

- (1) Number of pages _____
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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. <i>162A</i>	Press
B.P. No. <i>321432103216</i>	Mis.
Dated <i>24.1.1874</i>	195 .

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th January 1874.*

Read the following papers:—

No. 321A. Endorsement of the Inspecting Engineer for Civil and Military Buildings, dated Chepauk, 27th December 1873, No. 1,718.

From Lieutenant-Colonel J. F. FISCHER, R.E., District Engineer, Godavery, to Colonel E. A. FOORD, R.E., Inspecting Engineer for Civil and Military Buildings, dated Dowlaishweram, 15th December 1873, No. 2,785.

I HAVE the honour to forward herewith copy of a letter received from the Superintendent of the Central Jail at Rajahmundry, from which you will observe the progress made on building the Superintendent's quarters up to 13th November 1873, and the amount that can be spent on it in the current official year, and I have to request you will be good enough to surrender Rupees 3,000 from the allotment of the above work, and apply to Government for providing this sum in the ensuing year's Budget.

2. As more than Rupees 3,000 are required to complete the Peddapur Cutcherry in this district, the estimate for which has been already exceeded, I request the money above alluded to may be transferred to this work.

3. Comparative statement showing the differences between the original and revised estimates for this work, received from, and returned to, the Range Officer for revision, will follow this letter as soon as they again come to hand.

FORWARDED to the Chief Engineer, Department Public Works. The revised estimate will be forwarded as soon as it is received in this office.

(Signed) E. A. FOORD, Colonel, R.E.,
Inspecting Engineer for Civil and Military Buildings.

No. 321B. From Lieutenant-Colonel J. F. FISCHER, R.E., District Engineer, Godavery, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Dowlaishweram, 8th January 1874, No. 2,947:—

WITH reference to G. O., No. 3,034, dated 16th December 1873, I have the honour to forward herewith a revised estimate, amounting to Rupees 27,004, for completing the Taluq Cutcherry at

1 Comparative Statement.
1 Revised Estimate.

Peddapur, and a comparative statement showing the amount of the original and revised estimates, in which the excess and saving on different items are shown in detail, and to request you will be good enough to obtain the sanction of the Government for the excess, viz., Rupees 4,444, and an allotment of funds is proposed herein by transfers.

2. As regards the cause of excess over the sanctioned estimate, I have to observe that (1) the rates allowed were insufficient for the locality; (2) the quantities taken out for the standard estimate were wrong; and (3) additional work was required, and to add the following explanation:—

First, as regards the rates; the rates allowed for the brick-work, viz., Rupees 4-8-0, was quite insufficient, as owing to the slenderness of the walls the work had to be executed very carefully, all the bricks having to be rubbed to bring them to a proper shape; again, no additional rate was allowed for the archwork, which was

*Proceedings of the Madras Government. Public Works Department,
24th January 1874.*

very difficult owing to its ornamental character, a bricklayer taking a day to turn one door arch; materials did not cost more than usual, the excess occurs under the head labour, and this excess, as already stated, was due to the unusual care with which walls only 15 inches thick and 15 feet high to carry a heavy roof had to be constructed. The rate allowed per stone curbing, viz., Rupees 10, was also insufficient, as no suitable stone could be procured; all the verandahs and passages have been floored with stone, but in the revised estimate asphalt has been allowed for all the rooms, being cheaper and probably better. The excess due to insufficient rates is Rupees 1,700, or only 7 per cent. on the original estimate for the Cutcherry.

As regards the second cause of excess: quantities not having been taken out correctly, neither the brick-work nor the wood required for the roof have been taken out correctly; in the standard estimate the wall plates, hip rafters, etc., were omitted. The excess on the item wood alone is 1,850; no provision was made in the original estimate for scaffolding.

As regards the third cause: the additional work required is making up iron rails, putting up a wire fence round Cutcherry compound, levelling and improving the compound, putting sheet-lead in all the gutters or roof valleys, whitewashing the Cutcherry inside, strengthening the iron barred doors, which were made up in accordance with standard plans, but found too weak, etc.

The large saving on well has been effected in the excavation; stiff soil having been met with, the well was dug down with a slope of a few inches in the foot instead of slopes of 1 to 1 as provided for in the estimate.

I beg to add that the reason why a revised estimate for this building had not been sent in before was that the Range Officer expected the excess would not be more than 5 per cent. on the estimate, taking the saving on the well into account. It was only a few weeks ago that he discovered this large excess on the teak-wood, and the necessity for the submission of a revised estimate became more apparent; but the Range Officer should have observed this earlier I think.

Both the Cutcheries will be finished in this official year. I have transferred Rupees 3,000 from the Jail Superintendent's quarters to meet the excess in the Poddapur Cutcherry, and I expect to provide the balance from the Prattipad Cutcherry estimate, the subsidiary buildings for this work not having been sanctioned. No transfer can be made from the Rajahmundry Cutcherry as we have now to pay for the additional verandah to this building.

No. 321c.

ORDER THEREON, 24th January 1874, No. 162A.

CIVIL WORKS, No. 22.

As stated by the District Engineer the Range Officer should have sent in a revised estimate for the Poddapur

Cutcherry long ago. Large allotments have been made for the work, and it has been the subject of several orders in 1872-73 and 1873-74; the last of which, No. 3,034 of 16th December, seems to have elicited the final revision that ought to have been made and reported very much earlier.

2. The details of the total excess of Rupees 4,444 on the original estimate of Rupees 22,560, sanctioned in June 1869, are explained to consist of about Rupees 1,700 on account of ordinary rates failing to suffice for the unusual care and labour that were involved by the decrease in thickness of walls and ornamen-

*Proceedings of the Madras Government, Public Works Department,
24th January 1874.*

tal work introduced in the new standard plans of Cutcheries; the rest being due to wrong calculations in what is called the standard estimates. If these be estimates of quantities originally supplied to all districts, the attention of the Inspecting Engineer for Buildings and District Engineers is called to the necessity of revising all the old sanctions of 1869, which will be considered as cancelled. In lieu of them District Engineers will submit at an early date such revised estimates as may be necessary.

3. The excess of Rupees 4,444 now sanctioned would have been greatly enhanced but for a saving of Rupees 2,370 on an unreasonably extravagant and ill-devised estimate of Rupees 3,910 for sinking a well, for preparation of which *Mr. Nannan* as Range Officer, and Lieutenant-Colonel Fischer as Superintending Engineer, appear to have been answerable. The attention of the Inspecting Engineer for Buildings is drawn to the rude and unscientific character of the design originally submitted, and he is requested to see that the art of well sinking on correct principles is introduced by District Engineers wherever the rude practice alluded to in Lieutenant-Colonel Fischer's letter is still prevalent.

4. The proposals for transfer have been placed before Government without any information to guide them as to the propriety of sanctioning them. Lieutenant-Colonel Fischer will accordingly report the grounds on which half the allotment for the Jail Superintendent's quarters is to be cut off; they were reported as urgently wanted in 1871, yet the allotment of Rupees 6,000 made in 1872-73 was not availed of at all; and now only half the allotment of 1873-74 is stated as likely to be realized. As to the Prattipad Cutcherry for which an emergent grant of Rupees 4,000 was made in August 1872, of which only half was availed of and Rupees 4,000 again allotted in the current year, it is not understood how estimates of its subsidiary buildings have failed to be submitted in time to admit of completion of the work within the current official year. His Excellency the Governor in Council was compelled in G. O., No. 2,801, of 28th November 1872, to express his dissatisfaction with the arrangements for carrying on the work of Civil Buildings of the Godavery District, and he trusts that reiterated instances of the kind under notice may not recur.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, Godavery.
To all other District Engineers.
To the Inspecting Engineer for Buildings.
" Officiating Controller of Public Works Accounts.
To Lieutenant-Colonel R. B. Kennedy.

Exd. S. T. Austin.
Spare Copies

No. 2947

GODAVERY DISTRICT.

DISTRICT ENGINEER'S OFFICE

DOWLAISHWARUM, 8th January 1874

FROM

Lieutenant Col. J. F. Fischer R.E.

THE DISTRICT ENGINEER,

GODAVERY DISTRICT.

TO

Colonel G. H. Walker R.E.

Secretary to Government P.W.D.

Madras.

ENCL.

Sir,

With reference to G. O. No. 3034 dated 16th December 1873, I have the honor to forward herewith a revised Estimate amounting to Rs 27,000 for completing the Talug Catchery at Peddapore, and a comparative statement showing the amount of the Original and revised Estimates in which the excess and saving on different items are shown in detail, and to request you will be good enough to obtain the sanction of the Government for the excess viz Rs 4,444 and an allotment of funds is proposed herein by transfers. As regards the cause of excess over the sanctioned estimate, I have to observe that (1) the rates allowed were insufficient for the locality (2) the quantities taken out for the standard Estimate were wrong, and (3) additional work was required, and to add the following explanation.

First as regards the rates, the rates allowed for the British work viz Rs 4-8-0

was quite insufficient, as owing to the slenderness of the walls, the work had to be executed very carefully, all the bricks having to be rubbed to bring them to a proper shape, again no additional rate was allowed for the arch work which was very difficult owing to its ornamental character, a bricklayer taking a day to turn one door-arch, materials did not cost more than usual, the excess occurs under the head labor, and this excess as already stated was due to the unusual care with which walls only 15" thick and 15 feet high to carry a heavy roof, had to be constructed. The rate allowed for stone curbing Rs 10 was also insufficient as no suitable stone could be procured, all the Verandahs and passages have been floored with stone, but in the revised Estimate Asphalt has been allowed for all the rooms being cheaper and probably better. The excess due to insufficient rates is Rs 1700 or only 7 per cent on the original Estimate for the Cutchery.

As regards the 2^d cause of excess, quantities not having been taken out correctly, neither the brick work nor the wood required for the roof have been taken out correctly; in the standard estimate the wall plates, hip rafters &c were omitted. The excess on the iron wood alone is 1850 no provision

was made in the original Estimate for scaffolding.

As regards the 3^d cause, the additional work required is making up iron rails, putting up a wire fence round Cutchery Compound, leveling and improving the compound, putting sheet lead in all the gutters or roof valleys, white washing the Cutchery inside, strengthening the iron barred doors which were made up in accordance with standard plans, but found too weak &c.

The large saving on well has been effected in the excavation, stiff soil having been met with, the well was dug down with an slope of a few inches in the foot instead of slopes of 1 to 1 as provided for in the Estimate.

I beg to add that the reason why a revised estimate for this building had not been sent in before, was that the Range Officer expected the excess would not be more than 5 per cent on the Estimate taking the saving on the well into account. It was only a few weeks ago that he discovered the large excess on the teak wood, and the necessity for the submission of a revised Estimate became more apparent but the Range Officer should have observed this earlier I think.

Both the Cutcheries will be finished in this Official year. I have transferred Rs 3000 from the Jail Superintendents quarters

0.7019

Superintendent
Cutchery

to meet the excess in the Poddapore Cutchery
and I expect to provide the balance from
the Prattapad Cutchery. Estimate the sub-
sidiary buildings for this work not having
been sanctioned. No transfer can be made
from the Rajahmundry Cutchery as we
have now to pay for the additional
verandah to this Building.

I have the honor to be

Sir
Your Most Obedt Servt

W. T. Tucker Esq. 
District Engineer Godavery

Godavery District
District Engineer's Office,
Dowlaiswarum 15th Decr 1873.

From

The District Engineer

Godavery District

To

The Inspecting Engineer

for Military and Civil Buildings

Sir,

I have the honor to forward
herewith copy of a letter received from
the Superintendent of the Central Jail
at Rajahmundry from which you will
observe the progress made on building
the Superintendent's Quarters up to 13th
November 1873, and the amount that
can be spent on it in the current
official year and I have to request
you will be good enough to surrender
Rs 3000 from the allotment of the above
work and apply to Government for
providing this sum in the ensuing year's
Budget.

2. As more than Rs 3000 are required
to complete the Poddapore Cutchery in
this

to this District, the estimate for which has
an been already exceeded, I request the
the money above alluded to, may be trans-
ferred to this work.

3. Comparative statements showing
the differences between the original
and revised estimates for this work,
received from, and returned to, the
Range Officer for revision, will follow
this letter as soon as they again come
to hand.

I have
Signed J. S. Fischer Civil & M.
District Engineer & Surveyor

No 1718

Forwarded to the Chief Engineer
D. P. W. The revised Estimate will be
forwarded as soon as it is received,
in this Office.

Ch 173

Office of the Inspr Eng.
for Civil & Military Building
Chepauk 27 Decr 1873

E. A. Ford Civil & M.
Inspecting Engineer for
Civil & Military Building

Colonel G. W. Walker R.E.
Chief Engineer D. P. W.

the District, the estimate for which has

P. W. 1873 Dist.
From No 7019.
The Inspecting Engineer
for Buildings
To
The Chief Engineer
D. P. W.

Dated 27th Dec 1873.
Recd 30th
No 1718
No 162 of 24th Sep/74
Forwards copy of a
letter from the District
Godavery requesting that
Rs 3000 from the current
year's allotment for
quarters for the Supts
of the Central Jail at
Rajahmundry may be
surrendered & the same
provided in the ensuing
year's Budget.

Engineer D. P. W.

Revised Abstract Estimate
Proddapur Taluq
Godavery District

Work Constructing Jail Cutchery & Subsidiary jail
at Proddapur.

Quantity	Items	Rate	Per	Amount	Total
170 $\frac{11}{16}$ Cps	Concrete in Chunnam	2 4 6	Cps	496 83	✓
379 $\frac{1}{4}$ Do	Rough stone in Do	3 12 10	Do	441 68	
744 $\frac{4}{9}$ Do	Brick in Do	5 4 8	Do	4404 110	
36 $\frac{1}{2}$ Do	Do Do (arch work)	7 8	Do	273 12	
10 Sqrs	Terrace roofing	22	..	Sq 220	
118 $\frac{6}{100}$ Do	Tiled roofing with flat & pan tiles and	8	..	Do 944	
	Chunnam boarders				
34 $\frac{57}{100}$ Do	Flooring with stone	20	..	Do 690	
15 $\frac{24}{25}$ Do	Do with Sq tiles	10	..	Do 160	
50 $\frac{2}{25}$ Cps	Concrete for floor	3	..	Cp 150	
43 $\frac{27}{100}$ Sqrs	Asphalting the floor	18	..	Sq 774	
193 $\frac{14}{10}$ Do	Plastering	1 12	..	Do 338 10	
193 $\frac{17}{10}$ Do	Whitewashing with 2 coats Chunnam	6	..	Do 728	
116 $\frac{2}{5}$ Do	Pointing with Chunnam	1 8	..	Do 174	
1857 $\frac{12}{24}$ Cft	Teakwood wrought and put up	3	..	Cft 5573 6	
15 $\frac{17}{48}$ Do	Do Do	2 10	..	Do 40 113	
153 Rqft	Exterior Cornice with dentals	106	Rqft	10074	
52 Srs	Stones below posts	113	Sub	369	
1269 $\frac{1}{2}$ Suppl	Doors and windows including frames and painting	1 8	..	Suppl 19038	
273 Do	Butler doors with frames & - Do	2	..	Do 546	
40 Do	Venations without frames	1	..	Do 40	
3 Srs	Iron gratings with frames	22	..	Sub 66	
6 Do	Doors, windows, & Gratings without frames	22	..	Do 132	
10 Do	Doors and gratings without frames	7 8	..	Do 75	
16 Do	Round ornamental pieces under brackets	8	..	Do 8	
10 Do	Iron rods to brackets	1	..	Do 10	
988 Srs	Wrought iron for railings put up	26	..	1546	

C. Over 1882 144

Flower - 1924 144

481 H^o strengthening iron barred doors - 26 ft. 75 26
 2083 H^o Sheet lead - 32 ft. 410 26
 1 H^o Ornamental iron band - 6 ft. 6 26
 1356 H^o Wire fence - 200 26
 Scaffolding - 3 ft. 25 26
 200 26

Contingencies - 190 86 218 42

Fail Latrine
 19 22 27 C^o Concrete in Chumam - 3 54 C^o 67 1
 16 3 27 H^o Rough stone in - 2 10 6 1 44 8 4
 50 22 27 H^o Brick in - 4 11 20 24 3 01
 3 3 27 S^o Flooring with asphalt - 18 20 67 07
 1 5 H^o Honey Comb wire work - 1 4 20 5 17
 18 82 100 H^o Pointing in Chumam - 1 12 80 32 14 11
 2 2 24 100 H^o Plastering with 2 coats Chumam - 2 12 20 6 26
 2 5 100 H^o Sp. holding slabs - 18 20 3 6 14 5
 73 7 C^o Teakwood wrought & put up - 3 20 218 20
 8 25 100 S^o Roofing with flat & pan tiles & Chumam boards - 7 8 5 61 14 2
 Excavating foundations - 7 15 6
 7 93 15 11
 37 831

Contingencies - 819

Similar one for Public
 8 24 27 C^o Concrete in Chumam - 3 54 C^o 26 10 5
 9 5 27 H^o Brick in - 2 10 6 1 44 8 4
 28 H^o Concrete in - 3 54 C^o 26 10 5
 10 3 100 S^o Plastering 1 coat Chumam - 1 12 20 6 26
 15 5 5 C^o Teakwood wrought & put up - 3 20 218 20
 12 5 S^o Roofing with flat & pan tiles and Chumam boards - 7 8 5 61 14 2
 Excavating foundations - 7 15 6
 7 93 15 11
 37 831

Wall

Brought over 24299

1955 C^o Earth work - 54 C^o 651 08
 58 H^o Cut stone in Chumam - 11 1 20 638 64
 19 2 H^o Rough stone in - 3 8 68 4
 1 H^o Wall frame - 18 12 2 18 12
 1 H^o Wall frame - 52 8
 1 H^o Wall frame - 20
 14499

Contingencies - 190 7 1640

Hospital

8 12 27 C^o Concrete in Chumam - 3 54 C^o 25 54
 3 5 27 H^o Brick in - 3 15 11 15 15 11
 5 5 9 H^o - in pond - 2 12 9 15 2 12 8
 6 7 27 S^o Plastering 1 coat Chumam - 1 8 10 2 8
 8 4 27 C^o Concrete in Chumam flooring - 2 8 20 5 11
 2 12 100 S^o Sp. holding floor - 18 20 84 15 4
 5 3 9 H^o Pointing in Chumam - 1 8 20 8 4
 3 8 6 C^o Teakwood wrought & put up - 3 8 4 136 16
 8 3 6 100 S^o Roofing with flat & pan tiles & Chumam boards - 2 6 11 0 223 8 8
 Excavating foundations - 2 15 6
 680 76

Contingencies - 30 86 711

Kitchen

6 7 27 C^o Concrete in Chumam - 2 12 20 17 35
 28 13 27 H^o Brick in - 4 9 6 130 13 9
 8 8 8 S^o Plastering 2 coats Chumam - 2 12 20 24 68
 3 2 5 32 C^o Teakwood wrought & put up - 2 8 77 7
 2 7 2 100 S^o Roofing with 3 coats flat tiles & Chumam boards - 12 20 32 10 3
 Excavating foundations - 1 5 5
 283 41
 286 03
 2814 312

Contingencies - 2814 312

Compensation for land occupied by the building - 25 96 2
 12 2700

W. L. Treacher
 District Engineer Godanery

Assistant Engineer

1840 Nov 20

957

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310

Henry P. ...
the Officer in Charge
No. 1 Range Co. B

0.7.

Wm. Richard Rogers
Company

1873/74

Hand 1111

Prof. Wm. ...

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Estimated per Contract
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... all ...

24-1-74-

George ...

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Mr 1874 West
No 173
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The ...
to ...
March 8th ... 1874

to 2947
The ...
to ...
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to ...
to ...
to ...

No 162 A - 20 ...

3713
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Handwritten note on the left margin.

Comprehensive Statement Accompanying the Revised Estimates for Conducting the
Fifteenth Anniversary Year at Washington

John Hunt

Original Estimate Revised Estimate Excess Savings

Quantity
Rate
Amount
Quantity
Rate
Amount
Quantity
Rate
Amount
Quantity
Rate
Amount

Sample	Volume	Weight	Temperature	Specific Gravity	Refractive Index	Optical Rotation	Other Data
Sample 1	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 2	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 3	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 4	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 5	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 6	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 7	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 8	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 9	100 ml	100 g	20°C	1.000	1.333	0°	
Sample 10	100 ml	100 g	20°C	1.000	1.333	0°	

Red Hill

[illegible]

Working with plants: varieties of human bones
 & smalling of fossils—
 Working of fossils—

[illegible]

for Long Office
Lancaster Mass.
27th December 1892 }

Wm. L. Hatcher
Quincy, Ill. U. S.
District Engineer for Survey

Edwin
Quincy, Ill.
District Engineer

Which is over the original Classification

12560 " " 27004 " 9447115 " 5003115

8-0-01/16-11-11

3218
Cir 200 Aug 174 A. 232

From
 the Officer in Charge
 Nos. Range G. A.
 To the District Engineer
 Esplanade Brit.
 Dated 25th { November 1873
 Recd
 Mr 17.2.74
 Comparative Statement
 to accompany the Revised
 Estimate for Constructing
 Salub. Catchment at Peddappin.

No 162 of 1873. Co. 1873
 Pro. of the Madras Fort.
 From the Ins. Insp. for Buildings (Read the following: H.E. No. 1718 of 27 Decr/73
 From the S. Insp. 1 (H.E. No. 2947 of 8 Jan/74)
 J. S. J. S.

Mr 17.2.74

~~There is no doubt~~
 relations that as stated
 by the District Engineer
 the Range Officer should
 have sent in a Revised
 estimate for the Peddappin
 Catchment long ago. Large allotments
 have been made for the
 work and it has been
 the subject of several
 orders no 1872-73 and
 1873-74, the last of
 which is 3034 of 16
 December seems to have

elicited the final revision
that ought to have been
made and reported
very much earlier.

The details of the total excess of Rs. ~~4,444~~ over the original estimate of Rs. 22,560, sanctioned in June 1869, are explained to consist of about Rs. 1400 on account of ordinary rates failing to suffice for the unusual care and labour that were involved by the decrease in thickness of walls and ornamental work introduced in the new Standard Plans of Batcherries; the rest being due to wrong calculations in what is called the standard

estimated. If these be
estimated of quantities
originally supplied to
all Districts, the atten-
-tion of the Inspecting
Engineers for Buildings
is called to the necessity
of revising all the old
sanctions of 1869;
which will be considered
as cancelled and in lieu
of ~~them~~ ^{them} District Eng-
-ineers will submit
at an early date such
revised estimates as
may be necessary.

The excess of Rs 4444
now sanctioned would
have been greatly en-
hanced but for a sa-
ving of Rs 2,370 in an
~~asomably extravagant and ill devised~~
~~extravagant and ill devised~~
estimate of Rs 3910
for sinking a well

Abstract Engⁿ

(Handwritten notes)

increased by 100
and all - hence

elicited the final revision
that ought to have been
made and reported
very much earlier.

The details of the total excess of ~~Rs 4,444~~ over the original estimate of Rs 22,560, sanctioned in June 1869, are explained to consist of about Rs 1400 on account of ordinary rates failing to suffice for the unusual care and labour that were involved by the decrease in thickness of walls and ornamental work introduced in the new Standard Plans of Batcherries; the rest being due to wrong calculations in what is called the standard

estimated. If these be
estimated of quantities
originally supplied to
all Districts, the atten-
-tion of the Inspecting
Engineer for Buildings
is called to the necessity
of revising all the old
sanctions of 1869;
which will be considered
as cancelled and in lieu
of ~~them~~ ^{them} District Eng-
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at an early date such
revised estimates as
may be necessary.

The excess of Rs 4444
now sanctioned would
have been greatly en-
hanced but for a sa-
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asomably extravagant and ill devised
~~strongly contrary to the~~
estimate of Rs 3910
for sinking a well

Christmet Engle

(Handwritten notes)

increased by 100
and all - hence

for preparation of which
as Range officers, and
Lieut J. H. Fisher as
Super Engineers, appear
to have been answerable.
It is inconceivable
how officers, belonging
to a Professional De-
partment, whose mission
it is to introduce every
European improvement
in construction, more
especially when con-
cise to economy, could
have reacted satisfied
with the barbarous
and costly method of
well sinking that
appears to have been
transmitted down from
the aborigines of the
country. The Superintending
Engineers for Building

The attention of the

is drawn to the rude
and unscientific character
of the design originally
submitted and he
is requested

all considerations of the
value of his special
art of well sinking
on correct principles
is introduced by dis-
trust Engineers wherever
the rude practice al-
luded to in Lieut
J. H. Fisher's letter is
still prevalent.

The proposals for
transfer have been
placed before Govt.
without any infor-
mation to guide
them as to the propriety
of sanctioning them.
Lieut J. H. Fisher will
accordingly report
the grounds on which
half the allotment

7017
Ch 173
Govt. of 1874 Madras.
PUBLIC WORKS.

20

Dated

Encl.

24th Aug 1874

✓
321-321

Lab. of Subeherry at Reddappur.
Receives orders on the Avinash
for the Subeherry and
issuing instructions for the
direction of the subordinates of
the Subeherry in