

Section - 07 (Bills of Quantities)

BILL OF QUANTITIES FOR

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, OLUVIL, SRI LANKA.		
SUMMARY		
ITEM	DESCRIPTION	AMOUNT
A	PRELIMINARIES	
B	EXCAVATION AND EARTHWORK	
C	CONCRETE WORK	
D	MASONRY WORK	
E	WATERPROOFING	
F	DOORS & WINDOWS	
G	ROOF STRUCTURE AND ROOF COVERING	
H	HAND RAILS	
J	FLOOR WALL & CEILING FINISHES	
K	PAINTING	
L	ELECTRICAL WORK	
	Sub Total 1	
	Less: Discount (if Any)	
	Sub Total 2	
	Add: Pro. Sum for Physical Contingencies	1,852,757.40
	Bid Amount	
	Add VAT 8%	
	Grand Total Amount	

Bid Amount in words:

VAT Reg. No:

Name & Address of the Bidder:

Signature of Bidder:

Company Seal:

Date:

Witness: (Name/ Address/ Signature/Date)

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	PRELIMINARIES				
A1	The bidder shall price only those items on which he would incur expenses and state "NIL" against all others. All temporary works shall be dismantled and cleared away from site on completion	note			
A2	The bidder is required to visit the site of the proposed work, as it is his responsibility to ascertain the conditions, governing access to the site, the external working space storage area, etc.	note			
A3	No work in any trade shall be carried out in such a manner as to cause any nuisance to adjacent owners, guests or public.	note			
A4	All precautions to be taken for protecting existing adjacent properties.	note			
A5	Any other preliminary items not listed below but deemed to be included to be in the tender rates	note			
A6	Mechanical plant and equipment which emits excessive noise, water, smoke, fumes, obnoxious liquids, gases etc., will not be allowed to be used on the site, without the prior approval from the Employer and the Engineer. The Engineer has the final decision as and when he deems it necessary for the Contractor to take precautions, maintain or repair such plant and equipment or order their removal from the site.	note			
A7	The contractor shall be responsible for any loss or damage to the works, existing structures, adjoining structures and unfixed materials.	note			
	<u>Insurance & Security</u>				
A8	The contractor shall provide and maintain the mobilization advance repayment guarantee from a bank acceptable to the Employer and in accordance with sample form included in the bid document.	PS	Allow	Sum	224,400.00
A9	The contractor shall provide and maintain a performance bond to the value equal to 5% of the contract price obtained from a acceptable to the Employer and in accordance with sample form included in the bid documents.	PS	Allow	Sum	56,100.00
A10	<p>The contractor shall provide for Insurance against contractor's all risk policy insurance including third party liability, accident & injury to workmen, fire & lightning, riot & civil commotions, gales & thunderstorms, earth slips, seasonal floods, theft, property, work at site, materials, and any other insurable risks as required by the bid as follows .</p> <p>a) Allow for terrorist activities cover b) Allow Consultant's staff at site and visiting c) Allow Owner's staff at site and visiting d) Allow Workmen's compensation insurance</p>	PS	Allow	Sum	88,000.00

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Temporary Buildings</u>				
	Rates shall include for remove of all un necessary temporary work disposal of all rubbish and making good to all disturbed on completion.	note			
A11	Allow for construction and furnishing a site office for Contractor staff and Engineer's /Consultant's staff not less than 20.0 m2 and having facilities for app. 4 persons with drawing racks, tables, meeting table, chairs, water filter, lockable cupboards, internet facility including other necessary furniture & sanitary facilities and remove them on completion.	PS	Allow	Sum	376,115.00
A12	Provide lump sum to construct, equip and maintain temporary buildings for protection and storage of materials, plant & workshops.	LS	Allow	Sum	
A13	Provide lump sum for providing sanitary facilities for workmen.	LS	Allow	Sum	
	<u>Water & Electricity for works</u>				
A14	Allow for supplying temporary water connection for the work during the construction	PS	Allow	Sum	126,500.00
A15	Allow for supplying temporary electricity for the work during the Construction	PS	Allow	Sum	192,500.00
	<u>Samples</u>				
A16	Allow for maintaining of quality and standards during construction including supplying specimen and samples of materials for approval and for testing.	PS	Allow	Sum	57,750.00
	<u>As Built / Shop Drawing</u>				
A17	Provide lump sum for 3 sets each of As built drawings & Shop drawings. (Interior & Exterior) on plumbing, electrical installation, Doors & windows and other required works.	LS	Allow	Sum	
	<u>Clearing rubbish & debris</u>				
A18	The contractor shall remove all the rubbish, surplus materials, debris from the site as soon as possible and at frequent intervals during the progress of the work and completion so as to maintain unhide access to and easy inspections of all work.	note			

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A19	<p><u>Safety Precautions</u></p> <p>Allow for protection of public and private 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/Engineer 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.</p>	note			
A20	<p>Provide lump sum for safety measures for workers and contractor's staff including and not limiting to safety helmets, boots, safety goggles, gloves and protective gears.</p>	note			
A21	<p><u>Setting out</u></p> <p>Allow for a detail setting out of all the walls including internal partition walls in accordance with drawings and other written information given by the Engineer. The checking of any setting out or of any line or level by the Engineer shall not in any way relieve the Contractor of his responsibility for the accuracy thereof. No work can commence without a written approval from the Engineer/ Architect for the setting out.</p>	LS	Allow	Sum	
A22	<p><u>Hoarding & Screens</u></p> <p>Supply & fix GI sheet hoarding with necessary steel/timber frame work. Rate shall include for maintaining until the completion of the work and removal at end as directed by Engineer.</p>	m ²	30.0		
A23	<p>Allow for erection of necessary protective netting, fencing, hoarding, dust screens etc. to control dust escaping to surrounding areas, at site and other precautions to the required standard and approval of the Consultants. The contractor shall submit the details of his proposal to the Consultant for approval. The contractor shall be responsible and shall pay all claims and damages payable to effected parties, arising from complaints or action by such parties or by relevant state authorities, in connection with the above.</p>	m ²	180.0		
A24	<p>The Contractor shall protect and maintain the approaches to the site, clear of mud and debris including providing a washing bay with all connected services. The contractor also shall make good any damage attributable to the works at his own expense or pay all costs, charges in connection therewith.</p>	note			
	<p>TOTAL FOR PRELIMINARIES CARRIED TO SUMMARY</p>				

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B	DEMOLITION, EXCAVATION AND EARTH WORK				
	<u>DEMOLITION</u>				
B1	A brief description of the structures to be demolished is given below as a guidance for pricing. The tenderer is required to visit the site and inspect the type and extent of demolishing work to be done prior to pricing these items.	note			
B2	Price shall include for removing debris from site, providing temporary shoring & temporary supporting, protecting existing works and adjacent properties and stacking all useable materials as directed.	note			
B3	All re-useable materials in demolished parts shall be the property of the Contractor.	note			
B4	Prior approval to be obtained from the Consultant regarding the type and capacities of the equipment to be used in each type of demolishing.	note			
B5	Removing of existing cycle parking shed including foundation and clearance of debris off site as directed by Engineer	PS	Allow	Sum	99,963.00
	<u>EXCAVATION AND EARTH WORK</u>				
B6	The bidder is requested to check ground water level and soil investigation report, limitation of transport, limitation of site, conditions of the existing road for possibility of transportation of heavy vehicles and equipment etc., prior to pricing this section of work.	note			
B7	Rates shall include for any excavation for any working space and all necessary backfilling work as required by the contractor.	note			
B8	Dewatering and earth work supports has been measured separately.	note			
	<u>Disposal</u>				
B9	All excavated material (need to stack good available excavated to filling and backfilling) to be disposed off from the site as directed. Bidder shall submit method of disposal of earth. The contractor shall obtain approval from the relevant Authorities for transportation of earth and suitable location and procedure for dumping the same. Contractor's rates for excavation shall include disposal of surplus soil.	note			
	<u>Site preparation</u>				
B10	Removing top soil to a depth not exceeding 150mm and depositing as directed within site.	m ²	900.00		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Excavation				
	Excavation in trenches for walls /column pits in ordinary soil from 0.0m to 1.5m deep and depositing excavated material to a distance not exceeding 10.0m.				
B11	Down to 1.0 m depth from EGL	m ³	55.86		
	Excavation in trenches for walls /column pits in ordinary soil from 0.0m to 1.5m deep and depositing excavated material to a distance not exceeding 10.0m.				
B12	Down to 1.0 m depth from EGL	m ³	65.00		
	Filling				
	All filling shall be well watered and compacted by mechanical rammer in layers not exceeding 150mm thick to achieve 95% compaction when tested with proctor compactor test.				
B13	Earthwork -Back filling & compacting. (Back filling to trenches with selected earth available at site)	m ³	33.50		
B13	Filling under floors including levelling, watering and compacting in 75mm layers with available and selected earth at site.	m ³	30.33		
	Filling under floors including levelling, watering and compacting in 75mm layers with imported selected gravel				
B14	Down to 1.0 m depth from FGL	m ³	70.78		
	Earth work support				
B15	Earth work support (close planking) in footings & trenches up to depth of 1.52m	m ²	71.30		
	Anti- Termite Treatment				
	Anti-Termite treatment shall cover excavated trenches , and the ground covered by floor slabs. The Contractor shall furnish the Employer with a joint guarantee binding the specialist sub contractor and the Contractor as to the effectiveness of the anti- termite treatment for a minimum period of 5 years after completion by a specialist sub contractor with providing a guarantee not less than 5 years. The rate to include for precautionary measures to be taken against chemicals being infiltrated in to outside area. The approval should be obtain from the Engineer for the product and the specialist sub contractor.				
B16		m ²	239.80		
	TOTAL FOR DEMOLITION, EXCAVATION AND EARTH WORK CARRIED TO SUMMARY				

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C	CONCRETE WORK				
C1	All Concrete Works shall comply to the specifications, filled into formwork and well packed around reinforcement.	note			
C2	Rate for concrete columns and wall shall include for kickers.	note			
C3	Contractor shall ensure that all contacting surfaces including reinforcement dowels left out for bonding purposes is free from any organic or artificial material which can be a hindrance to achieve specified properties in the Drawings and Specifications.	note			
C4	Contractor shall ensure that the top of the lean concrete layer shall be finished semi rough to receive waterproofing layer where applicable.	note			
C5	Rate of concrete for floor slabs shall include for level finish to slab surfaces wherever specified to the satisfaction of the Engineer.	note			
C6	All concrete shall be ready mix unless obtain approval for the Engineer to use site mix in special areas. Mix design of ready mix concrete shall be approved by the Engineer and the contractor shall submit detail of his ready mix supplier, mix design calculation past tests reports, sieve reports, and other technical information.	note			
	CONCRETE				
	<u>Up to Ground floor level</u>				
	<u>Ordinary, plain</u>				
	Grade 15, 1:3:6 (38 mm) concrete for rate to include mixing, hoisting, placing in position, vibration with a mechanical vibrator.				
C7	50 mm thick screed for under footings	m ³	3.15		
C8	50 mm thick screed for under rubble foundations	m ³	2.63		
C9	50 mm thick mass concrete filling on first floor level	m ³	6.20		
	<u>Ordinary, reinforced</u>				
	Grade 20, 1:2:4 (20mm) concrete for rate to include mixing, hoisting, placing in position, vibration with a mechanical vibrator and all mixing shall be done mechanically.				
C10	Ground floor slab Grade 25, 1:11/2:3 (20mm) concrete for rate to include mixing, hoisting, placing in position, vibration with a mechanical vibrator and all mixing shall be done mechanically.	m ³	29.51		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C11	Column footings	m ³	15.96		
C12	Columns	m ³	2.84		
C13	Plinth beams	m ³	10.40		
Ground floor level to First floor level					
C14	Columns	m ³	9.66		
C15	Beams	m ³	21.63		
C16	Slabs	m ³	49.04		
C17	Lintels/ sill beams	m ³	2.67		
C18	Stairs, isolated steps, step waist, landing and landing beam	m ³	6.41		
First floor level to Roof terrace level					
C19	Columns	m ³	7.67		
C20	Beams	m ³	16.80		
C21	Slabs	m ³	27.62		
C22	Lintels/ sill beams	m ³	2.84		
FORMWORK					
C23	Formwork moulds for concrete construction shall be of approved system to suit with the nature of this project and shall be erected true in line, levels and vertically for walls and columns and to the shapes and sizes required by the work, and shall be of suitable design and substantial and rigid construction as to prevent deformation due to the placing and compacting of concrete and any incidental loading. All formwork and cantering shall be so constructed that no grout shall leak out during concreting.	note			
C24	Formwork shall be provided with adequate struts, braces, walling, ties and clamps so as to maintain the dimensions lines and levels of placing and compacting the concrete and to prevent any sagging exceeding 3mm under the weight of wet concrete with any other super imposed loads which they would be subjected to during construction.	note			
C25	Type of formwork shall be laminated ply wood or steel with steel supporting system to receive fair face finish unless otherwise specified elsewhere. Rates for formwork shall include for all necessary measures to provide fair face finish to the satisfaction of the Engineer.	note			

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C26	Rates shall include for all necessary boarding, supports, erecting, framing, cutting angles, striking or removal, cleaning, wetting etc.,	note			
C27	Rates shall include for forming projections and chamfers.	note			
C28	Rates for formwork shall include for control joints, isolation joints wherever specified and required according to the drawings and specifications.	note			
C29	Formwork has been measured as the net contact surface measurement between concrete and formwork.	note			
	<u>Up to Ground floor level</u>				
	Sides of foundation				
C30	Sides of column footings	m ²	44.63		
C31	Sides of columns	m ²	38.64		
C32	Sides of plinth beams	m ²	92.72		
	<u>Ground floor level to First floor level</u>				
C33	Sides of columns	m ²	133.35		
C34	Sides and soffit of beams	m ²	180.29		
C35	Sides and soffit of slabs (fair finish)	m ²	411.60		
C36	Sides and soffit of lintels/ sill beams	m ²	28.76		
C37	Sides & soffit of stair flights, risers and landings	m ²	50.40		
	<u>First floor level to Roof terrace level</u>				
C38	Sides of columns	m ²	106.89		
C39	Sides and soffit of beams	m ²	155.40		
C40	Sides and soffit of slabs (fair finish)	m ²	273.00		
C41	Sides and soffit of lintels/ sill beams	m ²	29.93		

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	REINFORCEMENT				
C42	All reinforcement shall be free from mill scale, dirt, oil, paint, grease or loose rust before fixing in position and shall be brushed with a stiff wire brush if so directed by the Engineer.	note			
C43	The size of reinforcement bars described in the drawing or elsewhere shall be the minimum size and the rolling margin and any other tolerance shall be wholly above this size. Hooks and laps have been measured and included with the quantities for reinforcements.	note			
C44	Re-bending of incorrectly bent bars shall not be attempted.	note			
C45	Rates shall include for cutting, bending, fabricating, placing in position, holding and supporting including temporary fixing supports, hangers, binding wire spacers and waste.	note			
C46	Rates shall include for construction joints, pour strips, and bursting links.	note			
C47	High yield Tor Steel reinforcement bars & Mild Steel Bars in the following.	note			
	<u>Up to Ground floor level</u>				
C48	floor	t	1.40		
C49	Column footings	t	1.18		
C50	Columns	t	0.61		
C51	Plinth beams	t	0.95		
	<u>Ground floor level to First floor level</u>				
C52	Columns	t	1.30		
C53	Beams	t	2.67		
C54	Slabs	t	3.69		
C55	Lintels/ sill beams	t	0.18		
C56	Stairs, isolated steps, step waist, landing and landing beam	t	0.81		
	<u>First floor level to Roof terrace level</u>				
C57	Columns	t	1.20		
C58	Beams	t	1.63		
C59	Slabs	t	1.47		
C60	Lintels/ sill beams	t	0.18		
	TOTAL FOR CONCRETE WORK CARRIED TO SUMMARY				

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
D	MASONRY WORK				
	RUBBLE WORK				
D1	Rubble shall be free from soft rock and shall be sharp and angular shape. The rubble shall be obtained from a quarry approved by Engineer after sample submissions by the contractor.	note			
D2	Random rubble work set in cement and sand mortar 1:5 in wall foundation, retaining walls and steps	m ³	22.37		
	BRICK WORK				
D3	All bricks shall be well burnt approved bricks in standard size and strength indicated in the specifications. The bidder shall price for bricks as specified and acceptable to the Engineer.	note			
D4	Rates shall include for preparation of surfaces of floor slab, columns and wall surfaces for proper bonding.	note			
D5	Rates shall include for lifting, handling, wetting, all rough and fair cutting, plumbing angles, forming rebated reveals, rough arches, raking out joints for pointing, plastering etc., cutting and pinning, forming or cutting chases, making good and sundry items of a like nature.	note			
D6	Rate shall include for scaffolding whether specified separately or not.	note			
D7	Rates shall include for Expansion and /or construction joints.	note			
	Brick work set in 1:5 cement and sand mortar on the following.				
	<u>Ground floor level to First floor level</u>				
D8	One brick thick (approx. 225 mm thick) brick work.	m ³	32.72		
	<u>First floor level to Roof level</u>				
D9	One brick thick (approx. 225 mm thick) brick work.	m ³	34.97		
	<u>Brick Filling</u>				
	Brick filling work in cement and sand 1:5 mix as per the drawing				
D10	First floor level	m ³	4.73		
	TOTAL FOR MASONRY WORK CARRIED TO SUMMARY				

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
E	WATER PROOFING				
E1	Damp proof membrane under floor slab out of 1000 gauge polythene.	m ²	294.00		
E2	Contractor for water proofing is required to furnish a guarantee for a period of ten (10) years from the date of handing over of the works. The bidder must give a written undertaking to furnish the said guarantee in the form required by the employer.	note			
E3	Rates shall include for temporary screed, grounds, rules, internal angles, fillet, arises, external angles, exposed circular edges chases for trucking in & protection of the applied water proofing layer until protection screed or plaster done etc.,	note			
E4	The finish of the concrete slab shall be acceptable to the Consultants prior to carrying out the water proofing system.	note			
E5	Rates shall include cutting top line, notching bending and extra materials for lapping.	note			
E6	Rates shall also include working into recesses duct covers, shaped inserts, outlet pipes and the like. Rates shall also include for work to falls and cross falls.	note			
E7	Rate shall include 18mm thick 1:3 cement and sand rendering / surface preparation layer on floor and wall surface, finish smooth with towel finish as per water proofing requirement	note			
E8	Rates for tanking and damp proofing shall include forming of internal and external angles, angles fillets, arises, edges and inter sections on work to cross falls.	note			
	<u>Exposed slabs and canopies</u>				
	Supplying and installation of UV resistance polyurethane water proofing coating on towel finished roof slab. (Use X-Calibure PU1+ water proofing or approved equivalent.).				
E9	First floor level sun shade	m ²	45.78		
E10	Roof level slab & sun shade	m ²	211.05		
	25 mm thick (min.) 1:3 cement and sand protective smooth cement rendering on water proofed surface, finishes smooth with towel finish as per water proofing requirement				
E11	First floor level sun shade	m ²	45.78		
E12	Roof level slab & sun shade	m ²	211.05		
	TOTAL FOR WATERPROOFING CARRIED TO SUMMARY				

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
F	DOORS & WINDOWS				
F1	The contractor shall check the number of units, spans and other necessary dimensions before the units are fabricated.	note			
F2	All Aluminum extrusions shall be Alumex or equivalent, matt powder coated to not less than 80 microns from approved source.	note			
F3	Rate for Aluminum / Glass partitioning shall include for partition doors, other necessary openings required, all fixing hardware and approved ironmongery including locks etc., to the Engineers approval.	note			
F4	Rates for all aluminum doors and windows shall include for sub frames.	note			
F5	Rates for external glazed walling, doors and windows shall include for suitable scaffolding unless otherwise provided separately.	note			
F6	All aluminum frames shall be exterior quality powder coated (not less than 80 microns) in approved color with correct sizes and thickness as specified by the manufacturer to suit with the actual dimensions of openings including all surfaces and method of construction and strong enough to stand for the specified wind pressure. All fixings shall be to suit the location and environment of the project and shall be in materials free from corrosion with all primary and secondary framing, fixings and accessories. All frames shall be in beveled edge corners.	note			
F7	All glass in external glazed doors and windows shall be as per the schedule depend on the size of the opening as per manufacture's instruction in an approved manufacture to suit with the specific requirements.	note			
F8	Sealant, beadings and gaskets to be used, shall appropriate to the climate of Sri Lanka and the environment of the location of this project (specially close proximity to sea and sea breeze) and necessary technical information's to be submitted for prior approval. All joints to be sealed in an appropriate manner and make with structural silicon. All gaskets, rubber beading shall be Neoprene in approved color.	note			
F9	Shop drawings of aluminum doors, windows and fixing details to be submitted for prior approval of the Engineer	note			
F10	Rates shall include for aluminum paneling, glazing, framing, fixings, beadings, gaskets, sealant, high quality ironmongery for windows and doors and precaution to prevent ingress of water and water leaks, fixing accessories and hardware.	note			
F11	All ironmongery for aluminum doors and windows shall be heavy duty as recommended by Aluminum/UPVC manufacturer or equivalent manufacture	note			

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.						
ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
F12	All doors and windows design and colour to be match those of the existing administrative secretariat building,	note				
F13	The bidder shall submit the following details together with the tender. (a). Technical detail of the proposal (b). Technical data. (c). Type and manufacturer of glass, aluminum, extrusions, panels, ironmongery, sealant, beadings, frame work etc., (d). Country of manufacture of above items. (e). Local Agent (f). CIF value of materials to be imported. (g). Schedule of materials to be imported on duty free facilities. (h). Schedule of materials to be imported with out duty free facilities. (i). Method statement (j). Samples of selected materials (frame, materials, aluminum extrusions glass, framing, sealant, beadings, ironmongery etc.,) (k). Details of scaffolding system (l). Proposal for fire barriers (m). Method of fixing of glass to frame work (n). List of ironmongery quoted for each item	note				
F14	An item has been allowed for submission of shop drawings in Preliminaries	note				
F15	Supplying and fixing 100mm Powder coated aluminium double sash butt hinged operable door without louvers with middle rail and top with 5mm thick <u>tinted glass</u> panes and Bottom with aluminium cladding sheet, neoprene and woold beading, gaskets, poprivots, threaded bar with nut and approved quality lock, butt hinges, door handle with capnut .As per the members, sizes and details given in Drawing - D1	m ²	17.50			
F16	Supplying and fixing 41mm Powder Coated aluminium casement window without louvers on top, consisting of 5mm thick clear glass panes, casement lock, screws, poprivots, gaskets, hinges, weather-strip etc. As per the members, sizes and details given in Drawing - W1	m ²	80.00			
F17	Supplying and fixing 41mm Powder Coated aluminium casement window without louvers on top, consisting of 5mm thick clear glass panes, casement lock, screws, poprivots, gaskets, hinges, weather-strip etc. As per the members, sizes and details given in Drawing - W2	m ²	51.20			
TOTAL FOR DOORS & WINDOWS CARRIED TO SUMMARY						

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G	ROOF STRUCTURE AND ROOF COVERING				
	<u>Roof structure</u>				
G1	All surfaces of steel members shall be wire brushed & cleaned and apply two coats of "Preemastic G-316" epoxy paint of approved colour. Rate shall include for same. Painting to be done at site	note			
G2	Rate shall include for all <u>plates, bolts, nuts, washers, cleats, tie rods, and welding to plates, hoisting, scaffolding & fixing in position.</u>	note			
G3	Supply, fabricate & erection of 200X100X18.2 kg/m size universal beam (UB1) as per detail drawing	t	1.79		
G4	Supply, fabricate & erection of 150x65x20x2.0mm GI lipped channels as per detail drawing	m	237.30		
G5	Supply, fabricate & erection of 12mm dia steel sag rod as per detail drawing	m	92.40		
G6	Supply & fix M16 Anchor bolt (J - bolt) as per detail drawing.	nr	48.00		
	<u>Roof covering</u>				
G7	Rate shall include for hoisting and fixing complete all nails, screws, clips etc, and straight and square cutting and all waste.	note			
G8	Supplying and fixing 0.47mm thick Zinc Aluminium and Colourcoated roofing sheets with 75mmx75mm sq. mesh and 8mm thick mat foil with double side Aluminium Foil. Rate to including for necessary Accessories. & Transport. (Hipped Roof - Single storied building) @ add 2.5% to each additional story	m ²	226.80		
G9	Supplying and fixing 300mm wide 0.47mm thick Zn/Al colour coated valance board fixed with 25mm x 25mm (1.6mm) box bar frame	m	57.94		
	<u>Roof plumbing</u>				
G10	Supply, fabricate & erection of 600mm girth custom made colourbonded Zinc Aluminum gutters approved colour fixed with all accessories, brackets as per drawing.	m	57.94		
G11	Supply, fabricate & erection of 150X150mm colourbonded Zinc Aluminum down pipes with all necessary accessories to complete working order.	m	84.95		
	TOTAL FOR ROOF STRUCTURE AND ROOF COVERING CARRIED TO SUMMARY				

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
H	HAND RAILS				
H1	Refer Architectural drawings and details drawings	note			
H2	The Contractor shall check the number of units, spans and other necessary dimensions before the units are fabricated.	note			
H3	All hand rails timber to be local "Teak" or similar approved. All sizes shown to be finished sizes without any allowance for the planning.	note			
H4	All timber for wood works should be vacuum pressurized impregnation with CCB wood preservative treatment.	note			
H5	All hand rails timber rail shall be finished with water base wood finish (sayerlack) protective coating with approved stain. preparation of surfaces with sand papering and filling all uneven surfaces with approved filling materials. All complete as per drawings.	note			
H6	All surfaces of steel members shall be wire brushed & cleaned and apply two coats of zinc phosphate primer & two coats of enamel paint of approved colour. Rate shall include for same. Painting to be done at site	note			
H7	Rate shall include for all <u>plates, bolts, nuts, washers, cleats, haunches, tie rods, and welding to plates, hoisting, scaffolding & fixing in position.</u>	note			
	<u>Handrails</u>				
H8	Supply, fabricate & erection of hand rail for staircase as per Architectural drawings	m	7.40		
H9	Supply, fabricate & erection of hand rail for around slabs as per Architectural drawings	m	32.50		
	TOTAL FOR HAND RAILS CARRIED TO SUMMARY				

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
J	FLOOR WALL & CEILING FINISHES				
J1	Rates shall include for preparation of surfaces for proper bonding. Use recommend adhesives for tile work.	note			
J2	Rate shall include for measures to provide suitable bonding between different surfaces such as concrete and brick/block surfaces as per specification.	note			
J3	Rates shall include for cutting tiles/marble/granite as necessary.	note			
J4	Rate for tiling/marble/granite shall include for providing acceptable adhesive and/or suitable cement in an approved quality which has no effect to the tiles/marble/granite.	note			
J5	The bidder shall submit shop drawings and tile layout for floor and wall tiles, granite, marble, and details of suspended ceiling lay out , hanging system etc for approval prior to commencement of work.	note			
J6	The bidder shall submit the following technical details along with the bid. (a). Type of material tiles, ceiling, granite, marble (b). Brand name model numbers quoted for. (c). Country of origin. (d). Cost of tile per m2 (after trade discount) quoted for with make and model no				
J7	Rates for floor and wall tiles shall include for providing all tiles specials such as edges, corners etc.,	note			
J8	Rates for floor and wall tiles shall include for laying to the pattern and design shown in the approved tile layout including laying of sample areas for approval.	note			
J9	Rates shall include for skirting beading and corner beadings	note			
J10	Rates shall include for fair joints, outlets, working over and around obstructions, pipes and like into recesses and shaped inserts and any bonding agents where included with the works.	note			
J11	Rate shall include any pattern work where all extra works involved.	note			
J12	Rates shall include drainage holes, bedding mortas and adhesives, cleaning, sealing and polishing.	note			

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Floor Finishes				
	Supply and laying of Ceramic/Porcelane floor tiles , as per detailed drawings and in an approved manufacture, colour , quality and design laid to a pattern including 20 mm thick 1:3 cement sand bedding and pointing to match the colour of tiles in the following.				
J12	Ground floor level	m ²	290.85		
J13	First floor level	m ²	81.90		
	Supply and laying of Ceramic/Porcelane floor tiles , as per detailed drawings and in an approved manufacture, colour , quality and design laid to a pattern including 20 mm thick 1:3 cement sand bedding and pointing to match the colour of tiles in the following.				
J14	To staircase	m ²	64.89		
	Supply and laying of loop carpet on cement rendering floor Rate shall include adhesive and 20mm thick cement rendering floor with neat cement floating, 1:3 cement sand bedding.				
J15	First floor level	m ²	198.79		
	Skirting				
	App. 100 mm high Ceramic tile skirting , in approved manufacture colour and quality including 20 mm thick 1:3 cement sand bedding as per detailed drawings to the following.				
J16	Ground floor level	m	70.38		
J17	First floor level	m	9.03		
	App. 100 mm high Ceramic tile skirting , in approved manufacture colour and quality including 20 mm thick 1:3 cement sand bedding as per detailed drawings to the following.				
J18	Staircase	m	19.10		
	100mm high, 20mm thick 'Local Teak' wood planks skirting. Rate shall include for water base finish to the approval of the Engineer				
J19	First floor level	m	52.50		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Wall Finishes					
J20	Rates for plastering shall includes for forming doors and windows rebats and reveals.	note			
J21	Rates for plastering between different surfaces shall include for spandex metal lathing to avoid any cracks between different surfaces.	note			
J22	Rates for plastering between brick wall top edge and beam bottoms shall include 12 mm thick rigid form packing to avoid any cracks between different surfaces.	note			
J23	Contractor shall do the final surface finishes if there any damages to the finishes due to MEP works	note			
J24	Rates for plastering shall include for providing chamfered edges straight and neat edges.(to be chamfered)	note			
J25	Rates for plastering shall include for 200mm wide chicken mesh where concrete and masonry joints occur.	note			
J26	Rates for plastering shall include for seasoning the plaster as specified	note			
J27	Rates shall include for plastering to arched openings and any curved surfaces unless measured separately	note			
J28	Rates for plastering shall include for corner beads at vertical and horizontal edges to form straight and neat edges	note			
Internal wall plaster					
J29	16mm thick 1:5 cement plastering & finished smooth.- Ground floor	m ²	136.50		
J30	16mm thick 1:5 cement plastering & finished smooth.- First floor	m ²	158.03		
Wall Tiles					
Supply and laying of Ceramic/Porcelane wall tiles , as per detailed drawings and in an approved manufacture, colour , quality and design laid to a pattern including 20 mm thick 1:3 cement sand bedding and pointing to match the colour of tiles in the following.					
J31	First floor level Fascia	m ²	98.88		
J32	Roof level Facia	m ²	86.01		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	External Plaster				
J33	16mm thick 1:5 cement plastering & finished smooth.- Ground floor	m ²	226.80		
J34	16mm thick 1:5 cement plastering & finished smooth.- First floor.	m ²	246.75		
	16mm thick plaster in cement and sand 1:3 finished semi rough to the isolated columns in the following.				
J35	Ground floor to First floor level	m ²	65.92		
J36	Ground floor to Roof level	m ²	32.96		
	CEILING FINISHES				
	16mm thick plaster in cement and sand 1:3 finished smooth to the beams not attached to the wall in the following.				
J37	Ground floor to First floor level	m ²	127.05		
J38	First floor level to Roof level	m ²	57.75		
	Suspended Ceiling				
	Rate to include for necessary cutting/openings to accommodate light/AC/fire fittings.				
	Supplying and fixing of 600x600mm size, grid type cement fiber board ceiling fixed to hot dipped GI pre-engineered furring system including inter-locking & cross furring channels and wall angles with suspended on a combination of GI wire and 4mm adjustable hanger rods with spring clips. Painted ceiling sheets and the samples to be submitted & approval taken from the Architect before use.				
J39	First floor	m ²	188.70		
	TOTAL FOR FLOOR WALL AND CEILING FINISHES CARRIED TO SUMMARY				

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
K	PAINTING				
K1	Preparation of surface, sand papering, protecting of floors and fitting, removing and re-fixing of fittings etc.	note			
K2	Internal painting shall be interior quality emulsion paint manufacture of C.I.C. or equivalent to suit with the environment, climate and location of this project.	note			
K3	Rates shall include supplying of materials, water for mixing, handing, scaffolding, hoisting and protecting	note			
K4	Rate shall include for jambs, reveals, sills, moldings and narrow widths unless otherwise given separately	note			
	The bidder shall submit the following details on paint with all technical details and relevant literature along with the bid				
	a. Type of paint and Nos. of top & base coats				
	b. Brand				
	c. Country of manufacture.				
	d. Colours available.				
	e. Method of application.				
	f. Form of guarantee (format).				
	g. Sub contractor				
K5	The contractor shall submit a 5 year guarantee for all paint materials and application to the approval of the Engineer	note			
K6	Rate for painting shall include for painting to door and window reveals.	note			
	<u>Internal Wall Painting</u>				
	Painting walls with Dulux Acrylic wall filler where necessary.				
K7	Ground floor to First floor level	m ²	136.50		
K8	First floor level to Roof level	m ²	158.03		
	Painting walls with two coats of Pentalite Plus emulsion paint including preparing surface of new work.				
K9	Ground floor to First floor level	m ²	136.50		
K10	First floor level to Roof level	m ²	158.03		
	<u>External Wall Painting</u>				
	Painting walls with Dulux Acrylic wall filler where necessary.				
K11	Ground floor to First floor level	m ²	226.80		
K12	First floor level to Roof level	m ²	246.75		

Signature of Bidder:.....

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Painting walls with two coats of Dulux weathershield paint including preparing surface of new work.				
K13	Ground floor to First floor level	m ²	226.80		
K14	First floor level to Roof level	m ²	246.75		
	Internal Ceiling Painting				
	Prepare surfaces of fair face soffit of slab and apply two coats of approved interior quality, emulsion paint with one coat of primer and skim coating as per manufacturer's instructions to the following.				
	Painting walls with Dulux Acrylic wall filler where necessary.				
K15	First floor level	m ²	390.60		
K16	Roof slab level	m ²	95.55		
	Painting with two coats of Pentalite Plus emulsion paint including preparing surface of new work.				
K17	First floor level	m ²	390.60		
K18	Roof slab level	m ²	95.55		
	Painting walls with Dulux Acrylic wall filler where necessary.				
K19	First floor level canopy	m ²	62.83		
K20	Roof level canopy	m ²	73.13		
	Painting walls with two coats of Dulux weathershield paint including preparing surface of new work.				
K21	First floor level canopy	m ²	62.83		
K22	Roof level canopy	m ²	73.13		
	TOTAL FOR PAINTING CARRIED TO SUMMARY				

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
L	<p>ELECTRICAL WORK</p> <p>All enclosures, materials, equipment, wiring and workmanship shall confirm to local codes of specifications, B.S Standards, latest I.E.E regulations (17th edition) and Ceylon Electricity Board specifications. Contractor shall investigate the site conditions and include all the cost involved in the following rates.</p> <p>Cabling rates should include necessary cable accessories such as cable ties, Cable Lugs, Glands, identification tags and all other accessories</p> <p>Any of the following original brands purchased only from an authorized agents are acceptable.</p> <p>MCCB/MCB ABB of Italy Moller of Germany Merlin Gerin of France Hager of France Legrand of France. SIEMENS of Germany</p> <p>Cables ACL Kelani</p> <p>Note: Two year warranty is required against all switchgear and workmanship. Life time warranty for All MCCBs,RCCBs and isolators. All the following items rates are Measure and Pay Basis. Five year warranty required for all switches and sockets and all</p> <p>Distribution Board</p> <p>a.MDB To supply and install a wall mounted fully enclosed panel enclosure with cover plates and seperate door made out of 2.0mm thick steel sheet frame, 1.5 mm steel sheet panels and hinged doors, surface finished with epoxy polyester base powder spray in grey colour complete with good quality hinges and door locks etc.Including following accessories.as per the attached Single Line Diagram. 01 Nos. 125A 4P MCCB 25kA 01 Nos. 100A 4P MCCB 15kA 01 Nos. 63A 4P MCCB 15kA 01 Nos. Power Analyzer with BMS support 07 Nos. CT's Class 1 (125/5A, 5VA) 01 Nos. EFR Delab Brand 03 Nos. Indicator Lamps Direct Type (LED) 01 Nos. Indicator Type 40kA 4P MOV Surge Protection Device (SPD) 03 Nos. 2A MCB type Fuses with base 01 Earth Bar and Neutral Bus bar 01 item internal wiring</p>	Item	1.00		
L1					

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
L2	<p>b.GF- DB To supply and install a wall mounted sunk type fully enclosed panel enclosure (W*H*D*) (400*700*125mm) with cover plates and separate door made out of 2.0mm thick steel sheet frame, 1.5 mm steel sheet panels and hinged doors, surface finished with epoxy polyester base powder spray in grey colour complete with good quality hinges and door locks etc.as per the IEE wiring regulations (17th edition) including following accessories.as per the attached Single Line Diagram.</p> <p>01 Nos. 40A 4P MCB 10kA 03 Nos. 40A 2P MCB 10kA 03 Nos. 40A 2P RCCB (30mA) 06 Nos. 20A 1P MCB 10kA 09 Nos. 16A 1P MCB 10kA 06 Nos. 6A 1P MCB 10kA 03 Nos. Indicator Lamps Direct Type (LED) 03 Nos. 2A MCB type Fuses with base 01 Earth Bar and Neutral Bus bar 01 item internal wiring</p>	Item	1.00		
L3	<p>c. FF- DB To supply and install a wall mounted sunk type fully enclosed panel enclosure (W*H*D*) (400*700*125mm) with cover plates and separate door made out of 2.0mm thick steel sheet frame, 1.5 mm steel sheet panels and hinged doors, surface finished with epoxy polyester base powder spray in grey colour complete with good quality hinges and door locks etc.as per the IEE wiring regulations (17th edition) including following accessories.as per the attached Single Line Diagram.</p> <p>01 Nos. 40A 4P MCB 10kA 03 Nos. 40A 2P MCB 10kA 03 Nos. 40A 2P RCCB (30mA) 06 Nos. 20A 1P MCB 10kA 10 Nos. 16A 1P MCB 10kA 08 Nos. 6A 1P MCB 10kA 03 Nos. Indicator Lamps Direct Type (LED) 03 Nos. 2A MCB type Fuses with base 01 Earth Bar and Neutral Bus bar 01 item internal wiring</p>	Item	1.00		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
L4	<p>d. AC-DB To supply and install a free standing type fully enclosed panel enclosure (W*H*D*) (500*600*200mm) with cover plates and separate door made out of 2.0mm thick steel sheet frame, 1.5 mm steel sheet panels and hinged doors, surface finished with epoxy polyester base powder spray in grey colour complete with good quality hinges and door locks etc.as per the IEE wiring regulations (17th edition) including following accessories.as per the attached Single Line Diagram.</p> <p>01 No. 100A 4P MCCB 25kA 02 No. 63A 4P MCCB 10kA 02 No. 63A 4P RCCB 100mA 03 Nos. Indicator Lamps Direct Type (LED) 03 Nos. 2A MCB type Fuses with base 01 item internal wiring</p>	item	1.00		
L5	<p>Main Cable To supply, lay and terminate 35mm² 4 core Cu/XLPE/SWA/PVC under ground cable 2ft. below in a sand bedding from the existing DB to the New DB. Includes the cost of safety tile, tape etc.</p>	m	30.00		
L6	<p>Sub Cable To supply, lay and terminate 16mm² 4 core Cu/XLPE/PVC and 16mm² Earth wire Cu/PVC inside Conduit/Trunking including/ all related fixing apparatus, screws and pvc accessories (sockets, couplings bends, junction boxes etc.).From MDB to AC- DB.</p>	Item	1.00		
L7	<p>To supply, lay and terminate 6mm² 4 core Cu/XLPE/PVC and 6mm² Cu/PVC earth wire inside Conduit/Trunking including/ all related fixing apparatus, screws and pvc accessories (sockets, couplings bends, junction boxes etc.).From MDB to GF- DB.</p>	Item	1.00		
L8	<p>To supply, lay and terminate 6mm² 4 core Cu/XLPE/PVC and 6mm² Cu/PVC earth wire inside Conduit/Trunking including/cable ladder all related fixing apparatus, screws and pvc accessories (sockets, couplings bends, junction boxes etc.).From MDB to FF- DB.</p>	Item	1.00		
L9	<p>DB Eathing and SPD Earthing Supply and Install 3mm thick pure Copper plate earth electrode of size 600mmx600mmx3mm, 10 feet below the ground level as the main grounding point and supply and connect Pure Copper Tape of size 1/8"x1" from the Main Distribution Board (MDB) earth bar to the copper plate .For the SPD, Supply and Install 18mm diameter pure copper rod of 8 feet as the main grounding point and connect using Pure Copper Tape of size 1/8"x1" or 50mm² Earth Wire.</p>	Item	1.00		

PROPOSED EXTENSION TO ADMINISTRATIVE SECRETARIAT BUILDING AT THE SOUTH EASTERN UNIVERSITY, DULUVIL, SRI LANKA.

ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Light & Plug Points				
	a. Light Points				
L10	Supply and install light switch with PVC molded mounting box sunk/surface type using 1.5mm ² Cu/PVC/PVC red & black single core wires and 1.5mm ² Cu/PVC earth wire inside PVC conduits/trunking including all related fixing apparatus, screws and pvc accessories (sockets, bends, junction boxes etc.).	Nos	71.00		
	b. Plug Points/type-1				
L11	Supply and install 13 Amp switched socket outlet in a ring circuit with PVC molded mounting box sunk/surface type, using 2.5mm ² Cu/PVC/PVC red & black single core wires and 2.5mm ² Cu/PVC earth wire inside PVC conduits/trunking including all related fixing apparatus, screws and pvc accessories (sockets, bends, junction boxes etc.).	Nos	62.00		
	c. Plug Points/type-2 (A/C)				
L12	Supply and install 13 Amp switched socket outlet with PVC molded mounting box sunk/surface type, using 2.5mm ² Cu/PVC/PVC red & black single core wires and 2.5mm ² Cu/PVC earth wire inside PVC conduits/trunking including all related fixing apparatus, screws and pvc accessories (sockets, bends, junction boxes etc.).	Nos.	16.00		
	Lamps (Minimum two years warranty is required for the Lamp Fittings)				
L13	a. Supply and install high quality LED 40W orange 4000lm 600*600mm Light	Nos.	46.00		
L14	b. Supply and install cove lighting	Item	1.00		
L15	c. Supply and install Soffit mounted light	Nos	13.00		
L16	d. Supply and install Wall mounted light	Nos	11.00		
	Inspection and Testing				
L17	Testing of the complete Electrical Installation and issuing a certificate by a chartered Electrical Engineer, registered with Ceylon Electricity Board.	Item	1.00		
	TOTAL FOR ELECTRICAL WORK CARRIED TO SUMMARY				