

8. BILL OF QUANTITIES

CEYLON PETROLEUM CORPORATION

**JOB: REPAIR WORK OF HOUSE AT HOUSING SCHEME , RADDOLUGAMA. (10B - 2R , 2L)
(Two adjoining Houses)**

B.O.Q. No. 2026 / RADD / 05

ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>Note</u> Quantities are given for 02 Nos. Houses (House No. 10B - 2R , 2L)				
	<u>A . DEMOLISH WORK</u>				
A1	Remove existing 6" thick brick wall with door and window in ground floor front wall (10' 0" x 9' 0"high) and remove from site to a place provided by the contractor .Rate to include transport.	2.0	Item		
A2	Remove existing roof with timber frame work and valance board in front roof (10' 0" x 6' 5") and remove from site to a place provided by the contractor .Rate to include transport.	2.0	Item		
A3	Remove existing 6" thick brick wall with window in upper floor front wall (5'0" x 8'0"high) and remove from site to a place provided by the contractor .Rate to include transport.	2.0	Item		
A4	Demolish existing cement rendered floor (5'0" x 12' 0") and remove debris from site to a place provided by the contractor .Rate to include transport.	150.0	Sqft		
A5	Demolish existing pantry top concrete (7' 0" x 1' 7") , (2' 0" x 1'.6") and chimney and remove debris from site to a place provided by the contractor .Rate to include transport.	1.0	Item		
A6	Demolish and remove existing 4 1/2" thick upper floor concrete slab (12' 0" x 1' 6") and remove from site to a place provided by the contractor. Rate to include transport.	40.0	Sqft		
A7	Removing existing Electrical wiring with fitting (as shown in drawing) and remove debris from site to a place provided by the contractor.	2.0	item		
A8	Remove existing timber doors and windows (as directed) and remove from site to a place provided by the contractor.(Approx . 100Sqft)	2.0	item		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
A9	Cut and Removing "Mango" tree (Approx. girth 4' 6" and 30' 0" high). Rate to include cutting of trunks and branches, grubbing up root etc. and clearing site and filling and levelling the ground with imported soil in layers not exceeding 6" at any time watered well rammed and consolidated.	1.00	No		
A10	Cut and Removing "Mango" tree (Approx. girth 6' 0" and 30' 0" high). Rate to include cutting of trunks and branches, grubbing up root etc. and clearing site and filling and levelling the ground with imported soil in layers not exceeding 6" at any time watered well rammed and consolidated.	1.0	No		
TOTAL DEMOLISH WORK CARRIED TO SUMMARY				RS	
<u>B. EARTH WORK</u>					
B1	Excavation for wall foundation depth not exceeding 3' 0" from finished ground level in front walls	2.5	Cu		
B2	Supply, filling and compacting imported soil in layers not exceeding 150mm at any time watered well rammed and consolidated	3.0	Cu		
TOTAL EARTH WORK CARRIED TO SUMMARY				RS	
<u>C. MASONRY WORK</u>					
C1	Rubble masonry in cement sand mix 1:5 in trench foundation front and rear walls	2.5	Cu		
C2	9" thick brick work in cement sand mix 1:5 in front and rear walls.	2.0	Sqr.		
C3	- Ditto - upper floor walls	2.0	Sqr.		
C4	- Ditto - raise existing upper floor walls	0.5	Sqr.		
C5	4" thick solid cement block work in cement sand mix 1:5 in rear walls.	2.0	Sqr.		
TOTAL MASONRY WORK CARRIED TO SUMMARY				RS	

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>D. CONCRETE WORK</u>				
D1	75mm thick 1:3:6 (25mm aggregate) - Grade -15 concrete in floor area including pavement.	4.0	Sqr.		
D2	225mm x 150mm cement concrete lintol in 1:2:4(20mm) concrete, reinforced with 2nos 12mm tor bars with 6mm M.S. stirrups at 150 crs. Rate to include R/f and F/w .	40.0	Lft		
D3	Cement concrete 1 : 2 : 4 (20mm aggregate) - Grade - 20 (if necessary)	10.0	Cu ft		
D4	3' 0" x 3' 0" x 8" thick Column base in 1:2:4 (3/4") concrete reinforced with 12mm tor steel 8" centers , both ways and necessary formwork . Rate to include R/F and F/W.	30.0	Cu ft		
D5	9" x 9" concrete column in 1 :2 :4 (3/4") concrete reinforced with 4 nos 12mm tor steel and 6mm strapps at 6" centers . Rate to include form work and reinforcement.	32.0	Cu ft		
D6	9" x 9" concrete beams in 1 :2 :4 (3/4") concrete reinforced with 4 nos 12mm tor steel and 6mm strapps at 6" centers . Rate to include form work , reinforcement and chemical anchoring to existing slab / beam.	24.0	Cu ft		
D7	Supply and laying of 5" thick 1: 2: 4 concrete 1st floor slab reinforced with 10mm dia tor steel 8" c/c , b/w . Rate to include formwork and chemical anchoring to existing slab .	2.0	Sqr.		
TOTAL CONCRETE WORK CARRIED TO SUMMARY				RS	

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>E. DOORS AND WINDOWS</u>				
	<u>Doors</u>				
	<u>Note</u>				
	1. All timber members are special class (jack or equivalent) 2. All Aluminium doors and windows shall be made of standered Aluminium extrusions (Alumex or equivalent) Door section should be 75mm and window frames should be 42mm. 3. All Aluminium Doors and Windows extrusions shall be powder coated and of approved colour , Total thickness of 60 - 80 microns.				
E1	Supply and fixing of timber door (sized 3' 6" x 8' 0") 1 1/4" thick timber sash fit pannel door with 4" x 3" frame (door sash 3' 6" x 6' 9" and 1' 0" high louvers) as per detail drawing. Rate to include necessary fittings including Door handle, door lock of approved make and quality, stainless steel hinges and barrel bolt etc , prepare surface and applying one coat of primer and two coats of approved water base paint to door sash and frame . as approved by the Engineer. (Main door).	56.0	Sq ft		
E2	Supply and fixing of timber door "D4" (size 2' 9" x 6' 9") 1 1/4" thick timber sash fit pannel door with 4" x 3" frame as per detail drawing. Rate to include necessary fittings including Door handle, door lock of approved make and quality, stainless steel hinges and barrel bolt etc , prepare surface and applying one coat of primer and two coats of approved water base paint to door sash and frame . as approved by the Engineer. (01 Nos) (rear door)	19.0	Sq ft		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>Aluminium Door and window</u>				
E3	Window type "DW" overall size 5' 0" x 7' 0" high Aluminium framed glazed swing door window with louvers above and all as per detailed drawing . Rate to include necessary fittings including Stainless steel hinges and barrel bolt etc. as approved by the Engineer. (02 No -Upper floor front door window)	70.0	Sq ft		
E4	Window type W3 overall size 4' 9" x 5' 9" high Aluminium framed glazed door with louvers above and all as per detailed drawing . Rate to include necessary fittings including Stainless steel hinges and barrel bolt etc. as approved by the Engineer. (02 No - Ground floor front window)	56.0	Sq ft		
E5	- Ditto - Front fixed glazed window with louvers above (size 3' 6" x 4' 0")	28.0	Sq ft		
E6	Supply and fixing of Aluminium framed louvers fanlight (size 2' 0" x 1' 0") , all as per detailed drawing and including all necessary fittings.	3.0	Sq ft		
	<u>Aluminium Expanded mesh</u>				
E7	Supply and fixing of powder coated Aluminium Expanded mesh (size 50mm x 50mm) with aluminium frame as per detail drawing and sample to be approved by Engineer..	170.0	Sqft		
TOTAL DOOR AND WINDOW WORK CARRIED TO SUMMARY				RS	
	<u>F . ROOFING WORK</u>				
	<u>Note</u> * All timber members are applying one coats of an approved wood preservative before fixing * All timber members are special class (jack or equivalent)				
F1	Removing and cleaning half round tiles on asbestos roofing sheets in existing roof as instructed by the Engineer (approx area 2.5 Sqrs).	2.00	Item		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
F2	Removing and stacking existing Asbestos roof covering with timber frame (roofing sheets and timber to be removed carefully to refix) in ground floor pantry roof and upper floor front roof.	8.50	Sqr.		
F3	Fixing removed Asbestos roofing sheet and timber frame work. The sheets to be fixed with 9" end lap and half corrugation side laps. Additional timber supplied will be measured seperately.	8.50	Sqr.		
F4	Extend existing roof by 8' 6" as per the detail drawing . The extention shall Consists of 3" x 4" wall plate , 2" x 4" rafters and 2" x 2" purlins with asbestos roof covering. (upper floor roof)	2.20	Sqrs		
F5	Remove existing valance board and supply and fixing 9" x 1" timber valance board (Ginisapu timber or approved equivalent). Rate to include one coat of wood primer and two coats of enamel paint.	96.0	Lft		
F6	Supply and laying of Asbestos roofing sheet on existing timber frame work using "j" bolt , washers etc.	300.0	Sq ft		
F7	Supply and fixing of roof timber (special class) 4" x 4"	30.0	Lft		
F8	-Ditto - 2" x 4" timber	50.0	Lft		
F9	- Ditto -2" x 2"timber	112.0	Lft		
F10	-Ditto - 2" x 1" timber	50.0	Lft		
F11	Supply and fixing 0.47mm thick Zn / Al plain sheet flashing (2" embedded to wall) The width of the flashing should not be less than 2' 0".	60.0	Sqft		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
F12	Supply and installation of slant Asbestos ceiling sheet on timber frame work (Special class timber) consisting of 100mm x 50mm joists and 50mm x 50mm bearers in building including eaves ceiling. The sheets to be fixed to timber frame work leaving 6mm V groves and 37mm x 37mm Halmilla moulding round the edges where the ceiling meets the walls. Rate shall include for applying two coats of wood preservative of all timber surface and applying one coat of primer and two coats of emulsion paint .	7.5	Sqr.		
F13	- Ditto - eaves ceiling. Rate to include necessary frame work and prepare surface and apply one coat of primer and two coats of approved weather shield paint .	2.5	Sqrs		
F14	Remove existing Asbestos ridge and supply and laying tile ridge . Rate to include Making ridge tile bedded In cement sand mortar 1:5 and coloured to match tile .	30.0	Lft		
F15	Supply and fix Colour Bonded Zinc Aluminium gutter size - Girth 405mm with a coated thickness of 0.47 mm all as per manufactures specification and details drawings in roof. Rate shall include for all necessary specials. (down pipes measured separately)	75.0	Lft		
F16	Supply and fixing of colour Bonded Zinc Aluminium down pipe 5 1/2" x 5 1/2" square type with a coated thickness of 0.47mm fixed with G.I. brackets complete with specials and embeded in concrete column connection to external rain water canales.	85.0	Lft		
TOTAL ROOF WORK CARRIED TO SUMMARY				RS	

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>G. FINISHES</u>				
G1	Remove existing internal plaster and replaster with 5/8" thick 1:5 cement sand plaster to internal surfaces of walls finished smooth. Rate to include preparing jambs and reveals.	2.0	Sqr.		
G2	5/8" thick 1:5 cement sand plaster to internal surfaces of upper floor walls finished smooth. Rate to include preparing jambs and reveals.	5.0	Sqr.		
G3	Remove existing external plaster and replaster with 5/8" thick 1: 5 cement sand mix to external surfaces of walls finished semi rough with wooden float. Rate to include preparing jambs and reveals. (If necessary)	1.0	Sqr.		
G4	Cement rendered floor 5/8" thick 1:3 to floor finished smooth with coloured cement slurry. Rate to include 75mm high skirting .	2.0	Sqr.		
G5	- Ditto - In pavement	2.00	Sqr.		
G6	3/4" thick cement sand plaster 1:5 to plinth plaster finished smooth with cement putty.	1.0	Sqr.		
	<u>Hand rail</u>				
G7	Supply and fixing of GI Tube hand rail as per detail drawing. Rate to include prepare the surface and applying one coat of anticorrosive paint and two coats of enamel paint of approved quality and colour to all steel surfaces .	25.0	Lft		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
G8	<u>Pantry</u> 3" thick 1 : 2 : 4 (3/4") concrete pantry top reinforced with 10mm tor steel 8" crs. both ways and necessary formwork. Rate to include Supply and laying of Glazed tiles of approved size and design to pantry top and 2' 0" high walls include 12mm thick cement rendering 1:3 to wall surfaces before fixing tiles and dressing grooves with white cement slurry after fixing as directed. (Approx 12' 0" long 2' 0" wide)	24.0	Sqft		
G9	Supply and fixing stainless steel kitchen sink (single bowl single drain) including angle valve , 01 nos chromium plated swan neck tap and all necessary accessories and complete to working order.	1.0	No		
TOTAL FINISHES WORK CARRIED TO SUMMARY				RS	
<u>H. PLUMBING AND DRAINAGE WORK</u>					
<u>Cold water installation</u>					
H1	1/2" diameter Grade 1000 uPVC solvent socketed pipes with and including all necessary specials, laid in chases and clipped in brick / concrete surface in internal distribution system.	20.0	lft		
H2	2" diameter waste uPVC pipe with all necessary specials.	20.0	lft		
TOTAL PLUMBING AND DRAINAGE WORK CARRIED TO				RS	

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<p><u>J. ELECTRICAL INSTALLATION</u></p> <p>Rates in Bill of Quantities shall include all necessary materials (Cables, conduits, PVC sunk box, bulbs, switches etc.) and labour required to complete the electrical installation to good working order.</p> <p>Electrical Items (MCB,RCCB etc.) should be of European/Japanese origin or to the BS or equivalent and items without an accredited agent in Sri Lanka shall not be accepted. Guarantee cards(Fans etc.) should be provided from Accredited agent before installation.</p> <p>All the quantities given here are approximated values and Quantities may change with the actual installation at the site.</p> <p>All types of fittings, materials, painting and finishes shall be approved by the Engineer prior to installation.</p>				
J1	<p><u>Distribution Board</u></p> <p>Supply and installation of wall mounted distribution board made out of polycarbonate enclosure to the approval of the engineer with equipments as specified in each board.</p> <p>01 No. 32A, 2-pole MCB 01 Nos. 40A 2-pole RCCB, 30mA sensitivity 04 Nos. of 6A, 1 Pole MCB 10KA 03 Nos of 16A, 1 Pole MCCB 10KA 01 Nos of 20A, 1 Pole MCB 10KA 1 Set of Live and neutral Bus Bars Earth Bar All internal connections</p>	2.0	No		
J2	<p><u>Cables</u></p>				
J2.1	<p>Supply & installation of Main incoming cable 2Cx6 mm² CU/PVC/PVC cable from CEB meter to consumer unit incomer</p>	33.0	ft		
J2.2	<p>Earth Cables</p> <p>Supply and Installation of 6mm² Cu/PVC Earth cable from Earth Bar of the consumer unit to earth pipe</p>	53.0	ft		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
J3	Ground Rod (Earth pipe)				
J3.1	Supply of galvanised iron pipe of diameter 50mm and length 2 metres complete with brass clamp, nut, bolt and washers to fix the main Earth wire.	2.0	No		
J4	<u>Light Fittings</u> Supply and installation of following light fittings. Light fitting shall be of high quality and shall be subjected to the approval of the Electrical Engineer prior to the installation. All LED bulbs should carry at least two years warranty period. Warranty crds to be submitted.				
J4.1	<u>Type A Light Fitting</u> Supply and installation of sofit/ceiling mount lamp fitting comprising, 18W LED lamp (day light) and all other accessories required	24.0	No		
J4.2	<u>Type B Light Fitting</u> Supply and install Bracket light fitting (wall mounted) made out of glass complete with 11 watt LED.	2.0	No		
J4.3	<u>Type C Light Fitting</u> weather proof (IP65) wall bracket lamp fitting complete with 11W LED (warm white) lamp other accessories for external walls	12.0	No		
J4.4	<u>Type D Light Fitting</u> Down light fitting complete with 11W LED lamp and other accessories	4.0	No		
J5	<u>Wiring of Lamp Fittings</u> Wiring (including supply of all materials & a switch) of the above light points using approved type PVC insulated PVC sheathed 2x1mm ² copper cable drawn through recessed PVC conduits	42.0	No		
J6	<u>Fans</u> <u>Wall fans</u>				
J6.1	Supply & installation of 16" dia wall fan with 3 speed and 3 enagy star rating (European/Japanese make)with all other accessories - Guarantee cards should be provided from accredited agent. (KDK , national or equivalentapproval by the Engineer)	6.0	No		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
	<u>Wiring for fans</u>				
	<u>Wall fans</u>				
J6.2	Wiring (including supply of all material) of the above wall fans using approved type 2x1 mm ² , PVC/PVC copper cable & 2.5 mm ² earth wire drawn through securely fixed concealed PVC conduits.	6.0	No		
J7	<u>Socket Outlets</u>				
J7.1	Supply of 13 Amp, 250 volt, flush type switched socket outlet.	26.0	No		
J7.2	Installation of Item above wired with 2x2cx2.5mm ² Cu/Pvc/Pvc insulated wire at 1x2cx2.5mm ² Cu/Pvc insulated earth wire concealed on Pvc conduits.	24.0	No		
J7.5	Remove all existing electrical Distribution boards, fittings & electrical cables and handing over them to Ceylon Petroleum Corporation officials	2.0	item		
TOTAL ELECTRICAL INSTALLATION CARRIED TO SUMMARY				RS	
	<u>K. PAINTING</u>				
K1	Repairing existing cracks on walls, and make good the surface with two coats of approved wall putty and applying one coat of approved primer and two coat of emulsion paint of approved quality and colour to all internal surface . Rate to include preparation of surface with scratching, filling with putty and sand papering, as required.(ground and upper floor)	44.0	Sqr.		
K2	Repairing existing cracks on walls, and make good the surface and applying two coat of weather shield paint of approved quality and colour to all external surface. Rate to include preparation of surface with scratching, filling with putty and sand papering, as required	30.0	Sqr.		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
K3	Prepare surface to expose timber frame and sash by removing old paint coats, sand papering and applying one coat of approved primer and two coats of enamel paint of approved colour and quality to doors and window surface.	4.0	Sqr.		
K4	- Ditto - Valance board and barge board	2.0	Sqr.		
K5	Prepare surface , Sandpapering and applying one coat of approved primer and two coats of emulsion paint of an approved colour and quality to soffit of slab and ceiling area in building .	8.0	Sqr.		
K6	Remove existing old paint and preparing the surface & applying two coats of Epoxy floor paint of approved quality and colour to all floor area.(ground floor , upper floor and staircase)	15.0	Sqr.		
TOTAL PAINTING CARRIED TO SUMMARY				RS	
L1	<p><u>L. MISCELLANEOUS WORK</u></p> <p><u>Gate</u> Repairing existing gate (8' 0" x 5' 6" , 1 1/2" dia GI pipe outer frame and chainlink mesh) to working order, painting with one coats of anticorrosive paint and 2 coats of enamel paint after removing and cleaning old paint coat .</p>	2.0	Item		
L2	<p><u>Existing fence</u> Repairing existing chain link fence (30'0" long 50mm dia GI fence post 2.0m high & PVC coated chain link) and painting with one coat of anticorrosive paint and two coats of enamel paint after removing and cleaning old paint coat as directed by Engineer.</p>	2.0	Item		
L3	<p><u>BOUNDRY WALL</u> Excavation for wall foundation depth not exceeding 3' 0" from finished ground level in front and rear walls</p>	0.40	Cu		
L4	Rubble masonry in cement sand mix 1:5 in trench foundation front and rear walls	0.60	Cu		

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ITEM	DESCRIPTION	QTY	UNT	RATE	AMOUNT
L5	1:2:4 (3/4") Reinforced cement concrete 150mm x 100mm column (6' 0" high above ground level and 1' 0" below) reinforced with 2 nos 10mm bars with 6mm M.S. stirrups at 150mm crs . Rate to include 300mm x 300mm x 300mm deep column pockets in rubble wall.	4.0	No		
L6	1:2:4 (3/4") reinforced cement concrete 9" x 4" plinth beams on top of rubble foundation reinforced with 2 nos 1/2" bars with 1/4" M.S. stirrups at 6" crs (Rate to include R/F and F/w)	14.0	lft		
L7	4" thick solid cement block work in cement sand mix 1:5 in walls	1.0	Sqrs		
L8	1:2:4 (3/4") reinforced cement concrete 4" x 4" Tie beams on top of wall reinforced with 2 nos 3/8" bars with 1/4" M.S. stirrups at 6" crs (Rate to include R/F and F/w)	14.0	lft		
L9	5/8" thick cement sand plaster 1:1:5 to all exposed surface in boundary wall .	2.0	Sqrs		
L10	Prepare surface and apply two coats of weather shield paint of an approved colour and quality to boundary wall surface .	2.0	Sqrs		
TOTAL MISCELLANEOUS CARRIED TO SUMMARY				RS	

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SUMMARY

ITEM	DESCRIPTION	AMOUNT
	A . DEMOLISH WORK	Rs. -
	B . EARTH WORK	Rs. -
	C. MASONRY WORK	Rs. -
	D. CONCRETE WORK	Rs. -
	E. DOORS AND WINDOWS	Rs. -
	F . ROOFING WORK	Rs. -
	G. FINISHES	Rs. -
	H. PLUMBING AND DRAINAGE WORK	Rs. -
	J . ELECTRICAL INSTALLATION	Rs. -
	K. PAINTING	Rs. -
	L. MISCELLANEOUS WORK	Rs. -
	TOTAL AMOUNT	Rs. -
	LESS DISCOUNT
	SUB TOTAL
	ADD SSCL (2.5%)
	SUB TOTAL
	ADD VAT (18%)
	TOTAL AMOUNT WITH TAXES

Total amount in words :-.....

Name of Bidder :-

VAT Registration No :-

.....
Signature of Tenderer

.....
Date