(1) பக்கங்களின் எண்ணிக்கை 52

(2) புதுக்கித் திருப்பிய நாள் 12|91

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W. துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 2438.

அச்சகம்
பலவகை

நாள்: 22.9.1893. 199

மடிக்கவோ கண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1—18,006—6-9-90.

3438/1

22nd September 1893, No. 2438 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Read—the following papers :—

From A. A. G. MALET, Esq., Officiating Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, Tank Restoration Scheme, dated Bezwada, 13th May 1893, No. 388 K.S.

I have the honour to bring to your notice certain omissions from Part IV of the preliminary issue of the Provincial Minor Works and Navigation budget for 1893–94 and suggest the following alterations to remedy them :—

Page 8—Special establishment required for investigating upland projects in Kistna district—

	RS.
For—	
One clerk on	20
,, draftsman on	50
Read—	
One draftsman on	50
,, do. on	30
Two surveyors on	80
Twelve lascars on	6

The services of the clerk were dispensed with (*vide* G.O., No. 2448 W. of 1st September 1892), and although one sub-party, Tank Restoration Scheme, has been done away with owing to the services of M.R.Ry. Swaminadha Pillay having been dispensed with, the executive engineer considers that the services of the draftsman on Rs. 30 are necessarily required for attending to the work done by the surveyors of that party. I request therefore that the above alterations may, be made, if not too late, in the final issue of the budget, or, if too late, that separate orders may be issued. The surveyors and lascars now existing for investigation works have been included in the above under temporary establishment agreeably to the instructions contained in G.O. No. 483 W. of the 24th February 1893, based on paragraph 52, chapter II, and paragraphs 15 and 16 of chapter IX of India Code.

2. The establishment referred to above were employed last year and have been kept on as it was thought that provision for them was omitted by mistake in the preliminary issue of the budget.

3. A proposition statement is herewith sent.

No. 22 E.W.

Forwarded to the Acting Chief Engineer, Public Works Department, General, Buildings and Roads Branch, with a request that sanction may be accorded to the establishment marginally noted required during the current year for investigating upland projects in the Kistna district.

	RS.
One draftsman on	50
,, do. on	30
Two surveyors each on	80
Twelve lascars ,, on	6

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

Ootacamund,
25th May 1893.

To the Chief Engineer, Public Works Department,
General, Buildings and Roads Branch.

From A. A. G. MALET, Esq., Executive Engineer, Kistna Western Division, to the Superintending Engineer, II Circle, dated 5th August 1893, No. 250 S.

In reply to your No. 789 K.S., dated 20th June 1893, I have the honour to forward a report submitted by the Guntur Sub-division officer on the various proposed irrigation schemes in the upland taluks with my marginal notes. This report shows, I think, with sufficient clearness—

(1) the schemes already put in hand or worked out;
(2) those now being worked out;
(3) those which it is proposed to take up shortly;
(4) those which are likely to be worth investigation in the future.

No. 1226 K.S.

Forwarded to the Chief Engineer for Irrigation, with reference to his memo. No. 11/89 K.S. of the 10th June 1893.

19th August 1893.

(Signed) J. W. MARTIN,
Superintending Engineer, II Circle.

No. 48 W.

Forwarded to the Joint Secretary to Government, Public Works Department, General, Buildings and Roads Branch, with reference to his office-note No. 360 D., dated 9th June 1893.

2. The investigations may proceed on the lines proposed by the executive engineer. The funds asked for by him for investigating the site for foundation of the Mellavagu dam should be placed at his disposal.

Madras,
30th August 1893.

(Signed) F. W. ASHPITEL,
for Chief Engineer for Irrigation.

From J. W. MARTIN, Esq., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, Tank Restoration Scheme, dated 30th August 1893, No. 1324 K.S.

In continuation of this office No. 1226 K.S., dated 19th instant, I have the honour to request you will be good enough to obtain early sanction of Government to the establishment asked for in my No. 388 K.S., dated 13th May 1893, for investigation of tanks in upland taluks, as the Examiner has been passing provisionally the pay of the draftsman on Rs. 30 included therein. Three disallowance lists remain unanswered pending orders as to continuing the services or otherwise of the draftsman.

No. 49 W.

Forwarded to the Joint Secretary to Government, Public Works Department, General, Roads and Buildings Branch, in continuation of this office No. 48 W., dated 30th August 1893.

Madras,
8th September 1893.

(Signed) F. W. ASHPITEL,
for Chief Engineer for Irrigation.

Order—dated 22nd September 1893, No. 2438 W., Public Works.

His Excellency the Governor in Council observes that the investigation of irrigation schemes in the upland taluks of the Kistna district has been going on for over three years at considerable cost for establishment, while the results are so meagre and

unpromising that the continuance of the operations is of doubtful utility. The investigations will accordingly be closed and the temporary establishment dispensed with as soon as possible, the usual notice to the men being at once given.

2. The Examiner will admit pay to the establishment until the termination of their engagement under the present orders.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintending Engineer, II Circle.
,, the Examiner, Public Works Accounts.
,, the Chief Engineer for Irrigation.
,, the Revenue Department.

Exd. S. J. Pereira.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of {1893} Madras
PUBLIC WORKS.

Dated September, 22nd.

Recd.

Encl.

G.O., 22nd Sept. 1893, No. 2438 W.

SEPTEMBER.

Irrigation Schemes in the upland Taluks of Kistna District

Closure of the investigation of the— ordered.

Superintending Engineer's Office,

No. 388 Ks

3438/3

II CIRCLE, Bezwada
Dated 13th May 1893.

From,

A. A. G. Malet Esquire,
Offg: Superintending Engineer,
II Circle.

To,

The Chief Engineer,
For Irrigation,
Tank Restoration Scheme.

Encls
1 statement

Sir,

I have the honor to bring to your notice certain omissions from Part IV of the preliminary issue of the Provincial Minor Works and Navigation, Budget for 1893-94 and suggest the following alterations to remedy them

Page 8.
Special Establishment required for investigating upland projects in Kistna District.

For	Read
1 Clerk on Rs 20	1 Draftsman on Rs 50
1 Draftsman on Rs 50	1 — do — 30
	2 Surveyors on Rs 80
	12 Lascars on Rs 6.

The services of the Clerk were dispensed with

with — Vide G. O. No. 2448 W of 1-9-1892 and although one Subparty I. R. S. has been done away with owing to the services of M.R.Ry Swaminatha Pillay having been dispensed with, the Executive Engineer considers that the services of the Draftsman on Rs 30 are necessarily required for attending to the work done by the Surveyors of that party. I request, therefore, that the above alterations may be made if not too late in the final issue of the Budget, or, if too late, that separate orders may be issued. The Surveyors and Lascars now existing for investigation works have been included in the above under Temporary Establishment, agreeably to the instructions contained in G. O. No. 483 W of the 24-2-1893 based on para 52, Chapter II & paras 15 & 16 of Chapter IV, of India Codes.

2. The Establishment referred to above were employed last year and have been kept on as it was thought that provision for them was omitted by mistake in the preliminary issue of the Budget.

3. A proposition statement is herewith sent.

I

I have the honor to be

Sir

3438/14

Your Most Obt. Servant

10.5

for Offg. Supg. Engineer
II Circle

From

The Supg Engineer
2nd Circle

To

The Chief Engineer
for Irrigation
P.R.S
Madras

Office of Chief Engineer
R10985
16 MAY 93
For Irrigation

From,
The Superintending Engineer,
II Circle.

To,
The

Dated 13th May 1893 }18
Received

No. 388 KS

Enclosures. Encls. one

NO. PW G.I.
586/93

SUBJECT

Provincial Minor works and Navigation Budget for 1893-94 — Points out certain omissions from the Preliminary issue of the — and suggests certain alteration

---

3438/5

Letter from the Supg. Engineer 2nd Circle No 388. K.S. d/13 May 93.

No 22 Ew.

1 Draughtsman on Rs 50
1 do " 30
2 Surveyors " 80 each
12 Lascars " 6 each

Forwarded to the Ag. Chief Engineer. P.W.D. General, Buildings and Roads Branch, with a request that sanction may be accorded to the Establishment (marginally noted) required during the current year for investigating upland projects in the Kistna District.

Ootacamund }
25 May 1893 }

Rundall Brickman
Lt Col. R.E.
Chief Engineer for Irrign.

To

The Chief Engineer P.W.D.
General Buildings & Roads Branch

4.

3438/6

E. I. Form No. 10—1,000—22-1-93

P. W. CURRENT No. 4986

1893.

no. 662 d of 2.8.92
" 2445 d of 1.9.92
" 483 W of 24.2.93

From
Lt Col R R L Drake Brockman.
~~Lieut.-Col.~~ R. E.,
Chief Engineer for Irrigation,

To

The Chief Engineer PWD

No. 22 EW.
Dated 25 May 1893
Despatched
Received 30.5.93

Enclosures. 2

Subject.

Establishment required during the current year for investigating upland projects in the Kistna District. Forwards letter from the Supg Engr II Circle with a request that sanction may be accorded to the —

sheet no 63
0 5.6.93

3438/7

From A. G. Malet Esquire Executive Engineer, Kistna Western Division, to the Superintending Engineer II Circle, dated 6th August 1893, No. 2505.

50

In reply to your No. 789 K.S. d/ 20.6.1893 I have the honor to forward a report submitted by the Guntur Sub Division Officer on the various proposed irrigation schemes in the upland talugs with my marginal notes. This report shows I think, with sufficient clearness

(1) the schemes already put in hand or worked out;

(2) those now being worked out;

(3) those which it is proposed to take up shortly;

(4) those which are likely to be worth investigation in the future.

60

No. 1226 K / 19-8-93 Forwarded to the Chief Engineer for Irrigation with reference to his Memo No. II / 89 K.I. of the 10th June 1893

Similar Report

14/8/93

L W Martin
Supdg Engr II C.

From

21 AUG 93
No. 196 K.S.

The Supdg. Engineer
2nd Circle

To

The Chief Engineer,
for Irrigation,
Madras

Dated 19th August/93

No. 1226 K.S.

Irrigation Schemes in Upland Taluqs – Submits a report on the.

No. 48 W.

Forwarded to the Joint Secy to Govt., P.W.D., General, Buildings and Roads Branch, with reference to his office note No. 360 D. dated 9 June 1893.

2. The investigations may proceed on the lines propo by the Executive Engineer. The funds asked for by him for investigating the site for foundation of the Mellevar dam should be placed a his disposal.

F W Kirkpatrick
for Chief Engr. for Irrg. 30/8

Madras,
30 Aug. 1893

B.P.

1871
21.8.93

34 38/8

E. I. Form No. 10—1,000—22-4-93

P. W.

No. 7518

1893.

No 2633 d 30.6.90
" 942 W d 22.3.92
" 3600 d 9.6.90
" 2448 W d 1-9-92

From

Lt. Col. R.R.E. Drake Brockman R.E.
Lieut.-Col., R. E.,
Chief Engineer for Irrigation,

To

The Joint Secretary to Government P.W.D. General Buildings and Roads Branch

No. 48 W. Recd 1. 9. 93

Dated 30th August 1893.

Despatched

Received

Enclosures. 6

Subject.

Irrigation Schemes in Uplands Talugs—Kistna District
Forwards a report on the — and states that the investigations of — may proceed on the lines proposed by the Executive Engineer and the funds asked for may be placed at his disposal.

ots 259
Recd 4/9/93

E.K.W 1/9/93

R 2279
ots 259.

Superintending Engineer's Office,

No. 1324 KS

II Circle,

3438/9

Dated 30-8-1893.

From,

J. W. Martin Esquire,
Superintending Engineer,
II Circle.

To,

The Chief Engineer
for Irrigation
T. R. Scheme
Madras.

Sir,

In continuation of this office No. 1226 K.S. d/ 19th Instant, I have the honor to request you will be good enough to obtain early sanction of Government to the Establishment asked for in my No. 388 K.S. d/ 13th May 1893 for investigation of Tanks in upland talugs, as the Examiner has been passing provisionally the pay of the Draftsman on Rs 30 included therein. Three disallowance lists

3438/10

lists remain unanswered pending orders as to continuing the services or otherwise of the Draftsman.

I have the honor to be,
Sir,
Your most Obt. Servant,

W. Martin
Superintending Engineer
4th Circle.

295

3438/11

From

The Supdt Engineer
2d Circle

R 1094 K

To the Chief Engineer
For Irrigation
I.R.S

Dated 30-8-93

No 1324 K.

Establishment for investigation of upland tanks – Requests early sanction to the –

1-9-93

From,

The Superintending Engineer,
II Circle.

To,

The

Dated }
Received } 18

Enclosures.

NO.

SUBJECT.

W. 49 W Dy 8. 9. 93

Forwarded to the Joint Secretary to Govt., P.W. Dept., General, Roads and Buildings Branch, in continuation of this Office No. 48-W dated 30 Augt 1893.

W. Whitchfield 9/9
for Chief Engr. for Irrg.

Madras
8 Sep 93.

E. I. Form No. 10—1,000—22-4-93.

P. W. CURRENT No. 7832

1893.

From

Lieut: Col: R. R. C. Drake Brockman R. E. ~~Lieut.-Col. R. E.,~~
Chief Engineer for Irrigation,

To

The Joint Secretary to Government
P. W. D. General Roads and
Buildings Branch

No. 49. W.
Dated 8th September 1893.
Despatched
Received 13. 9. 93

Enclosures.

Subject.

Establishment for in-
-vestigation of Upland Talugs.
Kistna – Forwards in Conti-
nuation of this Office No: 48. W.
f 1893 letters from the Super-
ntending Engineer, Second Circle,
equesting early sanction to the

OH 286

CAW
13 9 93

Palmer 15-9-93

Reference to P. W. D. Code.

Chapter I, para. 30.

1. All proposals for changes in the scales of permanent establishments must be accompanied by a statement in Part I of this form when the changes relate to the engineer or upper subordinate establishments and in other cases by a statement in Part II of this form.

2. The column headed "present scale" should invariably show the existing *sanctioned* scale (not the strength of the establishment as it actually stands at the time), and should be verified by the Examiner before the statements are forwarded to the sanctioning authority.

P. W. D. Form No. II

Madras PROVINCE.

Part

Tabular Statement to accompa
proposals for changes in establishment

3438/R

B. Bhs. C P G I S F—No. 834 P. W.—8 2—39—2,000.

P. W. D. Form No. 113.   Madras PROVINCE.   Dont print   P. W. D. Form No. 113.

Part II.   3438/13 Part II.

Statement of proposition for revision of establishment.

Order sanctioning present establishment. Govt. of P. W. D. No.	Date.	Office to which the proposition refers.	Present scale. No.	Designation.	Pay. Minimum.	Increment.	Maximum.	Average or fixed.*	Total cost.
					Rs.	Rs.	Rs.	Rs.	Rs.
3250 W	28-11-92	Special Establishment required for investigating Upland Projects in Kistna Dist.	1	Clerk	.	-	-	20	
			1	Draftsman	.	.	.	50	
			1	— do —	.	.	.	30	
									100
				Total ...	...	...	...	...	

* In the case of appointments on progressive pay, the "average" should be calculated according to the rules in the Pay and Acting allowance code.

Certified that the entries under the head "Present scale" have been duly verified by me.

Dated the ______ 18

Examiner, P. W. Accounts,
______ Province.

Nature of changes. Proposed scale. No.	Designation.	Minimum.	Increment.	Maximum.	Average or fixed.*	Total cost.	Proposition. Permanent. Increase per month. Amount.	Decrease per month. Amount.	Temporary. Increase per month. Period.	Amount.	Decrease per month. Period.	Amount.	Remarks.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Mon.	Rs.	Mon.	Rs.	
1	Draftsman	-	.	.	50						12	20	Not required during the yr: the post is now vacant
1	— do —	.	.	.	30								
× 2	Surveyors on Rs 80	.	.	.	160				12	160			
12	Lascars on Rs 6	.	.	.	72				12	72			
						312				232			
	Net increase per month									12			
	Total ...	...	...	...	...				...		...		

× Charged in the previous year by Works

Dated the 13th May 1893.

Offg. Supg. Engineer,
II Circle.

MAY 93

7

588/S

W

3438/19

The exact cost of the establishment for investigating the upland projects in the Kistna district during the three years ending 30th June 93 is not known in the office here. The file here shows that about Rs 11224 was spent. Will you please say whether the papers may be sent to Madras for the information required.

Rur
16/9/93.

The papers you have will do

JM

3438/15

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June 93
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PUBLIC WORKS DEPARTMENT.

ADRAS GOVERNMENT.

3438/16

READ the following

rrign. No: 22 EWd/25.5.93

The establishment
~~osed by the Chief~~
~~eer for Irrigation~~
~~the investigation~~
~~the upland projects~~
~~the Kistna District~~
~~ring the Current~~
~~ncial year, is~~
~~nctioned.~~
~~This sanction has~~
~~registered as~~
~~ovincial No. W~~
1893-94 and Classi
ed as Establishment,
emporary.

JM
7.9.93

Note for H.M.

3438/15

These investigations have now been going for over three years. The cost of the Est. ~~for investigations~~ for the three year ending 30th June 93 comes to Rs

The net result has been that one Est. for restoring the [illegible] tanks amounting to Rs has been sanctioned. The amount of Est. is Rs & it is anticipated that some acres will be brought under wet cultivation ~~[illegible] I consider this Est.~~ Estimates have been submitted for the restoration ~~or enlargement~~ of three other tanks. But it is not known whether they will be sanctioned or not. So far as my personal knowledge goes I doubt if the works will be remunerative.

Two other tanks projects are [illegible] been investigated and with

---

PUBLIC WORKS DEPARTMENT.

DRAS GOVERNMENT.

3438/16

READ the following

rign. No: 22 EWd 25.5.93

he establishment
osed by the Chief
eer for Irrigation
the investigation
the upland projects
the Kistna District
ring the Current
cial year, is
ctioned.

This sanction has
registered as
vincial No. W
1893-94 and Classi-
ed as Establishment,
mporary.

7.6.93

what results is not
known.

The results of the investign so far as information has been afforded have been very unsatisfactory & I would recommend that they be now brought to a close. The Estabt which is still at work should I think be only sanctioned up to end of Septr.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

3438/16

READ the following

n the Chief Engr. for Irrign. No: 22 EWd/25.5.93

~~The establishment proposed by the Chief Engineer for Irrigation for the investigation of the upland projects in the Kistna District during the current official year, is sanctioned.~~

~~2. This sanction has been registered as Provincial No. W of 1893-94 and classified as Establishment, Temporary.~~

To
The Chief Engr. for Irrign.
" S.E. II Circle
" Exer. P.W. accts.

7.6.93

Cr

(40—2,000—13-5-93.)

Irrig

Am

Temporary establishment for the investigation of the upland projects in the Kistna Dt.

Before sanctioning the 21st now asked for a report sh^d be called for showing the results of the investigation up to end of March last with a statement of the works it is proposed to take up this off^l year.

These investigations have now extended over three years & there should be something of the results to show.

W.
7.6

F/w

No 369 D/- 9-6-93

Government of Madras. 3438/17

PUBLIC WORKS DEPARTMENT.

OFFICE NOTE.

From W.

To E.S.

Your No 22 E.W. d/25 May 1893.

Before submitting these proposals to Govt. it seems desirable that a report should be furnished showing the results of the investigations up to the end of March last, with a statement of the work it is proposed to take up this official year.

wer

year. These investigations have now extended over three years and there should be some tangible results to show. If there is no information in your office, will you please call on the Supdg. Engineer for a report

(Sd) J. H.

No 360 D/ 9-6-93

1st Reminder issued on 21-8-93

Dst 1/9/6

No 493

7th AUG 93

Guntur Sub Divn
Camp. Vinukonda
Dt 12th July 1893.

3438/16

From
The Officer in charge
of Guntur Sub Divn

To
The Executive Engineer,
Kistna Western Divn

Reference Divn No 1969 Dt 25/6 93

Sir,

I have the honor to submit my report on the Investigation of Upland Project, Kistna Dist to end of June 1893 as follows:—

As per G.O. No 363 I dated 30 June 1890, the following projects were ordered to be investigated

1. Dondapad tank
2. Ipur tank
3. Mettavagu
4. Atmakur tank
5. Macherla tank
6. Gurazala and Jangamaheswarapuram tanks
7. Yerravagu

For Gollakonda & Kanaki villages in S.E of Palnad }

2. Of these the necessary investigation was done for all the projects except the last, plans & Estimates

were

were prepared and submitted for approval for items Nos 1, 2, 5, 6 and sanction ~~for~~ obtained and the work started for item No 1.

These estimates have been submitted to SE.

3. Regarding Mekavagu Project the following works have been done

(1) The capacity of the tank at different levels has been calculated by means of sections up and across the valley and submitted already to the Divisional office

(2) A survey of the proposed dam site with the sections have been taken. + trial pits at every 50 feet to Rock level.

(3) A falling contour along the line of the proposed Distributary taken and marked on the village map

(4) Trial pits excavated along the proposed curved line of dam in front of the rocky spurs.

These pits are of no use as they were not taken down to rock.

(5). Blasting of the spur on the west side to see the nature of the sub strata

4. The trial pits in the bed of the vagu in curved line were excavated in June last from 3'-6" to 6'-6" only in depth on account of water and small stones met with. No hard rock

8438/19

× I have seen near Jayantipuram in Nandigama Taluq a large bund thrown up enclosing a valley between two hills at a great cost & no water can be stored as there are underground fissures in the rock itself which cannot be seen.

was met. The soil in the portion excavated is a mixture of loose stones and rubbish. The rocky spurs on each side where it is proposed to construct the dam are full of fissures and the lines run in all directions and from the blasting done I am led to infer that these lines run up to, if not below, the bed of the vagu. It will therefore be unsafe to × build a straight wall. If at all one is built it must be along the curved line marked in the survey. (vide my No 483 ST dated 24-9-92 to SE).

Lime kunkur is available along the road to Karampudi within a mile & a half of the work spot and sand can be obtained from the bed of the vagu above the site of dam within a mile or two and clay for surkhi from the left margin of the vagu & from the old bund about a mile off. The necessary building stone also can be obtained from a small hill to the east of and within a mile of the site. So there will be no difficulty in collecting the necessary materials required and if proper appliances were used for baling out the water the foundations can be run to the required depth and the work done. Even if necessary cement concrete may be used for the foundation up to the bed level of the vagu.

5. Although the catchment area of this vagu at site of proposed dam is nearly 100 sq miles still the utmost we can expect to be irrigated under it is 100 × 20 or 2000 acres and not 3000 acres as is supposed. For the actual duty per sq mile of catchment basin of the tanks in the neighbourhood is only 20 acres. The dam need only therefore be raised to the level required to store water sufficient for 2000 acres. The capacity of the ~~str~~ reservoir need not be more than 256 millions of cft as it will be sufficient for the full 2,000 acres at 216,000 cft per acre in 1 2/3 fillings. This arrangement will greatly reduce the cost of the project and make it

3 3438/8D

more reliable. It will be a waste of money if the bund be raised to hold water for 3000 acres with very little chance of its ever filling in except once in four or five years of unusual rainfall. If, however, after the construction of the dam experience shows that the reservoir can be trusted to irrigate more lands than the height of the dam may be raised as much as is necessary. If the project as worked out for 2,000 acres only cannot pay a reasonable rate of interest on the outlay, it is less likely it will if the ayacut be raised to 3000 acres. For ~~both~~ with the increased area ~~and~~ the water ~~spb~~ spread of the reservoir is largely increased; more lands will have to be brought up or compensated for, including probably village sites, a more costly bund will have to be thrown and the remission will probably have to be granted during several years.

6. Supposing the reservoir

It will be difficult to get sand but the Quartzite rock at site if crushed will make good sand.

No comparison can be made with the existing tanks which are small ones.

In Mr Arundel's letter printed with G.O. No 363 I Irr. 30.6.90 it is stated that the stream never runs dry but it did run dry in 1891 tho' it probably does not do so in most years.

A large tank in this stream would probably have a greater duty per sq mile of catchment than a small one as the stream comes down in considerable floods which a large tank would store.

Reducing the ayacut to 2000 acres would not reduce the cost in comparison as it would be necessary to build the bund

sufficiently thick to allow of its being raised afterwards if found necessary & the chief cost would be the foundations which in this case would be the same for 2000 or 3000 acres of ayacut.

The cost of raising the bund another 10 ft or so would be small in comparison with the lower work.

I am of opinion that the duty will not exceed 20 acres per sq mile – Mr Arundel's statement is of no value as all such reports are not reliable unless supported by gauge readings of some kind.

J.W.h.

There are no cultivated lands or villages in the proposed waterspread. It is all jungle & is I have been told Forest Reserve.

to irrigate only 2000 acres the net revenue will be (2000 x 4 − 1000) or 7000 Rs only, deducting working expenses at 0-8-0 per acre. The capital outlay justifiable will be therefore $\frac{7000 \times 100}{6}$ or Rs 1,20,000 to yield 6 percent or say one lakh excluding Establishment Charges &c.

7. I doubt very much whether the project can be worked out for Rs 1,00,000 for the following reasons.

(1) The site of dam is at a place far removed from Railways or canals

(2) No labor available & imported labor will be very dear.

(3) No village near and special arrangement will have to be made for hutting the Coolies &c

Karempudi the nearest village is 2 miles to the north of site of dam.

(4) The Distributary Chl. which is to pass along the contour for at least 5 miles to command all the 2000 acres will be costly both in excavation and in upkeep on account of several cross streams or vagus unless proper masonry tunnels

3458/21

The cost of diverting the road will I am afraid wreck the project if nothing else does. I consider that no definite opinion can be formed regarding the advisability of carrying out this project until the foundations have been thoroughly examined as proposed in my no 483 S dt. 19.9.92. In my opinion either this should be done & funds (Rs 3000 ~~provided~~ Rs 1000 this & 2000 next year) provided so that necessary arrangements can be made in time or the Project should be abandoned. We know that the bed rock is porous & unless the foundations are carefully examined the project would be a most risky one to undertake.

or Superpassages are provided for them which may be very costly.

(5) The Karampudi road will have to be diverted, & this can be done only at a very great cost unless the road can be conveniently given up, for there is no other line possible except round the hills from Bommarazpalli.

8. I request therefore that you will be good enough to send me orders as to what should be done further in connection with this project & if the estimate is to be prepared for 2 or 3 thousand acres ayacut I request that the "statement of capacities of the tank at different levels" may be returned from your Office.

9. **Atmakur Project.**

This project has been fully worked out and rough estimates prepared at a total cost of Rs 46,000. The proposed ayacut under the tank is only 1000 acres only as with a head of 17 ft of water on the sluice sill the capacity of the tank comes to only 155 millions cft or sufficient in one filling for an ayacut of 720 acres

Mr Murray proposed to have an ayacut of 1500 acres & thought that there will be sufficient storage. To increase the F. T. L will be to strengthen the bund at a great cost. Further there is only a narrow strip of land on either side of the vagu fit for cultivation that could be commanded by the tank, that with the distributaries on each side, each 3 miles long, the land available for cultivation is barely 1000 acres.

I shall send the plans & estimates for this Project as early as possible.

10. Yerra vagu. The Collector proposes to form a tank at Guttikonda and another lower down at Konanki. Instead of these two a new Project called "Janapad Project"x has been taken up to bund up the Yerra vagu between Guttikonda and Konanki to irrigate 400 acres. It is not advisable therefore to take up the other two tanks as proposed by the Collector. Necessary estimates

x This project has almost been worked out. & will be submitted shortly.

5

3438/22

for the repairs of the tanks of Guttikonda & Konanki have already been prepared under I. R. S. and received sanctioned for execution.

11. In G. O. No 942 W. Dt 22nd March 1892 six more projects were ordered to be taken up for investigation viz:—

(1) Restoration of two ruined tanks in Pedagangalagunta 3 miles South west of Srigiripad

(2) A dam across the Chandravagu in a gorge to the west of Srigiripad to irrigate lands in Gottipalla

(3) A dam to store the water of the Vedamangalam Vagu in Veldarti

The Vedamangalam vagu which passes thro' Veldurti from Macherla for which a scheme has already been submitted and to Manchikollu

(4) A Dam to Store the Vedamangalam Vagu at Manchikollu.

(5) Restoration of a ruined tank at Gangaram a mile below Genezala in the Dandivagu

(6) ~~(5)~~ Restoration of a ruined tank on the main branch of the same Stream higher up at Isarlagudipad

12. Of these the first two have not yet been inspected. No 3 is not worth taking up as another Project is proposed to be taken up

See remark above
No. 3 lies above the proposed
Macherla Tank.

in the same vagu lower down at Manchikollu. This latter will be taken up as soon as the Janapad project, which is nearly investigated, is finished. The lands proposed to be irrigated in 5 are already included in Jangamaheswarapuram & Gurazala tank Projects and No 6 is not worth taking up as it is higher up the same vagu & will interfere seriously with the capacity of the proposed Jangamaheswarapuram tank. So items Nos 1, 3 & 4 only remain to be investigated & these will be taken up as soon as possible.

13. Other Projects not proposed by the Collector, Mr Arundel, and taken up for investigation are

1. Agnigundala tank
2. Muppalla tank
3. Boggaram tank

All in Vinukonda Taluk and one Konidina tank in Narasaraopett Taluk. Of these plans & Estimates

for Agnigundala tank restoration were already submitted for sanction. Other tanks will be investigated hereafter.

3436

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I have &c

S. Subramaniyaiyar

Assistant Engin

12/7/93

From what I know of the locality I am inclined to doubt the

I have submitted a report on Kondemu Tank to the Collector thro the Supg Eng vide my ltr No 663 27-7-93

Plans & Estimate of Agnigundala tank were returned to SDO for revision

Some new schemes suggested by Mr Arundel are (Vinukonda) Restoration of ruined tanks at

1. Gandiganamala - extreme NW
2. Peddakandukuru - E
3. Tirupurmapuram - S
4. Muppala — NE.
5. A [illegible] an anicut on the Gundlakamma river at Audugulapad.

RC 12-7-93

I have inspected items 2, 3 & 4
I was not favourably impressed
with 2 & 3 the latter is a
small affair & with regard to 4 it was decided after some
correspondence with the Collr that a scheme for restoring the
Tank should be prepared & submitted - It is however a
very small affair.

Item 5 has not been inspected & perhaps it would not be
advisable to do anything in connection with it until the
scheme recently submitted by the Ex Eng [illegible] Dn has been
disposed of as it affects the same river.

Other probable schemes are sluice works in the large
streams which cross the Commamur Canal with a
view to their acting both as flood regulators & irrign
works & last tho' by no means least, the, at present,
very indefinite proposal to store Kistna water to
tide over the low supply in the river during September

Ex Engineer 28.7.93

14/8/93 P.T.O.

P.S.

An anicut on the Gundlakamma must be postponed as it is proposed to build, in the Nellore district, an anicut across the same river

E.W.M.

21 AUG 93

O.W. 5.1 / 75/8/93

Read the following :— 3438/214

From the Chief Engineer for Irrigation No. 2250 dd 25 May 1893.

" Do do. No. 48 W d 30 May 93.

FOR ORDERS.

The investigations have now been going on for over three years. The cost of the Establishment for the three years ending 30th June 93 comes to Rs: 11224.

The net result has been that one estimate for restoring the Dondapad tank amounting to Rs 1,41,000 has been sanctioned. ~~The amount of Estimates is Rs and~~ It is anticipated that some 2,200 acres will be brought under wet cultivation, in from 5 to 10 years after the work is compd.

Estimates have been submitted

submitted for the restoration of three other tanks, but it is not known whether they will be sanctioned or not. So far as my personal knowledge goes I doubt if the works will be remunerative.

Two other tank projects are said to have been investigated but with what result is not known.

The result of the investigations so far as information has been afforded, has been very unsatisfactory and I would recommend that they be now brought to a close.

The Establishment which is still at work should I think be only sanctioned up to end of September.

16.9

W.

K. Ste.

Establishment for investigation the upland projects in the Kistna district.

14

24 38 W

Very well — I defer to your opinion, but I fear the unsatisfactory results are due to the investigations not having been properly pushed.

[illegible]
16 Sept

Genl
Estabt

PUBLIC WORKS DEPARTMENT.

No. 2438 W, a/ 22 September 1893.

2438
25

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the Supg. Engr. II Circle No. 388 K.S. a/ 13. 5. 93.
Endt. by the Chief Engr. for Irrign. No. 22 Ew a/ 25-5-93.

From the Supg. Engineer II Circle No. 1226 K.S. a/ 19. 8. 93.
Endt. by the Chief Engr. for Irrign. No. 48 W a/ 30. 8. 93.

From the Supg. Engineer II Circle No. 1324 K.S. a/ 30. 8. 93
Endt. by the Chief Engr. for Irrign. No. 49 W a/ 8. 9. 93.

12 Ps.

His Excellency the Governor in Council observes that the investigations of irrigation schemes in the upland taluks of the Kistna District has been going on for over three years at considerable

2438/26

while the results are so meagre and un=promising that the continuance of the operations is of doubtful utility. The investigations will accordingly be closed, and the temporary establishment dispensed with as soon as possible; the usual notice to the men being at once given.

2 The Examiner will admit pay to the Establishment until the termination of their engagement under the present orders

J.H.
2-9

DESPATCHED
4 OCT. 95

The Supdg. Engr. Pb. Circle
Exr. P. W. Accts
Chief Supdg. Engr. Irrign.
Rev. Dept.
(For favour of
consideration

C W^o^ 7832

Govt. of (1893) Madras.
PUBLIC WORKS.

Dated 25/9/93

Recd.

Encl.

G.O. 22d Sept 1893 No. 2438 W.

Irrigation scheme in the upland talugs of Kistna district

Closure of investigations of the the ordered.

7/6

J.C. 23.14

J 26/9