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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No. <u>5570</u>	Press Mis.
Dated <u>10-2-43</u>	18

Not to be folded or roughly handled

17

*Proceedings of the Madras Government, Public Works Department,
7th October 1862.*

No. 92. Read the following Proceedings of the Board of Revenue, dated 17th September 1862, No. 6,236 :—

Read the following letter from G. THORNHILL, Esq., Collector of the Kistna District, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Masulipatam, 25th August 1862, No. 200.

SIR,

1. I have the honor to submit the following report on the operations of the Department of Public Works for the Official year 1861-62.

2. The marginal Statement shows a net decrease of Rupees 46,475 in the expenditure on all new works and repairs in the year under report.

3. **NEW WORKS. Irrigation.**—Of Rupees 1,33,833 on account of new works of irrigation, Rupees 33,405 were spent on Captain Ryves' new channels, which were designed to improve the supply of water to Gudivada Taluq. These channels were not completed prior to the close of the cultivation season, and

were only partially made use of; their full value has therefore yet to be tested. Rupees 35,753-0-0 were laid out on Masulipatam Canal, which has been completed to within a short distance of the Masulipatam Fort. The tidal lock is now under construction, and when completed the navigation from Bezoarah to the sea will be uninterrupted. The communication between the Kistna and Godavery only awaits the completion of some works near Ellore in the Godavery District.

	Rs.
For sloping down the banks of the main channel from Sektanagaram.....	12,388
Kutchepudy lock on Nizampatam Canal.....	10,983
Lock and Calinguleh at Inturu.....	15,260
Total..	38,531

4. Rupees 38,531 were expended as noted in the margin on the Nizampatam Canal. The first item is for increasing the capacity of the upper reach of the canal; when complete, it will afford a much improved supply of water to the Guntoor delta. The second item is for the construction of the Kutchepudy lock

at the termination of the second reach of the canal; this work has been completed since the close of the official year, and the Inturu, or third lock, is advancing rapidly. The remaining sum was spent on minor new works.

Faslis,	Land cultivated by means of Anicut irrigation.	Jamabundy.
	Acres.	Sist.
1270	84,250	3,61,801
1271	1,01,868	4,24,989

5. There was a large increase in the extent of land watered by the Anicut channels in Fasli 1271, as compared with that watered in 1270, as shown in the margin.

6. **Communications.**—Of Rupees 32,834 spent under this head, Rupees 16,481 were expended on the high road between Bezoarah and the Hyderabad frontier.

From the frontier to Ibrahimpatam* the road is now in first rate order. I had the opportunity of personally inspecting the whole of it, and the skill and care with which it has been constructed and maintained, reflect the highest credit on Major Pollard, the Officer in charge. For that portion of it from Bezoarah to Ibrahimpatam sanction was only received late in the official year, and Rupees 1,633 only were spent. It is a difficult piece of

Works.	Expenditure in 1860-61.	Expenditure in 1861-62.	Difference.		Estimate for 1861-62.
			Increase.	Decrease.	
New Works.	Rs.	Rs.	Rs.	Rs.	Rs.
Irrigation.....	2,01,054	1,33,833	.....	67,221	.....
Communications.....	10,954	33,834	21,880	.....	.....
Buildings.....	2,990	10,861	7,871	.....	.....
Total....	2,14,998	1,77,528	29,751	67,221	....
Repairs.					
Irrigation.....	97,934	88,756	.....	9,178	.....
Communications.....	17,928	18,656	728	.....	.....
Buildings.....	8,037	7,492	.....	555	.....
Total	1,23,900	1,14,904	728	9,733	..:
Grand Total.....	3,38,907	2,92,432	80,479	76,954	2,95,587
			Deduct Increase..	30,479	
			Net Increase ..	46,475	

Proceedings of the Madras Government, Public Works Department,
7th October 1862.

road to make, but now that funds have been made available, I do not doubt that it will be placed in the same good state as the upper portion.

7. Rupees 5,514 were spent on the timber bridge across the canal in the Town of Masulipatam. This bridge is open to traffic of all descriptions except elephants. Rupees 6,862 were expended in bridging the Romperu creek on the approach to the Chinna Ganjam Salt pans. The old bridge had fallen in, and the creek was almost impassable until this bridge was completed. The rest was on minor works.

8. *Buildings.*—The increase under this head was owing to the construction of Soldiers' rest houses at Bezoarah and Sheir Mahommud Petta, and huts for Police Constabulary, &c., as particularized in the margin. Besides the above, Rupees 962, were expended in constructing a verandah to the Zillah Court House at Masulipatam, and Rupees 1,217 were laid out in enclosing an additional space in the burial ground in the Fort of Masulipatam, Rupees 2,200 were paid for the purchase of the Lock Bungalow at Bezoarah for the office of the District Engineer. The rest was spent on minor new works.

9. *REPAIRS. Irrigation works.*—Rupees 88,756 have been expended in repairs of irrigation works, of which Rupees 12,262, are due to the Anicut and head works. The remainder was spent on channels in the delta, and on tanks unconnected with the Anicut: some of these works are specified in the margin.

10. The large outlay under this head is rendered necessary by the heavy accumulation of silt in the channels. It is found necessary to close the main canals for three months for this purpose, and even then the supply of labour is not sufficient to admit of the entire clearance requisite being performed.

11. *Communications.*—Portions of Trunk Road No. 6 have been repaired at an expenditure of Rupees 3,778, but so small an outlay has but little effect on the general character of the road. It is, as a whole, very bad; and I recommend most strongly that it be put in good order; whether as a portion of the high road from Calcutta to Madras, or with reference to local requirements this is urgently needed.

12. The road from Bezoarah towards Masulipatam has been partially repaired, a maintenance allowance of Rupees 150 a mile has been granted for this road, and I hope in a few years this will effect some improvement.

13. An expenditure of Rupees 3,000 has been incurred in maintaining 30 miles of No. 7 Trunk Road from Koppurpad to Nekkukul; Rupees 1,482 was expended in repairing the worst portions of the same line between Nekkukul and Pondugul.

The first named section of this road* has had some money expended on it of late years, and with some benefit I believe, for I have not been able to inspect it. That portion of it which I have seen, viz., from Piduguralla to Pondigul is very bad indeed. Near to the latter place the line passes over masses of marble and slate, thinly covered in places with black soil. In wet weather this becomes so slippery that a horse with difficulty keeps his feet. It is part of a most important line, and I strongly urge the necessity of its repair.

14. Under this head is also included the maintenance allowance for the road between Ibrahimpatam and the Nizam's frontier; as above stated, this has been most efficiently attended to.

Travellers' Bungalow at Nekkukul.....	Rs.	A.	P.
Do. Bezoarah	119	15	1
Do. Moongal	28	10	0
Do. Comarabanda	8	0	0
Do. Ramachandra Apparojett	2	0	0
Do. Masulipatam	154	12	11
Do. Weyur	16	14	3
Do. Needumole	135	0	0
Do. Mangalageri	79	9	0
Do. Inkalla	6	0	0
Do. Inkalla	133	0	0
Total.....	773	13	3

15. The remaining amount under this head was expended on repairing bridges and road tunnels, &c.

16. *Buildings.*—The Travellers' Bungalows noted in the margin were repaired. Rupees 5,259-11-9 were laid out in the repair of salt works. The remaining amount under this head was spent on minor repairs.

1. Ordered that the foregoing report on the operations of the Public Works Department in the Kistna District in 1861-62, be submitted for the information of Government.

Total expenditure in 1860-61.....	Rs.
Do. do. 1861-62.....	3,38,907
	2,92,432
Decrease Rupees....	46,475
Decrease in new Irrigation works.....	Rs.
Do. in Irrigation repairs.....	67,221
	9,178
	76,399

2. The total outlay on public works in the year under report was 2,92,432 Rupees, or Rupees 46,475 less than the aggregate expenditure of the previous year. The chief decrease took place in Irrigation works, to the amount of Rupees 76,399, being Rupees 67,221 on new works, and Rupees 9,178 on repairs. Against this decrease, plus a small decrease of 555 Rupees on repairs of buildings, must be set off increases of (new 21,880 + repairs 728 =) 22,608 Rupees on communications, and 7,871 Rupees on new buildings; so that the net decrease is 46,475 Rupees as noticed above. From the last column of the abstract Statement in the margin of paragraph 2, the estimated expenditure of the year would appear to have been 2,95,587 Rupees, so that the actual expenditure fell short of the Estimate by only 3,155 Rupees.

3. Out of a total expenditure of 1,33,833 Rupees on new Irrigation works, 1,07,689 Rupees was spent on the undermentioned projects, and the remainder, Rupees 26,144, on minor works:—

Captain Ryves' new channels.....	Rs.
Masulipatam Canal.....	33,405
Nizampatam Canal.....	35,753
	38,581
Rupees.....	1,07,689

The full value of the first work, the Collector says, has yet to be tested, as the channels were not completed until about the close of the cultivation season. The second work is complete to within a short distance of the Masulipatam Fort. The Collector appears to be well satisfied with the progress that has been made on the third work, or the Nizampatam canal. As compared with the previous year, there was an increase of 17,618 acres in Fasli 1271 in the extent of land watered by the Anicut channels, with an increase in the Jamabundy Sist of 63,188 Rupees.

4. The Irrigation repairs amounted to 88,756 Rupees, 12,262 Rupees of which the Collector states were expended on the Anicut and head works, and the remainder on the delta channels, and on tanks not connected with the Anicut. The Collector specifies six of these channels in paragraph 9 of his letter, the outlay upon the repair of which was 66,875 Rupees, and explains that this large expense was necessary to clear out the heavy accumulation of silt that had taken place.

5. The expenditure on Communications was 32,834 Rupees on new works, and 18,656 Rupees on repairs, the corresponding outlays in the previous year having been 10,954 Rupees and 17,928 Rupees respectively. The Collector notices but one new work under this head, viz. the high road from Bezwarah via Ibrahimpatam to the Hyderabad frontier, upon which 16,481 Rupees was laid out in the year under report. Sixty-six miles of this road (from Ibrahimpatam to the frontier) are said to be in first rate order, reflecting the highest credit on Major Pollard the Officer in charge; the lower portion, viz., between Bezwarah and Ibrahimpatam, although a difficult piece of road to make, will be taken in hand, as funds are now available for the purpose. It is not necessary to notice the Collector's remarks on the road repairs, except in respect to Trunk roads Nos. 6 and 7. In paragraph 11, he states that so small an outlay as 3,778 Rupees in the repair of the first has had but little effect on the general character of the road, which he describes to be very bad as a whole; and the Board would strongly advocate his proposal to put it into thorough order, both on account of its local importance as of its forming the high line of communication between Madras and Calcutta. In paragraph 13, Mr. Thornhill describes the portion of Trunk Road No. 7 between Peduguralla and Pondigul, which he has seen himself, to be "very bad indeed," the line near the latter place passing over "masses of marble and slate thinly covered in places with black soil," and in wet weather becoming "so slippery that a horse with difficulty keeps his feet." As this also is an important communication, the Board would strongly urge its thorough repair likewise.

*Proceedings of the Madras Government, Public Works Department,
7th October 1862.*

6. Under the head of buildings, there was a total expenditure of 18,353 Rupees, or a net increase of 7,316 Rupees over that of the previous year, chiefly owing to the construction of Soldiers' rest-houses and huts for the Police as explained by the Collector in paragraph 8. A sum of Rupees 5,259-14-9 was laid out in the repair of salt works, and ten Travellers' Bungalows were repaired at the trifling cost of Rupees 773-13-3.

7. The Board consider the general results reported by the Collector to be satisfactory, and they take this opportunity to record their high appreciation of the thoroughly harmonious working of the Department Public Works under Major Anderson in this District, with the Revenue Department under the Collector, which they have had frequent occasion to remark, and which cannot but be most conducive to the welfare of the District.

(A true Copy and Extract.)

(Signed) W. HUDLESTON, Secretary.

No. 93. ORDER THEREON, 7th October 1862, No. 2,390.

The attention of the Deputy Chief Engineer, Northern Circle, is particularly requested to the remarks contained in paragraph 5 of the Board's Proceedings and in paragraphs 11 and 13 of the Collector's letter submitted herewith.

(Signed) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

No. 6,236.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 17th September 1862.
Read the following letter from G. THORNHILL, Esq., Collector of the Kistna District, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, Madras, dated Masulipatam, 25th August 1862, No. 200:—

Works.	Expenditure in 1860-61.	Expenditure in 1861-62.	Difference.		Estimate for 1861-62.
			Increase.	Decrease.	
New Works.	Rs. 2,01,054	Rs. 1,83,833	Rs. 21,880	Rs. 67,221	Rs.
Irrigation.....	10,954	32,834	7,871	.....	.....
Communications.....	2,990	10,861	.....	.....	.....
Buildings.....					
Total....	2,14,998	1,77,528	29,751	67,221	.....
Repairs.					
Irrigation.....	97,934	88,756	728	9,178	.....
Communications.....	17,923	18,656	.....	553	.....
Buildings.....	8,047	7,492	.....	.....	.....
Total....	1,23,909	1,14,904	728	9,733	
Grand Total....	3,38,907	2,92,432	30,479	76,954	2,93,587
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4. Rupees 38,531 were expended as noted in the margin on the Nizampatam Canal. The first item is for increasing the capacity of the upper reach of the canal; when complete, it will afford a much improved supply of water to the Guntoor delta. The second item is for the construction of the Kuchepudy lock at the termination of the second reach of the canal; this work has been completed since the close of the official year, and the Intur, or third lock, is advancing rapidly. The remaining sum was spent on minor new works.

5. There was a large increase in the extent of land watered by the anicut channels in Fasl 1271, as compared with that watered in 1270, as shown in the margin.

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	Rs.	
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(A true Copy and Extract.)

23901 *Anderson*
Secretary.

To Honorable T. Pycroft, Chief Secretary to Government.

Copy to Colonel W. I. Birdwood, R. E., Chief Engineer, P. W. D.

„ to W. D. Horsley, Esq., Sub-Collector in charge of the Kistna District.

The attention of the Deputy Chief Engineer, Northern Circle is particularly requested to the remarks contained in para 5 of the Board's Proceedings and in paras 11 and 13 of the Collector's letter submitted therewith.

To the Dy. Ch. Engr. A. C. Dispr. 8th
Ed. J. Wright.

17.15.
Chesham 7th October 1862.

Submitting with the Board's remarks a report from the Collector of the Kistna District, as to the operations of the Department of Public Works for the official year 1861-62.

No. 6,236.

Dated 17th September 1862.
Despatched 22nd 1862
Received 24th 1862

PROCEEDINGS OF THE BOARD OF REVENUE

No. 2870

1862. Department.

17.15.
Chesham 7th October 1862.