Range Officer be mistaken as to the willingness of the ryots to pay an additional rupee, per acre, the saving of future remissions will render the work remunerative to the extent of Rupees 5,000, per annum, the average amount hitherto remitted.

3. I have countersigned an estimate for Rupees 30,000, which represents the cost of earth-works connected with the proposed improvement. These the Superintending Engineer considers it will take two seasons to complete. It is therefore of the utmost importance that the work be undertaken without delay.

4. The figures of remissions granted in the present Fasli differ from those given by the Range Officer, in his letter of April 11th, but I have ascertained that they are correct.

*22/6/72
R. J. Melville*

THE outlay of Rupees 50,000 in raising the retaining bund of the Ava, would secure the full and complete irrigation of a number of villages which at present obtain almost yearly remissions owing to defective supply; the average of these remissions is as much as 5,000 Rupees yearly or 1/10th of the proposed outlay, and as there is no reason to question these figures a strong case is created for immediate action. Added to this the operations now proposed are an essential preliminary to a wider scheme, according to which the Ava would serve as a reservoir to supplement the irrigation of lands under the river channels.

2. The ryots appear to have offered to pay an additional rupee per acre in consideration to the improved supply and the Collector will obtain a definite declaration from them on this point. The Board observe however that in some cases the land is already paying Rupees 14 per acre and that the assessment shows great inequalities, the Collector will observe fully on these particulars, in reporting on the proposal of the ryots.

3. The Board resolve to submit these papers to Government and to urge the vigorous prosecution of the work.

(A true Copy and Extract.)

J. G. Gole
Secretary.

To the Chief Secretary to Government, R. D., with 6 enclosures.
„ the Acting Collector of Vizagapatam.
„ the Superintending Engineer, 1st Division.

Ed. G. A. Turton.

No. 471

Superintending Engineer's Office, 1st Division
Goulaiswarum, 14 May 1872.

From The S^r Superintending Engineer,
1st Division,
To The Collector of Vizagapatam.

S^r I have the honor to return countersigned the Estimate for the earthwork of raising the Kondakirila Ava bank and the banks of its supply channel received under cover from your Office without letter and docket, as I have lately sent you all the information I have been able to collect regarding this work and recommending the project to be taken up at once as a relief work, and as I moreover find by G.O. of the 17th April 1872 No. 621 and para. 21 of Mr. Thornhill's report printed therewith that this scheme was urgently required, I am at a loss to know why the Estimate has been sent to me in this manner.

2 Mr. Lasker's Estimate of Rs. 30,000 provides for the earthwork only, the Rs. 50,000 I had applied for included the cost of some masonry works which however cannot be done till the bank is raised and finished, and I want some alterations to be made in the designs of these to suit the localities better: As it will take fully one if not 2 seasons to do the earthwork properly, there is no need to wait for the Estimates for the masonry works.

3 I now request you will be good enough to submit this proposal with all the correspondence I have lately sent you regarding the Kondakirila Ava to the Revenue Board for their consideration and disposal by submission to Government, the loss of Rs. 18,000 in one year for remissions is so serious and

Board of Revenue

MADRAS.

1872.

PROCEEDINGS, 3rd JUNE 1872, No. 839.

20 June

1872.

Received Mr. on 1872.

Received Mr. on 1872.

JUNE.

No. 839.

Kondakirila Ava—in Vizagapatam District—
—Certain papers from Collector on subject of
Superintending Engineer's proposal to raise
retaining bund of — at an outlay of Rupees
50,000, so as to secure full and complete irriga-
tion of several villages, submitted to Govern-
ment, with recommendation that the work
should be vigorously prosecuted.

Approved by the S^r S^r
for the S^r S^r
1872.

and as we now know from the rain-fall registers and the flow of water through the head sluices during the worst of any seasons recorded that the supply is sufficient to prevent this loss recurring, it is of no use waiting to mature a scheme for bringing new land into cultivation, our first endeavours should be directed to save the existing cultivation from being liable to suffer such unnecessary losses and this I have no doubt can be done at once by executing the work, if however we have to wait till the project is matured, as the thing is called now - a day, the District may have to suffer a century of famines before any thing at all is done.

I have &c.
Signed J. T. Fischer Esq. Col. R. E.
Off. Superintending Engineer I. D. N.

True Copy

W. C. C.

Ag. Collector

W. C. C.
Ag. Collector

1872
Department.
Amherst.
In a letter from the Col-
-lector of Vizagapatam
dated 7th May 1872
No. 430.
Rec. 1973/72
5/10/72
P.W. 2919/72.
Dec. 10. 1872 in No. 153.
Copy of a letter from
the Superintending Engineer
to the Collector of Vizagapa-
tam No. 471 dated 6th
May 1872. forwarding an
estimate for improving the
Wanda la la Ana.
In G.R. No. 2370/72
G.O. No. 1613 of July 11/72

Table of discharges through the sluices in Cubic Yards per
chm in September.

Date.	No. of Sluices.	Discharge in Cubic Yards per chm.	Remarks.
1	1	1.788.912	86 *nearly 9 Sq. Yds.
2	1	1.788.912	"
3		1.176.120	Whir. Co. off. 518-220
4		1.176.120	- do - do.
5		933.120	- do - do.
6		709.560	- do - do.
7	1	1.788.912	86 As a sluice.
8	1	1.987.680	" - do -
9	1	1.987.680	"
10	1	1.987.680	" Nearly - do.
11	1	1.788.912	" do.
12		1.176.120	as a Whir as above.
13		933.120	- do.
14		933.120	- do.
15		709.560	- do.
16		709.560	- do.
17		709.560	- do.
18		709.560	- do.
19		605.800	- do.
20		507.600	- do.
21		329.400	- do.
22	1	2.186.448	86 As a sluice.
23	1	2.640.248	" - do.
24	1	2.451.480	" - do.
25	1	2.186.448	" - do.
26	1	1.987.680	" - do.
27	1	2.186.448	" - do.
28	1	2.186.448	" - do.
29	1	1.987.680	" - do.
30	1	2.151.480	" - do.

To the above has to be added about 12 Million C. Yds.
for October making the total 55 Million C. Yds.
The sluices are 4x4 ft. and 5 in number.

Downloaded from
April 1872.
Signed J. F. Fischer Lieut. Col. R.E.
Superintending Engineer 1st Div.
Done Copy
Collector

No 255
Superintending Engineer's Office Division
Dauolaismoram 19th April 1872.

From, The Ag^y Superintending Engineer

To The Collector of Vizagapatam.

Li

Enclosures 4, 10th Instant, I have the honor to forward copy of a letter from the Range Officer B-1 Range to my address B-15 dated 11th Instant and its enclosure, a statement of rain fall for 7 years and a register of water

2. Mr. Lasker informs me the Kondaturla Area holds about 19 Million C. Yards of water, and if it is raised 2 yards in depth as he proposes, its contents will be increased by 28 Million C. Yds, making the total contents 43 Million C. Yds; the table of discharge shews that 43 Million C. Yds of water did pass through the sluices and the registers shew there was very much more water in the river itself passing over the Ambat, if then the Area be made sufficiently capacious, there is no reason to doubt the supply of water can be relied on as there was far more than enough in this worst of seasons to have filled up the reservoir to its proposed levels, with the flow for October added to that in September, about 55 Million C. Yds must have passed through the sluices.

3 Mr. Lackey reports the remissions last year alone under this Ana were nearly \$2,000 for want of water, the above calculations show that there

There,

1872
D. J. Guthrie
Cincinnati
Oct 23
A letter from the
Collecting Department
dated May 7, 1872
No 433

Dec 19 23/72

P.R.: 291972.

Yr affc is always
thru the lines in a
few years for them
in September
am P.D. No 2370/72

these might have been saved to a certainty almost; if not entirely at least in great part; it is therefore advisable to take up the project as a repair work to secure the revenue from land we know can be irrigated, leaving out for the present the consideration of extending the cultivation: for, it will take for 3 years to put the Ara into a fit state to hold water enough for its present area of cultivation.

4 It would be very satisfactory if you would be good enough to furnish a statement showing the remissions given under this work for 10 or 15 years; the Revenue Board would then be able to judge whether it is worth while expending Rs 50,000 to secure them. I do not know where Mr. Laskey obtained his information, but if this is correct, certainly an effort should be made to prevent further loss taking place.

5 I have ordered registers to be carefully maintained during the ensuing monsoon season at the Golgondah Anicut and head sluices, and Captain Beatty has undertaken to look after the work to assist Mr. Laskey in registering observations and taking levels as to enable us to judge what more can be done with the water stored in the reservoir. From the rain-fall register however herewith sent, it is quite apparent that in this worst of seasons, when only 22 inches of rain fell, there is water enough in the supplying river to save a good deal, if not all the remissions said to be so often granted at present.

I have seen
Signed/ J. F. Fisher, Dist. Commr.
Sd/- Sd/- Engineer 1st Division

1872

No. 1, or Golgondah Range Office,
Yellamanchili, 11th April 1872.

From, The Officer in charge of No. 1 Range,
Vizagapatam District.
To, The Superintending Engineer,
1st Division.

Sir, I beg leave respectfully to forward the accompanying extract from my Register of depths of water in the Saradanadi taken at the Godary Anicut, and a statement showing the amount of remission granted under the river channels which by an addition of 28 millions C. Yds to the store in Kondakurula Ara might have been averted in the past season. As remission was granted to lands under channels supplied by the Ara in the first 8 villages in the annexed statement, the other 18 under the river channels which by retaining a large store in the Ara is to be subsidiarily utilized for the security of the crops, and in consideration of this, the ryots are well disposed, and have pledged themselves by a promise to bear an additional rupee on the present rate of assessment per acre; this additional revenue could be secured and accession for such large remission as Rs 17,970-10-6 given in the past season averted by the proposed work at a cost of Rs 50,000.

I beg to remain
Signed/ J. W. Laskey
Range Officer
Appendix A.

Appendix A

Villages below Kondakirila in Serrasiddhi Taluk.

Villages that are now under the Kondakirila Ana. Rate of assessment per Acre. or Average. Total area. Total assessment. Amount of grant for 1871-72.

1	2	3	4	5	6
1 Kondakirila	8 7 3	207 13 12	1747 10 6	.	.
2 Yerranaram, hamlet of do	6 16 8	216 30	1815 1 6	.	.
3 Appannaipalem D. of do	5 2	77	374 2	.	.
4 Gaggannapett D. of do	8 8 10	257 35	2190 11 10	.	.
5 Paripallem D. of do	10 2	257 13	2620	.	.
6 Riddapad including its hamlets	14 8	198 15 5	2454 9 10	.	.
7 Muppuram	4 11 6	48	226 8	.	.
8 Mullanaram	3 15 8	23	95 13	.	.
		1288 34 1	11236 3 8		

Villages that receive their supply from the Seradannady and which would be benefited by the Ana.

1 Kottur	11 7 6	107 20	1370 3	376 14	.
2 Jukiradah	7 2 4	69 12 8	531 6 6	208 15 3	.
3 Kottapalem	4 13 3	344 5	1663 11	208 12 9	.
4 Lennupilli	4 11	412 31	1683 2 2	424	8
5 Shemaraacherla	5 1 1	316	1374 5 10	763 1 3	.
6 Dimili	5 1 1	640 37 8	3258 1 7	1579 10 10	.
7 Kuttubolu	14 10 7	125 35	1858 13	1554 11 6	.
8 Plummaraipilli	4 1 10	312	1408 2	1362 12 8	.
9 Rajalah	2 11 1	674 25	1745 1	3101 9 4	.
10 Agraharam	4 11	759 7 8	3085 2 10		
11 Kalavalapilli	7 13 4	283	2221 6	1188 5 8	.
12 Muracada	4	311 38 12	1197 11 9	1174 3 9	.
13 Muvripalem	3 4 9	187 24	501 2	793 11 3	.
14 Shataculapalem, hamlet of Serrasiddhi	3 5	792 7 8	2613 3	2320 6	.
15 Velur	4 10	545 24	2523 15 9	1197 10 1	.
16 Riddapad				217 9	.
17 Kazeipalem				77 6 9	.
18 Kamarayunipalem				760 13 9	.
				17770 10 6	.

Information

* Information regarding the rate, average, and assessment, is not yet received.

Signed J. W. Lasky
Range Officer.

(True Copy)
Signed J. F. Fischer Lieut. Col. R. C.
Sg. Sup. Engineer, 1st Div.

(True Copy)
Signed
Collector

name

(Original) work.

(Original) work.

Estimated Estimate No. of 1872-73

District Vizagapatam Taluk Ennaid

Village Kondakirala

work. Making certain Improvements to Area

Particulars of Items

Measurements
Length
Mean
area
weight
or
depth
No.
Cubical
Contents

Bank from Calingulak at Huri -
fallen along Krishnamaranga
channel

Forming bank from section A to B	305	23.76	1	19126.8
Do Do from B to C	345	17.10	1	5899.5
Do Do from C to D	540	14.44	1	7797.6
Do Do from D to E on both sides	610	9.89	2	12065.8
Do Do from E to F	610	3.70	2	4514.
Do Do from F to G	850	2.08	2	3536.
Do Do from G to H	1020	2.08	2	4243.2

Bank from Kakarapilly to -
Munagapaka

From high ground to point A	390	7.	1	2730.
Do from A to X	650	14.08	1	9152.
Do from X to Y	910	14.08	1	12812.8
Do from Y to B	350	25.41	1	8893.5
Do from B to C	156	25.41	1	3963.96
Do from C to D	200	19.10	1	3820.
Do from D to E	1130	19.10	1	21583.

Carried Over 120138.1

Copy of letter sent
to the Collector from this
Superior Land Survey
Office, regarding the
Kondakirala Area

1872, 29/11/72.

1872, 29/11/72.

1872, 29/11/72.

1872, 29/11/72.

-Brought Over

[Signature]

300--	18.37	"	1	5911
200--	40.41	"	1	9082
115--	24.37	"	1	2832
255--	24.37	"	1	6214
510--	18.37	"	1	9368
				152116

Total Earth Crust

11980 6.86 - 1 12582
300 2 - 1 2600
7123207 - 1 8624
10242

Social Barth exp!

47805. " 2 47850
 37866. " 2 45432
 3806.5 " 2 17940
 2803. " 2 11880
 3203. " 2 73920
 196972

Total Surfing Squads ————— 196972

Abstract of Estimate—

Quantity	Description of Charges	Rate	Per Lin	Amount	Total
152,116	Cy ^s of Earthwork — at	1.68	Per	14260 14	✓
102,422	Cy ^s of — do — at	1.00	do	6401 6	✓
254,538	Cy ^s of watering & lamping	1.00	do	1325 11 6	✓
196,972	Sy ^s of Surfing —	6.85	Per	6155 6	✓
				28143 5 6	
	Contingencies —	1.00	do	1556 10 6	11
	Total Rupees			30,000	30,000

19 April 1872

W. H. Munnings

2 lots.

29 April 1872

No. 1 or Gonzales Range office
Camp Cimarron fallum
22nd April 1872.

West: t. chm Scott & C.
Acting Superintg. Insprds

N^o 106 B
 Note by the Asst. Chief Engineer for Irrigation.

1 There is no information in this Office relative to the Kondakerla Awa Project.

From the papers which accompanied the Revenue Board's Proceedings N^o 889 dated 3rd June 1872 it would appear that the total acreage dependent upon the Tank is ^{area} 1288-14-1 that it is proposed to increase the capacity of the tank from 14 to 16 millions of cubic yards of water in order to procure a full supply to the lands dependent upon the Tank and also to supplement the supply to upwards of 5908 acres which now appear to draw a direct supply from the Saradamudde below the Goday. Ancient from which the Kondakerla Awa appears to be supplied.

2 Judging by the statement which accompanied W. Laskey's letter N^o 15 of 11th April 1872 there would appear to have

* 20 Villages to be supplied. Area of 15 given

Entered in the
 Register of the
 Revenue Board
 Dec. 1973/72
 Detail of the
 or 1872-73—

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

Chief. Nagalakshmi

have been no peninsulas on the lands dependent directly upon the tank, but a sum of Rupees 19,816-5-10 appears to have been lost on the Villages, the supply to which it is proposed to supplement from the Kondakerla Awa tank.

3 At 2 cubic yards per hour per acre 10½ millions of cubic yards will be required per annum for the lands directly and indirectly dependent upon the Tank and a supply for 5½ months will be required if the 6 month crop is grown or 57½ millions exclusive of evaporation.

4 From a Statement furnished by the Superintending Engineer it would appear that in September and October 1872, 55 millions of cubic yards might have been received by the tank had the capacity of the tank been sufficient to admit of the water received being retained. There is, however, clearly some error in this Statement for the Superintending Engineer while stating that the

* N^o 5

the Area of the Vents is (4 x 4) in many cases calculates the quantity of water with areas from (4 x 4) to (4 x 6) according to the depth of water above the floor and when the Vent is submerged a uniform head of 1' is said to have existed. This is very improbable, but in the absence of information relative to the level of back water, if the Statement relative to the head be accepted the quantity passed through the Sluices in 16 days would appear to have been 20½ millions as against 38½ as given by the Superintending Engineer who, in addition to the error noted above relative to the Area of the Vents, has used a very high coefficient vizt 86, the coefficient I have used is 60. When the water is below the crown of the Vents the Superintending Engineer has estimated the quantity of water passing through the Sluices as though there were a clear overfall. This is not possible though not probable and is not consistent with a head of only 1' as

some as the Vent is submerged affording
 a head of 1' in this case, as given by the
 Superintending Engineer, when the Vent is
 submerged, the quantity passed through the
 sluices would be $11\frac{1}{2}$ millions nearly
 or 32 millions in all against $14\frac{1}{2}$ millions
 as given by the Superintending Engineer.
 During 16 days in September water was
 passed over the Anicut for per margin.
 as the length of the weir is not given
 it is impossible to ascertain what
 quantity of water passed over the Anicut
 but a portion of what passed would be
 utilized for the irrigation of the 5900 and
 odd acres which draw a direct supply
 from the River.

9 Days 1 ft.
 6 — 2 —
 1 — 3 —

5. From an examination of the
 Trigonometrical Survey it would appear
 that the drainage basin of the Sarad-
 amuddi above the Dam is about 320
 square miles and that the drainage
 from about 160 square miles enters the
 River below the Dam, taking the rain
 fall at Naripatan to represent the
 rain

year	Rainfall in inches	Probably yield in millions of Cubic yards	Saradamuddi the yield would probably have approximated closely to
1871	22.11	121 $\frac{1}{2}$	the entire given in the
1870	52.17	770	margin. The Valley of the
1869	52.09	770	Saradamuddi appears to be
1868	38.01	385	studded
1867	66.05	1155	by a large number of tanks.
1866	40.61	453	
1865	44.28	550	

it is impossible to judge what quantity
 of water they would retain, if, however, the
 yield in September 1871 was upwards of
 32 millions of Cubic yards (for the quantity
 which passed over the Koday Anicut has
 not been computed) there can be but
 little doubt that there will always be
 sufficient water to fill the Kondakerla
 Ara tank and to supply the lands
 dependent directly and indirectly upon
 that tank.

6. The state of the case as far as I
 can judge from the papers submitted
 appears to be as follows.

The area dependent upon the
 Kondakerla tank is 1289 acres. the
 Capacity

capacity of the tank, as it now is, is insufficient to store water for this area, but, it is desired to render the tank capable of affording storage to admit of a supplemental supply being provided for some 5,900 and odd acres when the local rains fail in October and November as they did in 1871: these lands now draw their supply from several Dams on the Saradaniuddi situated below the Goday Anicut, from which the Kondakeila Awa tank is supplied; the water from the Tank is, it appears, to be admitted into the River again above the lower Dams, but, to provide for this, a new channel has to be excavated a portion of which is to pass through a cutting 45 feet deep and it has not yet been ascertained what may be the nature of the soil or rock through which the channel may have to pass and the Superintending Engineer appears to doubt the accuracy of the levels taken, his Estimate of

Superintending Engineer's letter No. 2306 of 7th December 1871

Rs 3179-15th January 1872
Rupees

Rupees 20,000 for this channel and for masonry works cannot therefore be accepted. The cost of raising tank bank to admit of its retaining an additional 24 Millions of cubic yards of water is Rupees 25,000. The tank is at present sufficiently capacious to store water for the land directly dependent upon it; until, therefore, it has been ascertained, beyond a doubt, that the channel from the Tank to the River can be excavated and the necessary masonry works can be supplied at or about the cost estimated by the Superintending Engineer viz. Rupees 20,000 it appears to me that the raising of the tank bank should not be undertaken.

H. F. A. Captain R. E.
20th June 1872
Asst. Chief Engineer for Irrigation

To,

The Secretary to Government,
Public Works Department.

No 182

Wm 1872 Del.
from Bank of England
the chief Engineer
for navigating
the Secretary to the
Pub. Works Dept.

Dated 20th
Dec 4 1872
No 1068

Note on the
Amsterdam
Project
C/10 1663-10 Study 172

Abstract Rainfall Register kept at Karsipatam

	1865		1866		1867		1868		1869		1870		1871	
Months	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches
January	"	"	"	"	2	2.36	"	"	"	"	2	2.11	"	"
February	"	"	"	"	"	"	"	"	"	"	"	"	4	2.86
March	"	"	"	"	3	2.41	"	"	2	1.43	1	1.40	2	1.65
April	4	6.10	5	3.05	1	1.18	3	1.80	8	5.02	5	1.39	"	"
May	9	4.96	5	1.69	4	7.41	5	2.28	"	"	7	1.23	3	1.54
June	5	1.79	5	2.08	7	10.53	15	13.71	9	4.72	12	8.91	8	4.21
July	7	3.66	10	3.36	13	5.51	14	8.34	9	4.55	3	4.98	6	1.24
August	12	13.51	15	6.68	19	16.47	9	7.64	9	8.22	3	2.00	8	3.17
September	12	8.84	11	4.23	12	10.78	6	3.04	17	14.75	17	8.06	14	4.30
October	3	2.26	15	18.37	10	7.52	3	1.20	16	9.38	16	19.59	6	2.79
November	2	3.16	3	1.15	3	1.88	"	"	2	2.08	2	2.50	1	0.35
December	1	"	"	"	"	"	"	"	1	2.11	"	"	"	"
Total	54	44.28	69	40.61	74	66.05	55	38.01	73	52.09	68	52.17	52	22.11

No. 1 or Gollondah Nangr
 Officer Yellamunehally
 11th April 1872

/ True Copy /
 Collector

(Signed) J. W. Laskey
 Nangr Officer

(Signed) J. F. Fisher Smith Col. R. E.
 Adj. Genl. Engineer & Division

an
P. 1023/10/12

Altogether I am
Sincerely Yours

20th. 29/10/72.

Nov. 1973
2/26/73

80430

Depotmen
received of D
his letter from the
Co. Secy of War
dated May 2, 1822,
p 130

1872

Register of deaths & burials of the community
near Golden Binnick.

Yours sincerely,

God my dear friend

Yr. Obedt. Servant.

I have seen the flow of the North and the flow of the
and I have seen the flow of the North and the flow of the

over a period of 100 years.

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Oct. 1st 1871. b h b

[illegible][illegible]

Mr. T. W. Higginbotham, Kansas City, Mo.
Yellow Springs, N. Y.
April 25, 1879

(Signed) J. F. H. Walker, Secy. Cal. P. C.
(recd Copy)
J. F. H. Walker, Secy. Cal. P. C.

Unimproved
J. J. Collection

Signature of W. W. Lusk
House of Representatives

3255

1892

Department
Executive Office

See letter from the
Colonial Department
dated May 24 1892

to 4430

Dec. 19/12/92

4/4/92

P.M. 29/19/92

Register of deeds

of the Department

of the Department

of the Department

of the Department

of the Department

[Signature]

I would wish this
first from the
Lt. Col. Fisher is
not a very good officer
and no amount of money
will make him one.

[Signature]

If the cause is decent
why it not needed?
be needed?

The Government
agreed to observe the ex-
ceedingly unsatisfactory
manner in which the
Project for increasing
the capacity of the
Kondakirila Awa tank
to admit of water being
stored to afford a sup-
plemental supply to
lands now dependent
upon Dams in the
Saradammiddi

Saradannuli, has been submitted by the Superintending Engineer to the Collector.

2 The capacity of the tank is at present sufficient to store water

for the area dependent upon the tank itself and it appears to be necessary to excavate a channel to the River from the tank to supply certain lands, which now draw a direct supply from the River, when local rains and the River supply fail in October and November as they did in 1871. The

Superintending

I would begin the work thus:

"The former is (namely) that the Acting Superintending Engineer be furnished with a copy of the foregoing note by the Off (filing) Engineer for signature. It seems that

Superintending Engineer appears to doubt the accuracy of the levels taken for this Channel and has not ascertained the nature of the Soil or Rock which may be met with in an anticipated cutting 4.5 feet in depth, it is impossible, therefore, that he should be able to estimate even approximately the probable cost of excavating the Channel and as on this depends the desirability or otherwise of increasing the capacity of the

Florida River

Rondakurba and tank,
the Superintending Engi-
neer will submit an
Estimate with the least
possible delay for excava-
ting the Channel, for
providing the sluice for
~~its supply~~ in the tank
~~for its supply~~
bank, and for alterations
which may be necessary
to the surplus Weir of
the tank.

3 It is clear
from the observations of
the Acting Chief Engi-
neer for Irrigation that
the Project should be ma-
tured before the rais-
ing of the tank bank
is undertaken.

H

4 If it can be
shewn that the excava-
tion of the Channel ~~can~~
can be carried out at
a reasonable cost so
as to obviate the necessity
of granting remissions
on the present area of
cultivation, in future
years, the Project will
be sanctioned; but, as
it would appear that
the original Project,
under consideration,
embraced the utiliz-
ation of the waters of
the Sorada maddi to
a greater extent than
is contemplated in
securing a permanent
supply

supply for the lands -
now irrigated, in
submitting the project
now called for the
Supr Engineer will
give a brief outline
of the larger project
and will satisfy him-
self that the works pro-
posed ^{may} eventually
be adapted for the duty
they may be called upon
to perform. -

L. G.

Supr. Engr.

C/2919-3255
Govt. of Madras.
PUBLIC WORKS.

To The Superintending Engineer
1st Division

Date

Recd.

Encl. 6 ✓

G. O. 10th July 1872, No. 1663.

No. 182-183-184

Lord Venkateswara Temple,
Tirumala

To Supr Engr., 1872. ✓
Chief Eng for Irrigation.

Recd 18/7/72

No. 182/184 -