

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	370	Press
45. 76		Mis.
Dated	5 - 2	1873.

Not to be folded or roughly handled

12

*Proceedings of the Madras Government, Public Works Department,
5th February 1873.*

No. 75. Read the following letter from the District Engineer, Vizagapatam, to the Secretary to Government, Public Works Department, dated Waltair, 4th January 1873, No. 164 :—

I HAVE the honour to submit herewith, for the sanction of Government, the
* Despatched by banghy with Plans. revised estimate* of additional works
9 Plans. required at the new Lunatic Asylum,
1 Estimate. Waltair.
1 Specification.

2. These works were suggested by the Superintendent of the Asylum and the visiting Committee when the new buildings were occupied by the lunatics in June 1871. In G. O., No. 1,446, of 20th October 1871, Government called for estimates, which were submitted by the Superintending Engineer on 7th June 1872; and the present estimate was framed under the instructions contained in G. O., No. 1,220, of 9th September 1872, and G. O., No. 188, of 25th idem. The general abstract attached to this letter will show at a glance the difference between the original and revised estimates.

3. As directed by Government, the estimate provides for cottages at an average cost of about Rupees 100 each. I beg to point out that this sum is only sufficient for mud walls with tiled roof on palmyrah wood-work; as white-ants abound at the Asylum site, as well as all over Waltair, I think it would be well to use rubble masonry in the foundations and walls, with 18 inches of brickwork at top; this would increase the cost per cottage to Rupees 150.

4. The present Superintendent of the Asylum agrees with me that the original aloe hedge will be sufficient when repaired and strengthened with watering and care through the present dry season. Another description of hedge-plant (*Shima chintalu*) has been tried on the site, but proved a failure owing to the attacks of white-ants.

5. The cost of the water-raising apparatus and filtering cisterns will be somewhat greater than was originally estimated, as the platform and cisterns have been raised 2 feet to admit of water being supplied from them by gravitation to the cistern at the hospital and the gardening cisterns, and the cost of piping and bib-cocks for drawing off the water has been greater than was expected.

6. The original plans having been much damaged in the post, in returning them I send also clean copies on tracing cloth.

7. In the event of these works receiving early sanction about Rupees 1,000 may be expended before the close of the year.

No. 76. ORDER THEREON, 5th February 1873, No. 370.*

CIVIL WORKS, No. 2.

THE estimates now submitted by the District Engineer of Vizagapatam for additional work to the Lunatic Asylum at Waltair being prepared in strict conformity with the Order, No. 1,220 of 9th September 1872, in the Judicial Department, are sanctioned with an addition of Rupees 585, on account of the eleven Warder's huts, to allow of rubble masonry

Proceedings of the Madras Government, Public Works Department,
5th February 1873.

foundations and walls being used instead of mud, for the reason assigned in paragraph 3 of Major Beatty's letter.

2. Of the Rupees 6,100 now required to carry out the work Rupees 1,100 are provided by transfer from the Kurnool Jails* for operations in the current year, and the balance of Rupees 5,000 will be available from the 1st April.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineers, Kurnool and Vizagapatam.

- .. Controller of Public Works Accounts.
.. Judicial Department.
.. Accountant General.

Exd. S. T. Austin.

Estimate No. 43 of 1872-73
Revised Abstract Estimate of certain additional work at the
Naltair Lunatic Asylum, called for in G.O. No. 188 dated
25th September 1872.

No or Quantity	Particulars of work	Rate	Per Item	Amount	Total	
<u>I. Cottage for Warders</u>						
63½	Cubic yards of mud wall including plastering with mud	5	Cft	19	128	
9.94	Squares of whitewashing with 2 coats of chunam	2	Sq	1	106	
4.32	Spot of roofing with palm-leaf rafters, reapers, nails bamboo mats and pan tiles &c. complete	10	do	43	32	
11	Cubic feet of country wood wrought & put up	1	8	Cft	16	8
4½	Cubic yards of gravel for the floors	8	Cft	2	28	
2	Country wood batter doors with frames & iron fixtures &c.	6	do	12		
				95	50	
Contingencies and Superintendence				5	00	
Total for one cottage				100	00	
for 10 other cottages				1000	00	
Add for end wall and part of the roofing of the cottages				15		
Total for 11 Cottages				1115		
<u>II. Hedge around the compound.</u>						
3090	Running feet of strengthening the hedge with additional aloes and watering the plants to a period of 6 months	2	6	ft	482	80
				482	80	
Contingencies and Superintendence				5	00	
Total for hedge				505		

III. Latrine Trenches

5 Latrine Trenches ————— 4 " Each 2

IV. Water raising Apparatus and filtering Cisterns

6 1/2 Cys of rubble masonry in chumam 1 12 Cft 110 13 4
 3 10/8 do of concrete work ————— 1 8 " do 5 1 4
 8 87 Sqr of plastering with 3 coats of chumam 3 5 0 Sqr 29 6 1
 51 91 Cft of oak wood wrought and put up — 3 8 0 Cft 151 11
 1 Water raising Apparatus including
 fitting up ————— 23
 42 Running feet of iron railing to Well
 flat form and steps ————— 1 " Sqr 42
 2 16 Sqr of iron chain ————— 3 " do 40 8
 8 Galvanized iron buckets ————— 2 8 " each 20
 54 Sqr of cut stone work to steps ————— 11 " Sqr 5 15
 1 Oak wood wooden trough ————— 18
 Excavating foundation and filling in ————— 7
 Contingencies and Superintendence 10 " P.C. 46 97

Filtering and Reservoir Cisterns

7 1/2 Cys of rubble masonry in chumam 1 12 Cft 124 13 4
 4 14 5/8 do of arch work ————— 4 13 " do 21 13 8
 11 50 Sqr of plastering with 3 coats of chumam 3 5 " Sqr 38 1 6
 7 Cft of cut stone work ————— 8 " Cft 3 8
 2 Oak wood doors with frames complete
 fit man holes ————— 8 " Each 16
 2 Oak wood trap doors to filtering Cisterns 5 8 " do 11
 3 Brass cocks with handle fitted to
 3 lengths of iron pipe including freight — 23 6 8 " do 70 4
 2 Pieces of iron pipe length 2.6 each — 6 10 " do 13 4
 Coarse sifted sand for the filtering Cisterns 8
 Charcoal for filtering Cisterns 10
 Excavating foundation & filling in — 10
 Contingencies and Superintendence 10 " P.C. 33 3 6

Washing Cisterns

13 59/16 Cys of rubble masonry in chumam 1 12 Cft 23 14 9
 2 2 1/4 do of arch work in — do — 4 13 " do 10 5
 1 47/8 Sqr of plastering with 3 coats of — do — 3 5 " Sqr 3 7 5
 Excavating foundation & filling in — 3
 Contingencies and Superintendence 10 " P.C. 4 12 6

New Pavement about the Cisterns

4 56 Sqr of flooring with rectangular cut
 slabs in parallel courses and pointed with
 bituminous mortar ————— 11 " Sqr 50 2 6
 10 2/3 Cubic yards of concrete work — 1 2 Cft 12
 Contingencies & Superintendence — 10 " S.C. 7 13 6

Deduct for cut stone pavement to be removed 20

Total for Water raising
 apparatus & filtering Cisterns } 985

985

V. Cooking room and Bath room for Hospital Assistant

10 6 Cys of concrete work ————— 1 8 " Cft 15 5 4
 68 10 do of rubble masonry in chumam — 1 14 " do 128 3 1
 5 25/36 do of brick work in — do — 2 14 " do 16 5 11
 3 4 1/2 do of brick arch work in — do — 4 13 " do 15 2 5
 18 Sqr of plastering with 2 coats of chumam
 and whitewashing ————— 2 6 " Sqr 42 12
 3 54 Sqr of flooring with rectangular cut stone
 slabs in parallel courses and pointed
 with bituminous mortar ————— 11 " do 38 15
 7 28 1/2 Sqr of roofing with flat and pan tiles and
 chumam borders &c. complete — 10 10 " do 72 13 7
 fees for Baths

72.61	Cft of salwood wrought and put up	2	83 Cft	180 23
10	Sq of tarring the wood work	4	Sq	12 8
2	Pairs of teak wood batten doors with frames and iron fixtures & complete (3 1/2 x 6 1/2) inside dimensions	27	Each	54
15	Sq of teak wood windows with shutters (3 x 4 1/2)	15	do	30
2	Sq of green paint to doors	2	Sq	12 8
8	Sq of green paint to windows	8	Sq	17
2	Excavating foundation and filling in beamy			10
				645 117

Contingencies and Superintendence 10 .. P.B. 64 45
 Total Rs 64 45

VI. Shower and Douches Baths

15.64	Cyds of Concrete work	1	8 .. Cyp	15 56
14.1	Do of rubble masonry in chunam	1	14 .. do	114 71
13.72	Do of brick work in	2	14 .. do	18 17
4.13	Do of brick arch work in	4	13 .. do	20 138
14	Sq of plastering with two coats of chunam and whitewashing	2	6 .. Sq	33 4
3.87	Do of terracing with brick an edge 3 inches jelly with coat of plaster and 3/4 inch thick asphalt to top of terrace and two coats of plaster to ceiling	40	Sq	154 129
3.09	Sq of asphalt 3/4 inch thick laid over concrete	27	do	83 6 10
0.30	Do of cut stone slabs to steps	11	do	3 49
55.71	Cft of teak wood wrought and put up	3	8 .. Cft	194 159
350.73	Lbs of wrought iron for cistern of shower bath including smiths hire & fitting up	2	6 lbs	54 12 11
588.60	Lbs of wrought iron for douche bath cistern including foundation fitting up	2	6 do	91 15 6
	Carriage & Superintendence			18

2	Teak wood batten doors with frames and iron fixtures & complete including painting with two coats of green paint (3 1/2 x 6 1/2) inside dimensions	27	Each	54
1	Teak wood window with wooden frames and shutters & iron fixtures & painting with two coats of green paint & complete (3 x 4 1/2) inside dimensions	17	do	17
12	Sq of tarring the wood work	4	Sq	15
	Excavating foundation and filling in			10
				899 44

Contingencies and Superintendence 10 .. P.B. 90 118
 Total Rs 990

Channel with masonry cistern for supplying water to the site of bath house by gravitational hand pump to raise the water 20 feet & plat form for a person working the pump.

4.25	Cyds of Concrete work	1	8 .. Cyp	7 6 2
49.23	Do of rubble masonry in chunam	1	14 .. do	93 77
23.13	Do of brick work in	2	14 .. do	67 14
37.9	Do of brick arch work in	4	13 .. do	18 2 10
4.47	Sq of plastering with 3 coats of do	3	5 .. Sq	37 15 11
0.26	Do of asphalt 3/4 inch thick to top of plat form	27	do	7 4
2.50	Rft of covering stones (1 1/2' broad & 6' deep) to channel	1	6 Rft	23 7
1	Hand Pump and pipes &c			70
2	Centrings to arches			10
	Excavating foundation and filling in			25
45	Rft of hand rail to steps and plat form	1	Rft	45
136	Rft of iron chain	3	Do	25 8
2	Galvanized Iron buckets	2	8 .. Each	5
				435 12

Contingencies and Superintendence 10 .. P.B. 44 14 10 480
 Total Rupees for Baths &c 1470

VIII. Guard Rooms for Hadders on night duty.

8.13	Cybs of brick work in chunnam	2 14	Cybs	24 6 2
3.34	Sqrs of plastering with two coats of chunnam and whitewashing	2 6	Sqrs	7 14 11
1	Teak wood batten door with iron fixture &c complete (3x6)	20	Each	20
1	D ^o Ventilator with iron bars &c complete and weather board (3x1 1/2)	18	D ^o	18
	Painting to doors &c			2
	Excavating foundation & filling in basement			1 8
				73 13 1

Contingencies and Superintendence 10 . . . Rs. 6 2 0
Total for one Guard Room 80 . . .
D^o for 5 D^o 400

VIII. Gardening Cisterns with masonry supply channels.

157 8 1/2	Cybs of rubble masonry in chunnam	1 14	Cybs	283 10 11
63 7 1/2	Sqrs of brick work in do	2 14	D ^o	183 5 9
18.87	Sqrs of plastering with 3 coats of do	3 5	Sqrs	62 8 1
9.17	D ^o of pointing the exposed walls of the channel	1 8	D ^o	13 12 1
500	Rft of covering slats over the channel	1 6	Rft	46 14
3	Small masonry tunnels across roads	10	Each	30
	Excavating foundation & filling in			30
				650 2 1

Contingencies and Superintendence 10 . . . Rs. 63 13 2
Total for gardening cisterns & channels 714

IX. Screen Walls to Cook Rooms

4 2/3	Cybs of rubble masonry	1 14	Cybs	8 12
1.27 1/2	Sqrs of plastering with two coats of chunnam and whitewashing	2 6	Sqrs	3
0.22 1/2	Sqrs of honey comb tile work	8	D ^o	1 12

0.83	Sqrs. of roofing with flat and pan tiles and Chunnam borders &c Complete	10	Sqrs	8 12 9
4.63	6 ft. of salwood wrought and put up	2 8 3	Cybs	11 10 4
1	Pair of country wood batten door with iron fixture &c complete (3x6 1/2)			22
	Larring			4
				60 3

Contingencies and Superintendence 10 . . . Rs. 5 15 9

Total for one Cook Room 66 . .
D^o for 6 D^o 396

Total of Estimates now submitted, Rupees 6315
 Deduct amount already sanctioned in B.O. No 3126 of 11th December 1872 } 800
Balance now requiring sanction Rupees } 5515

Engr. Emerg's Office
 Camp Vizianagram
 Waltair
 19 December 1872

J. Finde Captain
 Major R.E.
 District Engineer
 Vizianagram Range
 Waltair

J. Beatty Major R.E.
 District Engineer
 of Vizianagram

General abstract of Works proposed in the accompanying estimate

Names of the works

As estimated according to the orders given in G.O. No. 11228 of 6th November 1871
As now estimated according to the orders given in G.O. No. 25th of September 1872

Additional works at Waltair Lunatic Asylum		6600	1115
I.	Cottages for 11 warders	6290	
II.	Compound wall		505
Repairing & Strengthening the present hedge		20	20
III.	Latrine Trenches		
IV.	Water raising Apparatus and filtering Cisterns	800	985
V.	Cooking room and Bath room for Hospital Assistant	710	710
VI.	Shower and Douche Baths, and water supply to them by gravitation and pumping	1470	1470
VII.	Guard rooms for warders on night duty	400	400
VIII.	Gardening Cisterns with masonry Channels	714	714
IX.	Screen walls to Cook rooms	396	396
Total of Estimates submitted on 31 st January 1872		17400	
Total of Estimates now submitted			6315
Deduct amount already sanctioned in G.O. No. 3126 of 11 th December 1871			800

Balance now requiring sanction Rupees 5515

Ex: Engineer's Office
Vizianagaram
19th December 1872

L. Beatty Major &c.
District Engineer
of Vizianagaram

M. W. Fride Captain
Major &c.
Executive Engineer
Vizianagaram Range
Waltair

No. II Range Vizianagaram
Provincial
Civil Buildings
New Work

Estimate No. 5315
for the additional
works at the Waltair
Lunatic Asylum cells
for in G.O. No. 128 of 6th November 1871

No. 190/73.

P.H. 190/142

Encl.
9 Plans
1 Estimate
1 Specification
1 Estab.

District Engineers Office
N^o 164
Waltair 4th January 1873

From
The District Engineer
Vizagapatam

To

The Secretary to Government, D.P.W.
Fort Saint George

Sir

* Despatched by
Banghy with Plans

I have the honor to submit herewith,
for the sanction of Government, the revised
estimate of additional works required at the
new Lunatic Asylum, Waltair.

These works were suggested by the
Superintendent of the Asylum and the visit-
ing Committee, when the new buildings were
occupied by the Lunatics in June 1871. In
G.O. N^o 1446 of 20th October 1871, Government
called for estimates, which were submitted by
the Superintending Engineer on 7th June 1872;
and the present estimate was framed under
the instructions contained in G.O. N^o 1220 of 9th
September 1872, and G.O. N^o 188 of 25th idem.

The General Abstract attached to this letter will show at a glance the difference between the original and revised estimates.

3. As directed by Government, the estimate provides for Cottages at an average cost of about Rs. 100 each. I beg to point out that this sum is only sufficient for mud walls, with tiled roof on palmera wood-work; as white ants abound at the asylum site, as well as all ^{the} Waltair, I think it would be well to use rubble masonry in the foundations and walls, with 18 inches of brickwork at top; this would increase the cost per cottage to Rs. 150.

4. The present Superintendent of the asylum agrees with me that the original aloe hedge will be sufficient, when repaired and strengthened, with watering and care through the present dry season. Another description of hedge-plant (Shima Chintalu) has been tried on the site, but proved a failure owing to the attacks of white ants.

5. The cost of the water raising apparatus and filtering Cisterns will be somewhat greater than

than was originally estimated; as the platform and Cisterns have been raised two feet, to admit of water being supplied from them by gravitation to the cistern at the Hospital and the gardening cisterns; and the cost of piping and bib-cocks for drawing off the water has been greater than was expected.

6. The original plans having been much damaged in the post, in returning them I send also clean copies on tracing cloth.

7. In the event of these works receiving early sanction, about Rs. 1000 may be expended before the close of the year.

I have the honor to be
Sir

Your most Obedt. Servt.
J. Beatty - Major R.E.
District Engineer
of Vizagapatam

N^o 370 P. h. d.

Proceedings of the Madras Court
under date 5th Feb 1873.
Read the following:-
From
The District Engineer Vizagapatnam. (H. E. No. 164 of 4th Jan 1873)

The Estimates
now submitted by the
District Engineer of
Vizagapatnam for additional
work to the Sundar Bay
- linn at Waltan, being
prepared in strict conform-
ty with the Order No 1220
of 9th September 1872 in
the Judicial Department
are sanctioned with an
addition.

M. E.

Also Recd 11th 2028 Recd
25th Sep 1872 - 185 -

P. H. 1873
From Vizagapatnam
25th Sep 1872

The District Engineer
Vizagapatnam

The Secretary to Govt. G. O. No.
102 of 11th Jan 1873

Dated 4th Jan 1873
Dec 13th 1872

One 11th Jan 1873
+ 20th Jan 1873

and estimates of additional
works at the Waltan Linn
- the Station for the sanc-
- tion of Government.
* And of Vizagapatnam
to the S. E. Vizagapatnam
- the S. E. Vizagapatnam
- the S. E. Vizagapatnam

addition of Rupees 585
on account of the 11 Wardens
Huts to allow of rubble
masonry foundations and
walls being used, instead
of mud, for the reasons
assigned in para 3 of
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Of the Rupees 6,100
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out the work Rupees 1,100
are provided by transfer
from the Kurnool
Sails for operations
in the current year
and the balance of
Rs. 5000 will be available
from the 1st April.

G.M.V.

Sub Jail at Kailgumbla.

Re-s. dep. 5/2/73 only to the dep. viz.

P-C - 15/2/73 to all

4 orig. plans dep. 24/2/73 to Dep. viz.

To The Dist. Engineer Kurnool
" Controller P.W.D.
" Judicial Dept.
" Acct. Genl.

C/12 190

Govt. of Madras

PUBLIC WORKS.

To
The District Engineer's
Rangoon & Vizag,

Dated

Recd.

Encl. 7

G. O. 5th Feb 1903, No. 370.

No. 75 876

Lunatic Asylum at
Waltham. Estimates
for additional ~~work~~
work to the Lunatic
Asylum at Waltham,
sanctioned with re-
marks.

M. C.