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ESTIMATE FOR
**RENOVATION OF RETAINING WALL AT MR/WEHALLA
K.V**

PRESENTED BY

District Engineer's (Buildings) office, Matara

Estimate Ref. No: 2483

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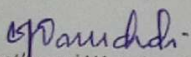
RENOVATION OF RETAINING WALL AT MR/WEHALLA K.V

Item	Description	Amount (LKR)	Total (LKR)
1	Estimated Amount As per Attached B.O.Q	2,306,918.34	
2	VAT 18.00%	415,245.30	2,722,163.64
3	Consultant fees 3.00%	69,207.55	
4	Contingencies 10.00%	230,691.83	
5	Price Escalation 2.00%	46,138.37	346,037.75
TOTAL		(LKR)	3,068,201.39

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

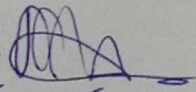
All work necessary have been provided in this estimates. The Quantities and rates were checked and found correct.

Prepared by
(S.I.W)


Chathurani Wanniarachchi

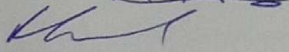
Checked by
(I.W)

K.K.Pinidiya



Checked by
(EA)

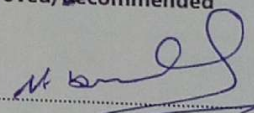
Manoja Gulawita



Approved/Recommended

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Divisional Engineer (Buildings)

Approved/Recommended


District Engineer (Buildings)
Mathara

04/04/2025
Eng. V.K.K. Juwanabadu
District Engineer (Buildings)
District Engineer (Buildings) Office

Approved Pallimulla, Matara.

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Chief Engineer (S.B/O.B)
Director of Buildings
Deputy Chief Secretary (Eng. Ser.)

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RENOVATION OF RETAINING WALL AT MR/WEHALLA K.V

ID	RS	Description	Unit	Qty.	Rate	Amount
Extension of retaining wall						
		Earth Work				
1	Ew08	Excavation by machine for foundation in any material except requiring blasting , part return fill in and ram, and depositing surplus within site as directed	cu.m	2.75	853.00	2,345.75
2	Ew25	Supplying and placing 110 mm U.P.V.C pipe(Type 250) in retaining walls as required	m	1.30	1,226.00	1,593.80
3	Ew24	Supplying, laying of 25 mm - 200 mm dry stone (for retaining wall)	cu.m	0.78	6,759.00	5,272.02
4	Ew26	Supplying and laying Geo-textile material 2.5 mm thick Including preparing surface as per instruction	sq.m	3.00	899.00	2,697.00
5	Ew27	Supplying and placing the 25 mm thick regifoam through the retaining wall joints.	sq.m	1.50	762.00	1,143.00
6	Ew16	Backfilling and compacting to behind of retaining wall with suitable quality earth including loading & transport within 1km using rammer.	cu.m	3.50	3,313.00	11,595.50
		Total carried to summary				24,647.07
		Concretor				
7	Ct01	Cement concrete 1:3:6 (1") up to 3.00 m3(Shuttering paid separately) incl: curing(Grade 15)	cu.m	1.25	31,722.00	39,652.50
8	Ct08	Plums concrete -1:3:6(1") concrete above 3.0 m3 with 20% volume of 4" x 6" Rubble. (shuttering paid separately) Rate to include vibrator, pilling of plumbs & curing.	cu.m	3.00	18,703.00	56,109.00
		Total carried to summary				95,761.50
		Plasterer				
9	Pl06	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 -retaining wall	sq.m	3.00	1,399.00	4,197.00
		Total carried to summary				4,197.00
		Form work				

ID	RS	Description	Unit	Qty.	Rate	Amount
10	Fw01	Shuttering for plum concrete by using 15mm thick plywood sheets. Plywood board should be fixed to timber frame with 4"x2" timber vertically at 600mm c/c and 50x50mm timber horizontally at 600mm c/c. Prepared shuttering board should be fixed to required measurements by using 8nr G.I. pipes, (2nr pipes at bottom, 2nr pipes on top for both sides) 10nr Acro jacks, 10mm dia: thread bars, 1" P cone and form ties at 1200mm c/c horizontally (minium 2 layers for a board). (Rate to include 100mm high 3mm thick sponge layer stick on one side to concrete wall at every lapping face, 1/2" dia: conduit for covering thread bars, mould oil, and dismantling same when required.) (2/16'-0"x9'-6"=304.00 ft2)(As per detail Drawing No SPES/Rate 23/Fw-01)Assure smooth surface finish used plywood sheet	sq.m	10.21	1,197.00	12,221.37
11	Fw04	Sawn timber (class II) formwork for sides of foundation footings.	sq.m	1.50	1,850.00	2,775.00
		Total carried to summary				14,996.37

Renovation of boundary wall & entrance staircase

		Demolisher				
12	Dm08	Demolishing brickwork in cement clearing debris away from site	cu.m	5.00	1,935.00	9,675.00
13	Dm05	Demolishing rubble masonry in cement, stacking rubble and clearing debris away from site	cu.m	2.82	3,845.00	10,842.90
14	Dm44	Removing and stacking gate sash after demolishing cement concrete blocks or removing posts and separating pintle (Demolishing brickwork where necessary paid for separately).	nr	1.00	1,740.00	1,740.00
		Total carried to summary				22,257.90
		Earth Work				
15	Ew02	Earth cutting by machine & push within 100 m from site rate to include operator & helper)	cu.m	6.00	262.00	1,572.00
16	Ew08	Excavation by machine for foundation in any material except requiring blasting , part return fill in and ram, and depositing surplus within site as directed	cu.m	3.00	853.00	2,559.00
17	Ew15	Backfilling and compacting to behind of retaining wall with available suitable quality earth using rammer.	cu.m	3.00	1,705.00	5,115.00
18	Ew24	Supplying, laying of 25 mm—200 mm dry stone (for retaining wall)	cu.m	0.75	6,759.00	5,069.25
19	Ew25	Supplying and placing 110 mm U.P.V.C pipe(Type 250) in retaining walls as required	m	1.50	1,226.00	1,839.00
20	Ew26	Supplying and laying Geo-textile material 2.5 mm thick Including preparing surface as per instruction	sq.m	4.00	899.00	3,596.00
21	Ew27	Supplying and placing the 25 mm thick regifoam through the retaining wall joints.	sq.m	2.50	762.00	1,905.00

ID	RS	Description	Unit	Qty.	Rate	Amount
		Total carried to summary				21,655.25
		Brick Work				
22	Bk06	Brickwork 112mm in cement : sand mortar 1:5 (Ground Floor)	sq.m	32.00	3,743.00	119,776.00
23	Bk15	Manhole 1'-6"x 1'-6"x 1'-3" (internally) concreting base 4" thick & channels with 1:2:4 (3/4") ct. concrete including 2" thick, concrete screed with 1:3:6 (1") con. mixture. 4" concrete wall with 1:2:4 (3/4") con. mixture . Internally Plastered with 1:3, 3/4" thick ct. mortar with water proofing compound 10% (by cement) weight of cement as super latex 302 or equivalent finished smooth with neat ct. floating including channels & Pad plaster 1:3, 1/2" thick finished smooth with cement floating,shall be water tight. Rate to include for concrete cover slab 3" thick with 1:2:4 (3/4") con. mixture r/f with 10 mm dia. T.S rods @ 6" c/s. both ways, with 2 nos lifting handles. (as per detail Draw No.SPES/Rate23/Bk-15.) for rain water outlets	nr	2.00	19,366.00	38,732.00
		Total carried to summary				158,508.00
		Concretor				
24	Ct01	Cement concrete 1:3:6 (1") up to 3.00 m3(Shuttering paid separately) incl: curing(Grade 15)	cu.m	2.00	31,722.00	63,444.00
25	Ct08	Plums concrete -1:3:6(1") concrete above 3.0 m3 with 20% volume of 4" x 6" Rubble. (shuttering paid separately) Rate to include vibrator, pilling of plumbs & curing.	cu.m	6.00	18,703.00	112,218.00
26	Ct54	Cement Concrete 1 : 1 1/2 : 3 (3/4") (R/F and Shuttering paid separately) (GRADE 25)incl: mixer vibrater and curing -Plinth beam	cu.m	3.00	29,298.00	87,894.00
27	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
28	Ct36	Cement concrete 1:2:4(3/4") (Gr.20 concrete) (R/F and Shuttering paid separately)incl: curing(manual mixing up to 3m3)-for coping & steps	cu.m	1.75	31,949.00	55,910.75
		Total carried to summary				356,440.50
		Reinforcement				
29	Rf02	10mm,12mm Dia. Tor steel Reinforcement for plinth beam, coping & columns in boundary wall	kg	327.00	476.00	155,652.00
30	Rf12	6mm Dia. mild steel reinforcement for plinth beam , coping & columns in boundary wall - Ground floor	kg	90.50	406.00	36,743.00
		Total carried to summary				192,395.00
		Plasterer				

ID	RS	Description	Unit	Qty.	Rate	Amount
31	PI01	Cement Sand plastering to wall 1:5, (5/8") thick semi rough G: floor rate to include curing	sq.m	64.00	1,236.00	79,104.00
32	PI02	3/8 " Thick plastering to RCC beams, slab soffit , column in cement and sand 1:3 (G: Floor)	sq.m	15.00	1,651.00	24,765.00
33	PI09	3/4" thk Rendering in Cement and sand 1:3 in floors finished smooth Rate to include curing, - Ground floor - plinth plaster	sq.m	22.50	1,938.00	43,605.00
34	PI16	1:3 Rendering cement ,1" thick cement coping finish smooth with neat cement floating (in Ground Floor)	sq.m	8.00	1,902.00	15,216.00
35	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 -steps	sq.m	7.00	1,399.00	9,793.00
		Total carried to summary				172,483.00
		Iron Monger				
36	IR-SSR-286	Supplying making and fixing (4.32mx1.8m+0.95x1.8=9.48m2) GI Box bar Double hung main gate with 50x25 mm GI box bar (2mm) Outer frame 25x25mm GI box bar (2mm)87mm c/c vertically. One number gate sash fixed to column using 03 number pintels haps & staple with 50mm brass pad lock and hook. Rate to include applying one coat of metal primer & two coats of approved quality enamel paint. All complete according to the detail drawing and instruction.	m2	4.00	16,314.00	65,256.00
		Total carried to summary				65,256.00
		Painter & Decorator				
37	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	79.00	233.00	18,407.00
38	Pt44	Weathershield paint to external faces of wall 02coat apply using roller brush & 2" brush (ground Floor)	sq.m	79.00	595.00	47,005.00
39	Pt48	Painting coping with floor paint, 2 coats including preparing surface	sq.m	8.00	826.00	6,608.00
		Total carried to summary				72,020.00
		Form work				

ID	RS	Description	Unit	Qty.	Rate	Amount
40	Fw01	Shuttering for plum concrete by using 15mm thick plywood sheets. Flywood board should be fixed to timber frame with 4"x2" timber vertically at 600mm c/c and 50x50mm timber horizontally at 600mm c/c. Prepared shuttering board should be fixed to required measurements by using 8nr G.I. pipes, (2nr pipes at bottom, 2nr pipes on top for both sides) 10nr Acro jacks, 10mm dia: thread bars, 1" P cone and form ties at 1200mm c/c horizontally (minium 2 layers for a board). (Rate to include 100mm high 3mm thick sponge layer stick on one side to concrete wall at every lapping face, 1/2" dia: conduit for covering thread bars, mould oil, and dismantling same when required.) (2/16'-0"x9'-6"=304.00 ft2)(As per detail Drawing No SPES/Rate 23/Fw-01)Assure smooth surface finish used plywood sheet	sq.m	18.00	1,197.00	21,546.00
41	Fw04	Sawn timber (class II) formwork for sides of foundation footings. -retaining wall	sq.m	2.50	1,850.00	4,625.00
42	Fw02	Form work for plinth beam by using 15mm thick plywood sheets. Flywood 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"=48.00 ft2)(As per detail Drawing No SPES/Rate 23/Fw-02)	sq.m	19.00	1,761.00	33,459.00
43	Fw09	Shuttering for column shaft 225x225mm including 2mm iron plate and 25mm x 25mm x3mm 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	15.50	2,143.00	33,216.50
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	4.00	1,648.00	6,592.00
45	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	34.00	507.00	17,238.00
		Total carried to summary				116,676.50

Construction of part of boundary wall around the ground

		Earth Work				
46	Ew02	Earth cutting by machine & push within 100 m from site rate to include operator & helper)	cu.m	64.00	262.00	16,768.00

ID	RS	Description	Unit	Qty.	Rate	Amount
47	Ew07	Excavation for foundation by manually in any material except rock requiring blasting, part return fill in and ram, and disposing surplus within site as directed. (not exceeding 5ft depth)	cu.m	7.00	2,010.00	14,070.00
		Total carried to summary				30,838.00
		Concretor				
48	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
49	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	1.00	29,579.00	29,579.00
		Total carried to summary				61,301.00
		Reinforcement				
50	Rf11	6mm Dia. mild Steel reinforcement for column Up to DPC	kg	24.00	381.00	9,144.00
51	Rf02	12, 10mm Dia. Tor steel reinforcement for column & copping in Ground floor	kg	156.00	476.00	74,256.00
		Total carried to summary				83,400.00
		R R Masonry				
52	Rr02	Random Rubble Masonry in cement mortar 1:5 in substructure (6"- 9" rubble)	cu.m	7.25	25,485.00	184,766.2
		Total carried to summary				184,766.2
		Plasterer				
53	PI01	Cement Sand plastering to wall 1:5, (5/8") thick semi rough G: floor rate to include curing	sq.m	20.00	1,236.00	24,720.0
54	PI09	3/4" thk Rendering in Cement and sand 1:3 in floors finished smooth Rate to include curing, - Ground floor- plinth plaster	sq.m	20.00	1,938.00	38,760.0
		Total carried to summary				63,480.0
		Iron Monger				

ID	RS	Description	Unit	Qty.	Rate	Amount
55	Ir30	Supplying and fixing 50 x 50 P.V.C coated 1.80m height wire mesh (mascon, S lon or equivalent)(Gage 10) consisting 50 mm dia. Heavy quality GI pipe ,upright planting at 2400 C/C with 1:2:4 (20) Con: & 3 nrs 25mm dia. Heavy quality GI pipe horizontally welded to upright post at top middle and bottom, Gage 10 wire mesh fixed to frame with 12x6mm thk "flat iron " weld to frame 600mm C/C welding point , and including one coat of red colour anticorrosive paint, and two coats of enamel paints(different colour). rate to include use P.V.C. wire cord and 50 mm dia. GI end cap for each 50 mm dia GI post. Draw.No.SPES/Rate23/Ir-30.	sq.m	66.00	7,699.00	508,134.00
		Total carried to summary				508,134.00
		Form work				
56	Fw04	Sawn timber (class II) formwork for sides of foundation footings.	sq.m	7.00	1,850.00	12,950.00
57	Fw09	Shuttering for column shaft 225x225mm including 2mm iron plate and 25mm x 25mm x3mm 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	18.00	2,143.00	38,574.00
		Total carried to summary				51,524.00
		General Works				
58	Gw01	Allow for cutting down 01 N0 tree average girth 500-1000 mm approximately 05 - 10 m height and debris cleared away from site	nr	1.00	6,181.00	6,181.00
		Total carried to summary				6,181.00

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RENOVATION OF RETAINING WALL AT MR/WEHALLA K.V

Rate Schedule	Amount
Extension of retaining wall	
Earth Work	24,647.07
Concretor	95,761.50
Plasterer	4,197.00
Form work	14,996.37
Renovation of boundary wall & entrance staircase	
Demolisher	22,257.90
Earth Work	21,655.25
Brick Work	158,508.00
Concretor	356,440.50
Reinforcement	192,395.00
Plasterer	172,483.00
Iron Monger	65,256.00
Painter & Decorator	72,020.00
Form work	116,676.50
Construction of part of boundary wall around the ground	
Earth Work	30,838.00
Concretor	61,301.00
Reinforcement	83,400.00
R R Masonry	184,766.25
Plasterer	63,480.00
Iron Monger	508,134.00
Form work	51,524.00
General Works	6,181.00
Total	2,306,918.34