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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No.	353	(W)	Press ~~Mis.~~
Dated	4-7-		1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT

4th July 1877, No 353 W

Buildings and Roads.
Civil Works

Read the following paper —

No. 33. Proceedings of the Madras Government in the Revenue Department,
dated 3rd July 1877, No 2,192

Proceedings of the Court of Wards, dated 16th May 1877, No 2,246

ABSTRACT.—*Purla Kumedj Estate*—under charge of Court of Wards in Ganjam
District—Reviewing Public Works Budget of — for official year ending 31st March
1878

COMMUNICATED to the Public Works Department
(True Extract.)

(Signed) C G. MASTER,
Secretary to Government

No. 34. ORDER THEREON, 4th July 1877, No 353 W.
COMMUNICATED to the District Engineer, Ganjam
(True Extract.)

(Signed) E A FOORD, Colonel, R E,
Secretary to Government, P.W D.

To the District Engineer, Ganjam
„ Examiner of Public Works Accounts.

Exd T D Ryan
Spare Copies

Revenue Dep^t
Proceedings of the Madras Government
Read the following

No 2,246.

PROCEEDINGS OF THE COURT OF WARDS, dated 16th May 1877.

Read the following letter from C G MASTER, Esq., Collector of Ganjam, to H. E STOKES, Esq., Secretary to the Court of Wards, dated Mohana, 2nd March 1877, No 907 —

I HAVE the honor to submit the Public Works Budget of the Purla Kimedya estate for the official year 1877-78, together with its accompaniments as noted in the margin

- 1 Public Works Budget
- 2 Enclosure 1—New Works—Buildings, Agricultural, and Communications
- 3 Enclosure 2-A—Repairs to Buildings
- 4 Enclosure 2-B—Do to Irrigation Works (This enclosure will be sent shortly)
- 5 Enclosure 2-C—Repairs to Communications
- 6 Enclosure 3—Details of Establishment

2. The Budgets were drawn up by the District Engineer in September 1876 and sent to the Principal Assistant Collector, who forwarded them to me with his letter, dated 17th January 1877, No 22, of which a copy is enclosed.

3 No plans and estimates were received with the Budgets nor any report from the District Engineer as in the case of the current year's Budget. Some estimates have been subsequently transmitted by the District Engineer direct to my office and are alluded to in their appropriated places in the enclosures

4 The Acting Principal Assistant Collector says in paragraph 5 of his letter "no plans and estimates for these various works have been sent to me, although reference has been made to various reports, &c, in the remark column of the Budget. Mere statements accompanying this letter are all that the District Engineer sent to me" The Court have on several occasions insisted upon the punctual submission of plans and estimates and a full report explaining every item, but no improvement in this respect is shown by the Department of Public Works since the Court's orders were issued (*vide* Circular Memorandum, dated 12th June 1874, No 778, and paragraphs 2, 5, and 6 of Court's Proceedings, dated 6th October 1875, No. 2,801, on Budgets for 1875-76)

5 I have supplied in the Budget certain items which were either omitted or insufficiently provided for by the District Engineer

6 I now proceed to describe the details of the Budget under report as compared with that of the current year

Budget—The total expenditure budgeted for 1877-78 is Rupees 1,06,153 against Rupees 93,792 in the current year

7. *Enclosure 1—New Works—*(a) Buildings.
 (b) Irrigation Works
 (c) Communications.

Buildings—1877-78	RS
1876-77	10,235
	5,400

The works entered in the statement are as follows —

1 Improvement to Kimedya Sub-division Range Office	RS
2 Tiling the roofs of the Collector's Cutcherry and Circuit Shed	418
3 Construction of a bungalow for the accommodation of the Medical Officer at Kimedya	1,980
4 Constructing a bungalow and out-houses in the Brundavanam garden for the use of the Zemindar	2,837
	5,000
Total	10,235

Estimate for Work No. 1 has been sanctioned in Court's Proceedings, dated 15th June and 31st July 1876; Nos 4,956 and 6,443, respectively. Work No. 3 is undertaken with reference to Court's Proceedings, dated 12th December 1876, No 10,932

The necessity for Works Nos 2 and 4 which are new is explained in the statement.

8. Enclosure 1—(b) Irrigation New Works—

1877-78	RS.
1876-77	38,903
	31,414

The works provided in this statement are enumerated thus —

*1	Kristnasagaram Improvements	RS
2	Restoration of Sarakristna Sagaram tank	8,700
3	Kimigam gedda project	1,830
4	Calingulah to Koorma gedda	2,313
5	Under tunnel of Nagarikatakam channel	6,000
6	Weir to Caluva gedda of Addubang	1,034
7	Alterations and additions to Battisripuram anicut project	686
8	Gazapatisagaram improvements and its subsidiary works	4,000
9	Ramapuram Radhasagaram project	1,500
10	Improvements to Sobhara Nulla tank	2,000
11	Constructing a calingulah to Marripadu gedda	1,108
14	Do a calingulah and a sluice for Nimalapadu tank	800
20	Constructing a calingulah and two sluices to Bavapuram tank	600
32	Construction of a calingulah bridge in Battisripuram Anicut Channel bank at Bagadypooru	600
12, 13, 15, 16, 17, 18, 19, 21 to 31	minor works, each costing less than 500 each	1,345
		6,387
	Total	38,903

*Sanctioned in Court's telegram, dated 6th March 1877

The necessity of these works is explained in the remarks in the statement

9. Estimates for Work No 1 were sanctioned in Court's Proceedings, dated 26th May 1876, No. 1,379, but in paragraph 14 the Court directed the submission of a clear estimate of the financial results of the work, and two reports on the subject have been submitted (*vide* remark in statement). The work is at a stand-still pending final orders, though I am of opinion that the Court did not intend that action should be postponed.

10. Estimates for Works Nos 2—6 were sanctioned in Court's Budget Proceedings, dated 26th May 1876, No 1,379; 5th July 1876, No 5,611, 21st October 1876, No 8,385, and 2nd November 1876, No 9,429. Works Nos 7—10 and 26 and 28 are newly provided for.

11. Works Nos 11, 12, 13, 14, 16, 18, 19, 20, and 21 were provided for in the current year's Budget, but not commenced in the current year as plans and estimates have not yet been received for submission to the Court. Plans and estimates for Works Nos 10, 15, 17, 22, 23, 24 and 25 were received from the District Engineer long before this Budget was prepared by him, but were returned for further explanation as to their necessity and utility, &c.—*vide* my letter (copy enclosed) to him, dated 11th August 1876, No 2,701.

The District Engineer has not taken any notice of my letter, but has merely entered the works in the present Budget. Nos 29—32* are new works for which plans and estimates accompany this report for the Court's sanction. These four works were not entered by the District Engineer in his Budget, but sent to me with separate letters while this Budget was under preparation in my office.

12. The total amount provided for Irrigation New Works exceeds the current year's Budget by Rupees 6,021. The increase is due to (1) the inclusion in this Budget of certain works, as stated above, entered in the last Budget, (2) the increased number of works as compared with the last Budget; (3) my having transferred to "Allotment" about Rupees 3,920 entered by the District Engineer under computed expenditure against Works Nos. 10—21, 23, and 25, although the works have not been commenced nor the estimates sanctioned as yet.

13. Enclosure 1—(c) Communications, Rupees 12,000—

	By D P W	By Other Agency
1877-78	RS	RS
1876-77	11,000	+ 1,000
	16,000	+ 3,000

The following works are entered in this statement —

1	Ghaut Road for good wheeled traffic up the Ganma Pass	RS
2	Tunnels on Mahab roads	7,000
3	Avenues on road sides	1,000
4	Drainage of the Town of Purla Kimedya	2,000
	Total	12,000

Nos 1, 2, and 3 are the same as those entered in the current year's Budget (*vide* paragraph 14 of Court's Proceedings, dated 26th May 1876, No 1,379), but nothing was spent on account of the first two during the current year.

I have repeatedly asked the District Engineer to submit a complete scheme for Work No 1, and told him that the Court are very anxious about it. A separate report will be submitted—*vide* my remarks in the Statement I.

14. No 2—The provision under this item is made with reference to Court's Proceedings, dated 21st February 1876, No 513.

Estimates have not been prepared as yet, though this item is shown for the last two years, and no money has therefore been spent. This work will be executed under the supervision of the Principal Assistant Collector, and is therefore entered in the Budget subject to sanction of estimates.

15. No 3 calls for no remark as it is a desirable item, and Rupees 1,500 were provided in the current year's Budget.

16. No 4 is a new item, the necessity of which has been explained in my predecessor's letter recorded in Court's Proceedings, dated 12th April 1876, No 3,134. The District Engineer has with his letter, dated 17th February 1877, No 218, forwarded survey and plan of masonry works with estimates for constructing side drains and tunnels in the streets of the town of Purla Kimedya at a total cost of Rupees 17,270. The Principal Assistant Collector has not yet had an opportunity of expressing his opinion on this very large estimate, and I am therefore forwarding it to him for that purpose. I will hereafter send it on to the Court, and in the meantime the provision made in the Budget may be allowed to stand.

17. On the whole the amount provided for communications is far less than that entered in the current year's Budget, and the provision may stand.

18. The further explanation awaited by the Court in paragraph 14 of their Proceedings, dated 26th May 1876, No 1,379, in regard to the proposed alternative line in the road from Kimedya to Kinchilingy is still due from the District Engineer who was asked on the 21st July to submit it as early as possible, and has been subsequently reminded of its non-receipt.

19. Enclosure 2-A—Repairs to Buildings—

1877-78	RS
1876-77	800
	1,500

- 1 Mr Taylor's bungalow.
- 2 Collector's shed
- 3 Forest Overseer's bungalow
- 4 School building
- 5 Manager's office
- 6 Police Assistant Superintendent's bungalow
- 7 D P W. Sub-Division Office

This provision consists of the amount annually required for repairs to the marginally-noted buildings, and calls for no remark, as it is far less than that of the current year's grant.

20 Enclosure 2-B—Irrigation Repairs—

	RS.
1877-78	17,070
1876-77	12,000

Provision is made for the following works—

	RS
1 Battisimpuram anicut and its subsidiary works	1,000
2 Goppin and Lakshma nasagaram tank	720
3 Ramapuram Ramaswami tank	500
*4 Raising and widening of Radhasagaram tank	1,710
†5 Restoration of Battisimpur anicut	3,360
6 Petty repairs less than 500 Rupees each	7,780
7 Probable amount of unexpended balance on works incomplete upto 31st March 1877	2,000
Total	17,070

21 Items Nos. 1, 2, and 3 are provided for annual repairs and may stand in the Budget subject to sanction of estimates

22. No list of works requiring petty repairs for less than Rupees 500 each has been sent by the District Engineer as yet. I see however no objection to retain this and the next item (unexpended balance of incomplete works) in the Budget as they are intended to meet necessary annual repairs subject, of course, to sanction by me or by Court of Wards as the case may be.

23 Enclosure 2-C—Repairs to Communications—

	By D P W	By Other Agency
	RS	RS
1877-78	8,100	1,000
1876-77	7,800	1,000

The small increase of Rupees 300 under this head compared with the Budget provision for 1876-77 is due to the upkeep of two new roads. This provision is made for the upkeep of the 13 roads entered in the statement, of which two are newly constructed in the current year, while the rest are the same as those entered in the last Budget.

	MILES	24 The total length of these 18 roads amounts to 115½ miles, of which 19½ are provided with a maintenance grant of 100 Rupees per mile, 7 miles (No 14 in the statement) from Kanduba to Bushuba via Vallada with 80 Rupees per mile, and the remaining length with 55 Rupees per mile as in the last Budget.
† 1 Road from junction to Varnasi road to Gumma via Munsingri	9	
13. Road from Zemindar's palace to Boorgam	3½	
9 Kimedy to Kinchilingi road, 20 miles, first	7	

25 The usual lump sum of Rupees 1,000 is provided for the upkeep of the Mahah roads which are estimated at 52½ miles in length.

26. The item of Rupees 176 provided for repairs of ferry boats calls for no special remark.

27. A discretionary allowance of Rupees 500 is provided for town roads in Kimedy as in the last Budget

28. Enclosure 3.—Details of Establishment—

	RS
1877-78	14,745
1876-77	12,318

This statement gives the particulars of establishment. The increase of Rupees 2,427 against the last Budget is the net result of increase and decrease of the following items—

* This is newly added to the list with reference to the accompanying estimate received from the District Engineer since preparing the Budget Statements

NOTE—The estimate has been sent to the Principal Assistant Collector for his opinion and will be submitted soon after its return.

† The necessity for the work has been explained in the specification report submitted with my letter, dated 30th January 1877, No 437, vide also remarks in the statement

5

	RS
Monthly increase in Sub-Divisional Establishment by	37 × 12 = 444
(a) Difference between special and 3rd-class Range Office Establishment including travelling batta	80 × 12 = 960
(b) Travelling allowance of Supervisors	9 × 12 = 108
(c) Pensionary contribution of Government servants lent to the estate	121½ × 12 = 1,455
Total	2,967
(d) Decrease in Survey Establishment	90 × 6 = 540
Total Increase	2,427

29. I have called upon the District Engineer to explain the cause of the increase in the above items as compared with those of the current year's Budget. The provision under these items may stand in the Budget pending his explanation, which will be submitted on receipt

30 On this subject as well as on that of pensionary contributions, I beg to refer the Court to my letter, dated 16th February last, No 645

31. Petty Establishment—Rupees 600 are provided as in the last Budget

32 Irrigation Conservancy Establishment—The provision of Rupees 1,560 made in this Budget is the same as in the current year's Budget. But the Court in paragraph 24 of their Proceedings, dated 26th May 1876, No 1,379, allowed this figure to stand subject to further explanation as to the necessity for the increase of the Establishment as compared with the Budget for 1875-76. The Sub-Divisional Officer's letter, dated —, No 33, received with the District Engineer's letter, dated 15th November 1876, No 182, giving further explanation, is herewith submitted for Court's perusal. The District Engineer has himself made no separate report on the subject.

33 The following statement shows in abstract the different items budgeted for 1877-78—

Items.	By D P W	By Other Agency	Total.
Buildings	10,235		10,235
Repairs	800		800
Reserve			
Irrigation Works	38,903		38,903
Repairs	17,070		17,070
Reserve	1,000		1,000
Communication	11,000	1,000	12,000
New Works	8,100		8,100
Repairs	1,000		1,000
Reserve			
Establishment	14,745		14,745
Stationery	500		500
Tools and Plant	800		800
	1,04,153	2,000	1,06,153

	RS
New Works	61,138
Repairs	26,970

34 Rupees 2,000 are provided under reserve to meet the emergent repairs to Irrigation Works and Communications in the rainy season and extraordinary floods

35. The provision under Stationery and Tools and Plant is the same as in the current year's Budget

36 I beg that I may be supplied with seven copies of the Budget statements when printed with reference to Court's Miscellaneous Proceedings, dated 1st August 1876, No. 6,478

37. For the deficiencies in this report and its late submission, I have to express my regret. The Principal Assistant Collector's letter did not reach my office till after I had left for the Mahahs, and my absence at a distance from headquarters as well as recent changes in my Office Establishment, added to the necessity of including the most recently received estimates of works, have tended to delay the preparation of the Budget.

ENCLOSURE No 1
Public Works Budget of the Purla Kimedy Estate for 1877-78

Items	ESTIMATE FOR 1877 78				Estimate for 1876 77	Actuals for 1875 76
	By Public Works Department	By Other Agency	Detail Minor Heads	Detail Major Heads		
I Buildings—						
1 New Works ...	RS 10,235 800	RS ..	RS 10,235 800	RS ..	RS 5,400 1,500	RS 4,311 707
2 Repairs ..	..	..	..	..	..	..
3 Reserve ..	..	..	..	11,035	..	..
II Irrigation Works—						
1 New Works ..	38,903	..	38,903	..	31,414	6,162
2 Repairs ..	17,070	..	17,070	..	12,000	8,275
3. Reserve ..	1,000	..	1,000 (a)	..	1,000	..
III Communications, including Avenues—						
1 New Works (including Avenues)	11,000	1,000	12,000	..	19,000	15,619
2 Repairs ..	8,100	1,000	9,100	..	8,800	7,590
3 Reserve ..	1,000	..	1,000 (b)	..	..	..
IV. Establishment—						
1 Range Establishment ..	11,505	..	11,505	..	8,538	6,818
2 Petty Establishment ..	600	..	600	..	600	..
3 Irrigation Conservancy Establishment ..	1,560	..	1,560	..	1,560	..
4 Survey Establishment ..	1,080	..	1,080	14,745	1,620	414
V. Stationery and other Contingencies—						
1. Stationery ..	500	..	500	..	500	837
2 Tools and Plant ..	800	..	800	..	800	..
Total	..	..	..	1,06,153	93,792	50,763

NOTE—The necessity for the above items, except the three marked (a), (b), and (c) has been explained against each work in the statements appended. The provision of Rupees 1,000, each marked (c) and (b), is to meet emergencies in the rainy season and extraordinary floods, and that marked (c) is for purchasing stationery and supply-
ing tools, such as pickaxes, manholes, crowbars and hammers, &c, which are said to be badly wanted in the estate.

ENCLOSURE No 2
Enclosure 1 to the Budget—New Works

Kind	Locality	Project Description	Estimated Amount		Computed expenditure up to 1st March 1877	Expenditure, 1877 78			Remarks about the necessity and advantages of early work or date of the order sanctioning the work
			By D P W	By Other Agency		By D P W	By Other Agency	Total	
1	2	3	4	5	6	7	8	9	10
			RS 863	RS 1,980	RS 863	RS 445	RS 418	RS 418	RS 418
		1 Improvements to Kimedy Sub division Range Office							
		2 Tiling the roofs of Collector's Quarters or Current Shed.	1,980		1,980	..	1,980	1,980	1,980
		3 Construction of a bungalow for the accommodation of the Medical Officer at Kimedy					2,837	2,837	2,837
		4 Constructing a bungalow and out houses in the Brundavanam garden for the use of the Zemindar					5,000	5,000	5,000
		Total					10,235	10,235	10,235

This work was sanctioned in Court's Proceedings, dated 15th June and 31st July 1876, Nos 4 456 and 6,443, respectively. Rupees 418 are required to complete the work. This work consists of constructing a wall around the compound and the erection of a store shed in the compound. The estimates were sanctioned in the above Proceedings.

The particulars of this building are fully explained in the remarks in enclosure to A (Repairs to Buildings) of the current year's Budget. The District Engineer states that "the thatched roofs of buildings are always subject to leakage constant repair, and danger. It is consequently proposed to build a tiled one." The Principal Assistant Collector's remarks on this are as follows—"The State Public Works Officers allowed them to go entirely to ruin in spite of repeated rapid remonstrances from me." He agrees with the District Engineer in thinking that tiling is absolutely necessary. I concur with both in this opinion. No estimate has yet been sent by the District Engineer. He has been asked to send the same as early as possible. This item may stand in the Budget subject to sanction of estimate by the Court.

The Court sanctioned the construction of this building in their Proceedings, No 10,942, of 12th December 1876. Plan and estimate accompany.

Estimates are in preparation. The Principal Assistant says that "the Purla Kimedy Zemindar has applied to me through his guardian to have a bungalow built in the Brundavanam garden for him and his children. I asked the guardian to give me an idea of the kind of house wanted, and the probable cost. He sent to me an estimate for Rupees 12,000, without any explanation, as I considered his estimate too high, I asked the Executive Engineer, Chinnole Range, to send to me a plan and estimate for the work." The provision of Rupees 5,000 may stand in the Budget pending submission of plan and estimate for the sanction of the Court of Ward.

Enclosure 1 to the Budget—New Works—(Continued)

Kind	Locality	Project Description	Estimated Amount		Computed expenditure up to 1st March 1877	Expenditure, 1877-78.		Remarks about the necessity and advantages of early work or date of the order sanctioning the work.
			By D P W	By Other Agency		By D P W	By Other Agency	
1		3	4	5	6	8	9	10
		1 Krishnaasagaram improvements.	Rs 13,700	Rs	Rs 13,700	Rs 8,700	Rs 8,700	Plans and estimates for this work were sanctioned in the current year's Budget (vide Court's Proceedings, dated 26th May 1876, No 1,379, item 1 in paragraph 5). Rupees 9,000 were allotted of which the District Engineer estimated an expenditure of Rupees 5,000 within the year. The Principal Assistant Collector thinks that no money can be spent in making the low orders of the Court on the further report called for in Proceedings, No 3,000, dated 20th November 1876, as regards the financial results of this work, and that no provision need be made in Budget for 1876-77. The further report called for has been submitted on the 13th February 1877, No 536, vide foot note on Principal Assistant Collector's letter dated 31st January 1877, No 30 and provision should be made in this Budget in order to proceed with the work. I am of opinion that the original sanction should have been acted upon. Revised plans and estimates were sanctioned in the current year's Budget, 1876-77—vide Court's Proceedings, dated 26th May 1876, No 1,379, paragraph 7. Rupees 7,000 were allotted in the Budget, of which Rupees 6,000 were computed to be spent within the office year. The balance is therefore wanted to complete the work.
		2 Restoration of Sarsa Krishnaasagaram tank.	7,830		7,830	1,830	1,830	The estimate for this work was sanctioned in Court's Proceedings, dated 6th July 1876, No 6,611—vide also Court's Proceedings, dated 2nd October 1876, No 8,385 (Miscellaneous). The amount of Rupees 2,313 is required to complete the work.
		3. Kinigam gedda project.	6,313		6,313	2,313	2,313	(The estimates for these three works were sanctioned in Court's Proceedings, dated 2nd November 1876, No 9,429, and Rupees 4,194 for work No 4, and the full estimated amounts for Works Nos 5, 6 were allotted in the current year's Budget for 1876-77, but the allotted sum cannot be expended before the end of the year. Hence fresh allotments are necessary to complete the works.)
		4 Calingulah to Koorna gedda	10,194		10,194	6,000	6,000	The District Engineer remarks—"The improvement of the ancient and its channel has been recommended in the Budget for 1873-74, but was struck out for want of further information. The estimate is now framed after taking necessary levels to complete the channel up to Seetasagaram tank at Purla Kimeedy. The necessity for the work has been explained in this report accompanying the project." The Principal Assistant Collector remarks—"The District Engineer says that the necessity for the work has been explained in the report accompanying the project." The Principal Assistant Collector remarks—"The District Engineer says that the necessity for the work has been explained in the report accompanying the project. I have not the report before me and therefore cannot offer any opinion on
		5 Under tunnel of Nagarika takam channel	2,034		2,034	1,034	1,034	
		6 Weir to Kaluva gedda of Addabangi	1,686		1,686	686	686	
		7 Alteration and additions to Batturpuram Project				4,000	4,000	

Sub-division of Chicacole Range.

Works.

Irrigation	Purla Kimeedy Estate forming	8 Gazapati Sagaram improvements and its subsidiary works	1,500	1,500	1,500	2,000	2,000	The subject it appears that the estimate now prepared is to complete the channel to the Seetasagaram at Purla Kimeedy. The works now proposed to complete the Batturpuram ancient works up to Kimeedy are as follows— "1 Raising amount and extending the rear apron 2 Constructing a foot bridge for working the Tembogy abutments. 3 Raising head sluice floor 4 Improving section of channel up to Oppalada tank 5 Extending channel up to Kimeedy, Seetasagaram tank 6 Raising Koodada dacia floor 7 Extending Bhagisala tank channel 8 Surplus weir near Bhagidipuram 9 In and out let with under tunnel 10 Irrigation sluices "The ryots and the Estate Manager have urged the necessity of this work which is a remunerative one and may be retained in the Budget." Plans and estimates of this project have not yet been received. The provision may stand in the Budget subject to the sanction of estimates by the Court as the Principal Assistant and Manager consider the work a remunerative one. The District Engineer says—"This work is intended to separate the drainage and surplus of the tank from the irrigation channel. The necessity for the work has been fully explained in a report which accompanied the project." The Principal Assistant Collector remarks—"The tank was constructed in 1873 at a cost of Rupees 17,149 1 2 with one calingulah and two masonry sluices to irrigate about 1,085 acres of land in Korada, Kotsasanda, Bettisangi, Artisery, Oppalada, Roddiur, Totigun in Korada, Madhuanthapuram. A channel from the north sluice carried by an aqueduct across the Batturpuram ancient channel was dug in 1873-74 to irrigate the lands of Totigunmada and Oppalada. The calingulah, 79 feet long, is situated immediately above the irrigation sluice. There is no way to drain off the surplus water of the calingulah or the local drainage in the neighborhood. It is therefore necessary to build a large calingulah in the south bank of the irrigation channel with an under tunnel to drain off the surplus water, the under tunnel being intended to let the hill drainage pass under the channel. The report referred to by the District Engineer has not been sent to me. The work may stand in the Budget. No report has been received from the District Engineer as yet. I have called for it. In the meantime the Budget provision may stand. Several of the works included in this item are, the District Engineer says, necessary for the settlement of the disputes between the Tarla and Kimeedy Estates, and others to keep the tank in an efficient order. I cannot express an opinion as to plans and estimates have been sent as yet by the District Engineer. The Court in their Proceedings of the 1st February 1876, No 297, approved the proposal to make certain alterations in the Radhasagaram channel in order to put an end to constant disputes between the Tarla and Purla Kimeedy Zemindaries. The Principal Assistant Collector says that the Manager considered this work necessary. Under these circumstances, this provision may be retained in the Budget pending submission of estimates, &c., by the District Engineer who has been asked to send them without delay.
		9 Ramapuram Radhasagaram Project						

Enclosure 1 to the Budget New Works—(Continued)

Kind.	Locality	Project Description.	Estimated Amount			Computed Expenditure up to 1st March 1877	Expenditure, 1877-78			Remarks about the necessity and advantages of early work or date of the order sanctioning the work
			By D P W	By Other Agency	Total.		By D P W	By Other Agency	Total.	
1	2	3	4	5	6	7	8	9	10	11
		21 Constructing an aqueduct across Barasid Gedda to water Kumbhara tank.	24	24	24	24	24	24	24	The District Engineer says that this tank is intended to carry the water to Kumbhara tank which has hitherto been irrigated by means of a temporary wooden tank. The provision may stand in the Budget. Computed Expenditure of Rs. 300 has been transferred to "Allotment."
		22 Constructing a calingulah of twenty feet and a sluice twenty five feet long to Idim Uta tank	208		208	208	208		208	The District Engineer says that the tank has suffered a collapse and is not sound and is liable to breaching, and that there are now provided to avoid the evil and to regulate the supply of water from the tank. This is one of the works of which the estimates were referred by me for explanation as stated in remark No. 19 supra. The provision may stand in the Budget subject to sanction of estimate by the Court.
		23 Constructing a calingulah thirty feet long to Gunna-bhadra Uta tank	410		410	410	410		410	The District Engineer says that this tank has no calingulah, and that one is absolutely necessary for the safety of the tank. Work which is subject to breaching in the absence of provision for surplus drainage. My remarks to the last work apply to this.
		24 Constructing a calingulah to Dandigam channel or Sura Gummpoonoo	225		225	225	225		225	The District Engineer says that this calingulah and surplus drain are required for taking water to the lands of Dandigam (see my remarks above)
		25 Constructing a forty feet calingulah to Kristasagar surplus channel to irrigate the lands of Ada and Sura Guesu villages.	553		553	553	553		553	The District Engineer remarks that this calingulah is required to take water for the irrigation of lands of Ada and Sura Guesu (vide my remarks above)
		26 Lengthening calingulah and sluice to Krimedy Krishna Sagar tank.					500		500	The waterway of existing calingulah is, as the District Engineer says, insufficient. This requires lengthening with a foot bridge. No estimate has been received as yet. The provision may stand in the Budget subject to the sanction of the estimate.
		27 Constructing a sluice to Gopala Sagar tank of Gopapuram					300		300	The District Engineer says that this sluice is proposed to be constructed in place of the one damaged by the heavy floods of last year. My remarks to the last work No. 26 apply to this also.
		28 Constructing a calingulah to Chitta Gedda to water the lands of Petupuram					500		500	This calingulah is proposed to be constructed across to Chitta Gedda to raise the water to Petupuram lands which have hitherto been supplied by means of an earthen embankment (vide above remarks)

Works—(Continued)

Sub division of Chitole Range—(Continued)

Kind.	Locality	Project Description.	Estimated Amount			Computed Expenditure up to 1st March 1877	Expenditure, 1877-78			Remarks about the necessity and advantages of early work or date of the order sanctioning the work
			By D P W	By Other Agency	Total.		By D P W	By Other Agency	Total.	
1	2	3	4	5	6	7	8	9	10	11
		29 Lengthening a calingulah to Chapara Nilakantapuram tank	286		286	286	286		286	This tank has got a drainage of nearly two square miles. The waterway hitherto provided is only thirty feet, of which five feet is obstructed by dam stones, the consequence of this is the tank band overflows during heavy rain, the band breaching during the last two years, and its cost amounted to Rupees 340. To prevent further damages, it is proposed to lengthen the calingulah from thirty feet to fifty feet, and remove the damstone which will afford ample waterway for the discharge of the surplus. This work is absolutely necessary to keep the tank in efficient order. Plan and estimate accompany.
		30 Constructing a calingulah of thirty feet body wall to Pedda Lakshampuram Poddut tank	410		410	410	410		410	This tank is not provided with a calingulah. One is absolutely necessary under it is annually breached by the surplus water, and the crops are consequently injured. The estimate now framed provides for constructing a calingulah of thirty feet body wall which would prevent further damages to the tank band. Plan and estimate accompany.
		31 Digging a channel from Mahadipuram calingulah to water the Goorady lands	123		123	123	123		123	This channel with a small regulating sluice is proposed to be constructed from Mahadipuram calingulah across Krishna Sagar surplus channel to water 803 acres of lands situated on a higher level of the village of Gopala. These lands have hitherto been irrigated by means of a cross bund in the Gedda below the calingulah, and it is carried away every time the freshes come down the stream, and the crops are thereby annually suffering. Estimate accompany.
		32 Constructing calingulah bridge in Batisiripuram ancient channel bank at Bagody Poonoo	1,345		1,345	1,345	1,345		1,345	This is a supplementary work No. 8 shown with remarks against work No. 7, viz., alterations and additions to Batisiripuram anicut project. The necessity for the work is explained in the specification report accompanying the estimate and plan herewith submitted.
		Total	22,260		22,260	38,903	38,903		38,903	
		1 Ghaut road for good wheel cut traffic up the Gumma pass				7,000			7,000	The Court in their Proceedings, No. 2801, dated 6th October 1875, called for a report on the construction on scientific principles of a good ghaut for wheeled traffic up the Gumma pass. A provision of Rupees 5,000 were made in the current year's Budget (1876-77) for this work subject to sanction of plans and estimates which have not as yet been received from the District Engineer. The Principal Assistant Collector remarks—"The plans and estimates are now with the District Engineer, and will be submitted through you to the Court of Ward, with my remarks, when I receive them from that officer. Meanwhile this item may remain in the Budget that the work may be begun as soon as the estimates are sanctioned by the Court." On my predecessor communicating to the Court the Principal Assistant Collector's and Executive Engineer's letters that a scheme cannot be prepared at present as two Surveyors who were sent up the hills returned with Proceedings dated 21st July 1876, No. 1694, directed me to state what steps I would propose for getting the work put in hand without further delay. Before the receipt of the above Proceedings, I had put in hand further delay. I asked the District Engineer to put at once what arrangements he has made or is going to make to obtain plans and estimates for this work, but no answer has been received as yet. This provision may stand in the Budget. I will submit a separate report as soon as I can.

Communications.

Irrigation

Purba Krimedy Estate forming

* Note.—These plans and estimates having been received direct from the District Engineer have been forwarded to the Principal Assistant Collector for his opinion, and will be submitted to the Court as soon as they are received back.

Enclosure 1 to the Budget—New Works—(Continued)

Kind	Project Description.	Estimated Amount			Computed Expenditure up to 1st March 1877	Expenditure, 1877-78			Remarks about the necessity and advantages of early work or date of the orders sanctioning the work
		By D P W	By Other Agency	Total		By D P W	By Other Agency	Total	
1	3	4	5	6	7	8	9	10	11
Purba Kumed Estate forming Sub-division of Chitacole Range—(Contd)									
Communications—(Continued)	2 Tunnels on Malah roads	RS	RS	RS	RS	RS	1,000	1,000	A provision of Rupees 8,000 was made in the current year's Budget with reference to Court's Proceedings, No 613, dated 21st February 1876, but the works have not yet been carried out. I consider Rupees 1,000 may stand in the Budget. A complete scheme of Malah roads will be treated
	3 Avenues on road sides								Rupees 1,500 were entered in the current year's Budget and Rs. 535-13-11 were spent by the end of December 1876. The District Engineer says that Rupees 2,000 are necessary for fencing the young plants as well as watering them during the six dry months and for replacing such plants that may be injured and die. This provision may stand in the Budget. The Principal Assistant makes no remarks on it.
	4 Drainage of the town of Purba Kumed	17,270		17,270		2,000		2,000	This is a new item for 1877-78. The necessity for this work has been explained in my predecessor's letter, recorded in the Court's Proceedings, dated 12th April 1876, No 2,134, Miscellaneous. The District Engineer has with his letter, dated 17th February 1877, No. 248, forwarded survey and plan of masonry works with estimates for constructing side drains and tunnels in the streets of the town of Purba Kumed at a total cost of Rupees 17,270. The Principal Assistant Collector has not yet had an opportunity of expressing his opinion on this very large estimate, and I am therefore forwarding it to him for that purpose. I will hereafter send it on to the Court, and in the meantime, the provision made in the Budget may be allowed to stand.
	Total					11,000	1,000	12,000	

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ENCLOSURE No 3
ENCLOSURE 2-A—Repairs—Buildings

No.	Locality	Description.	Amount proposed for Expenditure			Cost of Repairs on the average of last five years	Remarks
			By D P W	By Other Agency	Total		
		Works costing less than Rupees 500 each	RS 800	RS	RS 800	RS	The buildings to be kept in repair from the Estate Funds are— 1 Mr Taylor's bungalow 2 Collector's shed (as described in the current year's Budget, Enclosure 2-A, Repairs to Buildings for 1876-77) 3 Forest Overseers' bungalow 4 School building 5 Manager's Office 6 Police Assistant Superintendent's bungalow 7 Department Public Works Sub-division Office

ENCLOSURE No 4
ENCLOSURE 2-B—Repairs of Irrigation Works

No.	Locality	Description of Work	Amount proposed for Expenditure			Average Revenue within the last five years	The highest Revenue within the last five years	The Cost of Repairs on the average of the last five years	Remarks
			By D P W	By Other Agency	Total	RS A P	RS A P	RS A P	
1		Repairs to Buttasuram amount and its subsidiary works	RS 1,000	RS	1,000	30,190 13 10	30,190 13 10	1,001 13 6	These repairs are required to clear the channel if damaged by floods in the next year. Hence this sum is necessary to meet emergent repairs. The bank of this tank requires strengthening.
2		Repairs to Goppil and Lakshmana Sagar tank	720		720	1,474 4 8	1,474 4 8	28 13 4	Do do.
3		Repairs to Rampuram Ramasagar tank	500		500	4,935 2 0	4,935 2 0	373 9 3	The necessity is explained at the foot of the estimate appended herewith.
4		Raising and widening Radhesagar tank	1,710		1,710	3,360	37,056 0 0		Plan and estimate with specification report were forwarded with my letter, dated 30th January 1877, No 437. The District Engineer reported the absolute necessity of proceeding with the work in anticipation of sanction to save the next crop, as the amount had been so much damaged by October storms. This work is quite distinct from that No 7 under New Works, viz., alterations and additions to Buttasuram Amount Project, although this was proposed in reference to the completion of the whole project with the exception of calingulab bridge No 33 under New Works.
5		Restoration of the Buttasuram amount	3,360		3,360				
6		Petty repairs less than 500 Rupees each	7,780		7,780				
7		Probable amount of unexpended balance in works incomplete up to 31st March 1877	2,000		2,000				
		Total	17,070		17,070				

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ENCLOSURE No. 5
ENCLOSURE 2-C—Repairs of Communications

Name or Number or Description of Work	Length in Miles	Rate per Mile	Total Cost estimated			Actual Cost per Mile on the average of last five years	Remarks
			By D P W	By Other Agency	Total		
1 Road from junction of Varanasy road to Cumma via Mumsing	9	100	900		900	65 12 7	
2 Palem and Icmboor road	9	55	495		495	46 12 9	
3 Garabanda road to join Poondy road	7	55	385		385	48 14 0	
4 Nowtala road	7	55	385		385	47 11 0	
5 Gyba road	7	55	385		385	40 0 4	
6 Garabanda and Kinchilingi road	6	55	330		330	42 13 7	
7 Teekkalpatnam and Goppily road	6	55	330		330	42 15 1	
8 Kumed and Parapuram road	13	55	715		715	48 0 4	
9 Kumed and Kinchilingi road	20	First 7 miles at Rupees 100 each and the rest at Rs 55	1,415		1,415	50 8 11	
10 Garabanda and Goppily road	6	55	330		330	46 15 3	
11 Lungupuram and Goppily road	5	55	275		275	31 12 3	
12 Gusadi road	5½	55	303		303	33 0 0	Maintenance allowance from 1872-73
13 Road from Zemindar's Palace to Boonagan	3½	100	375		375	42 0 0	Do do from 1873-74
14 Road from Kanduva to Bosaba via Vallada	7	80	560		560		Do do from 1876-77
15 Road from Gusadi road to Bosigadi	2½	55	120		120		These two roads will be completed by the end of the current financial year 1876-77; consequently this provision is necessary
16 Road from Kumed via Kinchilingi road to Binasimla Guzapaty Sagarum tank via Koraada	3½	55	176		176		
17 Discretionary allowance for town roads			500		500		
18 Repairs to Malah roads				1,000	1,000		As decided by Court Proceedings, dated 11th October 1875, No 2,801 para 10, the repairs will be carried out under the Principal Assistant Collector's supervision.
19 Repairs to ferry boat			176		176		
Total			8,100	1,000	9,100		

ENCLOSURE No 6
ENCLOSURE 3—Details of Establishment

Number	Nature of the Establishment	Designation of Office	Number	Salary per Mensem	Salary per Annum	REMARKS
1	Range Establishment	Supervisor, first class Overseers, first grade sub-divisional Establishment.	1	200	2400	The District Engineer makes the following remarks—"The necessity for the increase of the office establishment of both ranges and sub-division has been fully explained in this office letters, Nos 63 and 43, dated 19th February and 3rd August 1876, to the Secretary to Government, D P W. Besides this increased provision has been made for the pensionary to be paid by the members transferred from Government service, of whom the following were in Government employ when their services were fully or partly transferred to the estate—
		Overseers do	2	54	648	
		Add on account of difference between the Special and Third-class Range Office Establishment, including travelling batta				
		Travelling allowance of superior Overseers and Establishments		175½		
		Pensionary contribution of Government servants lent to the estate.			121½	"1 Supervisor G Venkata Row Pantulu "2 Overseer V Narayanaswamy Naidu "3 Overseer S Valanayagun Thaver "4 Overseers' Writer B Durmalunga Achari "5 Head Accountant S Narayanaswamy Patrudu "6 Deputy Accountant P Ramanjiva Naidu "7 Draughtsman P Govinda Row Naidu My general opinion on the subject of an increase to the Department Public Works Agency will be found recorded in my letter, dated 16th February 1877, No 645
2	Petty Establishment	1 Maistry 1 Do 1 Gunastah	1 1 1	25 15 10	95½	
3	Irrigation Conservancy Establishment	Head Lascar Lascars at Rupees 4 each Gunastahs at Rupees 25, 20 and 15 respectively Lascars at Rupees 5 each	1 12 3 3	7 48 60 15	50 600	
4	Survey Establishment	Surveyor Lascars at Rupees 6 each Contingencies	1 6	50 36	130	
		For two parties for 6 months in the year		90	1080	
		Grand Total			14,745	

MOHANA,
2nd March 1877

(Signed) P W MOORE,
Asist Collector, for Collector

ENCLOSURE No 7.

From W F GRAHAME, Esq., Acting Principal Assistant Collector, to C G MASTER, Esq.,
Collector of the Ganjam District, dated Chicacole, 17th January 1877, No 22

I HAVE the honor to forward, herewith, the papers relating to the Purla Kimeddy Estate Public Works Budget for 1877-78

2 The total amount budgeted for all works during 1877-78 is Rupees 90,156 as detailed below —

	RS
1 Buildings	8,198
2 Irrigation Works	45,813
3 Communications	20,100
4 Establishment	14,745
5 Tools and Stationery	1,300
Total ...	90,156

3 Rupees 7,398 are provided for new buildings as follows —

Rupees 418 for building a wall around the compound wall of the Kimeddy Range Office, and a store-shed in the office compound

Rupees 1,980 for tiling the roofs of the Collector's Cutcherry, &c, buildings at Kimeddy. These thatched buildings were formerly occupied by the Principal Assistant Collector or Collector when those officers went to Kimeddy, and for some time after Mr Taylor went to Kimeddy he resided in them, but the Estate Public Works Officers allowed them to go entirely to ruin in spite of repeated rapid remonstrances from me. Thatched roofs always leak and require constant repairs. Therefore it is proposed to put on tiled roofs. No estimates and plans have been sent to me. The item may stand in the Budget.

Rupees 5,000 for building a bungalow and out-houses in the Broondavanam garden. The Purla Kimeddy Zemindar has applied to me through his guardian to have a bungalow built in the Broondavanam garden for him and his children. I asked the guardian to give me an idea of the kind of house wanted and the probable cost. He sent to me an estimate for Rupees 12,000 without any explanation. As I consider his estimate too high, I asked the Executive Engineer, Chicacole Range, to send to me a plan and estimate for the work.

The provision of Rupees 5,000 may stand in the Budget pending submission of the plans and estimates to the Court of Wards for their sanction. Rupees 800 have been provided for the repairs of the buildings, &c, during the year.

4 The Court of Wards having in their Miscellaneous Proceedings, No 10,932, dated 12th December 1876, sanctioned the construction of a bungalow at Kimeddy at the estate expense for the use of the Medical Officer located there, I suggest that Rupees 3,000 may be provided in this Budget for the building, so that the work may begin as soon as the Court sanction the plans and estimates shortly to be sent.

5 Rupees 32,813 have been provided for irrigation new works. Twenty-eight works are entered in the Budget, ten large and eighteen small.

The ten large works are as follow —

	RS
1 Kristnasegaram improvements	8,700
2 Restoration of Sarakristnasagaram tank	1,830
3 Kimgam Gedda project	2,313
4 Calingulah to Korma Gedda	6,000
5 Under tunnel of Nagarikatacam channel	1,034
6 Weir to Uduva Gedda of Addubange	680
7 Alterations and additions of Battisripuram project	4,000
8 Gajapatisagaram improvements and its subsidiary works	1,500
9 Rampuram Radhasagaram project	2,000
10. Improvements to Labhara Nulla tank	600

Item 1 — This work was sanctioned in the Budget for 1876-77 at an estimated cost of Rupees 13,700, and only Rupees 9,000 were allotted for the current year. The Court of Wards asked for further information which was submitted, but the Court in their Proceedings, No 3,000, dated 26th November 1876, have asked for still further information. I do not think that the full allotment, even Rupees 5,000 as anticipated by the District Engineer, will be utilized on this work by the end of March next. Therefore the provision for this work may be struck out of the Budget.

Items 2, 3, 4, 5, and 6 — These works were sanctioned in the Budget for 1876-77, and the amount entered in the present Budget is to complete them.

Item 7 — The improvement of the Battisripuram anicut and its channel were recommended in the Budget for Fiscal 1273-84 (1873-74), but the work was struck off for want of further information. The District Engineer says that the necessity for the work has been explained in the report accompanying the project. I have not the report before me, and therefore cannot offer any opinion on the subject. It appears that the estimate now prepared is to complete the channel to the Seetasagaram tank at Purla Kimeddy.

The works now proposed to complete the Battisripuram anicut works up to Kimeddy are as follows —

- 1 Raising anicut and extending the rear apron
- 2 Constructing a foot bridge for working the Tumbeggy shutters
- 3 Raising head sluice floor
- 4 Improving section of channel up to Oopalada tank
- 5 Extending channel up to Kimeddy Seetasagaram tank
- 6 Raising Oopalada dam floor
- 7 Extending Bigusala tank channel
- 8 Surplus weir near Bagadipuram
- 9 In and outlet with under tunnel
- 10 Irrigation sluices

The ryots and the Estate Manager have urged the necessity of this work which is a remunerative one and may be retained in the Budget.

Item 8 — Rupees 1,500 have been provided for the Gajapatisagaram tank improvements and its subsidiary works. The tank was constructed in 1873 at a cost of Rupees 17,149-1-2 with one calingulah and two masonry sluices to irrigate about 1,085 acres of land in Korada Corasanda, Bithimgy, Arhiseri, Oopalada, Bodduru, Totagununada, Muktapuram, and Madhusandanapuram. A channel from the north sluice carried by an aqueduct across the Battisripuram anicut channel was dug in 1873-74 to irrigate the lands of Totagununada and Oopalada. The calingulah, 79 feet long, is situated immediately above the irrigation sluice. There is no way to drain off the surplus water of the calingulah or the local drainage in the neighbourhood. It is, therefore, necessary to build a large calingulah in the south bank of the irrigation channel with an under tunnel to drain off the surplus water, the under tunnel being intended to let the hill drainage pass under the channel. The report referred to by the District Engineer has not been sent to me. The work may stand in the Budget.

Item 9 — Rupees 2,000 have been provided for the Rampuram Radhasagaram project. The District Engineer remarks that several of the works included in this project are necessary for the settlement of disputes between Tarla and Kimeddy estates and others to keep the tank in an efficient order. The Estate Manager has reported that this work is necessary.

Item 10 — Improvements to Labhara nulla tank. No plans and estimates have been sent by the District Engineer, but the Manager has reported that the work is a useful one.

All the other eighteen works are minor irrigation works, each costing below Rupees 500, and the necessity for each has been explained in the remark column of Enclosure 1 to the Budget. The Manager recommends that these works should be undertaken during 1877-78. No plans and estimates for these various works have been sent to me, although reference has been made to various reports, &c, in the remark column of the Budget. Mere statements accompanying this letter are all that the District Engineer sent to me.

6 Rupees 12,000 have been provided for repairs to irrigation works as follows —

- 1 Clearing the Battisripuram anicut channel
- 2 Strengthening the Goppili and Kristnasagaram tank banks
- 3 Do the Rampuram Ramasagaram tank banks and petty works less than Rupees 500 each

7 Rupees 1,000 have been provided under the head Reserve to meet the necessity for emergent works in the rainy season and in extraordinary floods.

8 Rupees 11,000 have been provided for Communications, "New Works," as follows —

	RS
1 Ghaut road for good wheeled traffic up the Gumma Pass	7,000
2 Tunnel, &c, on Maliah roads	2,000
3 Avindes on road sides	2,000
4 Drainage of the town of Purla Kimeddy	

Item 1 — The plans and estimates for the ghaut road are now with the District Engineer, and will be submitted through you to the Court of Wards with my remarks when I receive them from that officer. Meanwhile, this item may remain in the Budget that the work may be begun as soon as the estimates are sanctioned by the Court.

Item 2—As suggested by you provision will be made in the new scheme of the Maliah roads for constructing masonry tunnels, &c, in the roads in the Purla Kimedy Maliahs

Item 3—Rupees 2,000 have been provided for maintaining the avenues on road sides

Item 4—Rupees 2,000 have been provided for the drainage of the Purla Kimedy town. The necessity for this work was dwelt on by Mr. Davidson in his letter recorded in the Court's Proceedings, No 3,134, dated 12th April 1873

9 Rupees 8,100 have been provided for keeping sixteen roads in good order and for repairing ferry boats, and the amount may be retained.

10 Rupees 1,000 have been provided as usual for repairs to the Maliah roads

11 Rupees 1,000 have been provided under "Reserve" for emergent works in the rainy season

12 The provision of Rupees 14,745 for establishments and that of Rupees 1,300 for tools and plant call for no remark

(True Copy)

(Signed) P W MOORE,
Asst. Collector, for Collector

ENCLOSURE No 8

From C G MASTER, Esq., Collector of Ganjam, to the District Engineer of Ganjam, dated Gopaulpore, 11th August 1876, No 2,701.

I HAVE the honor to return, with the following remarks, the plans and estimates of certain agricultural works appertaining to Purla Kimedy estate received with your letter, dated the 9th June last, No 36

2 Estimate* No 303 of 1876-77, constructing a calingulah to Goomabadra, Voora tank, vide foot-note to the estimate. A separate estimate for repairs of the tank, amounting to Rs 179, seems to have been already sanctioned. The average revenue is stated to be Rupees 225, and the present estimate comes to Rupees 410, that is double the average revenue. Added to the amount sanctioned for repairs to tank 410 + 179 = 589, it amounts to more than 2½ times the revenue. It is presumed that this is to be considered a new work as there was no calingulah before. If so, there is no separate Budget allotment for it as it was not inserted in the list of petty new works to be executed during the current year received with Major Smalley's letter, dated 29th December 1875, No 259. The only available source from which the charge can be met seems to be the Reserve under irrigation works. Please say whether this is feasible

3 Construction of a calingulah and sluice, together with repairs to Lobbara nalla tank—Estimates Nos 304, 305, and 312. The cost of the three estimates is as follows—

	RS
No 304	390
„ 305	570
„ 312	148
Total	1,108

The necessity for these works is explained at some length in a memorandum appended to the estimates. The expenditure incurred on the tank in previous years is Rupees 1,518, and the amount now proposed to be spent is Rupees 1,108, the average revenue derived from the work annually being Rupees 372. The above (Rupees 1,518) is exclusive of the cost of the calingulah constructed in 1863, which (cost) is not stated in the estimate. The following remarks occur in the explanatory memorandum: "If this tank is kept in an efficient order, it supplies water to the lands of Pedda Logidi and Chinna Logidi, besides bringing some more dry lands under wet cultivation. It would also protect lower tanks from damage. Its early sanction is solicited, so that the work may be completed before coming monsoon." Now that we are in the middle of the rainy weather, there is no chance of the work being "completed before coming monsoon." The works might, if found sufficiently remunerative, be carried out next cold weather. To enable me to judge whether these works are worth undertaking, I request information on the following points—

Did the Lobbara tank in question ever supply water to the lands of Pedda Logidi and Chinna Logidi? If so, when did it cease to supply water? If the tank be "kept in efficient order" as proposed, would not the ryots of Lobbara object, by virtue of established custom or usage, to the creation of new or revival of old rights in favor of the ryots of Pedda and Chinna Logidis? If they do not, it would be safe to take written agreements from them. Please state

whether supply channels to lead water to the fields of Pedda and Chinna Logidis from the Labbara tank will be required to be dug, and if so, whether they are provided for in the present estimates, and if not, how they are intended to be made, what is the entire extent of land and revenue which will be benefited by the proposed works in each of the three villages in question, what is the extent of dry lands which are expected to be brought under wet cultivation, with what increase of revenue and in what village are they situated? What proportion does the expected return bear to the probable outlay? Why were these works not included in the budget sent from your office for 1876-77, and how is their cost proposed to be met now? The Court

* Rupees 89,729

have sanctioned an enormous sum * for expenditure on the estate works this year, and without having an assurance from you that your department would be able to utilize the whole allotment before the close of the year I do not feel disposed to apply for additional funds as proposed. I should be glad to have definite information on this point. You are probably aware

† Allotment 94,237
Outlay 23,572

how small a proportion of the budget allotment was actually utilized† during 1874-75. It is observed that the cost of Estimate No 304 is

to be met from Repair grant, and that of Estimates 305 and 312 from reserve or any other source under New Works

4 Constructing a sluice to Oopungy Injadry tank, Estimate‡ No 301. This is evidently a new work. A sum of Rupees 100 has been provided in the current year's budget for

constructing a sluice to Vappangi tank at the recommendation of the late District Engineer. It is not clear whether the work referred to in the present estimate is identical with the budget work, and if so, the fact should be stated. The following remarks occur in the estimate: "The ryots agree to bring now 30 acres of dry land into wet and pay an increased list to the estate. The increase of assessment on land proposed to be converted into wet would be Rupees 45 at Rupees 1½ per acre, or the increase 17 Rupees per cent on the proposed expenditure." Please let me know whether the ryots concerned have executed any written agreement to pay an extra assessment of Rupees 45, and whether the Estate Manager was consulted before fixing the rate of increased assessment at 1½ Rupees per acre. You are probably aware that the estate lands have been classified and certain rates of assessment for dry and wet lands have been fixed which have to be adhered to.

5 Constructing a calingulah to Damidigan channel or Sooragamupoono, Estimate§ No 302. This is presumed to be a new work although no note is made on the estimate to that effect, and although it was not included in the list of petty new works submitted by the late District Engineer. Please state whether the cost of the work should be met from the agricultural reserve, or how? In future, this information should invariably be furnished. For works having no special allotment in the budget, transfer from the funds sanctioned for any other work which is not likely to be undertaken during this year may be recommended, but no such transfer can be made without previous sanction of the Court.

6 Constructing a calingulah to Kroostnasagaram surplus channel to irrigate the lands of Ada and Savaragusada, Estimate¶ No 309. From the memorandum attached to the estimate, this work appears to be a useful one, but the source from which its cost can be met should be named.

7 Constructing a sluice to Tiddim Orah tank and constructing a calingulah to Tiddim Orah tank, Estimates Nos 296|| and 297** respectively. These appear to be very necessary works, but they swallow up more than the average annual revenue. The remarks appended to Estimate No 296 have no bearing on the work proposed. It is stated "the bank of this tank is very weak and the bed is shallow, it holds very little quantity of water hardly sufficient even for a single crop." The tank bed requires deepening, and strengthening and widening the bund, for which the estimate is framed. Earthwork, however, has been provided in either of the estimates to remedy these patent evils. Evidently no sluice or calingulah at present exists and their cost therefore has to be debited to New Works, while that for the repairs proper of the tank has to be met from the repair grant of Rupees 12,000. Please state whether it is intended to send a separate estimate for the repairs of the tank, and from what source the cost of the calingulah and the sluice can be met, also why the estimates for them have been separately sent while they could be conveniently put into one, both being apparently new works. The necessity for a sluice and calingulah exceeding in cost the annual revenue derivable from the tank is not clearly made out. Without definite information on the above points, the estimates cannot be submitted for the Court's sanction.

8 Constructing a sluice to Sakipalli Venket Patnaidoo tank, Estimate†† No 299. It is doubtful whether this should be treated as a repair or new work. The memorandum

†† Rupees 225.

appended to the estimate states "The estimate now framed provides for raising and strengthening the bank and constructing a new sluice in lieu of the damaged one, and for executing slight repairs to calingula." These remarks have no bearing on the work actually provided in the estimate nor with the name given to the estimate. The estimate contains no provision for earthwork and evidently for no calingula either. The estimates have been countersigned by Mr Leggatt, both as Range Officer and as District Engineer, and it is surprising that such contradictions and inaccuracies should not have attracted attention. This estimate also must be returned for revision and explanation. Rupees 300 have been provided in the budget for constructing a sluice to Chakipali tank. Is that identical with the work now estimated for?

9 I need hardly point out to you that unless greater care is evinced by your subordinates in the preparation and submission of estimates, much unnecessary labour is thrown on my establishment, and that if estimates be submitted to the Court with inaccuracies like those stated above, they are almost sure to be returned by the Court for explanation and revision.

(True Copy)

P W MOORE,
Assistant Collector
for Collector

ENCLOSURE No 9

From G VENKATA ROW, Supervisor, to G R LEGGATT, Esq, c E. Executive Engineer,
No 2 Range, Ch. acole, No 33

With reference to paragraph 4 of the District Engineer's Memorandum No 71, dated 18th instant, I respectfully beg to report that major irrigation works such as Battisvripuram anicut channel, Ramasagaram tank and its channel, &c, and several minor irrigation works are badly managed in the estate, and no proper control over them, consequently a large quantity of water is unnecessarily wasted, and the water as a rule runs short at the close of the cultivation season, and frequently in the hot season. Sugar-cane and other valuable crops, which require water in hot season, are much felt for want of water, there being no proper establishment to look after the distribution of water according to the requirements. The ryots are hitherto in habit of obtaining water from the channels by breaching the bunds wherever and whenever they like, and allow the irrigation works to go to ruin, as none are responsible for their safe condition. There is no one to bring to notice any irregularities or any accident, and none are responsible for them.

The duties of the establishment now proposed are as follows —

- 1st — To superintend the repairs of the irrigation works when required.
- 2nd — To inspect the irrigation works as often as possible, and see that they are all in good condition, and bring to notice any requirements.
- 3rd — To see that all the calingulas and sluices are kept in working order throughout the year.
- 4th — To see that the water from channels and large tanks is not wasted, and that no damages are made to the works by the ryots, and prevent any damages likely to occur in all possible cases.
- 5th — To see that the existing conservancy establishment employed on tanks, &c, are doing their duties properly, and that the sluices and calingulas are opened or closed according to the instructions.

The above duties were hitherto greatly neglected for want of sufficient establishment for supervision. New hands of inferior grade were hitherto employed in superintending the repairs of irrigation work when required and paid out of the estimates for the time, such men are untrustworthy and cannot be made responsible for any thing.

The proposed establishment is absolutely necessary for efficient management of irrigation works, and without which it is impossible to keep the irrigation works in an efficient order.

(True Copy)

(Signed) T D HARRIS,
District Engineer, Ganjam

ENCLOSURES Nos 10 and 11 — Estimates.

ENCLOSURE No 12 — Plan

From C G MASTER, Esq, Collector of Ganjam, to H E STOKES, Esq,
Secretary to the Court of Wards, dated Chetterpore, 26th March 1877,
No 1,079.

New Works, Irrigation

- | | | |
|-------|--|-------------------|
| No 29 | Estimate No. 402 and plan for lengthening the calingula of Chapara Neelakantapatrum tank, amounting to | RS A P
286 0 0 |
| " 30 | Estimate No 400 for constructing a calingula to Pedda Lakshimpuram Pedda tank, amounting to | 410 0 0 |
| " 31 | Estimate No 403 for digging a channel from Mohadevipuram calingula to water Gurady lands, amounting to | 123 0 0 |

Repairs

- | | | |
|------|---|---------------------|
| No 4 | Estimate No 366 for raising and widening the Radhasagaram tank bund, amounting to | RS A P
1,710 0 0 |
|------|---|---------------------|

In continuation of the Kimeddy Public Works Budget report, dated 2nd instant, No 907, I have the honor to submit, for the Court's sanction the marginally-noted estimates and plans for New Works Nos. 29, 30 and 31 entered in the Statement I and for Work No 4 in Statement II-B.

The Principal Assistant Collector to whom these estimates and plans were sent for opinion states in his letter, dated 15th instant, No 54, that the execution of the works

is desirable. An extract from his letter is annexed for the Court's perusal —

"The present calingula of this tank is too small, and consequently the tank bund has been liable to be breached after heavy rains. It is therefore proposed to lengthen the calingula, and the work is necessary."

"3 This tank receives water from the Bogoda Gedda. As there is no calingula or other outlet the bund has often been damaged when the tank is full in wet weather. It is therefore proposed to build a calingula with a body wall 30 feet long to keep the tank in proper order. This work is absolutely necessary."

"4. The ryots of Gurady are in the habit of raising cross bunds at their own expense in the Kristnasagaram channel to water their lands, and the cross bund has often been damaged and the ryots' efforts frustrated. If a calingula were built on the spot it would serve the purpose of the cross bund, but the cost would be great. It is therefore desirable to dig the channel in question."

"5. The present tank bund is too low and requires widening and raising, otherwise it will be damaged when the tank fills after heavy rains."

"6 All these four works have been asked for by the ryots and recommended by the Estate Manager, and I consider they ought to be sanctioned."

ENCLOSURES Nos 1 to 3 — Plans

ENCLOSURES Nos 4 to 6 — Estimates

With the first of the above letters the Collector of Ganjam forwards the Public Works Budget of the Purlakimeddy Estate for the official year ending 31st March 1878, and with the second, plans and estimates for certain works specified in the Budget. The Court will review the details of the Budget under each head.

2 Buildings, New Works, Rupees 10,235, Enclosure No. 1-A—Under this head the four works noted in the margin are entered. No. 1 is a sanctioned item No 3 has been provided in accordance with the Court's Proceedings, dated 12th December 1876, No 10,932, and the plan and estimate submitted for this work are sanctioned. No 2 is intended for replacing the thatched roof of the Collector's circuit shed at Kimedu which requires constant repairs, by a substantial tiled roof. The submission of plan and estimate for it should be expedited. No 4 has been provided at the request of the Zemindar who wishes to have a bungalow built in the Brandavanam garden for himself and his children, and it appears that a plan and estimate is being prepared by the District Engineer. The Court observe, however, that the work is to be entrusted to Mr Chisholm who was requested to prepare and submit plans and arrange for the construction of the bungalow as soon after his return to India as possible,— <i>vide</i> Proceedings, dated 31st January 1876, No 270. The matter appears to have been overlooked and Mr Chisholm will be requested to state what has been done and when the plans may be expected. Meanwhile, the provision may stand	
(i) Improvements to Kimedu sub-division office	Rs 418
(ii) Tilting the roof of the Collector's cutcherry or circuit shed	1,980
(iii) Construction of a bungalow for the accommodation of a medical officer at Kimedu	2,837
(iv) Construction of a bungalow and out-houses in the Brandavanam garden for the use of the Zemindar	5,000
Total ..	10,235

the Brandavanam garden for himself and his children, and it appears that a plan and estimate is being prepared by the District Engineer. The Court observe, however, that the work is to be entrusted to Mr Chisholm who was requested to prepare and submit plans and arrange for the construction of the bungalow as soon after his return to India as possible,—*vide* Proceedings, dated 31st January 1876, No 270. The matter appears to have been overlooked and Mr Chisholm will be requested to state what has been done and when the plans may be expected. Meanwhile, the provision may stand

3 Repairs to Buildings, Rupees 80, Enclosure No 2-A—The provision under this head is intended for minor repairs to several estate buildings and will be allowed to stand

4 Agricultural, Original Works, Rupees 38,903, Enclosure No 1-A.—The following works have been provided for under this head:—

	Rs
(i) Krishnasagaram improvements	8,700
(ii) Restoration of Sarakistnasagaram tank	1,830
(iii) Kingam Gedda Project	2,313
(iv) Calingula to Koorima Gedda	6,000
(v) Under-tunnels for Nagam Katagam channel	1,014
(vi) Weir to Kaluva Gedda of Haddibhang	686
(vii) Alterations and additions to Bhattisirupuram Project	4,000
(viii) Gajapatisagaram improvements and subsidiary works	1,500
(ix) Ramapuram Rudhasagaram Project	2,000
(x) Improvements to Lobarahala tank	1,108
(xi) Constructing a calingula to Murrupadu Gedda to water the lands of Letti Gedda	800
(xiv) Constructing a calingula and a sluice to Mimalapadu tank	600
(xx) Constructing calingula with two sluices to Bavanapuram tank	600
(xxv) Constructing 40-feet calingula to Kistnasagaram surplus channel to irrigate the lands of Ada and Soura villages	552
(xxxii) Constructing a calingula bridge to Batteeswarapuram anicut channel bank at Bagody Pooner	1,345
xii, xiii, xv to xix, xxi to xxiv, xxvi to xxxi } Works costing Rs 500 and less	5,835
	38,903

5 Numbers 1 to 6 are sanctioned works. Orders have been issued in the Court's Proceedings, dated 8th March 1877, No 1,083, for the prosecution of the project entered as No. 1, the explanation called for with respect to its remunerative character having been furnished. No plan and estimate have been forwarded for No 7; but as the Principal Assistant Collector considers it a remunerative work, the provision made for it will be retained pending the submission of the plan and estimate with full explanation of probable financial results. The observations contained in the Principal Assistant Collector's letter with regard to this work show that an estimate has been prepared for it. He speaks of the District Engineer referring to the "report accompanying the project" as to the necessity of the work, but adds that he has not the report before him, while the Collector in his remark in the list of original works (Enclosure No 1) says plans and estimates have not been received. Inquiry should be made as to what has become of the papers, and they should be submitted without delay. No 32, for which a plan and estimate have been submitted, is stated to be supplementary to No 7, sanction for this work will therefore be withheld pending the submission of plan and estimate for the principal work. No 8 has been recently sanctioned (*vide* Court's Proceedings, dated 12th April 1877, No 5,289, Miscellaneous), but the correct amount of the estimate is Rupees 1,560 (not Rupees 1,500). The Budget provision will accordingly be raised to that sum. No 9 has been provided for the purpose of carrying out the arrangement approved in the Court's Proceedings, dated 1st February 1876, No. 297, in adjustment of the water disputes between Parlakimeddy and Tarla Zemindaries. The works 10, 11, 14, 20 and 25, and 12, 13, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27 and 28 (included under Minor Works) will be retained as recommended, but the Court are unable to form any opinion as to their importance in the absence of statistics of the revenue now derived from the works and the profits likely to accrue by the proposed improvements. This information should accompany the plans and estimates which must be forwarded without delay. For Nos. 29, 30 and 31 under Minor Works, plans and estimates have been sent up and they are sanctioned. The Collector should take steps to expedite the submission of plans and estimates for all other works except Nos 1 to 6, 8 and 32.

6. Agricultural Repairs, Rupees 17,070, Enclosure No 2-B—The works provided for under this head are noted in the margin. Plan and estimate for No 5 have been sanctioned in Court's Proceedings, dated 20th February 1877, No. 2,504, Miscellaneous. The estimates now forwarded for No 4 are approved. This tank, it is stated, supplies water to twelve villages paying a revenue of Rupees 4,935, and the proposed repairs are for putting it in an efficient state and preventing it from breaching during the rainy season. Plans and estimates for Nos 1, 2 and 3, as well as a list of works included in Item 6 (petty repairs), should be furnished. The provision made for the works above mentioned will, however, be allowed to stand. No revenue is shown in Columns 6 and 7 of Enclosure 2-B under the tank to which No. 3 refers. This requires explanation. No 7 will be struck out as it is not necessary that allotment of unexpended balances of last year should be made in this Budget.	
1 Repairs to Battiswarapuram and subsidiary works	Rs 1,000
2 Repairs to Gopili and Lakshmanasagaram tanks	720
3 Repairs to Ramapuram and Ramasagaram tanks	500
4 Raising and widening Radhasagaram tank	1,710
5 Restoration of Battiswarapuram anicut	3,360
6 Petty repairs	7,780
7 Probable amount of unexpended balance for works incomplete up to 31st March 1877	2,000
Total ..	17,070

will, however, be allowed to stand. No revenue is shown in Columns 6 and 7 of Enclosure 2-B under the tank to which No. 3 refers. This requires explanation. No 7 will be struck out as it is not necessary that allotment of unexpended balances of last year should be made in this Budget.

7. Reserve, Rupees 1,000.—This amount is provided to meet emergent and unforeseen charges. It is approved.

8 *Communications including Avenues. Original Works, Rupees 12,000*—The

	RS
1 Ghaut road for wheeled traffic up the Gummah Pass ..	7,000
2 Tunnels on Mahah roads ..	1,000
3 Avenues on road sides ..	2,000
4 Drainage of Parlakimedy town ..	2,000
	<u>12,000</u>

works provided for under this head are shown in the margin No. 1 was provided in the last Budget, but no scheme has as yet been finally decided upon, although it has been repeatedly called for A separate report on the subject is promised and the District Engineer should be requested to expedite the transmission of the plans and estimates

The attention of the Collector and Agent to this road is urgently requested The Court have been urging its construction for years past No 2 is entered with reference to the Court's Proceedings, dated 21st February 1876, No 513 The work is to be executed under the supervision of the Principal Assistant Collector No. 3 for road avenues is a necessary item No 4 is provided with reference to the Court's Proceedings, dated 12th April 1876, No 3,314 The Collector states that the District Engineer forwarded a survey and plan with estimates, amounting to Rupees 17,270, for the drainage of the town of Parlakimedy, and that these have been sent to the Principal Assistant Collector for his opinion The detailed estimates for all the works above referred to should be expedited, but meanwhile the allotments made will be retained

9 *Communications, Repairs to Communications and Clearance of Hill Roads, Rupees 9,100, Enclosure 2-C*—This head consists chiefly of maintenance allowances for roads 19½ miles of road are to be maintained at Rupees 100 a mile,

	RS
1876-77 ..	8,800
1877-78 ..	9,100
Increase ..	<u>300</u>

7 miles at Rupees 80, and 89 miles at Rupees 55 Rupees 500 have been provided for roads in the Parlakimedy town, and Rupees 1,000 for Mahah roads The estimate which is only slightly in excess of that for last year is approved

10 *Reserve, Rupees 1,000*—This is intended to meet unforeseen charges and is passed

11 *Range Establishment, Rupees 11,505, Enclosure 3*—The amount provided is Rupees 2,967 in excess of that sanctioned for last year with reference to the proposals contained in the District Engineer's letter, dated 22nd February 1876, No 64, printed in G O, dated 2nd September 1876, No. 2,346, Public Works Department The Collector states that he has called for information from the District Engineer in regard to the details of the increase. The Court have

recently signified their willingness to pay for the services of an experienced European Assistant Engineer of the

1st class for Parlakimedy, and if the arrangement is sanctioned by Government, the allotment will have to be increased. Meanwhile, the amount entered in the Budget will be allowed to stand.

12 *Petty Establishment, Rupees 600*—The provision made is the same as in last year's Budget and is approved

13. *Irrigation Establishment, Rupees 1,560*—The amount provided is the same as in last year's Budget, but it was admitted subject to explanation The Sub-Divisional officer states that the establishment is necessary to see to the proper distribution of water among the ryots and to prevent waste, but no opinion is expressed either by the District Engineer or the Collector. The cost of the old establishment was only Rupees 372, and the Court request the Collector to give his opinion as early as possible as to the necessity for the large increase The Budget provision will, however, be retained subject to explanation.

14 *Survey Establishment, Rupees 1,080*—The amount provided is Rupees 540 less than the sum sanctioned in the current year and is admitted

15. *Stationery and other Contingencies, Rupees 1,300*—The amount provided is the same as in last year and is passed.

16 The subjoined statement shows the allotment sanctioned by the Court under the different heads.—

Items	Estimate for 1877 78		
	New Works	Repairs, including Reserve	Total
1. Buildings ..	RS 10,235	RS 800	RS 11,035
2 Irrigation Works ..	38,963	16,070	55,033
3 Communications ..	12,000	10,100	22,100
4 (a) Range Establishment ..			11,505
(b) Petty do ..			600
(c) Irrigation do ..			1,560
(d) Survey do ..			1,080
5 (a) Stationery, &c ..			500
(b) Tools and Plant ..			800
Total ..			1,04,213

By Public Works Department
By Other Agency

	RS
By Public Works Department	1,02,213
By Other Agency	2,000
Total	<u>1,04,213</u>

17. The total estimated amount exceeds the grant for last year by Rupees 10,421 The increase is due to the fact that many of the works provided for in last year's Budget have not been commenced and consequently reappear in this Budget Looking to the large number of unsanctioned works provided in the present Budget also, the Court fear that there is little probability of the provision being fully utilized; but as the works seem to be beneficial, and a selection, in the absence of information as to their relative importance, would be difficult, the Court have sanctioned the Budget in its entirety, trusting that no efforts will be spared to complete the plans and estimates under preparation, so that the funds allotted for expenditure during the year may be utilized. The District Engineer should be requested to state the cause of the great delay which has been experienced.

18 The Collector is requested to obtain and submit a report on the progress of works in the estate during the year 1876-77, and a list in the form appended to the Court's Proceedings, dated 18th December 1875, No 3,372, of allotments out of unexpended balances required for works which remained incomplete at the close of the year.

19 The Accountant-General is requested to place, in communication with the Collector, the sum of Rupees 1,02,213 at the disposal of the Public Works Department

20 The plans and estimates received with the Collector's letters will be returned to him The Budget statements will be printed and seven copies supplied to the Collector as desired.

16.6.76 No 1499

28

6518

21. A copy of these Proceedings will also be forwarded to Government for their information.

(True Copies and Extract)

(Signed) C. A. GALTON,

Sub-Secretary.

To the Collector of Ganjam, with nine original Enclosures returned.

„ the Secretary to Government Revenue Department

„ the Consulting Architect to Government.

„ the Accountant-General

Communicated to the District Engineer Ganjam.

Exd W J Lewis, A Grubert, and W. H French

Order thereon 3rd July 1877 No. 2192 7-7-77
Communicated to the

Public Works Department.
(True Extract)

40 4th July 77 No. 33

To the Public Works Department

Master Secy to Govt.

Exd 12

Public Works Department—under charge of Court of Wards in Ganjam District—Reviewing Public Works Budget of — for official year ending 31st March 1878.

M A Y.
No 2,246

Received

PROCEEDINGS, 16th MAY 1877, No 2,246.

Encl.

1877.
Court of Wards,
MADRAS.

353
 Subt. of (1877) Madrid
 PUBLIC WORKS.

To

Dated

Issued

Recd

Encl

*Callen up for reference
 6/7/77 Remalle
 returned to Meo
 9/7/77
 5-7-77*

G. v. 4-1877, No 353 W

Nos. 33-34

*Mr Kennedy to state
 orders of the Court of
 the reviewing the Public
 the Budget of — for
 official after ending 31st
 March 1878. Communicated
 to the Dr Espartero.*

*Memorandum
 entered in Register
 16-7-77*