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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2195	Press
B.P. No.		Mis. _____
Dated	28-7	2875 195-

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
28th July 1875.*

No. 790. Read the following Proceedings of the Board of Revenue, dated 6th July 1875, No. 1,864 :—

Read the following letter from C. VANSAGNEW, Esq., Collector of Nellore, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated 5th June 1875, No. 1,545.

I HAVE the honor to submit the annual report on the public works executed in this district during the past official year 1874-75.

2. The following statement exhibits the expenditure incurred during the year under report as compared with that during the year preceding :—

Particulars of Works.	Expenditure in 1873-74.	Expenditure in 1874-75.	Difference.	
			Increase.	Decrease.
<i>New Works.</i>	Rs. 32,319	Rs. 48,195	Rs. 15,876	...
Irrigation	...	...	...	...
Buildings and Communications, including Police Stations, &c.	98,195	1,11,127	12,932	...
Total ...	1,50,514	1,59,322	28,808	...
<i>Repairs.</i>	Rs. 67,573	Rs. 1,69,725	42,152	...
Irrigation	3,436	3,084	...	352
Buildings	...	...	...	...
Total ...	71,009	1,12,809	41,800	...
Grand Total ...	2,01,523	2,72,131	70,608	...

3. From the above statement it will be observed that every head of expenditure, except the item "Repairs to Civil Buildings," shows a very large increase over that of the preceding year. In the item of Rupees 1,11,127 under "Buildings, &c., New Works," a sum of Rupees 59,885 is included as the amount expended on the extension of the East Coast Canal.

The Budget Grant for Agricultural, Original Works, was Rupees 27,774, of which sum Rupees 22,774 were allotted to the Survapally Project (Extraordinary), and Rupees 5,000 to Minor New Works (Ordinary). No allotment was made in the Budget of 1874-75 for the Sangam Project. Of the original allotment of Rupees 27,774, plus the subsequent allotment of Rupees 25,000 for Original Works, or Rupees 52,774 in all, the sum expended was Rupees 48,195. Of this expenditure, Rupees 21,515 out of Rupees 22,774 were expended on the Survapally Project and Rupees 21,467 on the extension of the Pennair Anicut, leaving a balance of Rupees 5,213, which was expended on Ordinary New Works, being Rupees 213 in excess of the provision under that head.

For Repairs, Irrigation, the Budget Grant was Rupees 1,10,000, and the amount expended Rupees 1,09,725, or very nearly the whole allotment.

4. The original allotment for Civil Buildings and Communications, both Original and Repairs, was Rupees 94,700, including the grant of Rupees 60,000 for the extension of the East Coast Canal, which was increased subsequently to

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Rupees 1,27,091; but, deducting transfer and surrenders, the net allotment was Rupees 1,17,704. Of this sum, Rupees 1,14,211 were expended, leaving a balance of Rupees 3,493 unexpended at the close of the year.

5. The Budget Grant of the year under report was as follows:—

Works.	Grant.	Expenditure	Remarks.
<i>Original Works.</i>			
	Rs.	Rs.	
Buildings and Communications, including Police Stations, &c. (Provincial) ...	91,500	1,11,127	
Agricultural ...	27,741	48,195	
	1,19,274	1,59,322	
<i>Repairs.</i>			
Buildings, including Revenue, &c., Buildings (Provincial) ...	3,200	3,094	
Agricultural ...	1,10,000	1,09,725	
	1,13,200	1,12,809	
Tools and Plant ...	2,32,474	2,72,131	
	1,900	...	
Add subsequent sanctions ...	2,34,374	...	
	56,793	...	
	2,91,167	...	
<i>Deduct—</i>			
Transferred to other districts ...	95	...	
Surrendered ...	9,292	...	
	9,387	...	
Balance of grant available ...	2,81,780	...	

6. The grant originally sanctioned in the year was Rupees 2,34,374, increased by supplemental grants to Rupees 2,91,167. This amount was, by subsequent changes, transferred to other districts, and surrender, reduced to Rupees 2,81,780—a sum very considerably larger than that available (Rupees 2,07,018) in the preceding year. The entire expenditure was Rupees 2,72,131, leaving a balance of Rupees 9,649 unutilized for reasons that will be explained under each head. The balance unexpended exceeds considerably that of the previous year.

7. COMMUNICATIONS.—Roads are, as usual, omitted from this report. For the "Extension of the East Coast Canal from Dugarazupatam to Kistnapatam" * Estimate Rupees 2,87,000, sanctioned in G. O., No. 274, of 1873. Rupees 60,000 were provided from Provincial Funds and Rupees 59,885 were expended. The progress made on the extension of this canal, though carried on under considerable difficulties, arising from an unfavorable season, was, on the whole, very satisfactory, and the canal has, since the close of the year under report, been opened for general traffic. Water communication is thus available for 93 miles north of Madras and to within 14 miles of this town.

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8. IRRIGATION WORKS—(a.) *Original.*—The provision under this head in the Budget was Rupees 5,000 for Ordinary Works and Rupees 22,774 for Extraordinary Original Works, the former amount being the allotment for Minor New Works and the latter the provision for the Survapally Project. No grant was made in the year under report, as in previous years, for the Sangam and North Delta Irrigation Project, nor was the provision for Minor New Works subsequently raised.

For the ordinary repairs of the Pennair Anicut no specific allotment appears to have been sanctioned, but the amounts required were from time to time disbursed by the District Engineer from the general provision for "Repairs, Agricultural." The expenditure thus incurred was Rupees 10,049. From the Progress Reports considerable work appeared to have been done till the unprecedented floods of October last, which rose to a height of 18 feet and 4½ inches on the crest of the anicut, turned the northern flank of that structure, and rendered its extension necessary.

For the "Extension of the Nellore Anicut" a grant of Rupees 25,000 for the past year was sanctioned in G. O. of 23rd January last, No. 198, which was subsequently reduced to Rupees 20,000: the total expenditure to the end of the year, or for the three months of January, February, and March, was Rupees 21,467. The work done consisted of quarrying and collecting rubble, laterite, and lime-stone, and in brick-making. The District Engineer says: "The present season has been unfavorable for working in the bed of the river. There has been more water than usual, and towards the end of March this was increased by a slight fresh."

9. The aggregate expenditure on Agricultural, New Works, was Rupees 26,728, of which Rupees 21,515 were spent on improvements to the Survapally Channel in connection with the Pennair Anicut, and Rupees 5,213 on Ordinary New Works. The outlay on the former project was comparatively small, being Rupees 1,259 less than the grant, in consequence of a very large proportion of the available labor having been employed on emergent works since the floods of October.

10. The sum of Rupees 5,213 was spent on Ordinary New Works against an allotment of only Rupees 5,000. The following list shows the Minor New Works under execution in 1874-75:—

under execution in 1874-75.														
		Number	Estimated.	Outlay.									Complete.	In Progress.
				Up to 31st March 1874.			In 1874-75.			Total.				
				Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.		
For Canals and Tanks channels.	Waste weirs	3	1,900	271	11	0	808	9	4	1,140	4	4	1	2
	Improvements to do.	2	420	...	...	...	115	8	0	115	8	0	...	2
	Sluices	27	12,764	496	14	8	2,133	4	9	2,730	3	5	4	23
	Improvements to do.	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rivetments	18	4,433	573	12	7	1,611	4	11	2,217	1	6	7	11
	Improvements to regulators	...	...	...	...	...	365	...	8	365	...	8	...	...
Distributing works	3	526	...	...	...	...	...	...	...	...	...	2	1	
Total ...		53	20,013	1,411	6	3	5,127	0	8	6,564	6	11	14	39

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11. IRRIGATION WORKS—(b.) Repairs.—The expenditure on repairs amounted to Rupees 1,09,725 out of a provision of Rupees 1,10,000. The number of works repaired was as follows:—

Description of Works	Number in District	Number repaired	Cost
Anicuts (weirs)	1	1	10,049 0 5
Minor anicuts (weirs)	6	2	2,000 0 0
Embankments or dykes	2	2	7,297 0 0
Canals	2	2	7,303 0 1
Distributaries	31	19	8,311 11 10
Tanks	734	227	71,965 0 0
Total	776	251	1,09,725 3 10

This outlay of Rupees 1,09,725 on Agricultural Repairs, which is much in excess of that of the previous year, was distributed on the following works:—

On the Pennair Anicut	10,049
On Southern Delta of Pennair, inclusive of Survapally Section	21,513
On works not under the influence of the Pennair	78,161
Total	1,09,725

The irrigation repairs in the Pennair Delta amounted, it will thus be observed, to Rupees 31,564, of which Rupees 10,049 were expended on the anicut. The original estimate for these repairs to the anicut, sanctioned by Government in G. O. dated the 21st February 1871, No. 514, amounted to Rupees 52,500. The net expenditure to the end of the previous year was Rupees 44,575, but no grant for repairs was, as already stated, provided in the year under report, except the Rupees 20,000 allotted in January last for the new work of the extension of the anicut, which was, as already shown, utilized.

The outlay on agricultural repairs exceeded by Rupees 42,153, the expenditure under this head in the previous year, and by Rupees 50,510 that of 1872-73.

12. East Coast Canal Repairs.—Forty miles of the East Coast Canal were maintained in fair order; but, owing to the silt deposited in it by the October floods and to the insufficiency of the maintenance allowance, the navigation during the last three months of the year was difficult except at high tide.

13. Of the expenditure on repairs the proportion which fell to the several revenue divisions was as follows:—

Sub-division	Expenditure
Head Assistant's division	4,843
Naidupett division	6,497
Collector's do.	1,566
Total	25,812

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14. Subjoined is the usual comparative statement showing the aggregate expenditure for New Works and Repairs under the head of "Irrigation" compared with the Revenue:—

Name of Taluq	AREA IRRIGATED AND THE AMOUNT AS ADJUSTED FOR 1874-75		EXPENDITURE UNDER THE PUBLIC WORKS DEPARTMENT DURING 1874-75 ON WORKS OF IRRIGATION.		Total.	COMPARISON OF EXPENDITURE WITH REVENUE.	
	Area.	Assessment.	New Works.	Repairs.		On Repairs.	Total.
	ACRES.	RS.	RS.	RS.	RS.	PER CENT.	PER CENT.
Gudur	51,660	2,21,002	1,076	11,827	12,903	81	81
Rupur	6,339	31,170	1,716	1,556	3,272	8	104
Nellore	91,071	8,23,409	840	54,706	55,546	101	91
Atmakur	14,709	84,030	1,110	7,127	8,237	84	91
Kavali	20,075	1,17,732	310	5,877	6,187	6	12
Udayagiri	3,647	12,522	86	620	706	6	11
Gugun	3,433	18,798	—	626	626	31	31
Kandukur	16,854	77,815	—	4,123	4,123	81	54
Kandukur	840	8,069	—	94	94	8	8
Total	218,084	10,90,647	8,127	86,586	94,713	...	...
Expenditure on the Pennair Anicut distribution over two tranches	...	...	21,467	10,028	31,525	...	...
Expenditure on improvements to Survapally Channel in connection with Nellore Anicut	...	...	21,513	5,448	26,963	...	...
Jalle Bahlu's Channel	...	...	...	471	471	...	...
Kottur Canal	...	...	...	461	461	...	...
Pennair embankment	...	...	86	6,701	6,787	...	...
Total	...	...	43,063	23,159	66,207	...	...
Grand Total	218,084	10,90,647	48,193	1,09,725	1,57,920	10	144

15. The estimated cost of the Survapally Project was Rupees 4,20,060, the total expenditure to the end of the year under report being Rupees 4,00,243. Three hundred and seventy yards of the revetment of the main reservoir were reconstructed; the unfinished portion (1.59 miles) of the main channel was deepened; a new distributing channel, 6½ miles long, was completed; the main drain was considerably enlarged; and a syphon constructed under the main channel at Kanupartipaud. The cultivation under this project is gradually increasing as the drainage and the minor distributaries are being attended to.

16. CIVIL BUILDINGS AND COMMUNICATIONS—(a.) Original.—The expenditure on buildings and communications amounted to Rupees 1,14,211, viz., Rupees 1,11,127 on Original Works and Rupees 3,084 for Repairs, against a net allotment of Rs. 1,17,799 provided for the year. This outlay contrasts favorably with the operations of the three previous years.

17. Rupees 59,885 and Rupees 7,313 of the former sum of Rupees 1,11,127 were laid out, respectively, on the extension of the East Coast Canal and the construction of the salt road from Koppolu to Biramgunta, and the balance of Rupees 43,829 on the construction and improvement of the following twenty-one works, or in adjusting payments for materials collected:—

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(1.) Constructing Sub-Collector's Cutcherry at Ongole	2,761	15	1
(2.) Construction of a Jail at Kanaparthi	2,776	2	2
(3.) Constructing the old Taluk Cutcherry at Ongole into the District Munsif's Court House	274	3	2
(4.) Constructing Police Station at Tutic	203	17	3
(5.) Do do at Tondiar	641	9	3
(6.) Providing three windows to the Taluk Cutcherry at Kanaparthi	14	6	10
(7.) Constructing partition wall across the Jail at Ongole	32	9	10
(8.) Constructing temporary roof to the Taluk Cutcherry at Kanaparthi	43	15	10
(9.) Constructing a gate to the Cutcherry at Ongole	112	0	0
(10.) Improving Taluk Cutcherry and surrounding fields at Kanaparthi	1,347	12	3
(11.) Constructing 2nd class Cutcherry at Vankaragudi	4,212	3	2
(12.) Do do at Marappott	2,214	9	3
(13.) Do Police Station at Th	315	0	3
(14.) Do do at	217	1	6
(15.) Do do at T	247	2	1
(16.) Do Taluk Cutcherry at Ar	6,576	12	0
(17.) Do do at Raj	5,724	14	3
(18.) Do do at P	5,112	13	3
(19.) Providing Argand Lamps to Court House, Nellore	11	6	11
(20.) Making a temporary and better	51	0	0
(21.) Constructing Police Hospital at Nellore	1,501	4	9
Total	43,822	7	2

18. The following buildings were completed since the date of my last report:
Sub-Collector's Cutcherry at Ongole.
District Munsif's Court at Kanaparthi.
Two Police Stations.
The Atmakur Taluk Cutcherry was nearly completed, and very fair progress had been made with most of the other buildings under construction.

The total amount spent on new Provincial buildings out of an allotment of Rupees 45,325 was Rupees 43,822, which is not only in excess of the previous year's expenditure, but a very large sum for this district.

19. (a.) Repairs.—Rupees 3,084 were expended on repairs during the year on the following fifteen works, of which fourteen were completed, and one (No. 4) only left incomplete:—

(1.) Repairing Sub-Magistrate's Cutcherry at Podil	28	4	8
(2.) Do do at Al	20	12	6
(3.) Making alterations to the late Police Station at Rama-	165	9	6
(4.) Repairing Tahsildar's Cutcherry at Ongole	204	13	6
(5.) Do Police Station at Ponnal	127	2	1
(6.) Do Taluk Cutcherry at Mogal	40	15	11
(7.) Do Cutcherry at R	215	0	1
(8.) Do Gudde Taluk Cutcherry	20	6	10

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	RS.	A.	P.
(9.) Fixing copper rod to the lightning conductor of Light-house at Monapalem	...	9	4 2
(10.) Repairing District Munsif's Court at Nellore	1,060	1	11
(11.) Removing and reconstructing a portion of the south workshop of the Engineer store-yard	142	6	10
(12.) Repairing Town Police Lock-up at Nellore	196	10	2
(13.) Removing the ridge ventilators of Nellore Jail	629	9	8
(14.) Putting-money of 2nd-class Hospital Assistant P. M. Kristnasawmy Naidu, No. 707	12	0	0
(15.) Putting-money of 2nd-class Hospital Assistant Muni-sawmy, No. 657	12	0	0
Total	3,084	6	10

I am of opinion that the progress made during 1874-75 on civil buildings was satisfactory, although very little was done to the Podili and Kandukur Sub-jails*.

* Convict Labor Fund. in consequence of the unusual season, rain having fallen in the sub-division on 120 days between May 1874 and March 1875. The prevalence of cattle-disease and the non-receipt of an expected supply of timber are also said to have materially hindered the work and reduced the anticipated expenditure.

20. CHUNDI ESTATE WORKS.—The estimates for the repair of eighteen irrigation works in this estate, at an aggregate estimated cost of Rupees 20,508, were sanctioned in the Proceedings of the Court of Wards, dated 15th July 1873. Out of the grant of Rupees 10,666 allotted in the previous year the small outlay of Rupees 16-12-5 only was incurred in 1873-74. For the year under report the amount originally allotted in the Budget Estimate of the estate was Rupees 10,666; but, on my submitting a list of works to be executed during the year under report at an estimated cost of Rupees 12,000, the grant was raised in the Court's Proceedings of 4th December last, No. 3,515, to that figure, or Rupees 1,334 in excess of the budgeted provision. Of the eighteen works sanctioned, seventeen were taken in hand, and one only deferred; two were completed, and one almost completed. In regard to most of the other works, the earth-work had been done and materials collected.

The expenditure actually incurred on the repairs of these works amounted, however, to only 8,165 Rupees.

21. Annexed is a summary showing at one view the allotments and expenditure under each head of service during the year under report:—

Head.	Allotments.	Expenditure.
Imperial.	RS.	RS.
Ordinary	1,21,007	1,15,704
Extraordinary	42,974	43,182
Provincial	1,22,657	1,20,298
Convict Labor	10,000	4,335
Chundi Estate	12,000	8,168
Total	3,08,638	2,91,687

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If the Local Fund figures were added the total allotments would be Rupees 5,09,320 and expenditure Rupees 4,63,959.

22. STATE OF SEASON, PRICES, AND LABOR.—The season opened favorably, and promised to continue so; but ultimately the heavy rains and the unprecedented floods in the Pennair of October last not only destroyed or damaged crops, houses, and lands in the taluqs of Nellore and Atmakur, but seriously injured several roads, and caused serious loss in cattle and grain in those taluqs. The total rainfall registered during the year was 41.32 inches against 33.70 in the preceding year. There was an unusually large volume of water in all the rivers of the district during the last north-east monsoon.

23. Prices were low in every taluq, as the harvest was good, except in the villages which suffered by inundation.

24. The District Engineer reports that, in consequence of the great demand for skilled labor, bricklayers, carpenters, and blacksmiths had to be paid somewhat higher wages than during previous years, and that it may soon be necessary to increase the rates for ordinary labor also.

25. The usual statement of mileage on roads, directed to be furnished in G. O., dated 11th November 1868, No. 2,831, is enclosed, and subjoined is an abstract of it:—

	MILES
Great Northern Road	179
Road from Kistnapatam via Nellore to Cuddapah	73
" from Ongole to Cumbum	63
" from Ullapalem on the Coast to Cumbum via the Vennulapad Pass	60
District Roads	316
Total	691

26. Mr. Glenn, the Acting Sub-Collector, took great interest in the operations of the Public Works Department, and would no doubt have furnished an interesting report thereon had he not been promoted elsewhere at the beginning of this official year. The Acting Head Assistant and Deputy Collectors have unnecessarily devoted a good deal of their reports to the Local Fund roads. Copy of the remainder of Mr. Mackenzie's report is subjoined; that of the Acting Deputy Collector is not sent up as it contains no further information than I have already given.

27. It again gives me much pleasure to testify to the efficiency of the Public Works Department as at present organized and as superintended in this district. In all my experience I have seen nothing to equal it, and the contrast between the condition of the department before the reorganization—which condition on several occasions I denounced in my annual reports—and now is very remarkable.

In the past year no less a sum than Rupees 4,63,959 was spent by the department, and I am sure that I am within the mark in saying that Government have got double the value for every rupee spent that they used to get. When I came to Nellore the cartage of material for the roads running out of it was paid for at the rate of 3 Annas and 9 Pies per cubic yard per mile, whereas 1 Anna and

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11 Pies is the present rate. This is a specimen of the general change that has been effected during Mr. R. Smith's administration.

ENCLOSURE No. 1.

From G. MACKENZIE, Esq., Acting Head Assistant Collector of Nellore, to G. VANSAGNEW, Esq., Collector of Nellore, dated Ramapatam, 16th April 1875, No. 119.

I HAVE the honor to submit the annual report on public works for the past official year.

8. The chattram at Kavali has been completed at a cost of 10 per cent. in excess of the original estimate, but the work appears to have been well executed and the building well worth the money.

9. The chattram at Nandavaram, in the Udayagiri Taluq, I did not think so highly of, but it had been left unfinished to stand a monsoon, and the rough stone does not make so neat masonry as laterite.

10. The Taluq Cutcherry at Udayagiri is nearly completed, and is a creditable work to Messrs. Plummer and Lyons, who have built it. I wish that the sentiments of the people of Udayagiri had not prevented over-beautifying their own cutcherry with granite pillars, for the stones are lying about in the ruined temple, and they would have improved the appearance of the building very much. Some criticisms of the design suggest themselves, such as longer and more extended verandahs to keep the sun from the doors and windows. The west wind, which comes so fiercely down the Dong, will make it impossible for the cashier to work at the iron grating intended for him. However, I imagine that, as soon as the building is occupied, mats and tatties will be used to remedy these inconveniences.

11. The tanks in the Udayagiri Taluq are now receiving some attention, and several are in course of repair. The rains of October last did no damage in that taluq.

12. There have been repairs on a larger scale to some tanks in the Kavali Taluq, but the only one which I have seen is the Kaligiri Tank, the work on which appears to be very good. The calingulah of the large Chinakraka Tank was washed away in October. This was inspected by Colonel Mullins and Mr. Smith lately, and the rebuilding is now in active progress.

13. Although it is not in my Revenue charge, I may mention that I inspected the new Taluq Cutcherry at Atmakur in August 1874, and that the work seemed satisfactory.

(True Extract)

(Signed) G. VANSAGNEW,
Collector.

ENCLOSURE No. 2.—Statement showing progress of Public Works in District.

ENCLOSURE No. 3.—Statement showing mileage of Roads

SUBMITTED for the information of Government.

2. The total expenditure during the year was Rupees 2,72,131, being Rupees 70,608 in excess of that of the previous year, the principal increase being in the sum expended on repairs to irrigation works.

3. The extension and opening of the East Coast Canal are among the chief works mentioned in the report, which appears to the Board, on the whole, very satisfactory.

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4. The Board are also happy to observe that their observations on last year's report regarding the harmonious action of the Revenue and Public Works Departments may be repeated, the Collector in the last paragraph of his report speaking most highly of the efficiency of the latter department under the able administration of Mr. Smith, the Superintending Engineer.

(True Copies and Extract.)

(Signed) H. E. STOKES,
Acting Secretary.

No. 791.

ORDER THEREON, 28th July 1875, No. 2,195.

ESTABLISHMENT, No. 66-A.

COMMUNICATED to the Chief Engineer
for Irrigation and to the District Engineer,
Nellore.

2. The Government observe with satisfaction the testimony borne to the efficiency of the Department Public Works in Nellore and the interest taken by the Collector and his Subordinates.

(True Extract.)

Major, R.E.,
Offg. Joint Secretary to Government.

To the Chief Engineer for Irrigation.
" District Engineer, Nellore.
" Revenue Department.

Exd. A. Gruberf.

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