M.R.O. 1—77,606—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2412 Press Mis.

358-59

Dated 21 - 9 - 1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 21st September 1871.

No. 358. Read the following Proceedings of the Board of Revenue, dated 8th August 1871, No. 3,320 :—

Read the following letter from the Officiating Collector of the Kistna District, to the Acting Secretary to the Board of Revenue, dated 14th June 1871, No. 1,736.

I HAVE the honour to submit the report on the progress of Public Works in this district during the past official year. Separate reports having already been furnished to the Board on the progress of Salt and Local Fund works, this report will as usual be confined to the operations of the Department of Public Works from the allotments made to them from theImperial exchequer.

2. The allotment sanctioned in the Budget, exclusive of establishment, was Rupees 3,42,229. This allotment appearsto have been in the course of the year reduced to Rupees 3,30,770; but as the particulars of the modifications producing this result are not available in my office, I have adopted the Budget figures in the subjoined abstract, which exhibits in one view the allotment for the current year under each Budget head, and the expenditure in the year under report under the same as compared with that of the previous year. This Budget allotment is considerably less than the amount budgetted for 1869-70, but is nearly equal to the final reduced allotment sanctioned for that year in consequence of the apprehended deficit. The financial embarrassments were the cause of a reduced allotment having been sanctioned for the year under report :—

Items.	Allotment for 1870-71.	Expenditure in 1869-70.	Expenditure in 1870-71.	Comparison.	
				Increase.	Decrease.
Original Works.	RS.	RS.	RS.	RS.	RS.
Civil Buildings	5,680	5,494	3,084	.....	2,410
Agricultural	2,04,000	149,518	1,00,560	.....	48,958
Communications	500	37,574	387	.....	37,187
Miscellaneous Public Improvements.	.....	.....	677	677	.....
	2,10,180	1,92,586	1,04,708	677	88,555
Repairs.					
Military	741	.....	384	384	.....
Civil Buildings	4,000	2,468	2,770	302	.....
Agricultural	82,000	77,639	66,633	.....	11,006
Communications	40,390	29,838	35,048	5,210	.....
Miscellaneous Public Improvements.	500	4,267	6	.....	4,261
	1,27,631	1,14,212	1,04,841	5,896	15,267
Tools and Plant	4,418	51	2,905	2,854	.....
Total...	3,42,229	3,06,849	2,12,454	9,427	1,03,822
Deduct increase...	.....	.....	.....	.....	9,427
Net decrease..	.....	.....	.....	.....	94,395

3. The expenditure in 1870-71 appears to have amounted to Rupees 2,12,454 against Rupees 3,06,849 in its predecessor.

4. BUILDINGS (NEW WORKS).—The expenditure on the construction of new buildings amounted to Rupees 3,084, whereof the marginally noted were the most important, a major portion of the expenditure having been incurred on them. The first-mentioned work, which was sanctioned in July 1867, seems to have just been completed. The second and third belong to the Police Department, the former being reported to lave been completed except the asphalte flooring. The third and fourth seem o have also been completed. The other works executed during the year were seven in number, but most of them were sheds erected for the accommodation of Lock Gumastahs or the deposit of stores. The erection of the Subsidiary Jail woks, with out-buildings at Masulipatam and at Repalli and Tenali, and the Sub-Migistrate's Cutcherry at Tenali, on all of which expenditure more or less had been incurred prior to the deficit year when their further progress was stopped, were not re-commenced. Nor was the construction of any Revenue buildings undertaken; some of the Talook Cutcherries, such as those specified in the margin, are in much need of repairs, unsatisfactory also as to accommodation and ventilation. I would recommend that the requisite allotment should be provided at an early date, at least for the more important Cutcherries *at Bander and Bezwada.* The plans for Talook Cutcherries circulated in the Board's Proceedings* seem well adapted for the purpose intended, but I fear it may be years before any of the new Cutcherries sanctioned for the district can be begun.

		RS.	A.	P.
1.	Improvements to the Jail at Guntur	737	12	0
2.	Constructing a Police Station-house at Chebrole ...	684	7	5
3.	Do. at Kondapalli ...	679	15	1
4.	Construction of Range Office at Guntur	449	6	0

Bander. Bezwada. Vinukonda. Gudivada. Sattanepally. Narsarowpet.

* No. 1,278 of 24th March 1871.

5. The serious want of accommodation felt in the Collector's office, the ruinous state of parts of the out-offices, the risk of the valuable stamps and records being destroyed, have all on several occasions been brought to the notice of the Board and Government. Preparation of plans and estimates for improvements has been sanctioned, and I have communicated with the Superintending Engineer on the subject.

6. REPAIRS.—The Revenue buildings repaired during the year which were ten in number are given in the margin, with the expenditure incurred upon them, which amounted to Rupees 1,201. All these works appear to have been completed, except the repairs of the Talook Cutcherry at Bezwada, for which Rupees 23 having been expended out of the sanctioned estimate of Rupees 70, the work appears to have been stopped, but no cause is assigned. An estimate for

	RS.
Talook Cutcherry of Krosur	260
Do. of Vinukonda	200
Do. of Bezwada	23
Sub-Magistrate's Cutcherry at Tenali ...	37
Do. do. at Kykalur...	50
Sea Custom-house at Nizampatam ...	14
Do. at Ipuripolem ...	331
Salt Cutcherry at Bantumilly ...	272
Do. at Nizampatam ...	298
Vernacular Record-room's roof	16
	1,201

the repairs of the Talook Cutcherry at Bapatla and Sub-Magistrate's Cutcherry, Toomarakodu, amounting to Rupees 352 and Rupees 265, respectively, were sanctioned; but the works were not undertaken during the year. A sum of Rupees 144 appears to have been expended upon the travellers' bungalow at Weyur. The repairs to the Police Superintendent's Assistant's office at Guntur, the Range Office at Jaggiapett, the Police barracks at the same station, the anicut hospital at Bezwada, and certain Commissariat buildings appear to have also been completed. There were a few other minor works which do not deserve special mention.

7. AGRICULTURAL (NEW WORKS).—The most important point to be noticed in connection with this report is the transfer to this district of the section of the Bezwada and Ellore canal from Parikeed to Ellore which was hitherto attached to the first division. The grounds on which this transfer was made having been determined in the papers recorded in Government Order, dated 18th August 1870, No. 1,976, Public Works Department, it is unnecessary to recapitulate them here.

8. There was an allotment of Rupees 2,04,000 provided in the Budget under this head, and the actual expenditure, according to the Progress Reports for March 1871, amounted to Rupees 1,00,560 only, or nearly 50 per cent. of the allotment. The works which were completed during the year, with the amounts of their sanctioned estimates and the expenditure, are given below for the information of the Board:—

	RS.
Original Works	1,96,000
Minor New Works	8,000
Total...	2,04,000

	Estimate. RS.	Expenditure. RS.
Excavating a drainage channel to the part where there are four drainages and which at present falls into the Vellatoor drainage channel and restrict its means of irrigation	10,460	10,224
Widening Korlimerla channel in Bapatla Talook ...	8,430	8,430
Pullair project, estimated at Rupees 1,83,100. — Sluice and bridge at the head of alternative line	13,000	13,830
Constructing a calingulah at Weyur	5,600	5,492
Constructing a regulating sluice across the Pullair at Pamarru ...	7,000	5,125
Re-constructing a bridge across the cut of Hyderabad road on the channel connecting the Masulipatam canal with Pulleru near Pamarru	1,350	1,325
Improvements to the lower Pullair project	95,530	95,127
Construction of Fish ladder near the anicut	700	699
Construction of the Commamoor channel from 28th mile to the road from Inkollu to Nizampatam	1,90,090	1,74,034

All these works were completed during the year under report except the last one which is approaching completion. A few minor works also appear to have been completed.

9. In the previous year's report I pointed out that the channel from Vallabhapuram to tidal water on which Rupees 17,679 were expended was stopped for want of funds. I regret that the work was not re-commenced this year. Some little work was done during the year on the side irrigation channel from Duggirala to Nizampatam at an expenditure of Rupees 1,510, but the work seems to have been stopped for want of funds. An expenditure of Rupees 7,497 was incurred in enlarging the *main canal* from Seetanagaram to Duggirala. Owing to the incapacity of this most important canal in the Western Delta to hold an adequate supply of water, only 64,395 acres, or less than one-third of the contemplated area, has been brought under irrigation. Further outlay upon this work cannot fail to yield a good return. The two Delta Talooks on the southern side of the district being dependent on this and the Nizampatam canal, the work should be pushed on as vigorously as possible.

10. The Arimanda channel, which commands the Buddam and Allur lands, and for which Rupees 46,420 were sanctoned during the year, has not progressed well. The drainage in this part of the district is most unsatisfactory, and I trust that funds will be provided and the work completed at an early date, as otherwise much damage is annually caused to the District Roads in the neighbourhood, not to mention the postponement of the realization of increased revenue if the drainage was improved. The Masulipatm canal * enlargement for which Rupees 65,000 were sanctioned did not progress during the year to any great extent, only Rupees 2,318 having been expended. I understand that this work is now under execution.

Road from Ponnur to Sundole.
Do. do. Guntur to Ponnur.

* Included in Pulliar project.

11. The wants of the Divy Purgara were brought to the notice of the Board in my letter, dated 14th January 1870, No. 162, in which I pointed out that if the project could be carried out at an early date, a large extent of dry land about 12,192 acres, or nearly 20 per cent. of the Purgana, may be brought under the influence of irrigation, and an additional revenue of Rupees 1,05,544 realized, as the ryots are eager for irrigation; but Government in their Order, dated 4th May 1870, No. 1,148, observed that they were then unable to allot funds, and called upon the Superintending Engineer to report what progress had been made in completing the Delta estimate. I am not aware whether there is any early prospect of the work being put in hand.

12. In my letter, dated 13th December 1869, No. 376, I urged the necessity of allowing the construction of subsidiary channels to be proceeded with where feasible without interfering with the larger Delta projects, and in this proposal the Board acquiesced. Government, however, called for certain information from the Superintending Engineer, but many promising projects are waiting for the completion of surveys that the whole Delta scheme may be submitted in a complete form. Such, for instance, is the extension of the Kykalur channel from Atupaka to Uputoor. During the last Jummahbundy, the ryots numerously petitioned me for the extension of channels, and in some cases even offered to dig the channels themselves if the water-rate was remitted for one year. The completion

of the Delta scheme in its entirety will take much time. If the ryots are praying for water in localities where channels can be at once excavated without interfering with the main project, it is to be regretted that what would yield an immediate means of revenue is postponed. The following statement exhibits the works that were in progress during the year:—

Names of Works.	Amount of Estimate.	Expenditure up to previous year.	Expenditure in the year under report.
	RS.	RS.	RS.
Enlarging main canal from Setanagaram to Duggirala ...	2,76,400	1,45,836	7,497
Side channels from Duggirala to Nizampatam	56,740	51,690	1,510
Constructing rapid near the escape at Duggirala, widening and deepening channel	5,680	4,647	117
Channel with subsidiary works for the better of Bodam and Uttur lands	46,420	.....	2,976
Pullair project	1,83,100	98,496	25,369
Ryves' channel project	4,08,090	82,865	37,865
Excavating a new channel along western side of Masulipatam canal	49,800	38,626	7,174
Enlarging the head of Masulipatam canal	1,13,530	13,323	6,631
Excavating a new channel along east side of Maulipatam canal	15,610	13,752	561

13. AGRICULTURAL (REPAIRS).—The total expentiture on this account amounted to Rupees 66,633, and they were for repairing the anicut, main canals, branch canals, tanks, etc.

The total wet extent cultivated during the year was acres 167,402, acres 131,935 representing the extent of wet cultivation for the past three years is given in the margin, from which it will be observed that, notwithstanding the free option that was given to the ryots for re-converting their wet lands into dry, the year under report shows a steady increase of irrigated cultivation. This result is attributable to the favourable nature of the season. In the extent of dry land converted into wet there is a decrease of acres 2,630 in Fusly 1279, and an

	ACRES.
Fusly 1278	... 102,260
,, 1279	... 120,798
,, 1280	... 131,935

increase of 1,084 acres in Fusly 1280. In the talooks of Gudivada and Repalli the option of re-conversion was availed of largely. A statement showing the extent of dry lands converted into wet in the Delta Talooks for a series of years from Fusly 1265 is given below:—

Fusly.	Bandeb Talook.		Gudevada Talook.		Bezwada Talook.		Repalli Talook.		Bapatla Talook.		Total.	
	Land.	Assessment.	Land.	Assessment.	Land.	Assessment.	Land.	Assessment.	Land.	Assessment.	Land.	Assessment.
		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.
1265	.....	.....	2,131	2,339	.....	.....	.....	.....	318	1,896	2,449	4,235
1266	.....	.....	4,851	6,814	257	603	305	.....	4,737	28,326	10,150	39,702
1267	.....	.....	5,086	7,367	1,191	2,999	3,494	3,959	7,257	42,154	17,076	72,566
1268	.....	74	5,833	10,071	3,127	14,652	9,139	19,972	7,444	44,652	25,570	1,21,464
1269	.....	50	6,180	17,512	2,679	10,918	18,120	52,039	8,505	50,611	35,504	1,82,826
1270	.....	40	5,559	15,989	2,372	9,501	18,242	1,03,742	7,451	44,474	33,643	1,73,754
1271	.....	36	6,957	21,142	2,032	12,305	21,534	1,03,754	7,197	43,021	38,539	1,97,590
1272	.....	61	8,827	28,929	3,270	14,951	24,771	1,21,071	9,062	48,163	45,971	2,27,834
1273	.....	101	11,834	33,763	3,756	17,100	34,755	1,35,690	10,652	63,059	61,039	2,93,744
1274	.....	139	14,337	53,051	3,829	17,488	33,337	1,79,683	12,567	73,421	64,113	3,18,220
1275	.....	164	16,038	68,279	4,016	22,554	32,563	1,74,096	12,888	74,754	65,546	3,45,175
1276	.....	178	14,101	83,449	4,272	23,937	31,775	1,79,410	12,762	73,973	62,911	3,60,547
1277	.....	5	15,418	91,055	4,030	22,711	34,450	1,79,213	15,062	86,311	68,963	3,94,226
1278	.....	16	14,603	86,253	4,078	22,828	28,647	1,94,133	11,609	67,632	58,941	3,38,081
1279	.....	16	13,914	82,279	3,950	22,096	26,977	1,61,352	11,446	63,314	56,311	3,14,226
1280	.....	111	14,633	86,478	4,137	23,082	26,803	1,46,426	11,676	65,745	57,395	3,21,735
Total..	1,739	1,60,302	6,94,740	47,796	2,37,725	3,44,912	10,00,212	1,50,633	8,71,509	7,04,121	37,05,925	
Average...	124	10,019	43,421	3,186	15,848	22,994	1,26,681	9,415	54,469	44,008	2,31,620	

14. Irrigation Registers.—During the year under report much progress was made in the preparation of the Irrigation Registers. These important registers were called for from the talooks, but as the talook officials did not afford the requisite information, they had to be returned for revision. These registers have all now been completed and forwarded to the officers of the Department Public Works for any observations they may have to make on the descriptive remarks given in them. The results for the succeeding fuslies are being received, and when completely received, the compilation cannot but be of the highest use.

15. Good-water supply.—The only canals specially intended for this purpose in the Kistna District are those of Masulipatam and Nizampatam. For the former, an annual contribution of Rupees 1,346 is paid by the Municipal Commissioners, but there is much dissatisfaction at the supply being cut off from March to the middle of June, a period of more than three months in the dry season at which water is most wanted, and this is aggravated in Masulipatam by the water in almost all the wells being brackish. The Department Public Works cannot under present arrangements guarantee a continuous supply of water, though they do make arrangements to store as much water as is possible in the side canal. As the capacity of this canal is not equal to the requirements of the town, even the supply of stored water runs short at the very hottest part of the year. I would suggest the propriety of early steps being taken to secure to the Municipality a continuous supply of water, either by enlarging and deepening the canal so as to store in it a larger supply, or by doing the same to the Goolapalem tank through which the channel is now led to the town. This work, I should think, might be done at a moderate cost, and the outlay will be justifed by the annual contribution paid by the Municipality. In the current year the water in the canal having subsided to a depth below the level of the conduits in the town, the Executive Engineer applied for the payments of Rupees 8-2-0 per dien to the coolies employed to pump up water into the conduits. Even by this means it has not been possible to afford to the town a continuous supply. I presume this has now been absolutely cut off. These remarks apply with equal cogency to the Nizampatam channel.

16. Navigation.—In this as in the Godavery District traffic and passengers from one station to another proceed by means of transit boats where there are canals. The arrangements now existing are far from satisfactory. The boats are in great disorder, and anything like enforcing punctuality in starting and arriving is not attempted, to say nothing of the slow rate of motion. It is high time that some steps were taken to improve the means of inland traffic by these canals. The boats might be ordered to be built on a better plan. Animals might be substituted for men for the purpose of towing. The boat-owners might also be bound to charge uniform rates of fare from passengers and to grant them tickets. If a regular inquiry was instituted into the state of navigation in the Kistna and Godavery Districts, much useful information might be elicited; reforms are greatly wanted.

17. Communications (New Works).—There was no expenditure incurred on the only two trunk roads in the district. Materials are reported to have been collected for constructing a bridge across the Ellore high level channel at Perkid, but no work was commenced. The only two Imperial lines of communication

in the district are in exceedingly bad order. The importance of taking up these main lines of traffic has been on various occasions brought to the notice of the Board. The road from Masulipatam to Hyderabad has never been made on the Delta side of the district. When navigation is stopped much traffic passes along this road. In the interests of the sal; revenue as well as of traffic this should be undertaken without delay, unless arrangements can be made to permit navigation in the Masulipatam canal throughout the year. The importance of improving without delay the trunk road from Madras to Calcutta need not be dwelt on. It will suffice for me to observe that travellers coming from Madras get on easily as far as Ongole in the Nellore District, from which point they find it most difficult to travel any further by the same vehicles. I would strongly recommend putting the road from Ongole to Bezwada in thorough repair. It is proposed to introduce tolls; but where are the roads at present?

18. COMMUNICATIONS (REPAIRS).—The expenditure under this head amounted to Rupees 35,048. It was incurred chiefly for the maintenance of the two Imperial roads, for repairing towing paths along canals, for the repairs of the travellers' bungalow at Kommalapad, Rompicherla and Kankipad, and the repairs of a bridge across the Munjuloor swamp. The saltroad from Bantumilly to Arugolu was also repaired during the year.

19. MISCELLANEOUS PUBLIC IMPROVEMENTS.—The only point which deserves mention under this head is the fixing of a new Port Light Lantern at Point Divy during the year at an expenditure of Rupees 676-13-3.

ORDERED that the foregoing report be submitted for the information of Government.

2. The first point claiming notice in this report is the lamentable state of the public buildings as detailed in paragraphs 4 and 5. It will be many years before the district can be properly supplied with suitable offices, but it is to be hoped that a liberal grant will be made during the current year to enable the most important defects to be supplied.

3. Under the head of New Works Agricultural an allotment of Rupees 2,04,000 was made, but only Rupees 1,C0,560 were spent, and Mr. Boswell gives in paragraph 8 a list of important works which were completed. They form portion of the anicut scheme and do not call for detailed notice.

4. In paragraphs 9, 10, and 11, Mr. Boswell notices some of the Delta works which need early attention, and in paragraph 12 again points out that many highly promising schemes, which might be carried out at a moderate outlay, are postponed from year to year pending the preparation of a general report and estimates on the whole Delta project.

5. It is in the opinion of the Board much to be regretted that this state of affairs should be allowed to continue to the great detriment of the revenue of the district.

6. It is highly gratifying to read in paragraph 13 "*that, notwithstanding the free option that was given to the ryots for re-converting their wet lands into dry, the year under report shows a steady increase of irrigated cultivation.*"

7. It is also satisfactory to find that the Irrigation Registers have now all been completed.

8. The town of Masulipatam pays yearly Rupees 1,346 for the supply of fresh water for drinking purposes, but this supply fails them in the three hottest months of the year. It is highly desirable that efforts should be made to remedy this sad defect, either by the use of an alternative line of channel which is believed to exist for a great part of the distance from the anicut to the town, or by storing water in some convenient reservoirs as suggested by Mr. Boswell. The water in the wells in the town is so salt as to be unfit for drinking without much risk to health.

9. Lastly, the state of the navigation of the Kistna canals, as shown in paragraph 16, requires serious attention, and the Board suggest that Government might order a special inquiry and report on this subject both as regards the Kistna and the Godavery Districts.

No. 359. ORDER THEREON, 21st September 1871, No. 2,412.

ESTABLISHMENT, No. 43.

COMMUNICATED to the Superintending Engineer of the 2nd Division, who will, with reference to paragraph 2 of the Board's Proceedings, report the measures that are being taken for the repair and improvement of the public buildings of the district.

2. Paragraphs 4, 8 and 9 will be referred for the consideration of the Chief Engineer for Irrigation, and that Officer will be requested to report, after communication with the Superintending Engineers of the 1st and 2nd Divisions, what measures can be taken to improve the arrangements for the navigation of the canals in the Kistna and Godavery Districts.

3. The attention of the Superintending Engineer will be specially called to the state of the water-supply afforded to the town of Masulipatam which is reported to fail during three months of the dry season. The Government are desirous that measures should be embraced for the purpose of rendering the water-supply permanent and abundant as soon as possible. The Superintending Engineer will present plans and estimates for this purpose.

(True Extract.)

Captain, R.E.,
Under-Secretary to Government.

To the Superintending Engineer, 2nd Division.
" Chief Engineer for Irrigation.
" Board of Revenue.
" Revenue Department.

Exd. E. C. Shunker.

Dept. Dept. 112

No. 2442.

ceedings of the Madras Government

Dept. August 1871

Under date the 21st

Read the following

ceedings of the Board

of Revenue-

Here enter No 33207 8th Aug. 1871

Communicated to

the Superintending Engr.

-ineer of the 2nd Division

who will be referred to para

3 of the Board's Proceed-

-ings, report the measures

that are being taken for

the repair and improve-

-ment of the public build-

-ings of the District.

Paras 4, 8 and

9 will be referred for the

consideration

Dept. Dept. 112

No. 2412.

ceedings of the Madras Government

Under date 18th August 1871

Read the following

ceedings of the Board of Revenue.

Here enter No 3320 of 8th August 1871

Communicated to the Superintending Engr.

-ficer of the 2nd Division

-cluding with reference to para

3 of the Board's Proceed-

-ings, report the measures

that are being taken for

the repair and improve-

-ment of the public build-

-ings of the District.

Paras 4, 8 and

9 will be referred for the

consideration

Dft

Dft Depth 112

No. 2412

ceedings of the Madras Government

Under date the 21 August 1871

Read the following

ceedings of the Board

of Revenue-

Revenue enter No 33208 8th Augt 1871

Communicated to

the Superintending Engr

-neer of the 2nd Division

who will refer to para

3 of the Board's Proceed-

-ings, report the measures

that are being taken for

the repair and improve-

-ment of the public build-

-ings of the District.

Paras 4, 8 and

9 will be referred for the

consider

consideration of the Chief Engineer for Irrigation, and that Officer will be requested to report, after communication with the Superintending Engineers of the 1st and 2d Divisions, what measures can be taken to improve the arrangements for the navigation of the Canals in the Tanjore and Godavery Districts.

Aug. 31

46

6

Add -

The attention of the Supt. Engineer will be drawn to the state of the water supply at Kundeloor the head of Ramalingam which is reported to fail for days three months of the dry season. He is requested to examine and devise such measures as may be practicable for enhancing the supply.

To The Supt. Engr. 2d Div.
" Chief Engineer for Irrigation
" Board of Revenue
" Revenue Dept.

Desp. 23/9/84

shall be enhanced for the purpose of making the water supply permanent and abundant as far as possible. The Superintending Engineer will transmit Plans & Estimates for this purpose.

N

No 3953.

Govt of Madras.

PUBLIC WORKS.

To The Superintending Engr
2nd Division

Dated

Recd.

G. O 21st Sept. No 2412.

Nos. 3587-359

Public Works. Con. Mr. Ld
Fisher. with Plans &c. relative
to Rs. in the Cuddapah
Dist. 1870-71, Con. Mr. Ld
Fisher. Mr. Ld Rs. &
with his Enclosures.

C Copy 28 Augt 1872