

HEALTH SYSTEM ENHANCEMENT PROJECT

Funded by

ASIAN DEVELOPMENT BANK

FIELD HEALTH CENTERS – Kandy District

BILLS OF QUANTITIES

**RENOVATION AND IMPROVEMENT TO MAIN BUILDING AND
CONSTRUCTION OF WAITING AREA
AT KOLABISSA FHC**

BOQ REF NO: HSEP/RDC/CP/MT/FHC/06 (01.10.2022)

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP**BILLS OF QUANTITIES****RENOVATION AND IMPROVEMENT TO MAIN BUILDING AND CONSTRUCTION OF
WAITING AREA AT KOLABISSA FHC****GRAND SUMMARY**

ITEM NO.	DESCRIPTION	AMOUNT (LKR)
1	BILL NO - 1 PRELIMINARIES	
2	BILL NO -2 - RENOVATION & IMPROVEMENT WORK	
3	BILL NO -3 - CONSTRUCTION OF WATING AREA	
	SUB TOTAL 01	
	Less	
	PROVISIONAL SUM	(115,000.00)
	SUB TOTAL 02	
	DISCOUNT IF ANY	
	SUB TOTAL 03	
	Add	
	PROVISIONAL SUM	115,000.00
	CONTINGENCIES 10% (FROM SUB TOTAL 02)	-
	BILL NO -4 -DAY WORK DEFINITION	
	SUB TOTAL 04	
	Add	
	VAT 15% (FROM SUB TOTAL 04)	
	GRAND TOTAL	

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP

BILLS OF QUANTITIES

KOLABISSA FCH , KANDY DISTRICT

BILL NO - 1 PRELIMINARIES

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Preliminaries				
	Note : Following items to be priced as appropriate.				
1.1	Insurance and Securities				
1.1.1	Allow lump sum for Providing a Performance Security	Item			
1.1.2	Allow lump sum for providing an Advance Payment Security	Item			
1.1.3	Allow lump sum for insurance of Works, Machinery & Equipment, Plant, Materials, third party persons & property and Employer's personnel & property at site as per the Contract.	Item			
1.1.4	Allow lump sum for insurance against accidents and injury to Contractor's personnel as per the Contract.	Item			
1.2	Management of the works				
1.2.1	Allow lump sum for providing Project Management services	Item			
1.3	Engineer's /Contractor's Facilities				
1.3.1	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, a temporary building for Contractor's site office and workers' accommodation including necessary furniture, sanitary facilities, electricity and other facil	Item			
1.3.2	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, buildings to be used as workshops and stores for materials.	Item			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.3.3	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the works, a temporary building for Engineer's site office (Minimum floor area of 9m ²) in conformity with Engineer's requirements including necessary furniture , sanit	Item			
1.4	Quality, Standards and Progress				
1.4.1	Allow lump sum for provision of progress reports including photographs, progress charts, progress records, schedules as directed by the Engineer.	Item			
1.4.2	Allow lump sum for all cost in connection with testing materials/works, preparing samples for testing, making arrangements for testing of Materials, Goods etc., as stipulated in the specification, obtaining test reports and submitting the same to the Eng	Item			
1.4.3	Allow lump sum for provision of 3 sets of (A1 size hard copies and soft copies) as-built drawings of all services, as directed by the Engineer.	Item			
1.4.4	Allow lump sum for submission of shop drawings in triplicate with an electronic copy as directed by the Engineer.	Item			
1.5	Health, Safety and Environment				
1.5.1	Allow lump sum for providing and maintaining first aid box and regular supply of medicine, linen etc.	Item			
1.5.2	Allow lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulations and as directed by the Engineer.	Item			
1.5.3	Allow lump sum for making adequate provision against air and noise pollution of surrounding areas. Hoarding and dust screens shall be provided to control dust escaping to surrounding areas.	Item			
1.5.4	Allow lump sum for maintaining the site in a clean and orderly manner at all times and during the entire contract period. The Contractor shall take due care to prevent water stagnation, element mosquitos breeding places at the site and this is to be ensur	Item			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.5.5	Allow lump sum for demobilization, removal of all rubbish & debris and clearing up site on completion, leaving all in good order and handing over.	Item			
1.6	Security and Protection				
1.6.1	Allow lump sum for providing and maintaining necessary fencing, hoarding and gates for safeguarding the Works, Materials and Plant, as directed by the Engineer.	Item			
1.7	Services and Facilities				
1.7.1	Allow lump sum for supply of water for the Works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, storage and reticulation.	Item			
1.7.2	Allow lump sum for supplying temporary electricity (3 phase connection) for the Works including connection, distribution system for the Works, internal arrangements and all payments to the authorities for consumption.	Item			
1.7.3	Allow lump sum for providing & maintaining telephone facility	Item			
1.8	Miscellaneous				
1.8.1	Allow lump sum for providing and maintaining a name board to the specifications and / or as directed by the Engineer.	Item			
	TOTAL CARRIED TO GRAND SUMMARY				

**HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP
KOLABISSA FCH , KANDY DISTRICT**

SUMMARY 1

BILL NO -2 - RENOVATION & IMPROVEMENT WORK

NO	DESCRIPTION	Rs.	AMOUNT
1	Demolition, Alteration, Repair and Maintenance works	Rs.	
2	Excavation and Earth Work	Rs.	
3	Concrete	Rs.	
4	Masonry Works	Rs.	
5	Water Proofing Work	Rs.	
6	Aluminum Work	Rs.	
7	Wood Work	Rs.	
8	Plumbing and Sanitary Installations	Rs.	
9	Electrical Installation	Rs.	
10	Floor, Walls and Ceiling Finishes	Rs.	
11	Painting Works	Rs.	
TOTAL CARRIED TO GRAND SUMMARY		Rs.	

**HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP
BILLS OF QUANTITIES**

KOLABISSA FCH , KANDY DISTRICT

BILL NO -2 - RENOVATION & IMPROVEMENT WORK

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.00	Demolition, Alteration, Repair and Maintenance works				
	The bidders are advised to visit site and make careful study of all conditions and the nature of work to be done under this contract, as no extras will be allowed on the plea of want of information due to negligence of on their part in this regard.				
	All demolished materials, except those required to be stacked shall be carted away during the demolition operation.				
	Obtain confirmation from the Employer and Engineer that all power cables and power lines within the site have been disconnected and removed.				
	Obtain in writing clear from the Employer and Engineer as to of demolition and provide adequate protection to other parts of the building which is requires to be protected.				
	Rate shall include necessary supporting works which required to complete the works.				
	Demolished material which are not usable shall be the property of the Contractor				
	Usable materials arising from demolitions shall be the property of Employer and instruction given by the Engineer or the Employer.				
1.1	Doors and Windows				
1.1.1	Carefully remove and store the existing with fram door & window of size not exceeding to 4.0 m ² .	nr	3.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.2	Sanitary fittings and Accessories				
1.2.1	Carefully remove existing Sguting pan	nr	2.00		
1.3	Services				
1.3.1	Disconnect & Removing the Electrical system	Item	1.00		
1.3.2	Disconnect & Removing the water supply & sewerage system	Item	1.00		
1.4	Hacking up Paving				
1.4.1	Breaking & Removing the existing Cement Pavement around the Building as directed by the Engineer	m ²	25.00		
1.4.2	Breaking & Removing the existing drain with concrete base and brick walls with section up to 0.3m ² around the Building as directed by the Engineer	m	10.00		
1.5	Flooring and Ceiling				
1.5.1	Removing the existing ceiling with all relative fittings with taking care of all good fittings and items	m ²	93.00		
1.5.2	Breaking & Removing the existing floor tills area including cement mortar bed as directed by the Engineer	m ²	5.00		
1.5.3	Breaking & Removing the existing cement rendered floor area as directed by the Engineer	m ²	20.00		
1.5.4	Chipping & clearing debris away from concrete floor rendering.	m2	5.00		
1.6	Walls				
1.6.1	Carefully cut and prepare uneven surfaces to receive paint.	m ²	100.00		
1.6.2	Paint removing from any surfaces with blow lamp.for timber Door & window	m2	33.00		
1.6.3	Chipping & clearing debris away from brick wall plasters	m2	10.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.6.4	Chipping & clearing debris away from concrete wall plasters	m2	8.00		
1.6.5	Breaking & Removing the existing tiled wall area including cement mortar bed as directed by the Engineer	m ²	18.00		
1.7	Brick work				
1.7.1	Demolishing bricks walls 112.5mm thick inclusive of plaster and any fixtures including debris cleared away.	m2	10.00		
1.7.2	Demolishing bricks walls above 225mm thick inclusive of plaster and any fixtures including debris cleared away.	m2	33.00		
1.8	Roof				
1.8.1	Remove and store existing down pipes	m	13.00		
1.8.2	Remove and store existing Gutter	m	14.00		
1.8.2	Remove and store existing ,valance board & Bardge Board	m	20.00		
	TOTAL CARRIED TO COLLECTION				
2.0	Excavation and Earth Work				
2.0	Surface Treatment				
2.10	Anti termite treatment with Biflex for ground floor area of the building according to the manufacturers specifications by a specialist pest control service provider approved by the engineer. 10 year warranty for material and workmanship from the date of handing over the work shall be provided.	PS			50,000.00
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
3.0	Concrete				
	The Bidder shall refer the followings prior to pricing the items in this trade.	note			
	a. All relevant drawings				
	b. Specifications				
	c. Pricing preambles				
	d. Location				
	All concrete shall be made dense with a vibrator. Rate shall include for plant for mixing , handling, hoisting, depositing, compacting ,vibrating, curing, making good after removal of form work and for any tests when necessary.	note			
	Ordinary Portland cement (OPC) cement complied with relevant Sri Lanka standards and approved by Engineer shall be used.	note			
	Rates shall include for forming expansion joints, construction joints, and the like including necessary sealant and other accessories, unless otherwise separately measured.	note			
	Rates shall include for forming holes in concrete, cutting chases and the like as necessary.	note			
3.1.1	Grade 15 mass concrete	m ³	2.00		
3.1.2	Reinforced in-situ Grade 25 concrete	m ³	3.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
3.2	Formwork				
	Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the dimensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other super imposed loads which would be subjected to during construction.	note			
3.2.1	Form Work	m ²	10.00		
3.3	Reinforcement				
	Tor Steel characteristic strength 460 N/mm ² and Mild Steel characteristic strength 250 N/mm ² as reinforcement to RCC works.	note			
	Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. E.g. chairs, benches, stools, spaces, ties, hangers and binding wires.	note			
3.1.1	Reinforcement	kg	50.00		
3.5.2	Drains 225mmX150mm in cement concrete 1:2 1/2:5(25mm),, 75mm thick sides and base, inclusive of 12mm cement rendering 1:3 with necessary 3000mm c/c expansion joints and rate including excavation , form work laying polythene	m	5.00		
3.5.3	750mm wide ramp and 225mmX150mm complete with 75 mm concrete slab to ramp, 12mm thick rendering in 1:3 cement & sand finished with neat cement floating and Drains with 75mm thick sides and base, in cement concrete 1:2 1/2:5(25mm), inclusive of 12mm cement rendering 1:3 in cement & sand with necessary expansion joints 3000mm c/c and rate including excavation , form work laying polythene including cover slab 75mm thick G 25 concret , 10mm R/F 150 C/C Both ways	m	5.00		
TOTAL CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
4.0	Masonry Works				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Rates for masonry works shall include for plumbing angles, forming rebates levels, square, cutting and racking of joints for plastering.	Note			
	Rate shall include for all necessary types of scaffolding whether specified separately or not.	Note			
	Rate shall include for expansion joint construction, anchoring between RC structure and masonry as necessary.	Note			
4.1	Random Rubble masonry work				
4.1.1	Random rubble masonry work in cement sand mortar 1:5. in wall foundations.	m ³	0.50		
4.2	225 mm thick brick work in cement and sand 1:5				
4.2.1	Ground floor slab level to roof level & Roof floor level	m ²	3.00		
4.3	150mm thick Block work				
4.3.1	Ground floor slab level to roof level & Roof floor level	m ²	3.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
5.0	Water Proofing Work				
	The tenderers are requested to refer Bills of Quantities, Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Work shall be carried out strictly according to manufacture's specification and to the engineer's approval.	Note			
	Contractor shall give a warranty of 10 years in respect of workmanship and materials with effective from the date of completion of water proofing.	Note			
	The bidder shall submit the following technical details for approval before commencing of the work.	Note			
	(a) Type of waterproofing.				
	(b) Brand name.				
	(c) Country of origin.				
	(d) Method of application.				
	(e) Detail of guarantee (format)				
	(f) Suitability to the nature of the surfaces.				
	(g) Technical literature				
	Rate shall include for forming 25 x 25mm angle fillets in 1:3 cement and sand at all right angled edges.	Note			
	Rates shall include for preparation of surfaces, cutting, notching, bending, curing and extra material for lapping, working into recesses, inserts, pipes and the like and for working to falls and cross falls and protecting as per manufacturer's instruct.	Note			
	Rate shall include for ponding tests as per specifications and to the approval of the Engineer.	Note			
	Damp proof membrane				
5.1	Supplying and laying 1000 gauge polythene under foundations and floor slabs	m ²	5.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Toilet areas				
	Water proofing treatment to toilets including preparation of the surface and application with Barralastic as per the manufacture's instructions & specifications, including leveling screed and protective screed Rate including Angle filled 25mmX 25mm at edges using non shrinkage grout and fiber mash (200mm) after clearing at edges				
	In floor				
5.2	In floors toilet	m ²	6.00		
	In walls				
5.3	In floors toilet	m ²	18.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
6.0	Aluminum Work				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	All Aluminum sections shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.	Note			
	All Aluminum sections shall be fully treated extruded Aluminum alloy sections manufactured in accordance with specifications attached herewith.	Note			
	All Aluminum sections to be locally manufactured and should be of make approved by the engineer. ("Alumax" or similar products of equivalent technical parameters)	Note			
	The contractor shall submit samples of materials and shop drawings for prior approval	Note			
	Doors & Windows				
	All doors, windows & partitions items described here under shall be fabricated with powder coated aluminum extrusions conforming in all respects to the specification and detail drawings unless otherwise specified. The powder coating thickness of aluminum extrusions shall be 60 - 80 micron and in a color approved by the engineer.	Note			
	The Contractor shall submit certificates from the Aluminum manufacture and/or an approved testing laboratory which attest that the coating thickness offered is as specified.	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Aluminum extrusions of Doors, windows & Partitions, should be with correct sizes and thickness and fabricated as specified by the manufacturer to suit with the actual dimensions of openings and strength enough to stand for wind pressure of the environment in the building area.	Note			
	Rates shall include for all necessary fixings, fittings, ironmongery of approved quality and manufacture.	Note			
	Glazing for all glazed aluminum doors & windows shall be 6mm thick clear float glass and for fanlights shall be 5 mm thick "Pinheaded" or frosted glass.	Note			
	All glass shall be approved make.	Note			
	Glass shall be secured at all edges with compression gaskets and glazing beads. When fixing glass, all glazing sealant shall be carefully applied and cleaned off properly.	Note			
	Concealed screws, nuts, bolts, rivets and other fastening devices shall be of Aluminum, Non-magnetic stainless steel or other approved corrosive resistant materials. If visible, they shall blend with the finish of the framing Aluminum sections.	Note			
	Hinges, Handles, Catches, fixtures etc., shall be minimum of grade 304 stainless steel and approved make.	Note			
	Rate for aluminum doors shall include for "Yale" or equivalent S/S Rim locks with 3 keys & Stainless steel door handles.	Note			
	All Aluminium sections to be locally manufactured ("Alumex" or similar products of equivalent technical parameters)	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Doors				
6.1	Supplying, fabricating and fixing single sash swing, composite Aluminum panel door with aluminum frame fabricated with 100 x 45 mm (1.5mm thick) extrusions top & bottom panel in 4mm thick both side compopos aluminium board all complete as Door lock .Door handle ,per drawing and Engineers approval. Door type D3, 750 x 2100 mm sized overall In Toilet (2 No's)-Toilet	m ²	3.15		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
7.00	Wood Work				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	All Timber shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.	Note			
	All Timber shall be fully treated	Note			
7.1	Fabricating & fixing door 28mm (Nominal 26-28mm) thick plywood sash with 95mm x 70mm (Nominal) treated kempas timber frame, oxidized heavy duty furniture, original mortise door lock approved by engineer, 1 Nos of 150mm oxidized barrel bolt .rate included primer under coat & two coats of enamel paint.(3Nos of hingers) top part of timber biralu (300mm hight)	m2	3.50		
7.2	Fabricating & fixing door 28mm (Nominal 26-28mm) thick Kempas sash with 95mm x 70mm (Nominal) treated kempas timber frame, oxidized heavy duty furniture, original mortise door lock approved by engineer, 1 Nos of 150mm oxidized barrel bolt .rate included primer under coat & two coats of enamel paint.(3Nos of hingers) top part of timber biralu (300mm hight)	m2	5.00		
7.3	Fabricating and fixing fully glazed window W2720mmX1850 mm28mm thick clas 1 or above sashes and frame with nominal size 95mmx70mm using treated kempas timber complete with oxidized heavy-duty furniture,3.0mm clear / pinhead glass, including two coats of enamel paint & primer under coat.top part of timber biralu (300mm hight) (1 Nos)	m2	0.80		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
7.4	Remove, repair and re fix window sash using class 1 timber,. Glass , window fasteners, pulling ring hinges	PS			45,000.00
7.5	Remove, repair and re fix door sash using class 1 timber,, pulling ring hinges etc	PS			20,000.00
7.6	Supply and fixing single hung mortise type door locks similar as existing locks	nr	8.00		
7.7	Supply and fixing 100mm Long Oxidized Baral bolt	nr	15.00		
7.8	Supply and fixing 250mm Long Oxidized Casement stays	nr	10.00		
7.9	Supply and fixing 100x62mm Oxidized Hinges	nr	10.00		
7.10	Supply and fixing Oxidized Casement fasner	nr	10.00		
7.11	Supply and fixing 300mm Oxidized Casement stays	nr	10.00		
7.12	Supply & Fixing 5mm Thick Clear Glass for Windoor & Door	m ²	2.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
8.0	Plumbing and Sanitary Installations				
	All unplasticized polyvinyl chloride (uPVC) pipes used in the plumbing installation must conform in every respect to the requirements of the SLS 147:1993 or BS 4514 and PVC fittings to SLS 659:1993.	Note			
	Full installation shall comply with the relevant Sri Lankan, British or any other standard as given under the specifications and with the regulations of relevant authorities.	Note			
	All fittings and specials used in the plumbing installation shall be suitable in all respects to the pipe line to which fittings and specials are fixed.	Note			
	Rates shall include for submitting samples, protecting works and getting shop drawings approved from the Architect/Engineer.	Note			
	Plumbing Work				
	Rates for plumbing work shall include for the cost of following:	Note			
	1. Cutting and waste of pipes etc. and joining pipes.				
	2. Irrespective of the pipe diameter, all specials such as elbows, bends, tees, junctions, plugs, reducers and similar pipe fittings except for valves which will be measured separately.				
	3. Necessary screws, nails, sockets, connection back nuts standard pipe fixing or supporting clips, saddles, brackets, holder bats, straps etc.				
	4. Connecting pipes to sanitary fixtures, appliances and different types of pipes.				
	5. Laying in ducts, trenches, chases, floor screeds and insitu concrete.				
	6. Excavation, backfilling, disposal of surplus soil.				
	7. Chasing to brick, cement block or concrete walls, columns, beams etc. and making good all works disturbed.				
	8. Obtaining necessary approvals from Local Authorities, CEA etc.				
	9. Testing, commissioning and disinfection after completion.				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
8.1	Cold Water Supply				
	Supplying and laying of uPVC pipes of Type (PNT14) for cold water supply under slabs and along walls as described below: Rate shall include for necessary fittings.				
8.1.1	20mm dia. PVC pipe including all specials	m	10.00		
	Supplying and laying of uPVC pipes of Type (PNT11) for cold water supply under slabs and along walls as described below: Rate shall include for necessary fittings.				
8.1.2	25mm dia. PVC pipe including all specials	m	10.00		
8.1.3	32mm dia. PVC pipe including all specials	m	10.00		
8.2	Waste water pipes				
	All underground drainage pipe work shall be in UPVC (PNT7) to BS 4660	Note			
	Rate shall include for necessary fittings.	Note			
8.2.1	50mm dia. waste water pipe laid in under ground & buried in floor screed or chased to wall or laid as directed by the Engineer.	m	10.00		
8.2.2	63mm dia. waste water pipe laid in under ground & buried in floor screed or chased to wall or laid as directed by the Engineer.	m	10.00		
8.3	Soil pipes				
	All above waste pipe work shall be in PVC (PNT7) to BS 4514 and BS 5255	Note			
8.3.1	110mm dia. soil pipe laid as directed by Engineer.	m	10.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Sanitary Fittings and Fixtures				
	Unless otherwise stated all sanitary fittings and fixtures shall be of Rocell Bath ware or equivalent or Imported Manufacture, such as American standard, or alternate makes. prior written approval to be granted by the engineer for quality & performance of fittings. (Specification & samples to be produced by the contractor, whenever requested)	Note			
	Color of all sanitary fittings shall be white.	Note			
	Contractor shall give a warranty of 10 years in respect of workmanship and materials with effective from the date of completion of the work.	Note			
	The bidder shall submit the following technical details for approval before commencing of the work. a)Brand name b)Technical specifications c)Detail of guarantee	Note			
	Supply and installation of sanitary appliances include pipe specials, fittings and connection to water supply and waste and soil pipes lines and commissioning.	Note			
	Rates for sanitary fittings shall include for the cost of following:	Note			
	1. Waste water outlet, internal overflows etc., supporting brackets and incidental materials for fixing.				
	2. Assembling, jointing together fixing components parts and jointing to pipes including necessary coupling and for leaving perfectly clean and in perfect working order as on completion.				
	3. Jointing and connection pipes to sanitary fittings.				
	4. Making good the work disturbed.				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
8.4	Ceramic wash basin, pedestal type, 22" x 16" Rocell Urban D or equivalent fixed with chromium plated waste outlet, magic hose, screws, plug Chromium plated 20mm dia. angle valve, , PVC flexible hose including 40mm dia: plastic bottle trap & silicone, all completed to working order.	nr	2.00		
8.5	Ceramic water closet (commode) Rocell Urban D or equivalent installed on tiled floor including Chromium plated 20mm dia. angle valve, , PVC flexible hose & thread seal, commode screws, plug and Supplying and Magic bend 110mm dia. For existing W.C. set etc	nr	1.00		
8.6	Supplying & fixing approved new closet squatting foot rest type (Orissa pan) with trap, supplied and fixed to working order including connection to sewer line.	nr	1.00		
	Bidet shower fixed to wall, completed with Chromium plated 20mm dia. angle valve, thread seal, silicone, connect to water supply, all completed to working order.	nr	1.00		
8.7	Supply and fixing superior quality plate glass beveled mirror size 600 x 450mm free from ripples and all blemishes mounted on fiber glass frame with chromium plated brass screws.	nr	1.00		
8.8	Supplying and fixing Stainless steel soap tray fixed to wall with fiber plugs.	nr	1.00		
8.9	Supply & fixing Stainless steel towel rail 25mm dia. and 600mm long fixed to wall with fiber plugs and chromium plated brass screws.	nr	1.00		
8.10	Supplying and fixing Stainless steel toilet paper holder fixed to wall with fiber plugs at 600mm above finished floor level.	nr	1.00		
8.11	25mm dia.brass gate valve fixed complete with PVC gum, faucet sockets, thread seal, silicone, connect to water supply, all completed to working order.	nr	2.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
8.12	Wash basin tap Rocell VERO SD91223L or equivalent fixed complete with angle valve, flexible hose, thread seal, silicone, connect to water supply, all completed to working order.	nr	4.00		
8.12	Supplying & fixing 20mm dia. bib tap Rocell Z071001/011850 or equivalent with long body chromium plated. fixed complete with , thread seal, silicone, connect to water supply, all completed to working order. (Approved quality)	nr	2.00		
8.14	Supplying and fixing 20mm(1/2") pipe dia. Chromium plated Shower rose (Rocell FHS 30A or Equivalent).	nr	1.00		
8.15	Supplying and fixing 20mm(1/2") dia. Chromium plated consevalve (Rocell FHS 30A or Equivalent).	nr	1.00		
8.16	Providing Catch pit 150mm x150mm x75mm in cement mortar. and stainless steel gully grating 150mm x150mm.	nr	1.00		
TOTAL CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
9.0	Electrical Installation				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Contractor shall propose shop drawings/conduit layout drawings and shall obtain approval from consultant engineer before commencing work.	Note			
	Contractor shall obtain sample approval for all items before commencing the work.	Note			
	Rates shall include for all necessary materials, cables, conduits, PVC sunk box, bulbs, holders, ceiling rose, switches etc. to complete the electrical installation in good order.	Note			
	Electrical items are to be of the following makes:	Note			
	(a) Electrical switches and socket outlets: MK, Crabtree, PDL Tenby, Clipsal, Kevilton, Orange or equivalent				
	(b) Distribution boards: Consumer unit flush mount type or as specified				
	(c) Fans:				
	K.D.K., National-Japanese origins				
	(d) Exhaust Fans:				
	K.D.K., National-Japanese origins				
	(e) Switch Gear - MCCB'S				
	Schneider, Siemens, ABB, Hager, Moeller, Terasaki, Meta-MEC of LS Brand or equivalent				
	[f] RCCB , MCB'S				
	Schneider, Siemens, Crabtree, Hager, Moeller, Legrand Eaton, Meta-MEC of LS Brand or equivalent				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	[g] Fluorescent Fittings :				
	The Choke, Starter & Capacitor should be of good quality, British, French, Australia, German or equivalent & the tube should be preferably, Thorn, Philips, osram, National or equivalent. The fluorescent fittings should be fabricated in gauge Not smaller than 24 SWG Zinc coated metal. Finished with powder coating (white in color.)				
	[h] Distribution sub panels: Shall be in surface mount plastic enclosure or metal enclosure fabricated with zinc coated sheet metal of gauge Not less than 1.8mm total enclosed, with hinged door with protective cover plate for terminals. Finished with powder coating of approval color and components as specified in the BOQ				
	[i] Cable : ACL , Kalani or equivalent.				
	[j] Energy saving bulbs : 4 Star rated. Or LED Lamps				
	Wiring type in concealed conduit ,floor conduit, metal or PVC trucking	Note			
	All panel boards and consumer units should have wire numbering and a laminated circuit diagram should be pasted on the inside surface of the door.	Note			
	All types of fittings, materials, painting and finishes shall be approved by the Electrical Engineer prior to installation.	Note			
	Ref Drg No RDC/HSEP/CTRL/KDY/KLB-FCH/EL-01 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-02 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-03 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-04 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-05				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Point wiring				
9.1	Wiring for internal light points using 2x1.5mm ² , PVC/ PVC/CU drawn through securely fixed concealed PVC conduit , including 10A switch .	nr	58.00		
9.2	Wiring for Fan points , from switch, using 2x1.5mm ² + 1.5 mm ² earth cable , PVC/ PVC/CU drawn through securely fixed concealed PVC conduit , Controlled by a 10A switch .& fan controler	nr	8.00		
9.3	Wiring for 2x13A Socket outlets (including supply of all material required) using 2 x 2.5 mm ² + 2.5 mm ² earth cable drawn through securely fixed concealed PVC conduit.	nr	14.00		
	Luminaires and fixtures				
	Luminaires				
9.4	Supply & installation of surface mounted 18W LED lamp fitting with all necessary accessories	nr	42.00		
9.5	Supply & installation of 18W LED wall lamp fitting with all necessary accessories	nr	12.00		
9.6	Supply & installation of surface mounted 12W LED lamp fitting with all necessary accessories	nr	4.00		
9.7	Supply & installation of 18W LED mirror lamp fitting with all necessary accessories	nr	1.00		
	Fixtures				
9.8	Supply & installation of 2x13A Socket switch outlets	nr	14.00		
9.9	Supply & Installation of type (SLS814) ceiling fan 1400mm dia complete 5 speed hum free (Electrical switch size 85X85) regulator safety switch and wire in working order (Excluding Wiring) (prime cost Rs 16,000.00)	nr	8.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	In recessed type plastic enclosure as specified complete with following switch gears to be supplied and installed to working order.				
9.10	Main DB- 1 Comprised with 1 Nos 40A DP MCB, 1 Nos 40A DP RCCB, 4 No. 10A SP MCB, 3 No. 20A SP MCB, 1 No. 30A SP MCB,	nr	1.00		
9.11	Main DB- 2 Comprised with, 1 Nos 40A DP MCB, 1 Nos 40A DP RCCB, 3 No. 10A SP MCB, 1 No. 30A SP MCB	nr	1.00		
9.12	2x6 sq. mm + 6 sq. mm E cable-main cable	m	20.00		
	Supply and install earthing system according to IEE wiring regulation and to achieve less than 10 Ohm Earth resistance.				
9.13	Earth electrode complete with 1.8m long, 16mm dia. Copper rod firmly driven in the earth near the building room and purpose made earth pit. suitable copper cable solidly connected with earth electrode. Supply and installation of all other accessories deemed to be required the proper operation of the system. Rate shall include the construction of specified size of earth pit with a removable cover.	Item	1.00		
	Inspection & Testing				
9.14	Testing the installation & rectify any defect & submit a certificate by a chartered Electrical Engineer.	Item			
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
10.0	Floor, Walls and Ceiling Finishes				
	The Contractor is advised to refer the Drawings, Specification, pricing preambles and the finishes schedule prior to pricing of this section of work.	Note			
	Rates shall include for temporary rules, screeds, ground etc., all normal cutting arises, raking out knots of brick work, hacking knots of concrete, rounded angles and the like, bedding, pointing, forming joints making good between different surfaces, around pipes, sanitary fittings and other fixtures and cleaning down upon completion.	Note			
	Extra over provision for narrow widths such as door/ window reveals have not been measured separately for all types of finishes. Rates shall include for narrow widths unless otherwise included in the BOQ.	Note			
	Rates shall include for builders work in connection with electrical/mechanical installation and plumbing unless measured otherwise.	Note			
	Ensure that all floor finishes are laid to falls as indicated or towards external sides so as to prevent stagnation of water.	Note			
	Tile samples shall be provided for approval by the Engineer prior to purchase of materials.	Note			
	Rate for tiles shall include for preparation of sub-surface, setting out, sub-screeds, bedding, protection of tiles etc. as per specification.	Note			
	Rates for plaster work shall include for reinforcing joints between different types of construction material (e.g. Brick work and concrete work) with 150mm wide galvanized steel mesh as directed by the Engineer.	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Rates shall include for covering and protection of finishes from weather and construction operation.	Note			
	Rates for ceiling finishes shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion.	Note			
	Floor Finishes				
	Locally manufactured porcelain floor tiles of approved quality, color and variety with all specials in specified areas as per the BOQ straight joints in both ways including all shapes, corner and angles set in 12mm thick cement and sand (1:3) screed bedding with neat cement floating level and to slopes < 15° from horizontal and all joints shall be pointed with colored tile grout to match with tiles.				
10.1	300 x 600 mm homogeneous Rocell 9BW-GL or equivalent glazed porcelain tiles of approved color laid to design-Toilet	m ²	5.00		
	<u>Cement rendering</u>				
10.2	Plinth plastering 20mm thick, Cement rendering in cement & sand (1:3) screed, level, finished smooth	m ²	5.00		
10.3	100mm high skirting 20mm thick, Cement rendering in cement & sand (1:3) screed, level, finished smooth	m	5.00		
10.4	Floor rendering 20mm thick, Cement rendering in cement & sand (1:3) screed, level, finished smooth	m ²	10.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Wall Finishes				
	<u>Wall Tiling</u>				
	Locally manufactured glazed wall tiles of approved quality, color and variety with all specials in specified areas as per the BOQ straight joints in both ways including all shapes, corner and angles set in 12mm thick cement and sand (1:3) screed backing on walls to specified height with beveled edge from floor level and all joints shall be pointed with colored tile grout to match with tiles.	Note			
10.5	300 x 600 mm homogeneous matte porcelain tiles EM-611 or equivalent laid to design-Toilet	m ²	18.00		
	<u>Wall Plastering</u>				
10.6	16mm thick plastering to wall in cement and sand (1:5), finish smooth on brick / concrete surfaces (Internally)	m ²	40.00		
10.7	16mm thick plastering to wall in cement and sand (1:5) finished semi rough on brick / concrete surfaces.(Externally).	m ²	30.00		
	Ceiling Finishes				
	Rates shall include for the cost for scaffoldings, supplying arrangement in erections.	Note			
	Rate shall include for all necessary cuttings, drillings, bolting, reverting, welding, grinding, delivering, unloading, hoisting, erecting and fixing in position, leveling, plumbing and preparation, submission and getting approval of all shop drawings.	Note			
	Rate shall include for 2 wood pasava cclear	Note			
10.8	Supply and installation asbestos free cement board (4.5mm thick) ceiling with to 100mm x 50mm joists in 1200mm C/C and 50mm bearers in 600mmC/C of (class I) timber Rate to include 2 coats of wood preservatives to joists and bearers. Primer undercoating and two coats of emulsion paint	m ²	93.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
11.0	Painting Works				
	Rate shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, patching up cracks, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion.	Note			
	Rate shall include for painting of reveals etc.	Note			
	Rates shall include for protection of floors, fittings and cleaning upon completion.	Note			
	Internal Faces				
11.1	Apply 2 coats of skim coats on cement plastered surfaces, smoothed with sand paper to receive the paint.	m ²	258.00		
11.2	Internal painting on internal walls; general surfaces/plain surfaces on walls/ Isolated column / reveal including prepare & apply one coat of filler/primer & two coats of emulsion paint as directed.	m ²	258.00		
11.3	Internal painting on door & window prepare & apply one coat of filler/primer & two coats of enamel paint as directed.	m ²	93.00		
	External Faces				
11.4	External Painting on Plastered work ; general surfaces/ plain surfaces on walls/ Isolated column / reveal including prepare and apply one coat of primer and two coats of weather shield paint as directed.	m ²	110.00		
11.5	Painting Floor with two coats of Epoxy floor paint including washing cleaning and smoothing down the surface	m ²	93.00		
11.6	Painting Floor with two coats of Quick drying floor paint including washing cleaning and smoothing down the surface	m ²	40.00		
	TOTAL CARRIED TO COLLECTION				

**HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP
BILLS OF QUANTITIES**

KOLABISSA FCH , KANDY DISTRICT

**SUMMARY 2
BILL NO -3 - CONSTRUCTION OF WATING AREA**

NO.	DESCRIPTION		AMOUNT
1	Excavation and Earth Work	Rs.	
2	Concrete	Rs.	
3	Water Proofing Work	Rs.	
4	Masonry Works	Rs.	
5	Structural Steel Work	Rs.	
6	Roof Covering and Roof Plumbing	Rs.	
7	Aluminum Work	Rs.	
8	Electrical Installation	Rs.	
9	Floor, Walls and Ceiling Finishes	Rs.	
10	Painting Works	Rs.	
	TOTAL CARRIED TO GRAND SUMMARY	Rs.	

**HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP
BILLS OF QUANTITIES**

KOLABISSA FCH , KANDY DISTRICT

BILL NO -3 - CONSTRUCTION OF WATING AREA

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.0	Excavation and Earth Work				
	The Tenderer is requested to refer the General Note, Pricing Preambles, Drawings, Specification, Condition of Contract and other relevant documents prior to pricing of the following items.	note			
	Rates for excavations shall include for:	note			
	1) Leveling bottom of excavated surfaces.				
	2) Bulking after excavation.				
	3) Earth work supporting if required.				
	4) Working spaces if required.				
	Tenderer shall provide due protection to avoid any damages to any new or old structures during excavation.	note			
1.1	Site Preparation				
1.1.1	Site clearing including removing all debris, small trees up to 0.5 m girth, vegetation including top soil up to 150 mm depth and dispose to suitable locations.	m ²	72.00		
1.1.2	Cutting trees girth 0.5m to 1.0m, removing root balls and stacking logs.	nr	2.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
1.2	Excavation				
	Earth excavation in any material except rock requiring blasting, part return fill rammed and well consolidated. All excavations to be protected from rain/storm water runoff falling into the same by suitable means. Unsuitable material shall dispose to approved locations	note			
1.2.1	Excavation for foundation pits.	m ³	4.50		
1.2.2	Excavation for foundation trench	m ³	6.00		
1.2.3	Excavation for curb wall foundation trench	m ⁴	5.00		
1.2.3	Disposal of excavated earth and debris to a suitable locations including relevant approvals and depositing without disturbing to the public.	m ³	10.50		
1.3	Earth Filling				
	Earth filling and compaction up to required level to be carried out as per specification.	note			
1.3.1	Earth filling with suitable excavated material and compacting in layers up to required level.	m ³	4.00		
1.3.2	Filling under floor with imported soil and compacting in layers.	m ³	10.00		
1.3.3	Sand filling under floor with compacting in layers.	m ³	1.65		
1.4	Surface Treatment				
1.4.1	Anti termite treatment with Biflex for ground floor area of the building according to the manufacturers specifications by a specialist pest control service provider approved by the engineer. 10 year warranty for material and workmanship from the date of handing over the work shall be provided.	m ²	70.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
2.0	Concrete				
	The Bidder shall refer the followings prior to pricing the items in this trade.	note			
	a. All relevant drawings				
	b. Specifications				
	c. Pricing preambles				
	d. Location				
	All concrete shall be made dense with a vibrator. Rate shall include for plant for mixing , handling, hoisting, depositing, compacting ,vibrating, curing, making good after removal of form work and for any tests when necessary.	note			
	Ordinary Portland cement (OPC) cement complied with relevant Sri Lanka standards and approved by Engineer shall be used.	note			
	Rates shall include for forming expansion joints, construction joints, and the like including necessary sealant and other accessories, unless otherwise separately measured.	note			
	Rates shall include for forming holes in concrete, cutting chases and the like as necessary.	note			
2.1	<u>Grade 15 mass concrete as per the detail drawings and specifications.</u>				
2.1.1	50 mm Thick screed	m ²	16.25		
2.1.2	Curb wall foundation	m ³	0.50		
2.2	<u>Reinforced in-situ Grade 25 concrete as per the detail drawings and specifications.</u>				
	<u>Up to ground slab</u>				
2.2.1	Column base	m ³	1.10		
2.2.3	Columns Shaft	m ³	0.35		
2.2.4	Tie beams	m ³	1.25		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
2.2.5	Floor concret	m ³	1.75		
2.2.6	Curb wall foundation	m ³	0.25		
	<u>Ground floor slab level to roof level & Roof level</u>				
2.2.7	Columns Shaft	m ³	1.00		
2.2.8	Roof beams , eave Levels , Gabal beam & kerbs	m ³	4.50		
2.2.9	Lintels and sill beams	m ³	1.00		
2.3	Formwork				
	Form work shall be provided with adequate struts, braces, ties, clamps and the like so as to maintain the dimensions, lines and levels shown in the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging under the weight of wet concrete including any other supper imposed loads which would be subjected to during construction.	note			
	<u>Up to Ground floor slab</u>				
2.3.1	Column base	m ²	6.50		
2.3.2	Wall base	m ²	1.10		
2.3.3	Columns Shaft	m ²	1.50		
2.3.4	Tie beams	m ²	5.00		
2.3.5	Curb wall foundation	m ²	1.00		
	<u>Ground floor slab level to roof level & Roof floor level</u>				
2.3.6	Sides of columns	m ²	6.00		
2.3.7	Sides and soffit of Roof beams , eave Levels , Gabal beam & kerbs	m ²	22.50		
2.3.8	Lintels and sill beams	m ²	6.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
2.4	Reinforcement				
	Tor Steel characteristic strength 460 N/mm ² and Mild Steel characteristic strength 250 N/mm ² as reinforcement to RCC works.	note			
	Rates shall be included for cutting, bending, fabricating, placing in position, holding and temporary fixing supports. E.g. chairs, benches, stools, spaces, ties, hangers and binding wires.	note			
	<u>Up to Ground floor level</u>				
2.4.1	In column bases	kg	85.80		
2.4.2	In wall bases	kg	19.50		
2.4.3	In column	kg	29.75		
2.4.4	In Tie beams	kg	143.75		
2.4.5	In curb wall foundation	kg	19.50		
	<u>Ground floor slab level to roof level & Roof floor level</u>				
2.4.6	In column	kg	85.00		
2.4.7	In , eave Levels beams , Gabal beam ,Roof beams & kerbs	kg	517.50		
2.4.8	In ground floor slabSupply and laying A142 steel mesh including adequate laps	m ²	33.00		
2.4.9	Lintels and sill beams	kg	65.00		
2.5	Joints				
2.5.1	Forming 10 mm thick 100 mm high isolation joint filled with backer rod & approved sealant on top	m	26.00		
2.5.2	Drains 225mmX300mm in cement concrete 1:2 1/2:5(25mm),, 75mm thick sides and base, inclusive of 12mm cement rendering 1:3 with necessary 3000mm c/c expansion joints and rate including excavation , form work laying polythene	m	5.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
2.5.3	750mm wide ramp and 225mmX150mm complete with 75 mm concrete slab to ramp, 12mm thick rendering in 1:3 cement & sand finished with neat cement floating and Drains with 75mm thick sides and base, in cement concrete 1:2 1/2:5(25mm), inclusive of 12mm cement rendering 1:3 in cement & sand with necessary expansion joints 3000mm c/c and rate including excavation , form work laying polythene including cover slab 75mm thick G 25 concret , 10mm R/F 150 C/C Both ways	m	18.00		
TOTAL CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
3.0	Water Proofing Work				
	The tenderers are requested to refer Bills of Quantities, Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Work shall be carried out strictly according to manufacture's specification and to the engineer's approval.	Note			
	Contractor shall give a warranty of 10 years in respect of workmanship and materials with effective from the date of completion of water proofing.	Note			
	The bidder shall submit the following technical details for approval before commencing of the work.	Note			
	(a) Type of waterproofing.				
	(b) Brand name.				
	(c) Country of origin.				
	(d) Method of application.				
	(e) Detail of guarantee (format)				
	(f) Suitability to the nature of the surfaces.				
	(g) Technical literature				
	Rate shall include for forming 25 x 25mm angle fillets in 1:3 cement and sand at all right angled edges.	Note			
	Rates shall include for preparation of surfaces, cutting, notching, bending, curing and extra material for lapping, working into recesses, inserts, pipes and the like and for working to falls and cross falls and protecting as per manufacturer's instruct.	Note			
	Rate shall include for ponding tests as per specifications and to the approval of the Engineer.	Note			
	Damp proof membrane				
3.1	Supplying and laying 1000 gauge polythene under foundations and floor slabs	m ²	50.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
4.0	Masonry Works				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Rates for masonry works shall include for plumbing angles, forming rebates levels, square, cutting and racking of joints for plastering.	Note			
	Rate shall include for all necessary types of scaffolding whether specified separately or not.	Note			
	Rate shall include for expansion joint construction, anchoring between RC structure and masonry as necessary.	Note			
4.1	Random Rubble masonry work				
4.1.1	Random rubble masonry work in cement sand mortar 1:5. in wall foundations.	m ³	10.25		
4.1.2	Random rubble masonry work in cement sand mortar 1:5. in curb wall foundation	m ³	10.00		
4.2	225 mm thick brick work in cement and sand 1:5				
4.2.1	Ground floor level to roof level & Roof floor level	m ²	46.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
5	Structural Steel Work				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Rate shall include for painting to all exposed faces of structural steel members with two coats Zinc phosphate QD primer . (paint approved by Engineer)	Note			
	Ref Drg No RDC/HSEP/CTRL/KDY/KLB-FCH/SO-04 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-1 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-2 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-3 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-4 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-5 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-1 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-3 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-5				
5.1	Rafter (RF-1) 200 x 100 mm(18.2Kg/m) including necessary accessories as per detail drawings & Engineers approval. (1 Nos)	kg	150.00		
5.20	Rafter (RF-2) 200 x 100 mm(18.2Kg/m) including necessary accessories as per detail drawings & Engineers approval. (4 Nos)	kg	105.00		
5.30	2 mm thick hot dipped galvanized C150/20(4.51kg/m)purlins fixed to rafters and gable beam complete with necessary bracings and lapping, including plates, bolts and all necessary accessories as per detail drawings & Engineers approval.	m	71.00		
5.4	12 mm dia hot dipped 1200mm Long galvanized anti sag rods (Grade 4.6) fixed to purlins including all necessary accessories as per detail drawings& Engineers approval.	nr	12.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
6.00	Roof Covering and Roof Plumbing				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	work shall be carried out strictly according to manufacture's specification and approval to the engineer.	Note			
	Contractor shall give a warranty of 10 years in respect of workmanship and materials with effective from the date of completion of the work.	Note			
	The bidder shall submit the following technical details for approval before commencing of the work. a)Brand name b)Country of origin c)Technical specifications d)Detail of guarantee	Note			
	Rates shall include for the cost of following:	Note			
	1. Scaffoldings and arrangements in erections.				
	2. All necessary cuttings, drillings, bolting, reverting, welding, grinding, delivering, unloading, hoisting, erecting and fixing in position, leveling, plumbing and preparation, submission and getting approval of all shop drawings.				
	3. All necessary laps, seams, ends, up stands and down stands, aprons, sills etc.				
	4. Method of fixing, work to falls and cross falls, underlay in contact with the covering, forming voids ? 0.1m ² dressing/welding into grooves, hollows, recesses cutting laps and the like.				
	5. All necessary roofing nuts and bolts, washers, brackets, welding rods & paint etc.				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Ref Drg No RDC/HSEP/CTRL/KDY/KLB-FCH/SO-04 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-1 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-2 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-3 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-4 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-05-5 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-1 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-3 RDC/HSEP/CTRL/KDY/KLB-FCH/SO-06-5				
6.1	Supplying and fixing color bonded Zn /Al roofing sheet (BMT - 0.42mm TCT - 0.47mm,5.58Kg/m2)	m ²	54.00		
6.2	Supplying and fixing approved quality 8mm thick installation sheet with double sided Aluminum foil including 75x75mm GI mesh. All works shall be carried out as per manufacturers specifications.	m ²	54.00		
6.3	Supplying and fixing color bonded ridge panel (BMT - 0.42mm TCT - 0.47mm) of girth 700mm.	m	8.80		
6.4	Supplying and fixing Zn/ Al eave gutter , (405mm girth) including 500mm girth gutter bracket and all necessary accessories	m	17.60		
6.5	100 x 100 mm Down pipe in 0.47mm thick color bonded Zn/Al sheet or equivalent metal sheet, suitably jointed and fixed as per drawings.	m	20.00		
6.6	Supplying and fixing Zn/ Al valance including strap fasteners, eve trims and all necessary accessories 470mm including 20X6mm flat iron valance board bracket at 0.6m c/c including welding , painting	m	17.60		
6.7	Supplying & fixing 0.47mm thick color Zn /Al. barge capping with self drilling screws (Fasteners) . including 20X6mm flat iron valance board bracket at 0.6m c/c including welding , painting	m	12.40		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
7.0	Aluminum Work				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	All Aluminum sections shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.	Note			
	All Aluminum sections shall be fully treated extruded Aluminum alloy sections manufactured in accordance with specifications attached herewith.	Note			
	All Aluminum sections to be locally manufactured and should be of make approved by the engineer. ("Alumax" or similar products of equivalent technical parameters)	Note			
	The contractor shall submit samples of materials and shop drawings for prior approval	Note			
	Doors & Windows				
	All doors, windows & partitions items described here under shall be fabricated with powder coated aluminum extrusions conforming in all respects to the specification and detail drawings unless otherwise specified. The powder coating thickness of aluminum extrusions shall be 60 - 80 micron and in a color approved by the engineer.	Note			
	The Contractor shall submit certificates from the Aluminum manufacture and/or an approved testing laboratory which attest that the coating thickness offered is as specified.	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Aluminum extrusions of Doors, windows & Partitions, should be with correct sizes and thickness and fabricated as specified by the manufacturer to suit with the actual dimensions of openings and strength enough to stand for wind pressure of the environment in the building area.	Note			
	Rates shall include for all necessary fixings, fittings, ironmongery of approved quality and manufacture.	Note			
	Glazing for all glazed aluminum doors & windows shall be 6mm thick clear float glass and for fanlights shall be 5 mm thick "Pinheaded" or frosted glass.	Note			
	All glass shall be approved make.	Note			
	Glass shall be secured at all edges with compression gaskets and glazing beads. When fixing glass, all glazing sealant shall be carefully applied and cleaned off properly.	Note			
	Concealed screws, nuts, bolts, rivets and other fastening devices shall be of Aluminum, Non-magnetic stainless steel or other approved corrosive resistant materials. If visible, they shall blend with the finish of the framing Aluminum sections.	Note			
	Hinges, Handles, Catches, fixtures etc., shall be minimum of grade 304 stainless steel and approved make.	Note			
	Rate for aluminum doors shall include for "Yale" or equivalent S/S Rim locks with 3 keys & Stainless steel door handles.	Note			
	All Aluminium sections to be locally manufactured ("Alumex" or similar products of equivalent technical parameters)	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Ref Drg No RDC/HSEP/CTRL/KDY/KLB-FCH/AR-01 RDC/HSEP/CTRL/KDY/KLB-FCH/AR-02 RDC/HSEP/CTRL/KDY/KLB-FCH/AR-03 RDC/HSEP/CTRL/KDY/KLB-FCH/AR-04 RDC/HSEP/CTRL/KDY/KLB-FCH/AR-05				
	Doors				
7.1	Supplying, fabricating and fixing single sash swing, composite Aluminum panel door with aluminum frame fabricated with 100 x 45 mm (1.5mm thick) extrusions top & bottom panel in 4mm thick both side compopos aluminium board all complete as Door lock .Door handle ,per drawing and Engineers approval. Door type ND1 1000 x 2100 mm sized overall In Toilet (2No's)	m ²	4.20		
	Windows				
7.2	Supplying, fabricating and fixing of Aluminum glazed casement window type NW2, 2400 x 1650mm sized overall, with aluminum frame fabricated with 70 x 30 mm extrusions, consisting of 04 no's of 5mm thick glazed aluminum window sashes, aluminum louver (4 No's)	m ²	15.84		
7.3	Supplying, fabricating and fixing of fanlight NW1 1200mm X1650mm , with aluminum frame fabricated with 70 x 30 mm (1.5mm thick) extrusions, consisting of 01 no fanlight sash and aluminum louver on bottom, all complete as per Drawing and Engineers approval. (2 No's)	m ²	1.98		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
8.0	Electrical Installation				
	The tenderers shall refer Drawings, Specifications, Pricing preambles, and other relevant documents prior to pricing of this section of work.	Note			
	Contractor shall propose shop drawings/conduit layout drawings and shall obtain approval from consultant engineer before commencing work.	Note			
	Contractor shall obtain sample approval for all items before commencing the work.	Note			
	Rates shall include for all necessary materials, cables, conduits, PVC sunk box, bulbs, holders, ceiling rose, switches etc. to complete the electrical installation in good order.	Note			
	Electrical items are to be of the following makes:	Note			
	(a) Electrical switches and socket outlets: MK, Crabtree, PDL Tenby, Clipsal, Kevilton, Orange or equivalent				
	(b) Distribution boards: Consumer unit flush mount type or as specified				
	(c) Fans: K.D.K., National-Japanese origins				
	(d) Exhaust Fans: K.D.K., National-Japanese origins				
	(e) Switch Gear - MCCB'S Schneider, Siemens, ABB, Hager, Moeller, Terasaki, Meta-MEC of LS Brand or equivalent				
	(f) RCCB, MCB'S Schneider, Siemens, Crabtree, Hager, Moeller, Legrand Eaton, Meta-MEC of LS Brand or equivalent				
	(g) Fluorescent Fittings : The Choke, Starter & Capacitor should be of good quality, British, French, Australia, German or equivalent & the tube should be preferably, Thorn, Philips, osram, National or equivalent. The fluorescent fittings should be fabricated in gauge Not smaller than 24 SWG Zinc coated metal. Finished with powder coating (white in color.)				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	[h] Distribution sub panels: Shall be in surface mount plastic enclosure or metal enclosure fabricated with zinc coated sheet metal of gauge Not less than 1.8mm total enclosed, with hinged door with protective cover plate for terminals. Finished with powder coating of approval color and components as specified in the BOQ				
	[i] Cable : ACL , Kalani or equivalent.				
	[j] Energy saving bulbs : 4 Star rated. Or LED Lamps				
	Wiring type in concealed conduit ,floor conduit, metal or PVC trucking	Note			
	All panel boards and consumer units should have wire numbering and a laminated circuit diagram should be pasted on the inside surface of the door.	Note			
	All types of fittings, materials, painting and finishes shall be approved by the Electrical Engineer prior to installation.	Note			
	Ref Drg No RDC/HSEP/CTRL/KDY/KLB-FCH/EL-01 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-02 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-03 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-04 RDC/HSEP/CTRL/KDY/KLB-FCH/EL-05				
	Point wiring				
8.1	Wiring for internal light points using $2 \times 1.5 \text{mm}^2$, PVC/ PVC/CU drawn through securely fixed concealed PVC conduit , including 10A switch .	nr	12.00		
8.2	Wiring for Fan points , from switch, using $2 \times 1.5 \text{mm}^2$ + 1.5mm^2 earth cable , PVC/CU drawn through securely fixed concealed PVC conduit , Controlled by a 10A switch .& fan controler	nr	2.00		
8.3	Wiring for $2 \times 13\text{A}$ Socket outlets (including supply of all material required) using $2 \times 2.5 \text{mm}^2$ + 2.5mm^2 earth cable drawn through securely fixed concealed PVC conduit.	nr	2.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Luminaires and fixtures				
	Luminaires				
8.4	Supply & installation of surface mounted 18W LED lamp fitting with all necessary accessories	nr	8.00		
8.5	Supply & installation of 18W LED wall lamp fitting with all necessary accessories	nr	4.00		
	Fixtures				
8.6	Supply & installation of 2x13A Socket switch outlets	nr	2.00		
8.7	Supply & Installation of type (SLS814) ceiling fan 1400mm dia complete 5 speed hum free (Electrical switch size 85X85) regulator safety switch and wire in working order (Excluding Wiring) (prime cost Rs 16,000.00.)	nr	2.00		
	In recessed type plastic enclosure as specified complete with following switch gears to be supplied and installed to working order.				
8.8	Main DB- Comprised with 1 No. 40A DP RCCR, 1 No. 40A DP MCB, 3 Nos. 10A SP MCB, 1Nos. 20A SP MCB,	nr	1.00		
8.9	2x4sq. mm + 4 sq. mm E cable-main cable	m	20.00		
	Supply and install earthling system according to IEE wiring regulation and to achieve less than 10 Ohm Earth resistance.				
8.10	Earth electrode complete with 1.8m long, 16mm dia. Copper rod firmly driven in the earth near the building room and purpose made earth pit. suitable copper cable solidly connected with earth electrode. Supply and installation of all other accessories deemed to be required the proper operation of the system. Rate shall include the construction of specified size of earth pit with a removable cover.	Item	1.00		
	Inspection & Testing				
8.11	Testing the installation & rectify any defect & submit a certificate by a chartered Electrical Engineer.	Item			
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
9.0	Floor, Walls and Ceiling Finishes				
	The Contractor is advised to refer the Drawings, Specification, pricing preambles and the finishes schedule prior to pricing of this section of work.	Note			
	Rates shall include for temporary rules, screeds, ground etc., all normal cutting arises, raking out knots of brick work, hacking knots of concrete, rounded angles and the like, bedding, pointing, forming joints making good between different surfaces, around pipes, sanitary fittings and other fixtures and cleaning down upon completion.	Note			
	Extra over provision for narrow widths such as door/ window reveals have not been measured separately for all types of finishes. Rates shall include for narrow widths unless otherwise included in the BOQ.	Note			
	Rates shall include for builders work in connection with electrical/mechanical installation and plumbing unless measured otherwise.	Note			
	Ensure that all floor finishes are laid to falls as indicated or towards external sides so as to prevent stagnation of water.	Note			
	Tile samples shall be provided for approval by the Engineer prior to purchase of materials.	Note			
	Rate for tiles shall include for preparation of sub-surface, setting out, sub-screeds, bedding, protection of tiles etc. as per specification.	Note			
	Rates for plaster work shall include for reinforcing joints between different types of construction material (e.g. Brick work and concrete work) with 150mm wide galvanized steel mesh as directed by the Engineer.	Note			

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Rates shall include for covering and protection of finishes from weather and construction operation.	Note			
	Rates for ceiling finishes shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion.	Note			
	Floor Finishes				
	Locally manufactured porcelain floor tiles of approved quality, color and variety with all specials in specified areas as per the BOQ straight joints in both ways including all shapes, corner and angles set in 12mm thick cement and sand (1:3) screed bedding with neat cement floating level and to slopes < 15° from horizontal and all joints shall be pointed with colored tile grout to match with tiles.				
9.1	600 x 600 mm sized homogeneous semi-glazed porcelain floor tiles Rosell EM-614, EM-906, EM-763, EM-112 or equivalent laid to design.	m ²	28.00		
9.2	100 mm high skirting to match above.semi-glazed porcelain tiles	m	22.00		
	<u>Cement rendering</u>				
9.3	Plinth plastering 20mm thick, Cement rendering in cement & sand (1:3) screed, level, finished smooth	m ²	6.75		
9.4	Floor rendering 20mm thick, Cement rendering in cement & sand (1:3) screed, level, finished smooth	m ²	2.00		

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Wall Finishes				
	<u>Wall Plastering</u>				
9.5	16mm thick plastering to wall in cement and sand (1:5), finish smooth on brick / concrete surfaces (Internally)	m ²	48.00		
9.6	16mm thick plastering to wall in cement and sand (1:5) finished semi rough on brick / concrete surfaces.(Externally).	m ²	48.00		
	Ceiling Finishes				
	Rates shall include for the cost for scaffoldings, supplying arrangement in erections.	Note			
	Rate shall include for all necessary cuttings, drillings, bolting, reverting, welding, grinding, delivering, unloading, hoisting, erecting and fixing in position, leveling, plumbing and preparation, submission and getting approval of all shop drawings.	Note			
	Rate shall include for 2 wood pasava clear	Note			
9.7	Supply and installation asbestos free cement board (4.5mm thick) ceiling with to 100mm x 50mm joists in 1200mm C/C and 50mm bearers in 600mmC/C of (class I) timber Rate to include 2 coats of wood preservatives to joists and bearers. Primer undercoating and two coats of emulsion paint	m ²	28.00		
9.8	Supply and fixing 0.47mm thick Zn/ Al corrugated sheet ceiling complete on and including 40 x 40 x 3 mm box bar framework for external areas .Rate shall include for two coats Zinc phosphate QD primer & all necessary accessories.	m ²	21.00		
	TOTAL CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
10.0	Painting Works				
	Rate shall include for preparation of surfaces, cleaning down, smoothing, knotting, stopping, patching up cracks, etc., protection of floors and fittings, removing and replacing door and window fittings, if required, and cleaning upon completion.	Note			
	Rate shall include for painting of reveals etc.	Note			
	Rates shall include for protection of floors, fittings and cleaning upon completion.	Note			
	Internal Faces				
10.1	Apply 2 coats of skim coats on cement plastered surfaces, smoothed with sand paper to receive the paint.	m ²	50.00		
10.2	Internal painting on internal walls; general surfaces/plain surfaces on walls/ Isolated column / reveal including prepare & apply one coat of filler/primer & two coats of emulsion paint as directed.	m ²	50.00		
	External Faces				
10.3	External Painting on Plastered work ; general surfaces/ plain surfaces on walls/ Isolated column / reveal including prepare and apply one coat of primer and two coats of weather shield paint as directed.	m ²	50.00		
	TOTAL CARRIED TO COLLECTION				

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP

BILLS OF QUANTITIES

KOLABISSA FCH , KANDY DISTRICT

BILL NO - 4 - DAY WORK

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Day Work				
	Day Work Definition				
	The Day Work is defined as being additional or extra work not envisaged at the time of Bidding, which is carried out pursuant to instructions given by the Engineer under the Contract and further, in the opinion of the Engineer, cannot be adequately measur				
	Any work carried out as a separate contract.				
	Day Work ordered to be carried out after the date of commencement of the period of maintenance.				
	Schedule of Daywork Rates: 1. Labor				
D.1	Labor				
	The Day work rates quoted for labor are to be inclusive NET amounts payable including for use and waste of hand tools and of all ordinary non-mechanical plant, stagings, scaffoldings, tarpaulins, use of electric light and water for the Works,				
D.1.1	Laborer	hour	10.00		
D.1.2	Concreter / Mason	hour	10.00		
D.1.3	Tiller	hour	10.00		
D.1.4	Carpenter	hour	10.00		
D.1.5	Steel Fixer and Bar Bender	hour	10.00		
D.1.6	Painter	hour	10.00		
D.1.7	Welder	hour	10.00		
D.1.8	Plumber	hour	10.00		
D.1.9	Electrician	hour	10.00		

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP

BILLS OF QUANTITIES

KOLABISSA FCH , KANDY DISTRICT

BILL NO - 4 - DAY WORK

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Schedule of Daywork Rates: 2. Materials				
D.2	Material				
	Materials used on Day works shall be as specified for the Works. The rates are to include delivery to the Site. Should any materials be required for use on Day works which are not included in the Schedule, the lowest current NET market				
D.2.1	Ordinary Portland cement	kg	500.00		
D.2.2	Concrete (Grade 25)	m ³	5.00		
D.2.3	Metal 20 mm	m ³	5.00		
D.2.4	Metal 25 mm	m ³	5.00		
D.2.5	Metal 40 mm	m ³	3.00		
D.2.6	Building sand	m ³	5.00		
D.2.7	Engineering bricks	nr	1,000.00		
D.2.8	225 x 150 mm Rubble	m ³	3.00		
D.2.9	1" thick planks (class 1 timber)	m ²	20.00		
D.2.10	High yield steel reinforcement bars (any sizes)	t	0.40		
D.2.11	Structural steel members	t	0.40		
D.2.12	12 mm plywood sheets	nr	10.00		
D.2.13	Emulsion paint	ltr	10.00		
D.2.14	Enamel paint	ltr	10.00		

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP

BILLS OF QUANTITIES

KOLABISSA FCH , KANDY DISTRICT

BILL NO - 4 - DAY WORK

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
D.2.15	PVC Pipe 100mm diameter(gauge 600)	m	20.00		
D.2.16	PVC Pipe 75mm diameter(PNT7)	m	20.00		
D.2.17	PVC Pipe 50mm diameter(PNT7)	m	20.00		
D.2.18	PVC Pipe 40mm diameter(PNT7)	m	20.00		
D.2.19	PVC Pipe 32mm diameter(PNT7)	m	20.00		
D.2.20	PVC Pipe 25mm diameter(PNT11)	m	20.00		
D.2.21	PVC Pipe 20mm diameter(PNT11)	m	20.00		
D.2.22	6 mm thick clear glass	m ²	5.00		
D.3	Schedule of Daywork Rates: 3. Contractor's Equipment				
D.3.1	Concrete mixer, 10 /7	hrs	10.00		
D.3.2	Electric water Pump (2 dia)	hrs	10.00		
D.3.3	Concrete vibrator & Poker	hrs	10.00		
D.3.4	Welding plant with Oxyacetylene	hrs	10.00		
	TOTAL CARRIED TO GRAND SUMMARY				