

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED
PREMISES & ENGINEERING SERVICES FUNCTION

Premises & Engineering Services

CPSTL

B.O.Q No:

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
A	PRELIMINARIES				
A.1	<u>Health,safety and Environment</u>				
A.1.1	<i>Allow lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulation and as directed by the Engineer.</i>	1.00	Item		
A.1.2	<i>Provisional sum for Unforeseen work in existing Roof & etc.,</i>	1.00	PS		
A.1.3	<i>Allow lump sum for temporary site hut including wash rooms and stores.</i>	1.00	Item		

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Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
TOTAL CARRIED TO SUMMARY					
B	HOUSE NO.83 (DS BUNGALOW)				
B.1	DEMOLISION AND DISMANTALING WORK				
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
B.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	150.00	m ²		
B.1.2	Removing and dismantaling of existing ceiling area with frame work as per engineer's instruction	11.00	m ²		
B.2	ANTITERMITE TREATMENT				
	<i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	note			
	<i>Any damages occurred during drilling work shall be rectified by the contractor at his own cost</i>	note			
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	note			

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Premises & Engineering Services

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	105.00	m ²		
B.2.2	FINISHES				
B.2.2.1	15mm thk. Semi rough External Plaster to the wall by using 1:5 cement sand mortar as per the engineer's instruction.	6.00	m ²		
B.2.2.1.1	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location . The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval. Rate for painting shall include for painting to door and window reveals.</i>				
B.2.2.1.1.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	280.00	m ²		
B.2.2.1.1.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	141.00	m ²		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.2.2.1.1.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	105.00	m ²		
B.2.2.1.1.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	50.00	m ²		
B.3	CEILING WORK				
B.3.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	11.00	m ²		
B.4	ROOFING WORK				
B.4.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	150.00	m ²		
B.4.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	15.00	m		
B.4.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the engineer's instruction.	30.00	m		

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Premises & Engineering Services

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B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.4.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealant including necessary joiners & elbows, pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks buried in walls as directed.	25.00	m		
B.4.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealant necessarily.	53.00	m		
B.4.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm) with 750 mm centers as per the engineer's instruction. Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	48.00	m		
B.4.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) battens (50mmx50mm) with 900 mm centers as per the engineer's instruction. Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	221.00	m		
B.5	ELECTRICAL WORK <i>Contractors are strickly advised to visit the site & follow the given details , sketch drawings, specifications before bidding & before commencing the works .If any discrepancies, that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
B.5.1	Removing and dismantaling of existing electrical fittings, fixtures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.5.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	12.00	nos		
B.5.3	Supply and installation of 20W LED Pendent Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	5.00	nos		
B.5.4	Supply and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	8.00	nos		
B.5.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	7.00	nos		
B.5.6	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.5.7	Light point wired using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid separately.	21.00	nos		
B.5.8	Supply and fix 230V operated door Bell and Bell push switches with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout) as per the instruction of Engineer.Rate to be included bell push switch and other accessories.	1.00	Nr		
B.5.9	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's. <i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		
B.5.10	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	5.00	nos		
B.5.11	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.5.11.1	One Gang one way Switch	1.00	nos		
B.5.11.2	Two Gang one way Switch	5.00	nos		
B.5.11.3	Three Gang one way Switch	2.00	nos		
B.5.11.4	Four Gang one way Switch	1.00	nos		
B.5.12	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
B.6	MISCELLANEOUS WORK				
B.6.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squating pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -30'(9.14m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		
B.6.2	Construction of RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		
B.6.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 20'-(6.0m) as per engineer's instructions.	1.00	item		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
B.6.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S. rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		
B.6.5	Allow sum for rectify leakages in bathroom fittings as per the instruction of an engineer.	1.00	item		
TOTAL CARRIED TO SUMMARY					
C	HOUSE NO.85 (DS BUNGALOW)				
C.1	DEMOLISION AND DISMANTALING WORK				
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
C.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	150.00	m ²		
C.1.2	Removing and dismantaling of existing ceiling area with frame work as per engineer's instruction	11.00	m ²		
C.2	ANTITERMITE TREATMENT				
	<i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	note			

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Any damages occurred during drilling work shall be rectified by the contractor at his own cost</i>	<i>note</i>			
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	<i>note</i>			
C.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	105.00	m ²		
C.3	FINISHES				
C.3.1	15mm thick 1:5 cement and sand plastering with semi rough finished to Prepare chimney worktop screed as per the instruction by engineer. (Approx. area 600 x 1350 mm)	1.00	item		
C.3.2	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location . The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval.</i> <i>Rate for painting shall include for painting to door and window reveals.</i>				
C.3.2.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	280.00	m ²		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
C.3.2.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	141.00	m ²		
C.3.2.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	105.00	m ²		
C.3.2.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	50.00	m ²		
C.4	CEILING WORK				
C.4.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	11.00	m ²		
C.5	ROOFING WORK				
C.5.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	150.00	m ²		
C.5.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	15.00	m		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
C.5.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	30.00	m		
C.5.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks burried in walls as directed.	25.00	m		
C.5.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	53.00	m		
C.5.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	48.00	m		
C.5.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	221.00	m		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
C.6	ELECTRICAL WORKS <i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
C.6.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
C.6.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	11.00	nos		
C.6.3	Supply and installation of 20W LED Pendent Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
C.6.4	Suppy and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	8.00	nos		

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 BATTICALOA**

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
C.6.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	7.00	nos		
C.6.6	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		
C.6.7	Light point wired using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	22.00	nos		
C.6.8	Supply and fix 230V operated door Bell and Bell push switches with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout) as per the instruction of Engineer.Rate to be included bell push switch and other accessories.	1.00	Nr		
C.6.9	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's. <i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	Current rating-40 A	1.00	Nr		
C.6.10	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	5.00	nos		
C.6.11	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
C.6.11.1	One Gang one way Switch	1.00	nos		
C.6.11.2	Two Gang one way Switch	4.00	nos		
C.6.11.3	Three Gang one way Switch	3.00	nos		
C.6.11.4	Four Gang one way Switch	1.00	nos		
C.6.12	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
C.7	MISCELLANEOUS WORK				
C.7.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squatting pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -40'(12.19m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
C.7.2	Construction of RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		
C.7.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 30'- (9.14m) as per engineer's instructions.	1.00	item		
C.7.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S.rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		
C.7.5	Allow sum for disconnecting existing Sewarage line as per Engineer's instruction.	1.00	Nr		
C.7.6	Replace of kitchen wastewater pipe bend with pvc flexible hose as per Engineer's instruction.	1.00	Nr		
C.7.7	Supply and Connect water board tap line directly to kitchen sink as per Engineer's instruction.(Pipe line length approx.10'(3.05m))	1.00	item		
TOTAL CARRIED TO SUMMARY					

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED
PREMISES & ENGINEERING SERVICES FUNCTION

Premises & Engineering Services

CPSTL

B.O.Q No:

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D	HOUSE NO. 89/4 (03)				
D.1	DEMOLISION AND DISMANTALING WORK				
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
D.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	130.00	m ²	500.00	65,000.00
D.1.2	Removing and Dismantaling of ceiling with frame work as per engineer's instruction	7.50	m ²	450.00	3,375.00
D.2	ANTITERMITE TREATMENT				
	<i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	note			
	<i>Any damages occurred during drlling work shall be rectified by the contractor at his own cost</i>	note			
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	note			

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	75.00	m ²		
D.3	FINISHES				
D.3.1	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location . The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval. Rate for painting shall include for painting to door and window reveals.</i>				
D.3.1.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	240.00	m ²		
D.3.1.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	130.00	m ²		
D.3.1.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	75.00	m ²		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.3.1.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	45.00	m ²		
D.4	CEILING WORK				
D.4.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	7.50	m ²		
D.5	ROOFING WORK				
D.5.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured separately).	130.00	m ²		
D.5.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	13.00	m		
D.5.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	26.00	m		
D.5.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks buried in walls as directed.	30.00	m		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.5.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealant necessarily.	50.00	m		
D.5.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	36.00	m		
D.5.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	165.00	m		
D.6	ELECTRICAL WORKS <i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
D.6.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.6.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	15.00	nos		
D.6.3	Supply and installation of 20W LED Pendant Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
D.6.4	Supply and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
D.6.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
D.6.6	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED
PREMISES & ENGINEERING SERVICES FUNCTION

Premises & Engineering Services

CPSTL

B.O.Q No:

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.6.7	Light point wired using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	19.00	nos		
D.6.8	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's. <i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		
D.6.9	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	3.00	nos		
D.6.10	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
D.6.10.1	One Gang one way Switch	1.00	nos		
D.6.10.2	Two Gang one way Switch	3.00	nos		
D.6.10.3	Three Gang one way Switch	1.00	nos		
D.6.10.4	Four Gang one way Switch	1.00	nos		
D.6.10.5	Five Gang one way Switch	1.00	nos		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.6.11	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
D.7	MISCELLANEOUS WORK				
D.7.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squatting pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -10'(3.05m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		
D.7.2	Construction of RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		
D.7.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 30'-(9.14m) as per engineer's instructions.	1.00	item		
D.7.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S. rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED
 PREMISES & ENGINEERING SERVICES FUNCTION
**JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA,
 BATTICALOA**

Premises & Engineering Services
CPSTL
B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
D.7.5	Allow sum for disconnecting existing sewerage line as per engineer's instruction.	1.00	item		
TOTAL CARRIED TO SUMMARY					
E	HOUSE NO. 89/5 (04)				
E.1	DEMOLISION AND DISMANTLING WORK				
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
E.1.1	Removing and dismantling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	130.00	m ²		
E.1.2	Removing and dismantling of ceiling with frame work as per engineer's instruction	7.50	m ²		
E.1.3	Removing existing damaged wall plaster area in shower area	30.00	m ²		
E.1.4	Removing existing brick wall in shower area as per engineer's instruction.	25.00	m ²		
E.2	ANTITERMITE TREATMENT				
	<i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	note			
	<i>Any damages occurred during drilling work shall be rectified by the contractor at his own cost</i>	note			

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED
PREMISES & ENGINEERING SERVICES FUNCTION

Premises & Engineering Services

CPSTL

B.O.Q No:

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	<i>note</i>			
E.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	75.00	m ²		
E.3	WATER PROOFING				
E.3.1	Supplying and applying Master seal 540 or equivalent water proofing treatment in wall in shower area as per specification.	30.00	m ²		
E.4	FINISHES				
E.4.1	15mm thk. Semi rough External Plaster to the wall near shower area by using 1:5 cement sand mortar as per the engineer's instruction.	30.00	m ²		
E.4.2	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location .</i> <i>The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval.</i> <i>Rate for painting shall include for painting to door and window reveals.</i>				
E.4.2.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	240.00	m ²		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.4.2.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	160.00	m ²		
E.4.2.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	75.00	m ²		
E.4.2.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	45.00	m ²		
E.5	CEILING WORK				
E.5.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	7.50	m ²		
E.6	ROOFING WORK				
E.6.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	130.00	m ²		
E.6.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	13.00	m		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.6.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	26.00	m		
E.6.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks buried in walls as directed.	30.00	m		
E.6.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	50.00	m		
E.6.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	36.00	m		
E.6.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	165.00	m		
E.7	ELECTRICAL WORKS <i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.7.1	Removing and dismantling of existing electrical fittings, fixtures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
E.7.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029) Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit. White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS, IEC or SLS standard. (Rate to include necessary Trunking and removing existing item)	14.00	nos		
E.7.3	Supply and installation of 20W LED Pendant Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
E.7.4	Supply and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
E.7.5	Supply and fix angle batten holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty) point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
E.7.6	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.7.7	Light point wired using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	19.00	nos		
E.7.8	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's. <i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		
E.7.9	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	3.00	nos		
E.7.10	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
E.7.10.1	One Gang one way Switch	1.00	nos		
E.7.10.2	Two Gang one way Switch	3.00	nos		
E.7.10.3	Three Gang one way Switch	1.00	nos		
E.7.10.4	Four Gang one way Switch	1.00	nos		
E.7.10.5	Five Gang one way Switch	1.00	nos		
E.7.11	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.8	MISCELLANEOUS WORK				
E.8.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squatting pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -10'(3.05m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		
E.8.2	Construction of RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		
E.8.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 30'-(9.14m) as per engineer's instructions.	1.00	item		
E.8.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S.rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		
E.8.5	Construction of outdoor shower area (approx.area 1070x1525mm) as directed by engineer.				
E.8.5.1	150mm thick 1:2:4(G20) floor concrete	1.00	m ³		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
E.8.5.2	Supplying and applying Master seal 540 or equivalent water proofing treatment in floor area of shower area as per specification.	2.00	m ²		
E.8.5.3	Supplying and laying 300mmx300mm ceramic non-slip floor tiles(Lanka tile or equivalent) in shower area .Homogeneous colour and design to floor area as instructed. Rate shall include for level and slopes from horizontal plain, bedded on cement and sand mortar 1:3 laid with cement slurry and joints finished neat with matching grout and cleaning tile surface.	2.00	m ²		
E.8.5.4	Supplying and fixing PVC head shower including pipes, and connections to water network. The rate include floor trap, all required fittings for work completion.	1.00	Nr		
E.8.5.5	Supplying and fixing of chromium plated taps as per the engineer's instruction (Rate to include supplying of PVC lines as necessary)	1.00	Nr		
E.8.5.6	Supply & construct 225mm thick brick wall in cement & sand mortar(1:5) near the shower area as per Engineer's instructions.	25.00	m ²		
TOTAL CARRIED TO SUMMARY					

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F	HOUSE NO.89/6 (06)				
F.1	DEMOLISION AND DISMANTALING WORK <i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
F.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	130.00	m ²		
F.1.2	Removing and dismantaling of ceiling with frame work as per engineer's instruction	7.50	m ²		
F.1.3	Removing existing damaged wall plaster area in shower area	30.00	m ²		
F.1.4	Removing existing drain and soakage pit as per engineer's instruction.	1.00	item		
F.1.5	Removing existing brick wall in shower area as per enginerr's instruction.	25.00	m ²		
F.2	ANTITERMITE TREATMENT <i>Drilling of floors to be done to meet the chemical manufacture specification .</i> <i>Any damages occurred during drlling work shall be rectified by the contractor at his own cost</i> <i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	<i>note</i> <i>note</i> <i>note</i>			

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	75.00	m ²		
F.3	WATER PROOFING				
F.3.1	Supplying and applying Master seal 540 or equivalent water proofing treatment in wall in shower area as per specification.	30.00	m ²		
F.4	FINISHES				
F.4.1	15mm thk. Semi rough External Plaster to the wall near shower area by using 1:5 cement sand mortar as per the engineer's instruction.	30.00	m ²		
F.4.2	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location .</i> <i>The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval.</i> <i>Rate for painting shall include for painting to door and window reveals.</i>				
F.4.2.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	240.00	m ²		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.4.2.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	160.00	m ²		
F.4.2.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	75.00	m ²		
F.4.2.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	45.00	m ²		
F.5	CEILING WORK				
F.5.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	7.50	m ²		
F.6	ROOFING WORK				
F.6.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	130.00	m ²		
F.6.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	13.00	m		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.6.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	26.00	m		
F.6.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks burried in walls as directed.	30.00	m		
F.6.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	50.00	m		
F.6.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	36.00	m		
F.6.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	165.00	m		
F.7	ELECTRICAL WORKS				

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED
 PREMISES & ENGINEERING SERVICES FUNCTION
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 BATTICALOA**

Premises & Engineering Services
 CPSTL
 B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
F.7.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
F.7.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	12.00	nos		
F.7.3	Supply and installation of 20W LED Pendent Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
F.7.4	Suppy and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED
 PREMISES & ENGINEERING SERVICES FUNCTION
JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services
 CPSTL
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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.7.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
F.7.6	Light point wired using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	18.00	nos		
F.7.7	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's.				
	<i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		
F.7.8	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	3.00	nos		
F.7.9	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				

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JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.7.9.1	Two Gang one way Switch	3.00	nos		
F.7.9.2	Three Gang one way Switch	1.00	nos		
F.7.9.3	Four Gang one way Switch	1.00	nos		
F.7.9.4	Five Gang one way Switch	1.00	nos		
F.7.10	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
F.8	MISCELLANEOUS WORK				
F.8.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squatting pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -20'(6.09m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		
F.8.2	Construction of Constructionof RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		
F.8.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 30'-(9.14m) as per engineer's instructions.	1.00	item		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
F.8.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S.rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		
F.8.5	Allow sum for disconnecting existing sewerage line as per engineer's instruction.	1.00	item		
F.8.6	Construction of outdoor shower area (approx.area 1070x1525mm) as directed by engineer.				
F.8.6.1	150mm thick 1:2:4(G20) floor concrete	1.00	m ³		
F.8.6.2	Supplying and applying Master seal 540 or equivalent water proofing treatment in floor area of shower area as per specification.	2.00	m ²		
F.8.6.3	Supplying and laying 300mmx300mm ceramic non-slip floor tiles(Lanka tile or equivalent) in shower area .Homogeneous colour and design to floor area as instructed. Rate shall include for level and slopes from horizontal plain, bedded on cement and sand mortar 1:3 laid with cement slurry and joints finished neat with matching grout and cleaning tile surface.	2.00	m ²		
F.8.6.4	Supplying and fixing PVC head shower including pipes, and connections to water network. The rate include floor trap, all required fittings for work completion.	1.00	Nr		
F.8.6.5	Supplying and fixing of chromium plated taps as per the engineer's instruction (Rate to include supplying of PVC lines as necessary)	1.00	Nr		
F.8.6.6	Supply & construct 225mm thick brick wall in cement & sand mortar(1:5) near the shower area as per Engineer's instructions.	25.00	m ²		
TOTAL CARRIED TO SUMMARY					

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED
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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G	HOUSE NO. 89/7 (07)				
G.1	DEMOLISION AND DISMANTALING WORK <i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
G.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	130.00	m ²		
G.1.2	Removing and dismantaling of ceiling with frame work as per engineer's instruction	7.50	m ²		
G.1.3	Removing existing damaged wall plaster area in shower area	30.00	m ²		
G.1.4	Removing existing drain and soakage pit as per engineer's instruction.	1.00	item		
G.2	ANTITERMITE TREATMENT <i>Drilling of floors to be done to meet the chemical manufacture specification .</i> <i>Any damages occurred during drilling work shall be rectified by the contractor at his own cost</i> <i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	<i>note</i> <i>note</i> <i>note</i>			

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JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	75.00	m ²		
G.3	WATER PROOFING				
G.3.1	Supplying and applying Master seal 540 or equivalent water proofing treatment in wall in shower area as per specification.	30.00	m ²		
G.4	FINISHES				
G.4.1	15mm thk. Semi rough External Plaster to the wall near shower area by using 1:5 cement sand mortar as per the engineer's instruction.	30.00	m ²		
G.4.2	<u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location . The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval. Rate for painting shall include for painting to door and window reveals.</i>				
G.4.2.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	240.00	m ²		

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Premises & Engineering Services

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B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.4.2.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	160.00	m ²		
G.4.2.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	75.00	m ²		
G.4.2.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	45.00	m ²		
G.5	CEILING WORK				
G.5.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	7.50	m ²		
G.6	ROOFING WORK				
G.6.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	130.00	m ²		
G.6.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	13.00	m		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.6.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	26.00	m		
G.6.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks buried in walls as directed.	30.00	m		
G.6.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	50.00	m		
G.6.6	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	36.00	m		
G.6.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	165.00	m		
G.7	ELECTRICAL WORKS				

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**JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA,
 BATTICALOA**

Premises & Engineering Services
 CPSTL
 B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
G.7.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
G.7.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	13.00	nos		
G.7.3	Supply and installation of 20W LED Pendent Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
G.7.4	Suppy and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		

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PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.7.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
G.7.6	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		
G.7.7	Light point wired using 2 x 1 / 1.5 mm2 (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	19.00	nos		
G.7.8	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's. <i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A				
	Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		

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JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA*Premises & Engineering Services**CPSTL**B.O.Q No:*

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.7.9	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	3.00	nos		
G.7.10	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
G.7.10.1	One Gang one way Switch	1.00	nos		
G.7.10.2	Two Gang one way Switch	3.00	nos		
G.7.10.3	Three Gang one way Switch	1.00	nos		
G.7.10.4	Four Gang one way Switch	1.00	nos		
G.7.10.5	Five Gang one way Switch	1.00	nos		
G.7.11	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
G.8	MISCELLANEOUS WORK				
G.8.1	Supply and Installation of new septic tank with soakage pit (size 3660x1220x1220mm) with connecting squatting pan & WC to new sewerage line as per the engineer's instruction and detail drawing.(Length of sewerage water line -10'(3.05m) , septic tank size 2440x1220x1220mm,soakage pit size 1220x1220x1220mm)	1.00	item		
G.8.2	Construction of RCC sewer manhole internal size of 635 x 480mm & depth upto 600mm ,consist of 50mm thick Grade 15 lean concrete and 150mm thick Grade 20 concrete base and side walls r/f with 10mm dia. tor steel @ 200 c/c bothways with 75mm thick Grade 20 RCC cover slab with 10mm dia.tor steel @ 150 c/c bothways. Rate to include for excavation,necessaryformwork,lifting hook sand 12.5mm thick cement & sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces,exposed external surfaces and forming channel with 1:6 benching.	2.00	nos		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.8.3	Supply and install new wastewater tank (size 1220x1220x1830mm) with connecting to kitchen and bathroom waste water line .(Rate to be included necessary pipe line length 30'-(9.14m) as per engineer's instructions.	1.00	item		
G.8.4	Construction of waste water concrete manhole internal size of 380x380mm & depth up to 600mm, consist of 100mm thick Grade 20 concrete base and sides ,with 50mm thick Grade 20 RCC cover slab with 6mm dia.M.S.rods@100mm c/c both ways.Rate to include for excavation, necessary formwork, lifting hooks and 12.5mm thick cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external exposed surfaces.	2.00	nos		
G.8.5	Allow sum for disconnecting existing sewerage line as per engineer's instruction.	1.00	item		
G.8.6	Construction of outdoor shower area (approx.area 1070x1525mm) as directed by engineer.				
G.8.6.1	150mm thick 1:2:4(G20) floor concrete	1.00	m ³		
G.8.6.2	Supplying and applying Master seal 540 or equivalent water proofing treatment in floor area of shower area as per specification.	2.00	m ²		
G.8.6.3	Supplying and laying 300mmx300mm ceramic non-slip floor tiles(Lanka tile or equivalent) in shower area .Homogeneous colour and design to floor area as instructed. Rate shall include for level and slopes from horizontal plain, bedded on cement and sand mortar 1:3 laid with cement slurry and joints finished neat with matching grout and cleaning tile surface.	2.00	m ²		
G.8.6.4	Supplying and fixing PVC head shower including pipes, and connections to water network. The rate include floor trap, all required fittings for work completion.	1.00	Nr		
G.8.6.5	Supplying and fixing of chromium plated taps as per the engineer's instruction (Rate to include supplying of PVC lines as necessary)	1.00	Nr		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
G.8.6.6	Supply & construct 225mm thick brick wall in cement & sand mortar(1:5) near the shower area as per Engineer's instructions.	25.00	m ²		
G.8.7	Allow sum for repair cold water line with rectifying leakages	1.00	item		
G.8.7.1	Allow sum for rectify other water leakages	1.00	item		
G.8.7.2	Allow sum for extension of bathroom shower line (Approx.Length-300mm)	1.00	item		
G.8.7.3	Extend the kitchen waste water pipe line(approx.size 20'-6.09m) as directed by engineer.(Rate to be included all pipes ,bends and other accessories.)	1.00	item		
TOTAL CARRIED TO SUMMARY					
H	HOUSE NO.89/11(05)				
H.1	DEMOLISION AND DISMANTALING WORK				

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Premises & Engineering Services

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
H.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	180.00	m ²		
H.1.2	Removing and dismantaling of existing ceiling area with frame work as per engineer's instruction	11.50	m ²		
H.2	ANTITERMITE TREATMENT <i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	<i>note</i>			
	<i>Any damages occurred during drilling work shall be rectified by the contractor at his own cost</i>	<i>note</i>			
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	<i>note</i>			
H.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	115.00	m ²		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
H.3	FINISHES				
H.3.1	<p><u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location .</i> <i>The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval.</i> <i>Rate for painting shall include for painting to door and window reveals.</i></p>				
H.3.1.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	340.00	m ²		
H.3.1.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	180.00	m ²		
H.3.1.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	115.00	m ²		
H.3.1.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	65.00	m ²		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
H.4	CEILING WORK				
H.4.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	11.50	m ²		
H.5	ROOFING WORK				
H.5.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	180.00	m ²		
H.5.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	14.00	m		
H.5.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	24.00	m		
H.5.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks burried in walls as directed.	25.00	m		
H.5.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	45.00	m		
H.5.6	Supplying and Replacing new approved type				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	40.00	m		
H.5.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	210.00	m		
H.6	ELECTRICAL WORKS <i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
H.6.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
H.6.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	12.00	nos		

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JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
H.6.3	Supply and installation of 20W LED Pendant Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	10.00	nos		
H.6.4	Supply and fix 20W LED Wall light fitting (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	2.00	nos		
H.6.5	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	6.00	nos		
H.6.6	Light point wired using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	18.00	nos		
H.6.7	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's.				
	<i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A Current rating-40 A	1.00	Nr		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
H.6.8	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	4.00	nos		
H.6.9	Supply & fix approved type 3 blade orbital fan 400 mm dia. 360° oscillation through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	1.00	Nr		
H.6.10	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
H.6.10.1	One Gang one way Switch	2.00	nos		
H.6.10.2	Two Gang one way Switch	2.00	nos		
H.6.10.3	Three Gang one way Switch	1.00	nos		
H.6.10.4	Four Gang one way Switch	1.00	nos		
H.6.10.5	Five Gang one way Switch	1.00	nos		
H.6.11	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
H.7	MISCELLANEOUS WORK				
H.7.1	Supplying and fixing of bathroom 110mm dia.pvc catch pit as per the engineer's direction.	1.00	Nr.		
	TOTAL CARRIED TO SUMMARY				
I	HOUSE NO. 91 (08,09)				
I.1	DEMOLISION AND DISMANTALING WORK				

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JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	<i>Rate shall include for protection of public and private Building and services. The contractor shall protect, uphold and maintain all water and drain pipes, ducts, sewers, service mains, overhead cables, etc.,unless earmarked for demolition, during the execution of the works. The contractor is to make good any damage due to any cause within his control at his own expenses or pay any cost and charges in connection therewith. In cases where the services are to be temporarily terminated or diverted the contractor is to give the necessary notice to the appropriate Authority with the approval of the Employer and arrange for the work to be carried out and pay all costs and charges in connection therewith. Delays to the contract completion time caused by such damage will not be entertained.All removed items to be handed over to CPSTL.</i>				
I.1.1	Removing and dismantaling of existing Calicut tile roof covering with 25x25mm rafters as per engineer's instruction.	380.00	m ²		
I.1.2	Removing and dismantaling of ceiling with frame work as per engineer's instruction	18.00	m ²		
I.2	ANTITERMITE TREATMENT				
	<i>Drilling of floors to be done to meet the chemical manufacture specification .</i>	note			
	<i>Any damages occurred during drlling work shall be rectified by the contractor at his own cost</i>	note			
	<i>Drill holes of the floor to be sealed/rectified reinstated to the original conditions.</i>	note			
I.2.1	Antitermite Treatment for the post construction of the following existing buildings with applying Biflexthrine 10TC(Bifenthrin 100g/L)"Biflex" or equivalent ,diluted chemicals 1:200 ratio with water after supplying the sealed bottle with lables to the site and should be followed the manufactur's standards of application including horizontal and vertical barriers .The treatment should have a warranty for 5 years from the date of completion of the treatment in for the treated area/s.	180.00	m ²		

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CEYLON PETROLEUM STORAGE TERMINALS LIMITED

PREMISES & ENGINEERING SERVICES FUNCTION

JOB :PROPOSED RENOVATION FOR CPSTL QUARTERS (9 NOS.UNITS) AT JAYANTHIPURA, BATTICALOA

Premises & Engineering Services

CPSTL

B.O.Q No:

Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
I.3	FINISHES				
I.3.1	<p><u>Painting</u> <i>External painting shall be exterior quality,weathershield, to suit with the environment, climate and location .</i> <i>The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid for approval.</i> <i>Rate for painting shall include for painting to door and window reveals.</i></p>				
I.3.1.1	Preparing and applying two coats of wall putty and one coat of wall filler and two coats of approved quality and colour emulsion paint(CIC or equivalent) to internal plastered surfaces of walls as directed. Rate shall include for using sand paper to obtain, smooth clean surface and preparing damaged surfaces where necessary as directed by Engineer.	540.00	m ²		
I.3.1.2	Preparing and applying one coat of approved wall filler & two coats of weather shield paint (CIC or equivalent) of approved quality & colour to external plastered walls .Rate to include all necessary masonry repairs with putty and cement grout as per instruction of Engineer.	165.00	m ²		
I.3.1.3	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	180.00	m ²		
I.3.1.4	Supplying, preparing & applying approved quality & colour one coat of primer & 2 coats of weather shield paint (CIC or equivalent) to all surface of Eave Ceiling Soffit as directed. Rate shall include for applying approved quality putty & surface preparation using sand paper to obtain smooth clean surface before applying primer coat as directed.	86.00	m ²		
I.4	CEILING WORK				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
I.4.1	Supplying and fixing Asbestos ceiling with class 1 timber coves & fillets with 50mmx50mm approved class 1 timber frame . Under side to existing rafter size of fillet to be 37.5mmx12.5mm size of cove moulding 50mmx50mm as Instructions of Engineer.Rate to include applying wood preservative.	18.00	m ²		
I.5	ROOFING WORK				
I.5.1	Supplying & laying corrugated asbestos roofing sheets on timber framework with roofing screws or hook bolts.(Roof framework measured seperately).	380.00	m ²		
I.5.2	Supply & fix Ridging with Asbestos cement close fitting ridges complete with roofing screws or hook bolts as per the engineer's instruction	22.00	m		
I.5.3	Supplying & fixing square type rigid Zn/Al (0.47 mmThick) eave gutters(Girth 470mm) including necessary joiners ,rat guard ,end caps and running heads and necessary sealent etc.Gutters to be fixed with aluminium brackets are not more than 600mm centers with brass screw nails as per the instruction of the Engineer.	65.00	m		
I.5.4	Supplying & fixing 100mmx100mm rigid Zn/Al (0.47 mm Thick) down pipes with necessary sealent including necessary joiners & elbows,pipes to be fixed with approved type clips at not more than 900mm centers with brass screw nails including wooden blocks buried in walls as directed.	50.00	m		
I.5.5	Supplying and fixing approved colour 0.47mm thick 225mm width colour bonded Zn/Al Valance board with necessary screws and other accessories as per the engineer's instruction and rate to include applying sealent necessarily.	65.00	m		
I.5.6	Supplying and Replacing new approved type				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	timber (Treated Grandis or equivalent) purlins (50mmx100mm)with 750 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	104.00	m		
I.5.7	Supplying and Replacing new approved type timber (Treated Grandis or equivalent) purlins (50mmx50mm)with 900 mm centers as per the engineer's instruction.Rate to be included removing the existing rafters and applying of 2 coats of wood preservatives as per the engineer's instruction.	471.00	m		
I.6	ELECTRICAL WORKS <i>Contractors are strickly advised to visit the site & follow the given details ,sketch drawings,specifications before bidding & before commencing the works .If any discrepancies,that should be forwarded to the Premises & Engineering Services Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing CPSTL property .If some damage occur ,contractor should repair by own cost according to the instrument of Engineer or his representatives.</i>				
I.6.1	Removing and dismantaling of existing electrical fittings,fixures and point wires etc. necessarily without damaging any properties as per the instruction of an engineer.	1.00	item		
I.6.2	Supplying & installation of 13 Amp switch socket outlet with point wiring using 2x7/0.67(2x7/029)Flat Twin(FT) PVC insulated wire & 1x7/0.67(EW) copper earth wire in fully concealed surface PVC conduit.White faceplate, 230VAC, 3 Square pin, and shuttered outlets, with Indicator. Complete with fixing screws and hole covers. Conform to relevant BS,IEC or SLS standard.(Rate to include necessary Trunking and removing existing item)	21.00	nos		

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
I.6.3	Supply and installation of 20W LED Pendant Lamp (Orange/Philip or equivalent with 1 year warranty) with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	21.00	nos		
I.6.4	Supply and fix angle battern holder with 12W LED white colour bulb (Orange/Philip or equivalent with 1 year warranty)point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	11.00	nos		
I.6.5	Supplying and fixing of Candle bulb (Orange/Philip or equivalent with 1 year warranty) and holder with point wiring using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits (P.V.C. Casing as indicated in the electrical layout) as per engineer's instruction.	1.00	Nr		
I.6.6	Light point wired using 2 x 1 / 1.5 mm ² (1/1.38) P.V.C. Insulated copper wire in fully concealed /surface P.V.C. conduits. (P.V.C. Casing as indicated in the electrical layout.) Gang switches and sunk boxes paid seperately.	33.00	nos		
I.6.7	Supplying & installation of 8 way power distribution board(Surface mounted) with the following components. All Distribution boards should be incorporated with genuine ABB,Sihneider,siemens ,orange sigma make RCCB's & MCB's.				
	<i>Isolator-1 no.(double pole)</i> C-Curving tripping Current rating:1-63A Breaking Capacity :(4.5 Ka-6.0kA) <i>MCB</i> 10A-6 nos,(SP,4.5Ka-6Ka Type C) 16A-1 no. 20A-1 no. <i>RCCB-1 no.(32 A)</i> 2 pole, Voltage 230V-50Hz Connection Capacity -40A Sensitivity - 30 m A				

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Item	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
	Current rating-40 A	2.00	nos		
I.6.8	Supply & fix approved type 3 blade Ceiling fan (white) 1400mm dia. through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	5.00	nos		
I.6.9	Supply & fix approved type 3 blade orbital fan 400 mm dia. 360° oscillation through a 5 speed regulator using 1/1.13 (1/044) P.V.C. Insulated copper wire & 7/0.67(7/029) copper earth wire in trunking (100mmX50mm) with dividing plate (3 rows) as indicated in the electrical layout and Lighting Control Diagram.(All ceiling fans should be KDK with guarantee card from the authorized dealer).	1.00	Nr		
I.6.10	Supplying and installation of 10A/250V Gang sunk switch with sunk box including all accessories(Switches shall be manufactured by Orange/ABB/Heger or equivalent).				
I.6.10.1	One Gang one way Switch	1.00	nos		
I.6.10.2	Two Gang one way Switch	5.00	nos		
I.6.10.3	Three Gang one way Switch	1.00	nos		
I.6.10.4	Four Gang one way Switch	1.00	nos		
I.6.10.5	Five Gang one way Switch	3.00	nos		
I.6.11	Supplying and installing & fixing Earth Rod(Cu) 16mm dia.x2m fixing with clip to the earth wire(1x7/029)should be less than 5 Oams earth resistance.	1.00	Nr		
I.7	MISCELLANEOUS WORK				
I.7.1	Supplying and fixing of bathroom 110mm dia.pvc catch pit as per the engineer's direction.	1.00	Nr		
TOTAL CARRIED TO SUMMARY					

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GRAND SUMMARY

ITEM	DESCRIPTION	AMOUNT (Rs)
A	PRELIMINARIES	
B	HOUSE NO.83 (DS BUNGALOW)	
C	HOUSE NO.85 (DS BUNGALOW)	
D	HOUSE NO.87/4 (03)	
E	HOUSE NO.87/5 (04)	
F	HOUSE NO.87/6 (06)	
G	HOUSE NO.87/7 (07)	
H	HOUSE NO.89/11(05)	
I	HOUSE NO. 91 (08,09)	
	TOTAL AMOUNT	
	OTHER TAXES VAT (15%)	
	TOTAL AMOUNT WITH VAT + TAXES (Rs)	

VAT registration No :

Total Amount in words :
 (without VAT)

Name of Bidder :

Address :

(If Tender is not registered for VAT he should furnished a letter obtained from the commissioner of inland Revenue Department certifying that the Company has not been registered for VAT)

.....
 Signature of Bidder

.....
 Date