

ESTIMATE FOR
**CONSTRUCTION OF CONCRETE WATER TANK
SUPPORT TOWER AT MR/DICKWELLA METHODIST
SAUBHAGYA PRIMARY SCHOOL**

PRESENTED BY

District Engineer's (Buildings) office, Matara

Estimate Ref. No: 2480

**CONSTRUCTION OF CONCRETE WATER TANK SUPPORT TOWER AT MR/DICKWELLA METHODIST
SAUBHAGYA PRIMARY SCHOOL**

Item	Description	Amount (LKR)	Total (LKR)
1	Estimated Amount As per Attached B.O.Q	1,729,415.94	
2	VAT 18.00%	311,294.87	2,040,710.81
3	Consultant fees 3.00%	51,882.48	
4	Contingencies 10.00%	172,941.59	
5	Price Escalation 1.50%	25,941.24	250,765.31
TOTAL		(LKR)	2,291,476.12

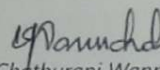
This estimate was prepared on the instruction of District Engineer (Buildings) and the rate prevailing in 2025 First Half - 2025/01/05.

All work necessary have been provided in this estimates. The Quantities and rates were checked and found correct.

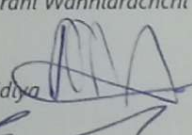
Approved/Recommended

Divisional Engineer (Buildings)

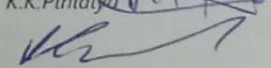
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Pallimulla, Matara.

Approved

Chief Engineer (S.B/O.B)

Director of Buildings

Deputy Chief Secretary (Eng. Ser.)

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**CONSTRUCTION OF CONCRETE WATER TANK SUPPORT TOWER AT MR/DICKWELLA METHODIST
SAUBHAGYA PRIMARY SCHOOL**

ID	RS	Description	Unit	Qty.	Rate	Amount
Up to DPC level						
		<u>Demolisher</u>				
1	Dm03	Demolishing existing wall foundation upto DPC level by machine & filling trenches with available earth on site & level to existing ground level & Clearing debris. (Transport within 01 km from site)	cu.m	4.00	596.00	2,384.00
2	Dm12	Demolishing Cement concrete floor , and clearing debris in away from site (3" thick)	cu.m	1.00	6,142.00	6,142.00
		<i>Total carried to summary</i>				8,526.00
		<u>Earth Work</u>				
3	Ew08	Excavation by machine for foundation in any material except, requing blasting , part return fill in and ram, and depositing surplus within site as directed	cu.m	20.50	853.00	17,486.50
4	Ew10	Filling under floors with gravel or other approved quality of filling, spread, water and well compacted using vaccur (rammer) in 9"layers with available earth	cu.m	5.00	1,397.00	6,985.00
		<i>Total carried to summary</i>				24,471.50
		<u>Concretor</u>				
5	Ct01	Cement concrete 1:3:6 (1") up to 3.00 m3(Shuttering paid separately) incl: curing(Grade 15)	cu.m	1.00	31,722.00	31,722.00
6	Ct54	Cement Concrete 1 : 1 1/2 : 3 (3/4") (R/F and Shuttering paid separately) (GRADE 25)incl: mixer vibrater and curing	cu.m	3.75	29,298.00	109,867.50
		<i>Total carried to summary</i>				141,589.50
		<u>Reinforcement</u>				
7	Rf01	10mm Dia. Tor steel reinforcement for column footing Up to DPC	kg	132.00	435.00	57,420.00
8	Rf01	16mm Dia. Tor steel reinforcement for columns Up to DPC	kg	56.00	435.00	24,360.00
9	Rf01	12mm Dia. Tor steel reinforcement for plinth beam Up to DPC	kg	36.00	435.00	15,660.00
10	Rf11	6mm dia Mild steel reinforcement for plinth beams & columns Up to DPC	kg	22.00	381.00	8,382.00
		<i>Total carried to summary</i>				105,822.00
		<u>R R Masonry</u>				

ID	RS	Description	Unit	Qty.	Rate	Amount
11	Rr02	Random Rubble Masonry in cement mortar 1:5 in substructure (6"- 9" rubble)	cu.m	1.25	25,485.00	31,856.25
		Total carried to summary				31,856.25
		Form work				
12	Fw02	Form work for plinth beam by using 15mm thick plywood sheets. Plywood board should be fixed to timber frame with 2"x2" timber vertically at 600mm c/c and 50x50mm timber horizontally at top and bottom. Prepared shuttering board should be fixing to required measurements by using wooden props. (2/16'-0"x1'-6"=48.00ft2) (As per detail Drawing No SPES/Rate 23/Fw-02)	sq.m	4.00	1,761.00	7,044.00
13	Fw04	Sawn timber (class II) formwork for sides of foundation footings.	sq.m	4.25	1,850.00	7,862.50
14	Fw11	Shuttering for column shaft 300 x300mm including 2mm iron plate and 25mm x 25mmx3mm angle iron welded to bended plate horizontally at 300mm c/c. Rate to include U clips, acro jacks and dismantling same when required (Rate to include 100mm high 3mm thick sponge layer stick on around concrete column at every lapping face) (As per detail Drawing No SPES/Rate 23/Fw-09) -Ground floor	sq.m	1.75	1,648.00	2,884.00
		Total carried to summary				17,790.50

Ground floor

		Brick Work				
15	Bk06	Brickwork 112mm in cement : sand mortar 1:5 (Ground Floor)	sq.m	20.50	3,743.00	76,731.50
		Total carried to summary				76,731.50
		Concretor				
16	Ct55	Cement concrete 1 : 1 1/2 : 3 (3/4") in column shafts in ground floor, using mixer and vibrator. (Reinforcement, shuttering and finishes paid separately). (GRADE 25).including curing	cu.m	1.25	29,579.00	36,973.75
17	Ct56	Cement concrete 1: 1 1/2: 3(3/4") in beams in ground floor, using mixer and vibrator. Incl. curing (Reinforcement, shuttering and finishes paid separately).(GRADE 25).	cu.m	0.50	30,901.00	15,450.50
18	Ct59	R.C.C. 1: 1 1/2: 3(3/4") in 5" thick slab in ground floor, using mixer and vibrator. Incl. curing (Reinforcement and shuttering paid separately).(GRADE 25).	cu.m	1.00	30,659.00	30,659.00
19	Ct36	Cement concrete 1:2:4(3/4") (Gr.20 concrete) (R/F and Shuttering paid separately)incl: curing(manual mixing up to 3m3)	cu.m	0.20	31,949.00	6,389.80
20	Ct43	Lintel, cement concrete 1:2:4(3/4") (Gr. 20) 4 1/2" x 6" (Reinforcement paid separately) Rate including shuttering & curing	m	2.50	2,467.00	6,167.50

ID	RS	Description	Unit	Qty.	Rate	Amount
21	Ct10	Cement concrete 1:2 1/2:5(1")mix: above 3.0 m3 (Shuttering paid separately) incl: curing. Using mixture.	cu.m	0.50	23,820.00	11,910.00
22	Ct53	Concreting valve chamber 9"x 9" x 9" (internally) with 1:2:4(3/4) ct. Con. Mixture 3" thick, plastered with 1:2, 1/2" thick ct. mortar, finished smooth with neat ct. floating.. Including 2" thick cover slab R/F with 6 mm dia. M.S. @ 4" c/c. both ways	nr	2.00	2,316.00	4,632.00
		Total carried to summary				112,182.55
		Reinforcement				
23	Rf02	16mm & 12mm dia Tor steel reinforcement for columns & beams in Ground floor	kg	142.50	476.00	67,830.00
24	Rf02	10mm Dia. Tor steel reinforcement for slab, lintel, stiffener & window sill in Ground floor	kg	165.00	476.00	78,540.00
25	Rf12	6mm dia Mild steel reinforcement for columns, stiffener & lintel in Ground floor	kg	56.00	406.00	22,736.00
26	Rf07	10mm dia Mild steel reinforcement for beams in Ground floor	kg	34.00	476.00	16,184.00
		Total carried to summary				185,290.00
		Plasterer				
27	PI01	Cement Sand plastering to wall 1:5, (5/8") thick semi rough G: floor rate to include curing	sq.m	28.50	1,236.00	35,226.00
28	PI01	Cement Sand plastering to wall 1:5, (5/8") thick semi rough G: floor rate to include curing	sq.m	25.00	1,236.00	30,900.00
29	PI02	3/8 " Thick plastering to RCC beams, slab soffit, column in cement and sand 1:3 (G: Floor)	sq.m	8.00	1,651.00	13,208.00
30	PI14	Reveals exceeding 100 mm, but not exceeding 200 mm wde with 1:5 ct: sand mortar 16.0 mm thick finished semi rough. (Ground floor)	m	7.00	675.00	4,725.00
31	PI11	Skirting in Cement mortar 1:3, 1/2" X 4" projected or flush to wall finish with floating including forming groove. (G: floor)	m	0.80	391.00	312.80
32	PI09	3/4" thk Rendering in Cement and sand 1:3 in floors finished smooth Rate to include curing, - plinth plaster	sq.m	2.00	1,938.00	3,876.00
33	PI19	Cement copping in 1:4 Cement, Sand mortar 1" x 3/4 on underside of concrete slab, for prevent the rain Water flowing (Ground floor).(Wahi kenda)	m	12.00	531.00	6,372.00
34	PI06	1/2" thk 1:3 Cement Rendering finished smooth with neat cement floating, Ground floor(sand to be sieved with 1/8" nets) Rate to include curing	sq.m	3.25	1,399.00	4,546.75
35	PI20	3/4" thick in cement,sand 1:3 with Water proofing compound(10% by weight of cement)as super latex-302 or equivalent finished smooth with cement floating	sq.m	9.00	4,938.00	44,442.00
		Total carried to summary				143,608.55

ID	RS	Description	Unit	Qty.	Rate	Amount
Electrical						
36	EI018	Supply and fixing 01 No. Pendent type lamp(12W LED Bulb - efficacy:85 lumen/W or above with two years warranty) with GANG switch Complete with necessary concealed conduit wiring as per working order.(Switch - ACL/Chint/Krypton/Orange) (Cable - ACL/Kelani/Orange/Sierra) (fittings - krypton/Polycrome/Orange) (Conduit - krypton/Polycrome)(Bulb - Orange electric ECO LITE/ ZENOI / Kelani) [Cable SLS 733, Switch SLS 1000 Bulb SLS 984]	nr	2.00	6,859.00	13,718.00
37	EI064	Supplying and fixing (7/0.67)(Cu/PVC/PVC) (Twin) P.V.C (Cu) Sub Main Wire (2.5 mm2) [(Cable - ACL/Kelani/Orange/Sierra) Cable SLS 733]	m	10.00	482.00	4,820.00
		Total carried to summary				18,538.00
Carpenter & Joiner						
38	Cp22	Doors panelled with 4"x3" frames and 1 1/8" - 1 1/4" sashes in Jack timber fixed complete with new furniture (3 nrs 5"x3" Butt hinges, 01 nr 12" skelton bolt, 01 nr 6" barrel bolt, Union Mortice lock made in England (5 years warranty)) Rate to include one coat of primer & two coats of enamel paint. - Single hung door. Draw No/SPES/Rates23/Cp-21	sq.m	1.50	56,331.00	84,496.50
39	Cp49	Window fully Panneld 1425 x 1200mm overall with "Jack timber" 100x75mm frame comprising, 1nr 94 x 69mm mullions, 2 nr open able sash (25mm thk), including 13/4" to 11/2" window ring, 10" casement stay, casement fastener, 4"x2" butt hinges...etc Rate to include apply one coat of primer and two coats of enamel paint. (3 / 622x1072mm) (approved quality brass fittings) Draw No/SPES/Rates23/Cp-48	sq.m	0.36	62,324.00	22,436.64
		Total carried to summary				106,933.14
Painter & Decorator						
40	Pt28	Painting walls with one coats of wall filler (internal)(new work or after preparation of old wall)	sq.m	30.00	213.00	6,390.00
41	Pt37	Prepare and Painting New walls with two coats of emulsion paint to internal wall (Using roller brush)	sq.m	30.00	588.00	17,640.00
42	Pt29	Painting walls with one coats of Acrylic wall filler for external wall (new work or after preparation of old wall) -Ground floor	sq.m	34.00	233.00	7,922.00
43	Pt44	Wethershield paint to external faces of wall 02coat apply using roller brush, 2" brush (ground Floor)	sq.m	34.00	595.00	20,230.00
		Total carried to summary				52,182.00
Form work						

ID	RS	Description	Unit	Qty.	Rate	Amount
44	Fw11	Shuttering for column shaft 300 x300mm including 2mm iron plate and 25mm x 25mmx3mm angle iron welded to bended plate horizontally at 300mm c/c. Rate to include U clips,acro jacks.and dismantling same when required(Rate to include 100mm high 3mm thick sponge layer stick on around concrete column at every lapping face)(As per detail Drawing No SPES/Rate 23/Fw-09) -Ground floor	sq.m	15.25	1,648.00	25,132.00
45	Fw19	Shuttering for beam sides & soffit in 15 mm thk plywood sheets ,Class (II) timber, joists and necessary props 450mm c/c etc. (Rate to include dismantling same when required) ground floor	sq.m	4.75	4,157.00	19,745.75
46	Fw12	Shuttering for floor slab concrete including 15 mm plywood sheets, 4" x 2" Class (II) timber joists and necessary props. up to 12'-00" height. (Rate to include dismantling same when required). Ground floor	sq.m	7.00	3,483.00	24,381.00
47	Fw13	Shuttering for floor slab side boards by using 1" (25mm) thick class 11 timber planks and 50x25mm timber reepers as joist at 1200mm c/c.(Rate to include for dismantling same when required) Ground floor	sq.m	1.50	3,125.00	4,687.50
48	Fw18	Shuttering for 0'-4 1/2"x0'-9"concrete stiffener including Class (II) timber planks and joists necessary props. (Rate to include dismantling same when required).	sq.m	1.00	2,374.00	2,374.00
49	Fw17	Shuttering for 4 1/2"X 3"concrete coping using Class (II) timber planks (Rate to include dismantling same when required).for both sides	m	0.75	507.00	380.25
		Total carried to summary				76,700.50

First Floor

		Brick Work				
50	Bk06a	Brickwork 112mm in cement : sand mortar 1:5 (First Floor).	sq.m	5.50	3,930.00	21,615.00
		Total carried to summary				21,615.00
		Concretor				
51	Ct56a	Cement concrete 1: 1 1/2: 3(3/4") in beams in first floor , using mixer and vibrator. (Reinforcement, shuttering and finishes paid separately). (GRADE 25).including curing	cu.m	0.50	31,828.00	15,914.00
52	Ct59a	R.C.C. 1: 1 1/2: 3(3/4") in 5" thick slab in first floor, using mixer and vibrator. Incl. curing (Reinforcement and shuttering paid separately).(GRADE 25).	cu.m	1.00	31,579.00	31,579.00
53	Ct55a	Cement concrete 1 : 1 1/2 : 3 (3/4") in column shafts in first floor, using mixer and vibrator. (Reinforcement, shuttering and finishes paid separately). (GRADE 25)including curing	cu.m	1.20	30,466.00	36,559.20
		Total carried to summary				84,052.20
		Reinforcement				

11:48 AM

ID	RS	Description	Unit	Qty.	Rate	Amount
54	Rf03	16mm & 12mm dia Tor steel reinforcement for columns & beams in 1st floor	kg	142.50	488.00	69,540.00
55	Rf03	10mm Dia. Tor steel reinforcement for slab in 1st floor	kg	156.00	488.00	76,128.00
56	Rf08	10mm Dia. Mild steel reinforcement for beams in 1st floor	kg	34.00	488.00	16,592.00
57	Rf13	6mm Dia. Mild steel reinforcement for columns in 1st floor	kg	19.50	416.00	- 8,112.00
		Total carried to summary				170,372.00
		Plasterer				
58	PI01a	Cement Sand plastering to wall 1:5, (5/8") thick semi rough 1st floor. rate to include curing	sq.m	12.25	1,298.00	15,900.50
59	PI02a	3/8" Thick plastering to RCC beams, slab soffit, column in cement and sand 1:3 1st floor.	sq.m	30.00	1,733.00	51,990.00
60	PI19	Cement copping in 1:4 Cement, Sand mortar 1" x 3/4 on underside of concrete slab, for prevent the rain Water flowing (Ground floor). (Wahi kenda)	m	12.00	531.00	6,372.00
61	PI20	3/4" thick in cement, sand 1:3 with Water proofing compound (10% by weight of cement) as super latex-302 or equivalent finished smooth with cement floating	sq.m	9.00	4,938.00	44,442.00
		Total carried to summary				118,704.50
		Painter & Decorator				
62	Pt29a	Painting walls with one coats of Acrylic wall filler for external wall (new work or after preparation of old wall) - 1st floor	sq.m	42.25	240.00	10,140.00
63	Pt44a	Wethershield paint to external faces of wall 02coat apply using roller brush 2" brush (First Floor)	sq.m	42.25	613.00	25,899.25
		Total carried to summary				36,039.25
		Form work				
64	Fw11a	Shuttering for column shaft 300 x 300mm including 2mm iron plate and 25mm x 25mm x 3mm angle iron welded to bended plate horizontally at 300mm c/c. Rate to include U clips, acro jacks and dismantling same when required (Rate to include 100mm high 3mm thick sponge layer stick on around concrete column at every lapping face) (As per detail Drawing No SPES/Rate 23/Fw-09)-First floor	sq.m	15.25	1,681.00	25,635.25
65	Fw19a	Shuttering for beam sides & soffit in 15 mm thk plywood sheets Class (II) timber, joists and necessary props etc. (Rate to include for dismantling same when required) 1st floor	sq.m	4.25	4,241.00	18,024.25
66	Fw12a	Shuttering for floor slab concrete including 15 mm plywood sheets, 4" x 2" Class (II) timber joists and necessary props up to 12' 0" height (Rate to include for dismantling same when required) 1st floor	sq.m	7.00	3,552.00	24,864.00

ID	RS	Description	Unit	Qty.	Rate	Amount
67	Fw13a	Shuttering for floor slab side boards by using 1" (25mm) thick class 11 timber planks and 50x25mm timber reepers as joist at 1200mm c/c.(Rate to include for dismantling same when required) 1st floor	sq.m	1.50	3,188.00	4,782.00
		Total carried to summary				73,305.50

Second floor

Brick Work

68	Bk06b	Brickwork 112mm in cement : sand mortar 1:5 (Second Floor).	sq.m	7.00	4,005.00	28,035.00
		Total carried to summary				28,035.00

Plasterer

69	Pl01b	Cement Sand plastering to wall 1:5, (5/8") thick semi rough 2nd floor rate to include curing	sq.m	15.50	1,360.00	21,080.00
		Total carried to summary				21,080.00

Painter & Decorator

70	Pt29b	Painting walls with one coats of Acrylic wall filler for external wall (new work or after preparation of old wall) -2nd floor	sq.m	15.50	246.00	3,813.00
71	Pt44b	Wethershield paint to external faces of wall 02coat apply using roller brush, 2" brush(Second Floor)	sq.m	15.50	631.00	9,780.50
		Total carried to summary				13,593.50

Plumber

72	Pb48	Supplying and fixing Pipes P. V. C. 1" - PNT 7 rate to include socket & joints and also include excavating backfilling or breaking wall or floor upto required depth	m	20.00	321.00	6,420.00
73	Pb46	Supplying and fixing Pipes P. V. C. 1/2" - PNT 14 rate to include socket & joints and also include excavating backfilling or breaking wall or floor upto required depth	m	15.00	615.00	9,225.00
74	Pb50	Supplying and fixing Pipes P. V. C. 1 1/2" - 600 Type PNT 7 rate to include socket & joints and also include excavating backfilling or breaking wall or floor upto required depth	m	20.00	814.00	16,280.00
75	Pb51	Supplying and fixing Pipes P. V. C. 2" - 600 Type PNT 7 rate to include socket & joints and also include excavating backfilling or breaking wall or floor upto required depth	m	5.00	1,150.00	5,750.00
76	Pb75	Supplying and fixing Stop valve, Plastic 1/2" . "S-Ion"/"Water Tec"	nr	4.00	1,260.00	5,040.00
77	Pb80	Supplying and fixing Stop valve, Plastic 2" "S-Ion /Water Tec"	nr	1.00	3,600.00	3,600.00
78	Pb79	Supplying and fixing stop valve, Plastic 1 1/2" . "S-Ion /Water Tec"	nr	4.00	3,060.00	12,240.00
79	Pb77	Supplying and fixing Stop valve, Plastic 1" . "S-Ion /Water Tec"	nr	1.00	1,842.00	1,842.00

ID	RS	Description	Unit	Qty.	Rate	Amount
		Total carried to summary				60,397.00

**CONSTRUCTION OF CONCRETE WATER TANK SUPPORT TOWER AT MR/DICKWELLA METHODIST
SAUBHAGYA PRIMARY SCHOOL**

Rate Schedule	Amount
Up to DPC level	
Demolisher	8,526.00
Earth Work	24,471.50
Concretor	141,589.50
Reinforcement	105,822.00
R R Masonry	31,856.25
Form work	17,790.50
Ground floor	
Brick Work	76,731.50
Concretor	112,182.55
Reinforcement	185,290.00
Plasterer	143,608.55
Electrical	18,538.00
Carpenter & Joiner	106,933.14
Painter & Decorator	52,182.00
Form work	76,700.50
First Floor	
Brick Work	21,615.00
Concretor	84,052.20
Reinforcement	170,372.00
Plasterer	118,704.50
Painter & Decorator	36,039.25
Form work	73,305.50
Second floor	
Brick Work	28,035.00
Plasterer	21,080.00
Painter & Decorator	13,593.50
Plumber	60,397.00
Total	1,729,415.94