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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1730	Press
B.P. No.		Mis. —
Dated	18-7-	1874
		—195—

Not to be folded or roughly handled

Read the following papers:—

No. 343. Endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 18th December 1873, No. 901.

From Major J. BEATTY, R.E., District Engineer of Vizagapatam, to Lieut. grant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Waltair, 10th December 1873, No. 1,713.

I HAVE the honor to forward, herewith, the revised scale of Conservancy Establishment for the Irrigation works on the Sarada and Varaha Rivers in the Golugonda Range of this district, called
1 Copy of Assistant Engineer's letter, No. 1,001.
2 Statements.
for in your Memorandum No. 716 A of 8th October 1873.

2. The list of establishment now proposed shows the particulars of the works to be supervised, and the acreage and revenue under them, and is accompanied by a report from the Assistant Engineer in charge of the Range, and by the tabular statement required by the Government of India.

3. The preparation of the list has been delayed by the severe illness of the Range Officer, and by the want of any large scale maps of the district. These maps are specially requisite in the Golugonda Range, in which alone we have Government irrigation. I applied for the maps some months ago when the grouping of irrigation works was called for, and learnt that they were not in print. Our only maps at present are those of the Trigonometrical Survey on the scale of 4 inches to a mile, which is too small to be of much practical value in the case of irrigation works.

4. The strength of Conservancy Establishment at present maintained was proposed for sanction some months ago under a misapprehension of the intentions of Government, and the extent of the duties that should be required from them. Under the definition of these duties, laid down in your Memorandum under reply, it is clearly seen that the one gumashta and seven lascars now maintained are utterly insufficient, and after giving the matter every consideration, I have had the accompanying list prepared, which, I believe, should be adequate to the purpose, and not greater than is indispensable for the efficient discharge of the specified duties.

5. The only further explanation that appears to be necessary from me is that the distance between the upper and lower anicuts on the Saradanuddy does not appear to be so great as stated in paragraph 3 of your Memorandum, though what would be the nearest practicable route from one to the other in the irrigation season I am unable to state, owing to the want of proper maps. I am of opinion, however, that while there is not sufficient work on that river only for two gumashtas, three men are necessary for the two rivers, and that Mr. Brickwell's proposition to give one charge from the Godari anicut to Dimily; the second, from Dimily to the mouth of that river, and up the Varahanuddy as far as Koppaka; and the third, the works on the latter river above Koppaka, is the most convenient division that can be made. The fact that the two rivers flow into the sea at the same place favors this arrangement.

Proceedings of the Madras Government, Public Works Department,
18th July 1874.

From F. BRICKWELL, Esq., C.E., Assistant Engineer in charge No. 1 or Golugonda Range,
to Major J. BEATTY, R.E., District Engineer, Vizagapatam, dated Yellamunchilly,
2nd December 1873, No. 1,001.

I HAVE the honor to forward my report on the Neeranicum Establishment of No. 1 or Golugonda Range.

1. *Saradanuddy*.—At present there are four lascars employed on this river principally in gauging the depths of water at the various anicuts and head-sluiques, and in inspecting the irrigation works in the immediate vicinity of the head works. To enable the superintendence to be carried on on the scale laid down by the Chief Engineer in his Memorandum, No. 716 A, dated Nursipatam, 8th October 1873, this establishment must be largely increased, as many of the river channels extend for miles, supplying several villages, and having many branches with, in some cases, dividing sluices and regulating dams. Moreover, each land-holder is in the habit of damming the channels contiguous to his field when the water is low, in order to turn it on to his field; and when he has received a sufficiency he is supposed to remove the cross dam and pass the water on to his neighbour, thus giving rise to endless disputes, which will require a very strong establishment to put a stop to. This practice is said to be the custom in this district, and it seems impossible to remedy it until the Kondakirla Ava Project is carried out, which will probably obviate the necessity of these dams, or most of them. At present it would seem practicable only to regulate them, and see that each ryot gets his fair share of water.

2. I have proposed for the *Saradanuddy* system two gumashtas and seven permanent lascars, to be assisted in the irrigation season by four temporary lascars to aid in removing shutters, etc. The works will be divided into a Northern and Southern Circle, with a gumashta in charge of each. The Northern Circle is to include the Godari anicut and works as far south as Dimily. The Southern Circle to include all works west of Dimily as far as Koppaka, thus including in it some works supplied by the *Varahanuddy*; but I see no way of arranging the circles otherwise, so as to give equal work to each gumashta. I should add that the gumashta in charge of the Southern Circle will also have charge of the Koppaka anicut.

3. *Varahanuddy*.—There are now three lascars employed on this river system. I have proposed one gumashta, six permanent lascars, and six temporary lascars, for the irrigation season.

4. The duties of the gumashtas and lascars have been laid down by Colonel Mullins in his Memorandum, No. 716A, dated Nursipatam, 8th October 1873.

5. The works proposed to be entrusted to each gumashta and lascar are shown in detail, with area of cultivation, etc., under the works in each charge in the enclosure.

6. The lascars' pay should be at the rate of Rupees 4½ for temporary and Rupees 5 for permanent lascars per mensem; and the gumashtas Rupees 10 per mensem, with Rupees 2 per mensem batta, to be given only if they conduct their duties satisfactorily.

7. The cost of the Establishment thus proposed will be as under—

	RS.
3 Gumashtas, at 12 Rupees	432 per annum.
13 Lascars, at 5 „	780
10 Temporary do. for seven months, at Rupees 4½	315

8. The area of cultivation and revenue is as follows:—

	Acres.	Revenue.
		RS.
Saradanuddy	13,788	74,759
Varahanuddy	12,818	64,789
Total... ..	26,606	1,39,548

So that the charge for conservancy would be rather less than 1·1 per cent.

Proceedings of the Madras Government, Public Works Department,
18th July 1874.

Statement showing the particulars of Works to be supervised by the proposed Conservancy Establishment and the Acreage and Revenue under those Works.

Circles.	Names of Stations and Description of Establishment.	Names of Stations at which Lascars meet when on circuit.	Names of Works.	NUMBER OF IMPORTANT MASONRY WORKS UNDER WORKS SHOWN IN COLUMN 4.					AYACUT.		Remarks.
				Anicuts.	Head-sluiques.	Sluices.	Calingulabs.	Large Dams.	Acres.	Assessment.	
1	2	3	4	5	6	7	8	9	10	11	12
Northern Circle.	1 Lascar at Godari anicut.	Munagapaka.	<i>Saradanuddy</i> . Godari anicut and head-sluique. Kristamraz channel... Chintamon calingulab. Gorge calingulah ... Cassemadam anicut.	1	1	...	2	...	...	...	This lascar is to look over Godari anicut and head-sluique and Kristamraz channel as far as Munagapaka; also to prevent damming the channels and to keep a register of water passing over Godari anicut and head-sluique and Cassemadam cotta, and to make minor emergent repairs.
	1 Temporary Lascar at Godari anicut.			...	...	...	1	...	...	...	To help work the shutters in wet season.
	1 Lascar at Temmarazupetta.	Hurripollem village.	Hurripollem or Ava calingulah. Sytar channel ... Old river ... Poorada nullah ... Cassemadam channel. Channel of Temmarazupetta.	...	1	...	...	...	157 0 182 0 162 0 410 0 68 37	1,861 0 1,742 0 1,511 0 3,492 0 627 14	To keep a register of water passing over Sytar head-sluique and over Ava calingulah, and to protect masonry works, etc. He is also to look over Kristamraz channel as far as Munagapaka, and to attend to minor emergent repairs.
				...	...	...	...	...	979 37	9,233 14	
			Total...	...	1	1	1	2	979 37	9,233 14	

Establishment, etc.—(Continued.)

Circle.—(Continued.)

Northern

2

Particulars of Works to be supervised by the proposed Conservancy Establishment, etc.—(Continued.)

Circle

Southern

[illegible]

Proceedings of the Madras Government, Public Works Department,
18th July 1874.

Statement showing the particulars of Works to be supervised by the proposed Conservancy Establishment, etc.—(Continued)

Statement showing the particulars of Works to be supervised by the proposed Contractor.											
Circles.	Stations and Description of Establishment.	Names of Stations at which Lascars meet when on circuit.	Names of Works.	NUMBER OF IMPORTANT MASONRY WORKS UNDER WORKS SHOWN IN COLUMN 4.					ATACUT.		Remarks.
				Head-slucies.	Slucies.	Calingulabs.	Large Dams.	Acres.	Assessment.		
1 2	3	4	5	6					7	8	9
Southern Circle.—(Continued)	Lascar at Calavalapully.	Razala	Savadanuddy.— (Conold.) Calavalapully anicut... River channel of Calavalapully. Nullah in do. ... Durnasagar tank and river channel of Velsoor. Razoo Cheruvu of do. Pasamakhandy of do.	1	...	...	...	...	202 0	1,620 0 0	To keep a register of measurements of depths of water passing over Calavalapully anicut, and to look over all these works to prevent damages; also to make a proper distribution of water, and to keep these works in good order.
				...	...	...	...	...	240 0	1,610 0 0	
				1	1	1	...	644 0	3,037 0 0		
				...	...	...	...	62 0	247 0 0		
				...	...	...	...	...	...		
	1 Temporary Lascar at Turangalapalem.	Somalingapalem to meet Lascar stationed at Govindavada.	Choda Cheruvu of Koki-rapilly. River channel of do. Addugedda Chirala in Agraharam. Reservoir ... Aqueduct at Ramarayinipollem.	1	2	1	1	...	1,148 0	6,534 0 0	This lascar is to look over all these works, and to make a proper distribution of water; also to attend to minor emergent repairs. His services are to be dispensed with in hot weather.
				...	...	2	1	...	261 0	1,856 0 0	
				...	...	1	...	...	145 0	1,145 0 0	
				...	...	...	...	70 0	490 0 0		
				...	...	...	...	206 0	1,770 0 0		
	Total...			...	3	1	...	682 0	5,261 0 0		
	Grand Total...			8	13	10	10	13,788 10	74,759 12 7		

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1 Lascar at Gubbada.	Nursipatam.	Varahanuddy. its River channel and its branches.	1	1	5	...	...	215 0	1,374 0 0	This lascar is to keep a register of water passing over Gubbada anicut, and to distribute water to the ryots. He is also to keep these works in good order, and to prevent damages, etc. This man is to be assisted by a temporary lascar in the rainy season to work shutters, etc.
		Pedd Cheru in Nursipatam.	...	...	2	1	...	67 0	380 0 0	
		Ayanapatrudi Cheruvu in do.	...	...	...	...	...	15 0	64 0 0	
		Nursipatam tank in Baligattam.	...	...	...	...	...	71 0	359 0 0	
		River channel of do....	...	...	...	...	...	71 0	320 0 0	
		Big tank of Pedda Boddapully.	...	...	1	1	...	121 0	525 0 0	
		River channel of Lutcheempuram.	...	...	1	...	...	125 0	501 0 0	
		Do. of Gundapala...	...	...	...	...	...	65 0	336 0 0	
		Division sluice	...	...	1	...	...	...		
		Total...	1	1	10	2	...	753 0	3,859 0 0	
1 Temporary Lascar at Nursipatam.	Durnasagarum.		...	...	...	...	...		To work shutters, etc., of Gubbada channel, etc., in rainy season. This lascar is to register the water passing over the water passing over Duggada anicut, and to distribute the water to the ryots of neighbouring villages; also to keep these works in good order, as well as to report damages and to make minor emergent repairs. He is to be assisted by a temporary lascar in the rainy season to work the shutters, etc.	
		River channel	...	...	...	...	...	202 0		1,153 0 0
		Pedd Cheruvu in Durnasagarum.	1	1	2	1	...	84 0		514 0 0
		Duggada river channel, Vanalapudy.	...	...	...	...	...	97 0		505 0 0
		Do. of Annaveram ...	...	...	...	...	...	125 0		654 0 0
		Naganah tank in Julloor	...	...	1	...	...	32 0		235 0 0
		Tootibunda tank in do.	...	...	...	...	...	24 0		178 0 0
		Ralla bunda in do. ...	...	...	...	...	...	33 0		210 0 0
		Duggada river channel of do.	...	...	...	...	...	79 0		608 0 0
		Allumula Atchemma tank in Sunkapur.	...	...	2	1	...	509 0		3,302 0 0
1 Lascar at Duggada.	Durnasagarum.	Duggada river channel of Bapiracottapully.	...	...	...	...	...	202 0	1,413 0 0	
		Amudala Khandy in do.	...	...	...	...	42 0	298 0 0		
		Total...	1	1	6	2	...	1,429 0	9,122 0 0	

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	...	...	1	...	...	269 0	860 0 0
Thallama Cheruvu in Kottaly.	...	...	1	...	...	110 0	457 0 0
Billakumarapu channel.	...	...	...	...	...	1,524 0	6,415 0 0
Total...	...	...	8	1	...	69 0	1,159 0 0
Pedda Cheruvu in Sudurum.	...	...	2	1	...	87 0	306 0 0
Vomady tank in do.	...	...	...	1	...	303 0	1,018 0 0
Masudu tank in do.	...	...	...	...	...	90 0	340 0 0
Razoo tank in do.	...	...	...	1	...	134 0	774 0 0
Vomady tank, Vamagiri.	...	...	1	...	...	72 0	472 0 0
Dongala Bunda in do.	...	...	1	...	...	37 0	200 0 0
Mataya Cheruvu in do.	...	...	...	1	...	637 0	2,337 0 0
Ravulu tank and River Channer, Survasidy.	...	1	3	...	...	72 0	152 0 0
Macktagedda channel in do.	...	...	...	...	...	80 0	251 0 0
Tota channel in do...	...	...	...	...	...	35 0	81 0 0
Bennaveram channel in do.	...	...	...	...	...	35 0	238 0 0
Suodepuram tank in do.	...	...	...	...	...	192 0	336 0 0
Koppanabunda tank in do.	...	...	1	...	...	1,843 0	7,664 0 0
Total...	...	1	8	4	...	205 0	955 0 0
Muttu channel of Pen-gole.	...	1	...	...	...	269 0	1,237 0 0
Mollapollem channel of do.	...	1	...	...	...	199 0	1,166 0 0
Channel in Vom-mave-ram belonging to Pengole and Vom-ma-verum.	...	...	1	1	...	199 0	1,166 0 0
Nursimhasagarum tank in Vom-mave-ram.	...	...	1	1	...	847 0	4,385 0 0
Total...	...	2	2	2	1	...	...

1 Temporary Vommaveram. Lascar at Sudurum.

1 Temporary Vommaveram. Lascar at Pen-gole.

This lascar is to look over all these works, and to make a proper distribution of water, and to work shutters, etc., in the rainy season. He is also to attend to minor emergent repairs to earth-works, etc., and to keep these works in good order. The services of this lascar are to be dispensed with in hot weather.

This lascar is to distribute the water, and to work shutters in the rainy season; also to attend to minor emergent repairs. His services are to be dispensed with in the hot weather.

Statement showing the particulars of Works to be supervised by the proposed Conservancy Establishment, etc.—(Continued.)

Proceedings of the Madras Government, Public Works Department,
18th July 1874.

Circles.	Stations and Description of Establishment.	Names of Stations at which Lascars meet when on circuit.	Names of Works.	NUMBER OF IMPORTANT MASONRY WORKS UNDER WORKS SHOWN IN COLUMN 4.					ARACCT.		Remarks.
				Anicuts.	Head-slucies.	Slucies.	Calingulabs.	Larise Dams.	Acres.	Assessment.	
1	2	3	4	5	6	7	8	9			
				<i>Varahanuddy.—</i> (Continued.)							
				Pedda Calava of Rayaveram.	...	...	...	1	113 0	734 0 0	This lascar is to look over all these works and to distribute water to the rivots of the surrounding villages, and to work shutters, etc. He is also to keep a register of water, and to attend to repairs of petty damages.
				Totaravadi Calava of do.	...	...	...	...	60 0	500 0 0	
				Anantasagarum tank in do.	...	1	...	...	605 0	3,584 0 0	
				Ramasagarum tank in do.	...	2	1	...	426 0	2,586 0 0	
				Kristnasagarum tank in do.	...	...	...	...	25 0	121 0 0	
				Punta tank in do. ...	...	...	...	...	40 0	331 0 0	
				Curriboumanah channel in do.	...	...	...	...	87 0	723 0 0	
				Do. Conati channel ...	...	...	...	...	77 0	319 0 0	
				Cotta Cheruvu, Lingarazupalem.	...	1	1	...	467 0	2,677 0 0	
				Voemady Kristnasagarum tank in do.	...	1	...	...	170 0	845 0 0	
				Visumraz channel of do.	...	...	...	...	128 0	528 0 0	
				Cottapalem channel in do.	...	...	...	...	117 0	534 0 0	
				Pottubunda do. do. ...	...	...	...	...	16 0	81 0 0	
				Kamaraz do. do. ...	...	...	...	...	60 0	213 0 0	
				Total...	...	5	3	1	2,331 0	13,800 0 0	

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1 Temporary Lascar at Pedda Oppalum.	Pedda tank in Pedda Oppalum.	...	...	3	...	1	...	896 0	4,016 0 0	This lascar is to work shutters, etc., in the rainy season, and to distribute water. He is also to attend to minor emergent repairs. His services are to be dispensed with in hot weather.
	River channel of do. ...	...	...	...	...	...	...	313 0	1,515 0 0	
	New tank in Chinna Oppalum.	...	...	1	...	...	...	91 0	244 0 0	
	Rolla Cheruvu in Gudivada.	...	...	1	...	...	...	144 0	293 0 0	
	Oppoo Cheruvu in Gudivada.	...	...	...	...	...	...	88 0	189 0 0	This lascar is to work shutters, etc., in the rainy season, and to distribute water. He is also to attend to minor emergent repairs.
	New channel in do. ...	...	...	...	...	...	...	93 0	101 0 0	
	Total...	...	...	5	...	2	...	1,625 0	6,558 0 0	
	New tank in Opparapully.	...	...	2	...	1	...	344 0	2,030 0 0	
	Voemadi Kristnasagarum tank in do.	...	...	2	...	1	...	97 0	357 0 0	He is to supervise the lascars between Gubbada and Koppaka anicuts, and to inspect their works; and also to receive water reports from the lascars, and send a general report to the Range Office; also to keep a diary and daily record of work done by lascars.
	Lutchumaraz channel in do.	...	...	...	...	...	...	95 0	419 0 0	
1 Lascar at Opparapully.	Pottupollem channel in do.	...	...	...	...	...	...	65 0	317 0 0	
	Ramasagarum tank in Vacapad.	...	...	2	...	1	...	670 0	2,823 0 0	
	River channel in do.	...	...	...	...	...	...	230 0	655 0 0	
	Total...	...	...	6	...	3	...	1,501 0	6,601 0 0	
1 Gumashta at Nursipatam.	Grand Total...	...	...	11	52	20	...	12,818 0	64,789 0 0	
	All anicuts and channels, etc., from Koppaka as far as Gubbada.	...	...	...	...	...	...	...	...	
		...	...	...	...	...	...	...	...	

No. 716 A.

MEMORANDUM.

In June last, in answer to the correspondence with the District Engineer, Vizagapatam, regarding the Conservancy Establishment, the undersigned drafted a Memorandum approving of the measures which had been taken to provide useful employment for the members of that establishment who would otherwise have nothing to do, but stating that it was questionable whether it would be advisable to make the reductions proposed in the correspondence of the District Engineer with the Secretary to Government. It was found, however, that in connection with certain petitions from dismissed lascars an order had already been passed approving of those reductions, and the matter has consequently been left until the undersigned has, by visiting the district, had an opportunity of discussing the subject more fully with Major Beatty.

2. It may here be noticed that correspondence or references relating to Conservancy Establishments employed on Irrigation works should be addressed to this office, and not to the other branch of the Public Works Department.

3. It appears that at present the Conservancy Establishment of the district consists of one Gumashtha and seven Lascars, and it has to look after the Saradanuddy and five anicuts, the highest and lowest anicuts being upwards of thirty miles apart, while in connection with these there are many miles of supply-channel and many regulating works. The area of irrigation of Government lands is upwards of 11,000 acres and the Revenue more than 80,000 Rupees.

The Varahanuddy and three anicuts, the distance from the highest at Gubbada and the lowest at Koppaka being about twenty miles, involving the usual amount of inspection and regulation.

4. It appears to the undersigned that the establishment is altogether inadequate to the proper performance of the duties which it is required, or should be required, to perform. It is very evident that many of those duties are now very imperfectly carried out, and that the works cannot be maintained in an efficient state, waste of water prevented, and encroachments promptly put a stop to, without far more frequent inspections than are now possible, while inquiries, which the Range Officer may require to have made with a view to ascertaining whether the water drawn off from the channels is being properly utilized, cannot be undertaken.

5. Among the numerous duties of Conservancy Establishments are—

- The care of all the works entrusted to them.
- The regulation of water under specific directions from the Range Officer.
- The registration of the water-supply, not only at the anicuts and head-works, but at all other important points, such as at surplus works; and the measurement of the depths of water on the sills and in rear of all head-slucies when periodical inspections are made.
- The execution of trifling repairs from time to time to banks and other earth-works.
- The immediate protection of earth-works in the neighbourhood of sluices, surplus works, etc., which may be damaged.
- The clearing of embankments from weeds and undergrowth, so that their exact state may be always apparent.
- The filling and tamping of all vermin holes; the cutting out of white-ant nests with the destruction of the queens, making good the banks at such places; the timely repair of the crossings of banks at fords.
- The detection of leakage; the examination, from time to time, of all masonry works on main and branch channels which may be repairable from the agricultural grant, so that all undermining or other occasions of injury may at once be discovered, and the proper remedies applied.
- The superintendence in detail of the carrying out of annual or special repairs.

6. The Gumashthas should keep diaries of the work done or the inspections made by them; they should also maintain a daily record of the employment of the lascars under their orders, and

Statement showing the particulars of Works to be supervised by the proposed Conservancy Establishment, etc.—(Concluded.)

Circles.	Stations and Description of Establishment.	Names of Stations at which Lascars meet when on circuit.	Names of Works.	NUMBER OF IMPORTANT MASONRY WORKS UNDER WORKS SHOWN IN COLUMN 4.					AYACUT.		Remarks.
				Anicuts.	Head-slucies.	Slucies.	Calingun-labs.	Lars.	Acres.	Assessment.	
1 2	3	4	5	6	7	8	9	10	11	12	13
1	Gumashtha at Pullapurti.		Varahanuddy.— (Concluded.) All anicuts and channels, etc., from Koppaka as far as Dimilly.	...	...	...	...	...	...	...	He is to supervise over all the lascars in his circle, and to inspect their works. He is also to receive reports of measurements of depths of water from the lascars of his circle, and to send a general report to the Range Office, as well as his diaries and daily report of work done by lascars.
1	Gumashtha at Godari anicut.	All anicuts from Godari anicut to Dimilly.	...	...	...	...	...	...	...	...	Do. do.

N.B.—The Tanks exhibited in this Statement are fed by River channels.

ABSTRACT.

3 Gumashthas.
13 Permanent Lascars.
10 Temporary Lascars.

(Signed) F. BRICKWELL, C.E.,
Assistant Engineer.

(True Copy.) (Signed) J. BEATTY, Major, R.E.,
District Engineer, Vizagapatam.

YELLAMCHELLI,
2nd December 1873.

officer to be greater than is necessary for the efficient discharge of the specified duties.

3. A tabulated statement showing the present and proposed establishments prepared in the form kindly furnished by you is herewith submitted.

From J. F. SNAITH, Esq., Acting Principal Assistant Collector in charge of the District, to the District Engineer, Waltair, dated 12th May 1874.

In reply to your letter, No. 1,939, dated 13th February last, I have the honor to inform you that the Neeranicum Establishment proposed by the Assistant Engineer does not appear to me to be greater than is necessary for the efficient discharge of the specified duties.

2. The enclosures of your letter are herewith returned as requested.

Proceedings of the Madras Government, Public Works Department,
18th July 1874.

the Range Officer should satisfy himself that the latter are fully employed on useful work; they should all be working men.

7. The District Engineer is requested to draw up a revised scale of Conservancy Establishment for the Irrigation works of his district with reference to these considerations, and to submit it with the tabular Statement* required by the Government of India as soon as possible, giving at the same time the particulars of the works to be supervised, and the Acreage and Revenue under them. As at present informed the undersigned thinks that two Gama-las for the Saradanuddy Irrigation and one for the Varahanuddy should be employed, and that the number of lascars to be retained throughout the year should be increased, or that the scale should provide for additional lascars to work the shutters, etc., during the Irrigation season. Every permanent lascar should have his assigned duties and his beat, and should be held responsible for the good order of every thing within the limits of that beat.

* G. O., No. 193, dated 14th May 1870, form enclosed.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

8th October 1873.

SUBMITTED for the consideration of Government, with a recommendation that the revised Conservancy Establishment, drawn up for the Vizagapatam District, should be sanctioned from the commencement of the official year 1874-75. The instructions given to the District Engineer regarding the duties of this establishment are contained in the Memorandum as per margin. The cost per annum will be 1-1 per cent. on the revenue, and less than 1 Anna per acre, and it is hoped that many of the irregularities now so prevalent in the irrigation under the Saradanuddy and Varahanuddy will be checked, and that the water-supply will be turned to better account. It will be seen from paragraph 8 of the Assistant Engineer's letter that the irrigation to be conserved is

Under the Saradanuddy	Acres.	Revenue.
Do. Varahanuddy	13,758	71,759
Do. Varahanuddy	12,818	61,780
Total ..	26,576	1,33,539

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 344. From Captain J. W. HINDLE, Officiating District Engineer, Vizagapatam, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Waltair, 13th May 1874, No. 279. With reference to your Memorandum No. 29 of 13th January 1874, I have the honor to inform you that, as therein directed, my predecessor furnished the Collector with copies of the instructions contained in your Memorandum dated 2nd December, showing the proposal therein made for an increased Conservancy Establishment meets with his approval.

1 Copy of Collector's letter.
1 Statement.

* On 13th February 1874.

No. 716 A, dated 8th October 1873, and the statement, dated 2nd December, showing particulars of works, etc., to be supervised, and requested him to state whether the proposal therein made for an increased Conservancy Establishment meets with his approval.

2. The enclosed is a copy of the Collector's reply just received in this office, from which it will be seen that the proposed establishment did not appear to that

VIZAGAPATAM DISTRICT.
Tabular Statement showing the Present and Proposed Scales of Neeranicum Establishment in the Vizagapatam District.

Extrict from Home Department of Govt. of India.		Office to which the Proposition refers.	NATURE OF CHARGE.		PROPOSITION.							Local Government's recommendation.	ORDERS OF THE GOVERNMENT OF INDIA.		
No.	Date.		Present Scale.	Proposed Scale.	PERMANENT.		TEMPORARY.			Grounds of Proposition.	P. W. Department.		Financial Department.		
					Increase per Month.	Decrease per Month.	Period.	Increase per Month.	Period.					Decrease per Month.	
		Saradanuddy and Varahanuddy Rivers.	1 Gumashia ... 10 2 Lascars ... 10 5 Temporary Lascars for 6 months, at 5 Rs. each ... 25 45	Saradanuddy. 2 Gumashias ... 24 7 Lascars ... 35 4 Do. temporary for 7 months, at 4-8-0 each... 18 77	14 25 --	--	--	--	--	--	--	--			
				Forahanuddy. 1 Gumashia ... 12 6 Lascars ... 30 6 Do. temporary ... 27 69	19 20 --	--	--	Seven months.	27	--	--	--	--		
			Total Increase per annum --		973	--	--	--	103	--	--	--	--		

(Signed) J. W. HINDLE, Captain,
Offg. District Engineer, Vizagapatam.

WALSH,
13th May 1874.

No. 345.

ORDER THEREON, 18th July 1874, No. 1,930.

IRRIGATION, No. 33.

Establishment.

BEFORE passing orders on these papers, the Government desire to be informed whether there is any village Nirgunti or Niranikum Establishment attached to any villages irrigated by the Saradanuddy or Varahanuddy, and if so, how it is remunerated. Also, whether there are any fees, etc., merah or maniyema for the maintenance of irrigation works, and what the ancient conditions may be in regard to such matters in the district. These papers will therefore be communicated to the Revenue Department, in order that the above information may be obtained from the Collector, who will further be requested to state what paid Conservancy Establishment should be charged.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

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

Exd. T. O'Connor.
Spare Copies

MEMORANDUM.

Requested for reference the under-mentioned papers:—

- 1. [Set of 1046-95 June 174 } Sent with Ch. Eng's Rate 8.1.13.
- [Set of 613-8716 Branches sent } referred to in 86 in 1956-21 July 194.
- [Set of 270-499 April 174 }
- [Set of 364 H 9 14 June 173 }
- [Set of 2050-10 Dec 173 and 174 } Sent to Govt with Ch. Eng's
- [Set of 7122-8 Oct 173 }
- [Set of 920-10 June 174 and 175 } R. 936 of 1974 and reference B
- [Set of 716-25 May 173 } 256 R. 1930-18 July 174.
- [Set of 779-13 Jan 174 }
- [Set of 538-28 March 173 }

OFFICE OF THE CHIEF ENGINEER
FOR IRRIGATION,
31-7-1874

Director

Head Clerk.

To

The Registrar of the S. P. D. C.

enclosures 6.No 716 A of the
8th October 1873.

Submitted for the consideration of Government, with a recommendation that the revised conservancy establishment drawn up for the Vizagapatam District should be sanctioned from the commencement of the official year 1874-75. The instructions given to the District Engineer regarding the duties of this establishment are contained in the Memorandum as per margin - The cost per annum will be 1.1 per cent on the revenue, and less than 1 anna per acre, and it is hoped that many of the irregularities now so prevalent in the Irrigation under the Saradanuddi and Varahanuddi will be checked, and that the water supply will be turned to better account. It will be seen from para. 8 of the Assistant Engineer's letter that the irrigation to be conserved is

	acres	Revenue
under the Saradanuddi	13,788 -	74,759
" " Varahanuddi	12,818 -	64,789
	<u>26,606</u>	<u>Rs 1,39,548.</u>

Fort Saint George }
18th December 1873.

W. Henderson

Lieut. Colonel R.E.

Chief Engineer for Irrigation.

To, The Secretary to Government
Public Works Department.

193 B. Tr. S.

Proceedings of the Madras Govt. Read the following:

From
The Chief Engineer } (H. E. No 901 of 18th Dec/13)
for Brigadier }
Lt. Col. V. Gopalani (H. E. No 279-8, 13 Dec/13)

Before passing orders on these papers, the Govt. desire to be informed whether there is any village irrigation or Kisanikam establishment attached to any village irrigated by the Saradavaddy or Tarahanuddy, and if so how it is remunerated. Also whether there are any fees, *merah* or *maniyem* for the maintenance of irrigation work.

MS
18/13

13. 1874 *Madras Government*
From 9/12/13 *1874*
No 83.

The Chief Engineer for
Brigadier
for the Secretary to Govt.
P. M. S.

Sales 18th }
Recd 8th } December 1873
1874

No 901.

+ *Madras Govt.*
to be for sanction the
revised scale of remuneration
Establishment drainage
for the Hyderabad District
with observations -

G.O. No: 1930.18-7-74

2403413

22 202/19

works and what the
ancient conditions may
be in regard to such
matters in the District.

These papers will
therefore be commu-
-nicated to the Revenue
Department in order
that the above informa-
-tion may be obtained
from the Collector, who
will further be requested
to state what paid con-
-servancy establish-
-ment should be changed.

15/6/74

G.M.

The D. B. Vizagapatnam
Chief Engineer
Revenue Department

343-345

S.O. No. 30-7-74

Recd 10/6/74 18/6/74

6/3

I ask the Coll. of telegr
if necessary - whether there
any village nirgunti or
nirankham etc. attached
any of the villages under
New Systems of irrigation?
If so how remunerated?
Whether there are any fees or
merch for the maintain-
-ence of the works - or any other
charges - what paid con-
servancy etc. etc. charges
and what the ancient con-
ditions may be in regard to
such matters - the sub-

2/6

Reference to the
letter made by order
of the Chief Engineer
his object is to
ascertain the
proposed new

His Excellency the
Governor in Council approved
of the introduction of the
revised scale of Conservancy
Establishment for the irri-
gation under the Saradammidi
and Sarahannuddi in the
Vizagapatnam District,
as recommended by the
Chief Engineer for Irrigation,
from the 1st April 1974 and
a copy of these Proceedings
which contain full information

on the subject of the improved
arrangements for the ma-
-nagement of this important
field of irrigation, intended
to be secured, will be trans-
mitted to the Government
of India, with a request
that the revised establish-
ment may be sanctioned
~~and provision for it will~~
~~be made in the Budget~~
~~of the Irrigation Department~~

2. It is observed that
although the increased cost
is shown by the tabular
Statement to be Rs. 1137
per annum above the
establishment now actually
employed, the difference
between the Budget provision

for

for this and former years
and that proposed for the
future is only Rupees 899.

Bocket no. - My. 6/1/74
7

Copy of the above
forwarded to the Govt. of
Ludra.

My. 26/5/74

G.M.N.

\$34
 letter from
 Govt. of 1874
 Mys.

PUBLIC WORKS.

20

The Dist. Ingr.
Vizagapatam

Notes.

his

Enel

nos.

360-345.

no en any Establishments
where poctam distict

Papers connect to with
a scale of Prices
Establishment, Comd.
Revenue Department.
with a view to certifying in
information ~~from~~ ^{being} obtain
from the Collector on
subject —