

Public Works (1897) Department.

597 W
28
G.O., No. 127-W

DATED 16 January

19/1/97

[Despatch Abstract.]

Residence: Directing that the sanction of the Govt of India be applied for to the revised estimate of Rs. 12,480 for the construction of a — at Begwada for the Executive Engineer, Kistna Northern D.

Residence: Requesting sanction to a further outlay of Rs. 1,620 on the construction of a — at Begwada for the Executive Engineer, Kistna Northern D.

127W 64 c. per
4

16/97 again 37 c. per unit docket at the bottom

128W — 40 c. per

[P.W. 26
1897-98-21-26]

128W

37 c. per unit docket at the bottom

Directing that the sanction of the Government of India be applied for to the revised estimate of Rs. 12,480 for the construction of a — at Bezwada for the Executive Engineer, Kistna Northern division.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads,
Civil Works.

Read—the following papers :—

From H. T. KEELING, Esq., Executive Engineer, Kistna Northern Division, to the Superintending Engineer, II Circle, dated 21st October 1896, No. 425 S.E.

I have the honour to forward, herewith, a revised estimate for the Executive Engineer's quarters, Kistna Northern division.

2. The next excess over the original estimate is Rs. 2,245. It is mainly accounted for by the following items :—

Land compensation Rs. 650, sanctioned in G.O., No. 849 W., dated 5th April 1895. Wood-work Rs. 358, due to rate in workshops having been increased to cover loss on the saw-pit account. New items Rs. 420, for laying Mangalore tiles in chunam over existing Bengal terracing, which leaks badly. Rs. 300, for quarry rubbish round the building to make the immediate neighbourhood of the house and godowns passable in wet weather, the soil being black cotton. The remaining excess is incurred on various small items, and is explained in the comparative statement of differences.

3. The house has been completed, in accordance with this estimate, with the exception of Mangalore tiling to which early sanction is requested.

4. I have not been in occupation of the house since 21st August 1896. I vacated it then on the advice of the District Surgeon. The house will not be safely habitable until the verandahs and bath-rooms are made water-tight. In proof of the dampness, I may state that my wife and children were all ill with dysentery, due, it is thought, to damp; and one of the children died.

No. 2260 K.N.

Forwarded to the Chief Engineer, Public Works Department, for favour of obtaining the sanction of Government to the comparative statement and revised estimate, amounting to Rs. 12,480, for constructing quarters for the Executive Engineer, Kistna Northern division, at Bezvada.

2. The original estimate, amounting to Rs. 10,235, was sanctioned in G.O., No. 2826 W., dated 7th November 1894.

3. Explanation for the excesses over the original estimate has been given in the comparative statement.

16th November 1896.

(Signed)

W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

From H. T. KEELING, Esq., Executive Engineer, Kistna Northern Division, to the Superintending Engineer, II Circle, dated 19th December 1896, No. 629 S.E.

[Reference No. 2592 K.N., dated 16th December 1896.]

I have the honour to reply as follows :—

Query No. 1.—When the loss on the saw-pit account was ordered to be made up, a decision had to be arrived at as to which of two methods should be adopted. The two methods were—

- (a) Write off the loss and start again with a clean sheet.
- (b) Raise the issue rate above actual cost and devote the profits to working off the loss.

Method (b) was adopted. The estimate was prepared before the rates were raised, hence the excess. The questions regarding the saw-pit account were fully discussed in 1895, and a reference to the file thereon will show that the question is not one of quantity of work, but wastage and rates of issue. The estimate under consideration is not the only estimate that was affected; there are many others. The whole loss on the saw-pit account was too large to charge to one small estimate.

Query No. 2.—In several buildings in this district jungle-wood was introduced as a fancied economy in prime cost; the result being that, within a short time, the timber was riddled with white ants and an increased outlay in repairs rendered necessary. Acting on this experience teak-wood was substituted, because a slightly increased capital charge is to be preferred to an increased annual charge.

Query No. 3.—The spreading of quarry rubbish was absolutely necessary to provide an area round the house on which it would be possible to walk during wet weather without sinking ankle-deep. An area passably dry in wet weather is a necessity round any house which is to be used as a habitation. As regards the amount it includes not only carriage, but value and labour, and is, therefore, not considered high.

Query No. 4.—I do not think the contractor can be fairly blamed for all the leakage. The material is not in my opinion as good as it should have been, which may account for the leakage or may not, but it must be remembered that the verandah roof settled away from the walls after a heavy fall of rain of 4th. This settlement was not large, but was quite enough to give the contractors fair ground to successfully fight any attempt to make them rebuild the Bengal terracing as they would maintain that the settlement disturbed what was previously sufficiently sound. My own opinion is that Bengal terracing is not a good roofing and that the specimen under consideration is not a good one. The foundations cracked during construction. They were increased at the time to what was considered sufficient to prevent cracks in the future. The settlement mentioned does not injure the stability of the verandah. It is, however, sufficient, as I said before, to give the contractors a peg on which to hang a defence plausible to the non-professional mind.

No. 2790 K.N.

Forwarded to the Chief Engineer, Public Works Department, with reference to his No. 4802 C., dated 11th December 1896.

2. The undersigned agrees with the replies given by the Executive Engineer, Kistna Northern division, but it has not been definitely decided to put Mangalore tiling over the verandah.

3. This subject will receive special consideration and the item should not be removed from the estimate as the tiles may be really necessary.

4. As regards the loss on the saw-pit account, it is, in the opinion of the undersigned, better to gradually clear off the loss in the manner adopted than to write off the whole loss in one sum.

6th January 1897.

(Signed)

W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

Note by the Chief Engineer, Public Works Department.

With his endorsement, No. 1349 K.S., dated 14th September 1894, the Superintending Engineer, II Circle, submitted an estimate of Rs. 10,800 for constructing a residence at Bezwada for the Executive Engineer, Kistna Northern division. This amount being in excess of the limit allowed by Code rules, the area of the land proposed to be taken up for the building was curtailed, and the estimate was reduced to Rs. 10,235 and sanctioned in G.O., No. 2826 W., dated 7th November 1894.

2. It was subsequently represented that it would be inadvisable not to acquire the whole piece of land as originally proposed, and the Government, concurring in this opinion, applied to the Government of India for sanction to the construction of the building at an estimated cost of Rs. 10,860—*vide* G.O., No. 849 W., dated 5th April 1895.

3. The sanction of the Government of India was communicated with G.O., No. 1428 W., dated 14th June 1895, and the Superintending Engineer now submits a revised estimate of Rs. 12,480 for the building.

4. The excesses are due to—

First—Rate in workshops having been increased for teak-wood to cover loss on the saw-pit account, Rs. 567.

Second—To the substitution of teak-wood for jungle-wood, Rs. 588.

Third—New items, Rs. 810: of these the principal are Rs. 300 for quarry rubbish spread round bungalow, in order to make the immediate neighbourhood passable in wet weather, and Rs. 420 for laying Mangalore tiles on the top of Bengal terrace roof to render it water-tight. The latter proposal will increase the weight of the roof by 1,400 lb. per square, and it is doubtful if the scantlings are capable of bearing this extra weight.

The excesses appear unavoidable, but the item of laying Mangalore tiles on the Bengal terrace roof has not yet been carried out, and the Superintending Engineer should ascertain first whether it is safe to put this extra weight on to the scantlings.

The Bengal terrace has only lately been constructed and it must have been badly built. The Superintending Engineer should consider whether the contractor should not rebuild it at his own expense.

With the above remarks the revised estimate is recommended for sanction.

(Signed) D. McNEIL CAMPBELL, Colonel, R.E.,
Chief Engineer.
11th January 1897.

ORDER—No. 127 W., dated 16th January 1897.

Ordered that the sanction of the Government of India be applied for to the revised estimate of Rs. 12,480.

2. Attention is drawn to the Chief Engineer's note recorded above.

[Here enter No. 128 W., dated 16th January 1897.]

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, II Circle
„ Examiner, Public Works Accounts.

Exd. T. K. Narayana Aiyangar.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1897} of Madras.
PUBLIC WORKS.

Recd.

Enclosures

1897.

Regd.

Spare copies

Letter, No. 128 W., 16th January 1897.

JANUARY.

Residence

Requesting sanction to a further outlay of Rs. 1,620 on the construction of a —
at Bezwada for the Executive Engineer, Kistna Northern division.

No. 128 W., 16TH JANUARY 1897.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LETTER—from

THE HON'BLE COLONEL D. McNEIL CAMPBELL, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

With reference to the correspondence ending with the letter from the Government of India, No. 155 B., dated 24th May 1895, sanctioning the construction of a residence at Bezwada for the Executive Engineer, Kistna Northern division, at a cost of Rs. 10,860, I am directed to state that a revised estimate of Rs. 12,480 has now been received, and to request the sanction of the Government of India to a further outlay of Rs. 1,620 on the building. The excess is unavoidable and is explained in the note by the Chief Engineer, printed with the Proceedings of this Government, No. 127 W., dated 16th January 1897, a copy of which is herewith forwarded.

I have the honour to be,

Sir,

Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

FORT ST. GEORGE,
16th January 1897.

Exd. T. K. Narayana Aiyangar.

116
A

Residence for the C. E.
Kistna Southern Division P.W. DEPARTMENT.

N^o 127 N of 16th June 1897.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the Superintending Engineer II circle
N^o 2260 K. N. dated 16th November 1896.
Note by the Chief Engineer dated 11-1-97.

Ordered that the
Sanction of the Government
of India be applied for to
the revised estimate of
Rs 12,480.

2. Attention is drawn to
the Chief Engineer's note
recorded above.

N. E. N^o 128 W of 16.1.97

To
The Secretary to the Government
of India P. W. D.

Sir,

With reference to the
correspondence ending with
the letter from the Govt. of
India n^o 155 B, dated 24th

May 1895, sanctioning
the construction of a
residence at Bezawada for

To
The Supg. Engineer II circle
Examiner P.W. Accounts

Current No. 10452
 Letter No. 2260 KN.
 Dated 16 November 1896
 From the S.E. & Circle

NOTE BY TECHNICAL SECTION.

Name of work Revised Estimate for
Kistna Northern Div. Eng. Engineer's Qrs
at Beyrada.

	Rs.
Amount of revised Estimate	12,480
- do. do. Sanctioned -	10,860
	<u>Rs. 1,620</u>

The excess represents 13.7% on the Sanctioned Estimate.

The original Estimate amounting to Rs 10,235 was sanctioned under G.O. 2826 W. dated 7 November 1894 and a Revised Estimate amounting to Rs 10,860 was sanctioned in G.O. 1428 W. dt. 14 June 1895.

The excess amount is made up as follows: -

	Rs
(a) Due to increase of rates:	567
(b) Due to deviations from Estimate (change of materials)	588
(c) New items	810
(d) Errors & omissions in sanctioned Est. ..	81
Total ..	<u>2046</u>

Deduct savings under various heads } 426

Net Excess Rs. 1620

Under (a) the chief item is an

for the Executive Engineer Kistna Northern Division, at a cost of Rs 10,860, I am directed to state that a revised estimate of Rs 12,480 has now been received, and to request the sanction of the Government of India to a further outlay of Rs 1,620 on the building. The excess is unavoidable and is explained in the note by the Chief Engineer printed with the Proceedings of this Government No 127 W dated 16 ~~January~~ ^{January} 1897, a copy of which is herewith forwarded.

I have &c.

11/1/97

W.

Cu

T. H.
B. C. M.

May
H. E. 13/12/11

excess of Rs 358 on Teakwood caused by increased rate due to certain adjustments in Workshop accounts

Under (4) the principal cause of excess is the substitution of Godawary Teak, for Junglewood provided in Estimate.

Under (c). The following d.S. provisions are made:-

Quarry rubbish found	Rs.
house and godown	300
Clearing away rubbish	40
Cost of shed	30
Scaffolding	20

It is not stated why the Quarry Rubbish was not paid for by measurement.

A provision of Rs 420 is also made for laying Mangalore tiles in chunam, over the existing Bengal terrace roof, which is reported to be leaking excessively.

This work has not been carried out, pending sanction of prompt-revised Estimate. The proposal seems objectionable for several reasons. It would probably be injudicious to apply an extra load of 1400 lbs per sq. (which is about the weight of Mangalore tiles set in chunam) to the roof timbers, and at the best it would be an unworkmanlike arrangement. There is no reason why a newly laid Bengal Terrace should leak to such an extent

The excesses are due to

1st Rate in workshops having been increased for teak-wood to cover loss on the saw-pit account. = Rs 567.

2nd To the substitution of teak wood for junglewood = Rs 588 -

3rd New items - Rs 870 ..

Of these the principal items are Rs 300 for Quarry Rubbish spread round bungalows, in order to make the immediate neighbourhood passable in wet weather Rs. 420. for laying Mangalore tiles on the top of Bengal Terrace roof to render it water-tight. This will increase the weight of the roof by 1400 lbs per square, & it is doubtful if the scuttles are capable of bearing this extra weight.

The excesses appear unavoidable 4% on Capital to cover Interest = 542.76 but the item of laying Mangalore tiles on the Revised Bengal Flr 3% " " for Repairs = 407.07 10% on Repairs for Estab. Tools & Plant = 40.70

Total annual Rebal Rs 990.53 or monthly Rs 82.8

as to render such a procedure necessary. Possibly the best thing now to be done, will be to strip the Bengal terrace and have it re-laid entirely, as it would appear from the Executive Engineer's report as to the state of the Building that it is too far gone for patching.

The work has only very recently been completed, and must have been very badly done to have failed so completely, it is considered therefore that the re-laying should be done at the contractor's expense.

If the revised Estimate is sanctioned, as submitted, for Rs. 12,480. the rent of the building will be increased to Rs 82.8.0 per mensem as shown in calculations below.

Rs.	
Estimated cost of construction	10,890.
10% on above for Estab. Tools & Plant	1089.
Add cost of site	1590

Total Capital Cost: Rs. 13,569

4% on Capital to cover Interest = 542.76
3% " " for Repairs = 407.07
10% on Repairs for Estab. Tools & Plant = 40.70
Total annual Rebal Rs 990.53
or monthly Rs 82.8

excess of Rs 358 on Teakwood cum.

Terrace roof has not yet been carried out. The S.S. should ascertain first whether it is safe to put this extra weight on to the scumblings.

The Bengal Terrace has only lately been constructed & it must have been badly built. The S.S. should consider whether the contractor should not rebuild it at his own expense.

The revised estimate may be sanctioned & the S.S. attention called to the above remarks.

1877

5.12.94.

Sanction with note the above effect

5/12/94

B.S./12

P.W. Department.
Note by the Chief Engineer.

With his endorsement No. 1349 K.S. dated 14th September 1894, the Superintending Engineer II circle submitted an estimate of Rs 10,800 for constructing a residence at Bezawada for the Executive Engineer, Krishna Northern Division. This amount being in excess of the limit allowed by code rules, the area of the land proposed to be taken up for the building was curtailed, and the estimate was reduced to Rs 10,235 and sanctioned in G.O. No. 2826 W dated 7th November 1894.

2. It was subsequently represented that it would be ~~very~~ inadvisable not to

to acquire the whole piece of land as originally proposed, and the Government, concurring in this ^{opinion} recommendation, applied to the Government of India for sanction to the construction of the building at an estimated cost of Rs 10,860 vide G.O. no. 849W dated 5th April 1895.

3. The sanction of the Government of India was communicated with G.O. no. 1428W dated 14th June 1895, and the Superintending Engineer now submits a revised estimate of Rs 12,480 for the building.

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68
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The Bengal Terrace has

has only lately been constructed and it must have been badly built. The Superintending Engineer should consider whether the contractor should not rebuild it at his own expense.

With the above remarks the revised estimate is recommended for sanction.

11/1/97

E. W.

Public Works (1897) Department.

CURRENT No. 238

Order

From

Maj. W. L. C. Baddley R.E.
Supg. Engr. II C. Engr.

No. 2790 H.N.

Dated 6 January 1897

Received 8.1.97

Enclosures

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SUBJECT.

Kuma Northern D. Engr.
Engineers quarters at
Meerut. Forwarded
letter from the E. E. explaining
the queries of the E. W. on the
revised Est. for this —.

BACK PAPERS.

G.O.	No.	Department.	Date.
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FURTHER PAPERS.

G.O.	No.	Department.	Date.
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Letter from H.T. Keeling Esquire Executive Engineer, District North to the Subg Engineer, 2nd Circle, 7 19th December 1906, No. 629 S2

Reference. No. 2592 K.N.
16.12.96

I have the honour to reply as follows:
Query - No. 1. When the loss on the Sawpit account was ordered to be made up a decision had to be arrived at as to which of two ~~the~~ methods should be adopted. The two methods were

- (a) Write off the loss and start again with a clean sheet;
- (b) raise the issue rate above actual cost and devote the profits to working off the loss.

Method (b) was adopted. The estimate was prepared before the rates were raised hence the excess. The questions regarding the Sawpit account were fully discussed in 1895 and a reference to the file thereon will show that the question is not one of quantity of work but wastage & rates of issue. The estimate under consideration is not the only estimate that was affected, there are many others. The whole loss on the Sawpit account was too large to charge to one small estimate.

Query No. 2 In several buildings in this district jungle wood was introduced

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Query N.º 3 The spreading of quarry rubbish was absolutely necessary to provide an area round the house on which it would be possible to walk during wet weather without sinking ankle deep. An area passably dry in wet weather is a necessity round any house which is to be used as a habitation. As regards the amount it includes not only carriage but value and labour and is therefore not considered high.

Query N.º 4. I do not think the contractor can be fairly blamed for all the leakage. The material is not in my opinion as good as it should have been which may account for the leakage or may not but it must be remembered that the verandah roof settled away from the walls after

after a heavy fall of rain of 4". This settlement was not large but was quite enough to give the contractors fair ground to successfully fight any attempt to make them rebuild the Bengal terracing as they would maintain that the settlement disturbed what was previously sufficiently sound. My own opinion is that Bengal terracing is not a good roofing and that the specimen under consideration is not a good one. The foundations cracked during construction. They were increased at the time to what was considered sufficient to prevent cracks in the future. The settlement mentioned does not impugn the stability of the verandah. It is, however, sufficient, as I said before, to give the contractors a peg on which to hang a defence plausible to the non-professional mind.

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2. The undersigned agrees with the replies given by the Engineer, District Northern D., but it has not been definitely

definitely decided to put Mangalore
tiling over the Verandah.

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consideration and the item should
not be removed from the estimate
as the tiles may be really necessary.

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off the loss in the manner adopted
than to write off the whole loss in
one sum.

W. C. Baddley

Major R. E.

Sap Engineer, H. Circle.

W.

Public Works (1896) Department.

CURRENT No. 10452

Order

From

Major W. C. Baddley R.E.
Sap Engineer, H. Circle.

No. 2260 R.N.

Dated 16 November 1896

Received 18. 11. 96

Enclosures 5

Spare copies

SUBJECT.

Revised estimate for
the K. N. D. Inc. Engineers
Quarters at Bezwada.
Forwarded for sanction
of Govt. a —.

I am submitting
15.11.96
on

in

BACK PAPERS.

FURTHER PAPERS.

Letter from H. J. Keeling Esquire, Chief
Engineer, Alaska Northern R.R., to the Supg
Engineer, 2nd Class, of 21. 10. 96, No. 425 SE.
I have the honour to forward

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Kishanpur North B.

2. The next excess over the original estimate is Rs 2245. It is mainly accounted for by the following items

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4. I have not been in occupation
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In proof of the dampness, I may
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were all ill with dysentery due,
it is thought, to damp and one of
the children died.

No 2260 Ktr
16.11.96

Enc 5 { 1 Comp. Statement
1 Date Sheet
3 B.A. Estimates

Forwarded to the Chief
Engineer, P. W. Department, for favour
of obtaining the sanction of Government
to the comparative statement and
revised estimate amounting to
Rs 12,480 for Constructing Quarters
for the Engr. Engineer, Krishna Narthana
D. at Bezwada.

2. The original estimate amounting
to Rs 10,235 was sanctioned in G.O. No.
2826 Wd 7.11.94.

3. Explanation for the excesses over the
original estimate has been given in the
comparative statement W. B. Daddley

Major R. E.
Lieut. Major 2nd Class