

Education

(1949) Department.

No. SERIES.

G.O. NO. 180

Dated 26. 1. 49

[Despatch Abstract.]

Basic Education - Basic Tq. school, Raviarickampalayam
- Full grant for construction of a water storage over tank - Approved.

Back Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Further Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

From
Swami Nishkamananda,
The Correspondent,
Sri R.K. Mission Gandhi Basic Training School,
Perianaickenplayam.

Dated 9th January 1949

To
The Director of Public Instruction,
Madras.

Sir,
SUB:- Grant - Sri R.K. Mission Gandhi Basic Training School,
Perianaickenplayam, Dt. Coimbatore - Construction of a
new water storage over tank - Full Grant - Request.

To Sri Ramakrishna Mission Vidyalaya Gandhi Basic Training
School where teachers and officers deputed by the Government are
re-trained in Basic Education, an urgent need for the construction
of a water storage over tank is being felt. So plans and detailed
estimates, as prepared by the Coimbatore Circle P.W.D. Superintending
Engineer, are sent herewith in triplicates for your approval and
sanction.

The total estimate comes to about Rs. 2,575/- I request you to
approve the scheme and ~~recommend~~ recommend for the full payment of
the total cost of constructing the Overtank.

As we are anxious to finish the construction, if possible, before
the end of the current financial year I am sending the plans and
estimates direct to you to avoid any delay deviating from the usual
procedure of sending through the D.E.O., Coimbatore. A copy of the
scheme is being sent, however, to the D.E.O.

I beg to request you to pass early orders so that we can proceed
straightway with the construction.

~~XXXXXXXXXX~~ With thanks and kind regards.

Yours in Service,
Swami Nishkamananda
Correspondent.

Copy to the D.E.O., CBE.,

SRI RAMAKRISHNA MISSION GANDHI BASIC TRAINING SCHOOL
PERIARATCHENPALAYAM

Proposed New Water Storage Tank : Detailed Estimate
DETAILED ESTIMATE

Details of Work	Number	Measurement in Feet			Area or Total Contents
		Length	Breadth	Depth	
1. Earthwork excavating foundation in black cotton and hard kankar soils and Filling in foundations :-	2	13'-3"	2'-6"	7'-0"	464 or 500 cft.
2. Concrete hard broken stone (1.1/2" size) in cement mortar 1:5 foundation	2	13-3	2'-6"	1-6	100 100 cft.
3. Random rubble in cement mortar 1:5 foundation and basement	2	12 - 3	2--0	5 - 6	270
superstructure	2	12 - 3	1--6	10 - 0	368
					638
Deduct for R.C.lintel 2 x 2		1 - 6	1--6	1 -4 1/2	12
					626 or 630 cft.
4. Reinforced concrete work for lintels and slabs (1:2:4)					
R.C.Lintel	2	12 - 3	1--6	1 -4 1/2	51
R.C.floor slab	1	12- 9	12--9	0 -7 1/2	102
					153 153 cft.
5. Brickwork in cement mortar 1:4 with first class bricks					
Sides of tank	1	46- 0	1--6	2--6	173
	1	44-- 6	1--1 1/2	3--0	150
Gable	2	12--3	1-- 1 1/2	1--6	21
					344
Total	2	2-- 6	1--1 1/2	1--6	9
Deduct for ventilators	2				335 or 340 cft. 2 nos.
6. R.C.Ornamental ventilators	2	2--6		1--6	
7.a. Plastering with cement mortar 1/2" thick 1:4 mixed with water proofing compound.					
Tank inside	1	40--0		5--6	220
Bottom of slab floor	1	10--0	10--0		100
					320
b. Plastering with cement mortar 1/2" thick 1:4 without waterproofing compound					
Exterior tank	1	52--0		5-10 1/2	306
Top of side wall of tank	1	24--6	1--1 1/2		28
Gable top	2 x 2	7--0	1--1 1/2		32
					366 or 370 cft.
8. Countrywood wrought and put up					
Ridge and wall plates	3	12--3	0--3	0--5	3.83 or 3.9 cft.
Roofing with G.I.Sheets	2	12--3	7--3		178 or 180 cft.
10. Providing an Iron or wooden ladder and fixing the same for inspection including C.I.steps fixed in masonry to set down					L.S. L.S.
11. Providing a hinged opening in roof for use as manhole for inspection of interior of tank with battens to support					L.S. L.S.
12. Providing flanged inlets and outlet pipes connection in floor and an overflow and scour pipes with necessary valves					L.S. L.S.

5
PROPOSED NEW WATER STORAGE TANK AT
Sri Ramakrishna Mission Vidyalaya Gandhi Basic Training School
Perianaickenpalayam

CALCULATIONS

R.C. Slab . Weight of matter on 1 ft. of slab
11 x 1 x 5 x 62.1/2 lbs. = 3438 lbs.

Self weight of slab 11 x 1 x 8" x 150 $\frac{1100}{4538}$ lbs.
or 4600 lbs.

As this is a square slab 10' x 10' reinforcement bothways
is economical

$$f = \frac{.05 B \text{ plus } .45 L}{B} = \frac{.05 \times 10 \text{ plus } .45 \times 10}{10} = .5$$

$$BM = \frac{4600 \times 11 \times 12}{8 \times 2} = 95 \text{ bd}^2$$

$$\therefore d^2 = \frac{4600 \times 11 \times 12}{8 \times 2 \times 95 \times 12} = 33.3$$

$$\therefore d = 5.3/4"$$

Using a clear cover of 1" minimum for water tanks total depth will be
5.3/4" plus 1/2" plus 1" = 7.1/4" or say 7.1/4"

Reinforcement = .00675 x 12 x 5.3/4 = .466.
Use 1/2" dr. rods at 5" centre bothways.

R.C. beam

Weight of water = 25 sft. x 5 x 62.1/2 = 7813

Weight of beam = 11 x 12 x 18 x 150 = 2475

Weight of masonry = 11 x 1.1/2 x 2.1/2 x 120 = 4950

do 11 x 1-1/2 x 3 x 120 = 4455

do 11/2 x 1-6 x 1-1/2 x 120 = 1114

Total 20,807

$$B.M. = \frac{20,807 \times 11 \times 12}{8} = 95 \text{ bd}^2$$

$$\therefore d^2 = \frac{20,807 \times 11 \times 12}{8 \times 95 \times 18} = 200.9$$

$$\therefore d = 14" \text{ say}$$

Cover 1.1/2" clear. Total depth 14 plus 1/4 plus 3/8 plus 1.1/2
= 16.1/2 say.

As .00675 x 18 x 14 = 1.7

Use 4 rods . 3/4" dr. or 7 rods 5/8" dr.

ESTIMATE FORM - ABSTRACT

Proposed New Water Storage Tank at
Sri Ramakrishna Mission Vidyalaya Gandhi Basic Training School

Perianaickenpalayam

Item No.	Quantity	Description of Work	rate per	Amount	Total
1.	500 cft.	Earthwork excavating foundations in black cotton and kakar soils and filling in	25-4-0	1000 cft. 13	✓
2.	100 cft	Concrete hard broken stone in cement mortar 1:5	88/-	100 cft 88	
3.	630 cft.	Random rubble in cement mortar 1:5	88-8-0	do 558	
4.	153 cft.	Reinforced concrete work in lintels and slabs	5-12-0	cft 880	
5.	340 cft.	Brickwork in cementmortar 1:4 with first class brick	158-4-0	100 cft 538	
6.	2 nos.	R.C.Ornamental ventilators	10/-	each 20	local rate
7.a.	320 sft.	Plastering with cement mortar 1/2" thick 1:4 mixed with water proof compound	10/-	100 sft. 32	
7.b.	370 sft.	Plastering with cement mortar 1/2" thick 1:4	9/-	100 sft. 33	
8.	3.9 cft.	Countrywood wrought and put up	10/- cft	39	
9.	180 sft.	Roofing with corrugated iron sheets	50/-	100 sft 90	
10.	1 no.	Providing an iron or wooden ladder and fixing the same in position including providing c.i.steps fixed in masonry to get down.	70/-	each 70	
11.	L.S.	Providing a hinged manhole opening in roof for inspection purposes	L.S.	39	
12.	L.S.	Providing flanged inlets and outlets pipe connection in floor and overflow and scour pipes with necessary valves.	L.S. 150/-		

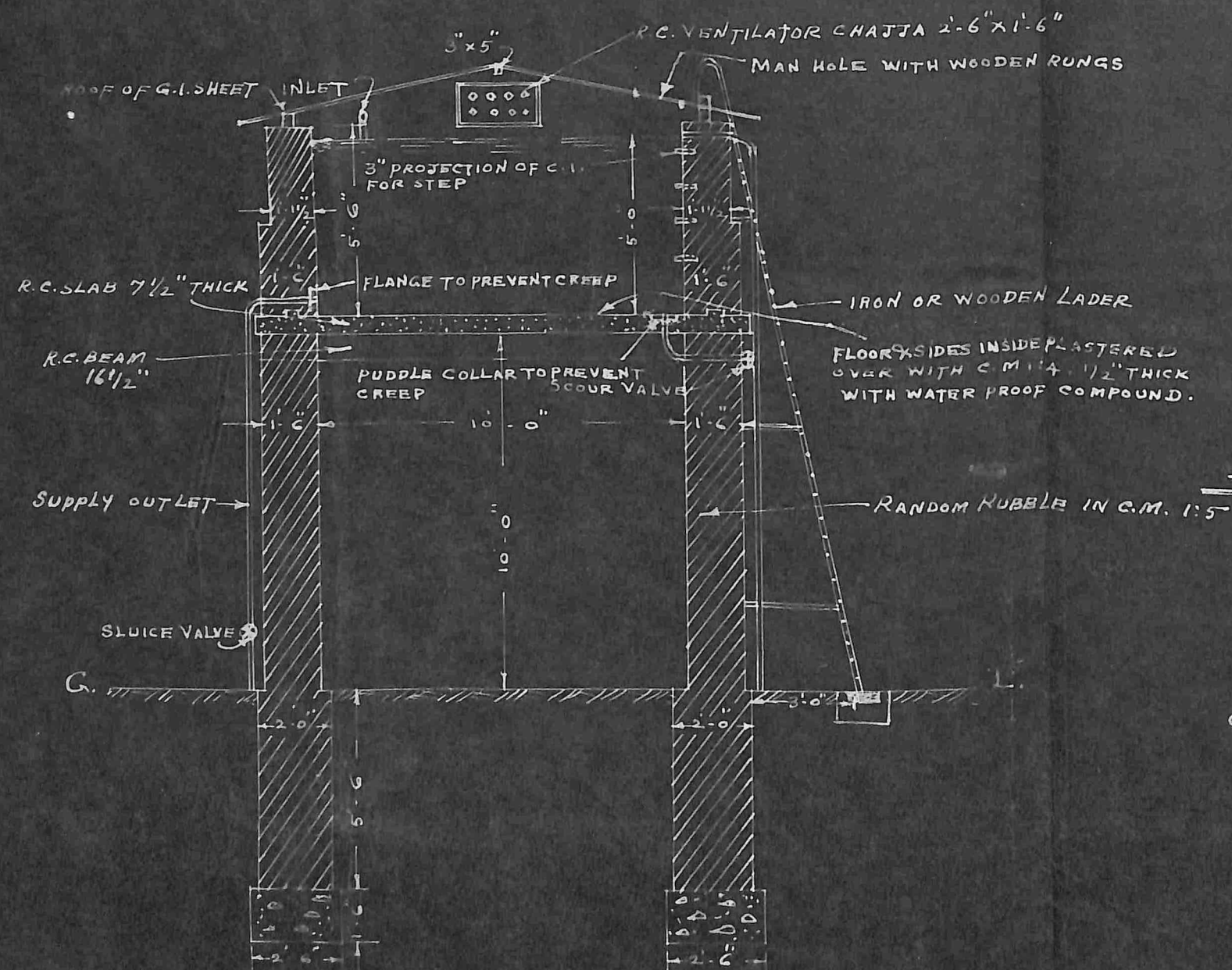
Total R. 2,550.

Sd.
Superintending Engineer
Coimbatore Circle. 3.1.1949

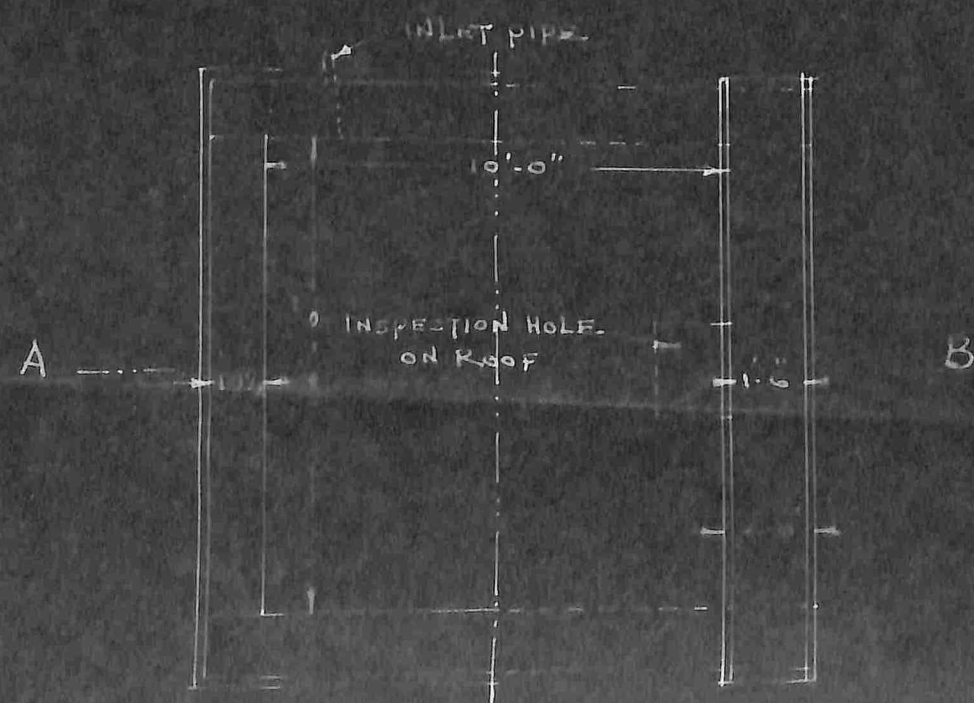
Total Estimate as per above R. 2,550-0-0

Contingencies and petty supervision about 5% R. 125-0-0

Grand total 2,675-0-0



SECTION ON AB



HALF PLAN AT ROOF & HALF PLAN AT FOUNDATIONS

PROPOSED NEW WATER STORAGE TANK

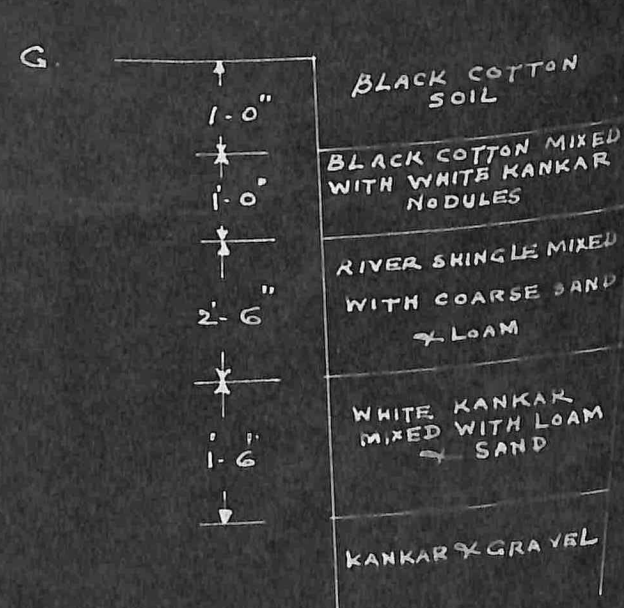
AT

RAMAKRISHNA VIDYALAYA - PERIANAICKENPALAYAM

CAPACITY = $10'-0" \times 10'-0" \times 5'-0" = 500 \text{ C.F.T.}$

OR 3125 GALLONS

Scale 1/50



TRIAL PIT AT SITE

(S.D.) GANENDAKRISHNA IYER
S.D.O.

SUPERINTENDING ENGINEER

COIMBATORE CIRCLE, COIMBATORE

10

b

Ed. H. Dept (B3)

Sub:- Basic Education - Basic Tg. school, Perianaickenpalayam
- Full grant for construction of a water storage over tank - Approved.

pic. r

Ref:- From the Correspondent, Sri. Ramakrishna Mission Gandhi Basic Tg. school, Perianaickenpalayam dated 9.1.49

Order No. Ns. 80 Edn. dated 26/1/49

The Govt. authorize the D. P. S. to pay a full grant not exceeding Rs. 2575 (Rupees two thousand ^{five} hundred and seventy five only) to the management of Sri. Ramakrishna Kidyalaya towards the construction of a water ~~the~~ storage over ^{head} tank in the Basic Tg. school at Perianaickenpalayam.

Depd
26/1/49

The expenditure will be met from the ~~large~~ lump sum appropriation under "37. Edu - I, Primary - Grants to local bodies for primary education A. Local bodies I & II in areas (1) Enclusing P.W.R - 7. Basic Education - Voted in the B. E. for 48-49.

To
The D. P. S.
The A. G. M. S. Puri
I. S. C.

21.1.49

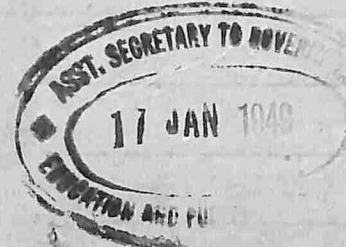
24/1/49

SPECIAL.

Secretary, E. & P.H.

This matter seems to be urgent. The people who are to be trained are getting along with great difficulty due to the want of putting up a proper tank. We may sanction it immediately. Of course, this may come from the lump allotment made for Basic Education.

H.M. Education.



E. & P. H. Dept. (B2)

Please see the letter from the Correspondent, Sri Ramakrishna Mission Gandhi Basic Training School, Perianaickenpalayam on p.1 c.f. and the note of H.M. (Edn.) above. The Correspondent states that the management of the school proposes to construct a water storage overhead tank at a total cost of Rs.2,575/- and requests that a full grant towards the cost of construction may be sanctioned immediately, as the execution of the work has to be completed before the end of the current financial year.

2. In G.O.No.1688-Edn., dated 26-7-47, the Govt. ordered that the management of the school ~~may~~ be retransferred to Sri Ramakrishna Mission and that a grant from provincial funds to cover the entire expenditure incurred on the school might be given, so long as the school trained candidates in Basic Education. Accordingly, the school has now been under the management of the Mission from 1-6-1948.

With reference to subsequent representations from the Mission the Govt. sanctioned a full grant towards the cost of construction of a store-room, a weaving shed and an additional building for providing additional accommodation in the school. Please see Memo No.59947-B2/47-7-Edn., dated 25-3-48 and G.O.No.1736-Edn., dated 12-7-48. In the circumstances, the present request for the payment of a full grant of Rs.2,575/- towards the cost of construction of a water storage overhead tank in the school may be complied with. It may be noted that the water storage tank

2
B2
has to be constructed before 31-3-49 and so orders have to be issued as early as possible.

A draft order is submitted below for approval. Finance may see before circulation.

SS.
21-1-49.

24/1/49 Finance

EdP.H.U.O. 230137/49-1
21.1.49

Finance (Exp A)



Please see the minute of H.M. Edu on p1 above and the note of EdP.H.U. on pp 1-2 above. The draft order may be accepted. ~~Nothing may see.~~

LAJ
24.1.49
25.1.49

25.1.49

EdP.H.U.
B2

25.1.49

Fun. W.O.
4324/EdA/49-1
25.1/49.

The file may be circulated to H.M. (EdU) after 5m.

25/1/49 S

25/1/49

H. (W) - a.c.

27.1.49

TSA
28.1.49

