HEALTH SYSTEM ENHANCEMENT PROJECT

Funded by

ASIAN DEVELOPMENT BANK

FIELD HEATH CENTERS – Nuwaraeliya District

BILLS OF QUANTITIES

ADDITIONS & IMPROVEMENTS TO HOPE ESTATE FHC

BOQ REF NO: HSEP/RDC/CP/NE/FHC/03 (27.09.2022)

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP BILLS OF QUANTITIES

ADDITIONS AND IMPROVEMENTS TO HOPE ESTATE FHC

GRAND SUMMARY

ITEM NO.	DESCRIPTION	AMOUNT (LKR)
1	PRELIMINARIES	
2	EXTERNAL WORKS	
3	DAY WORKS	
	SUB TOTAL 01	
4	DDT - PROVISIONAL SUM ITEMS	35,000.00
	SUB TOTAL 02 (WITHOUT PROVISIONAL SUM	
5	DISCOUNT (IF ANY)	
	SUB TOTAL 03	
6	ADD - PROVISIONAL SUM ITEMS	35,000.00
	SUB TOTAL 04	
7	ADD - PHYSICAL CONTINGENCIES 10%	
	SUB TOTAL 05	
8	VAT 15%	
	GRAND TOTAL	

Item	Description		0		
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	ltem	1		
1.1.2	Allow lump sum for providing an Advance Payment	item	I		
1.1.3	Security Allow lump sum for insurance of Works, Machinery &	ltem	1		
	Equipment, Plant, Materials, third party persons & property and Employer's personnel & property at site				
	as per the Contract.	Item	1		
1.1.4	Allow lump sum for workmen's compensation insurance	ltem	1		
1.2	Management of the works				
1.2.1	Allow lump sum for providing Project Management services	ltem	1		
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 facilities and providing services throughout the period of construction.		1		
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.	ltem	1		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Preliminaries (Cont'd)				
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		
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 Engineer.	14	1		
1 / 2	Allow lump sum for provision of 3 sets of (A1 size hard	Item	1		
1.4.5	copies and soft copies) as-built drawings of all services,				
	as directed by the Engineer.				
		Item	1		
144	Allow lump sum for submission of shop drawings in				
1	triplicate with an electronic copy as directed by the				
	Engineer.	Item	1		
	0				
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		
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		
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		
	<u> </u>	<u> </u>			1

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.	F		. ,	. ,	, ,
	Duclimination (Control)				
	Preliminaries (Cont'd)				
	Health, Safety and Environment (Cont'd)				
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 ensured through internal monitoring mechanism.		1		
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		
10					
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.		1		
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.		1		
1.7.2	Allow lump sum for supplying temporary electricity for the Works including connection, distribution system for the Works, internal arrangements and all payments to the authorities for consumption.				
		Item	1		
			<u> </u>		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Preliminaries (Cont'd)				
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.		1		
	TOTAL CARRIED TO SUMMARY				

HEALTH SYSTEM ENHANCEMENT PROJECT - HSEP BILLS OF QUANTITIES

ADDITIONS AND IMPROVEMENTS TO EXISTING FHC BUILDING

SUMMARY -1

BILL NO.	DESCRIPTION	AMOUNT (LKR)
2	DEMOLITION	
3	EARTH WORK	
4	CONCRETE WORK	
5	WATER PROOFING WORK	
6	ROOF COVERING AND ROOF PLUMBING	
7	ALUMINIUM WORK	
8	PLUMBING AND SANITARY INSTALLATION	
9	ELECTRICAL INSTALLATION	
10	FLOOR/ WALL/ CEILING FINISHES	
11	PAINTING WORK	
12	DRAINAGE WORK	
13	MISCELLANEOUS WORK	
14	PROVISIONAL SUMS	35,000.00
	SUB TOTAL (carried to grand summary)	

Bill No. 2: Demolition

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
2.0	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.	note			
	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.	note note			
		note			
	OWNERSHIP OF RECOVERED MATERIAL				
	Demolished material which are not usable shall be the property of the Contractor	note			
	Usable materials arising from demolitions shall be the property of Employer.	note			
2.1	Doors and Windows				
2.1.1	Carefully remove and store the existing Door sash with frame & window sash with frame of size not exceeding to 4.0 m2. Rate to include preparation of window revels to fixing new aluminum joinery	nr	16		

Bill No. 2: Demolition

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Demolition, Alteration, Repair and Maintenance works (Cont'd)				
2.1.2	Carefully remove and store the existing Door sash with frame & window sash with frame of size over 4.0 m2. Rate to include preparation of window revels to fixing new aluminum joinery	nr	1		
2.2	Sanitary fittings and Accessories				
2.2.1	Carefully remove existing squatting pan with connected pipe lines carefully	nr	1		
2.2.2	Carefully remove existing water closet with connected pipe lines carefully	nr	1		
2.2.3	Carefully remove existing wash basin/sink with connected pipe lines carefully	nr	2		
2.3	Services				
2.3.1	Disconnect & removing the existing electrical system including DB unit, wiring, fittings, socket outlet, gang switch and earth rod etc.		1		
2.3.2	Disconnect & removing the existing water supply & sewerage disposal system	ltem	1		
2.4	Flooring and Ceiling				
2.4.1	Breaking & Removing the existing cement rendered floor area as directed by the Engineer	m²	93		
2.4.2	Breaking & Removing the existing tiled floor area including cement mortar bed as directed by the Engineer		2.3		
2.4.3	Removing existing ceiling including framework, stacking serviceable materials and clearing debris away		92		

Bill No. 2: Demolition

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Section C - Demolition, Alteration, Repair and Maintenance works (Cont'd)				
2.5	Walls				
2.5.1	Chipping, removing and clearing debris away from wall plaster as directed by the Engineer	m ²	85		
2.6	Pavement area including drain				
2.6.1	Demolition and cleaning debris of existing pavement area including drain as directed by the engineer	m²	54		
	TOTAL CARRIED TO SUMMARY				

Bill No. 3: Excavation and Earthwork

Item No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
3.0	Section D - 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			
3.1	Anti termite Treatment				
3.1.1	Anti termite treatment for ground floor area of the building according to the manufacturers specifications (Biflex or equilent) 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.		142		
TOTAL CARRIED TO SUMMARY					

Bill No. 4: Concrete work

Item	Description	Unit	Quantitu	Data (LKD)	Amount (LKD)
No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
4.0	Concrete Work				
	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	note			
	after removal of form work and for any tests when				
	necessary.				
	Ordinary Portland cement (OPC) cement complied				
	with relevant Sri Lanka standards and approved by	note			
	Engineer shall be used.				
	Rates shall include for forming expansion joints,				
	construction joints, isolation joints with existing				
	structures and the like including necessary sealant and				
	other accessories, unless otherwise separately				
	measured.				
	Rates shall include for forming holes in concrete,				
	cutting chases and the like as necessary.	note			
4.1	Grade 20 mass concrete as per the detail drawings				
	and specifications.				
4 1 1		3			
4.1.1	75 mm Thick Floor concrete	m ³	7.1		
4.2	RCC pavement with drain				
4.2.1	750mm wide pavement and 225x150mm(Average				
	depth) drain in 1:2:4 (20mm) concrete 75mm thick				
	(pavment, Drain wall and bottom) with 1:3 smooth				
	cement rendering, including necessary excavation,				
	form work, reinforcement (Y10 @150mm c/c both				
	ways) and laying polythene membrane under concrete				
	and laid to required slope.				
		Lm	60		

Bill No. 4: Concrete work

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Concrete Work (Cont'd)				
4.3	Kitchen work top				
4.3.1	75mm RCC slab with necessary form work and reinforcement (Doweling to existing walls, T10 @150mm c/c both ways). Rate to include necessary brick walls, plastering and painting work etc. as directed by the Engineer - Size 1.0mx0.6m (Tilling work, Sink, tap and water supply measured separately)		1		
	TOTAL CARRIED TO SUMMARY				

Bill No. 5: Water Proofing Work

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
5.0	Mahay Dua afina Manla				
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.	Note			
	(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			

Bill No. 5: Water Proofing Work

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)	
	Water Proofing Work (Cont'd)					
5.1	Damp proof membrane					
5.1.1	Supplying and laying 1000 gauge polythene under screeds, floor slabs	m²	95			
5.2	Toilet areas					
	Water proofing treatment with Baralastic or equivalent application to toilets including preparation of the surface and application as per the manufacture's instructions & specifications, including levelling screed and protective screed					
5.2.1	In floors	m ²	5.3			
5.2.2	In walls	m²	25			
	TOTAL CARRIED TO SUMMARY					

Bill No. 6: Roof Covering and Roof Plumbing

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.		onne	Quantity		
6.0	Section P - 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.				
	work shall be carried out strictly according to manufacture's specification and approval to the engineer.				
	Contractor shall give a warranty of 10 years in respect of workmanship and materials with effective from the date of completion of work.				
	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: 1. Scaffoldings and arrangements in erections.	Note			
	2. All necessary cuttings, drillings, bolting, reverting, welding, grinding, delivering, unloading, hoisting, erecting and fixing in position, levelling, plumbing and preparation, submission and getting approval of all shop drawings.				
	 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 ≤ 0.1m² dressing/welding into grooves, hollows, recesses cutting laps and the like. 				
	5. All necessary roofing nuts and bolts, washers, brackets, welding rods & paint etc.				

Bill No. 6: Roof Covering and Roof Plumbing

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)		
	Section P - Roof Covering and Roof Plumbing (Cont'd)						
6.1	Tile roof covering						
6.1.1	Laying Calicut pattern ridge tile bedded in cement, lime and sand mortar 1:1:5 coloured to match tile	m	15				
	TOTAL CARRIED TO SUMMARY						

ltem 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.				
	All Aluminum sections shall present clear, straight and sharply defined lines. They shall be free from defects impairing strength, appearance and durability.				
	All Aluminum sections shall be fully treated extruded Aluminum alloy sections manufactured in accordance with specifications attached herewith.				
	All Aluminum sections to be locally manufactured and should be of "Alumex" or similar products of equivalent technical parameters and approved by the engineer.	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 Work (Cont'd)				
	Doors & Windows (Cont'd)				
	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.				
	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.				
	10 year warranty shall be provided for material and workmanship.				

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.	Description		Quantity		
	Aluminum Work (Cont'd)				
	Rate for aluminum doors shall include for "Yale" or equivalent S/S Rim locks with 3 keys & Stainless steel door handles.				
7.1	Doors & Windows (Cont'd)				
	Doors				
7.1.1	Supplying, fabricating and fixing double sash swing, Glazed and composite Aluminum panel door type D1, 1500 x 2100 mm sized overall, with aluminum frame fabricated with 100 x 45 mm extrusions all complete as per drawing. and Engineers approval. (01 nr)				
		m ²	3.3		
7.1.2	Supplying, fabricating and fixing single sash swing, Glazed and composite Aluminum panel door type D2, 1000 x 2100 mm sized overall, with aluminum frame fabricated with 100 x 45 mm extrusions all complete as per drawing. and Engineers approval. (07 nr)				
		m ²	15.5		
7.1.3	Supplying, fabricating and fixing single sash swing, Glazed and composite Aluminum panel door type D3, 900 x 2100 mm sized overall, with aluminum frame fabricated with 100 x 45 mm extrusions all complete as per drawing. and Engineers approval. (02 nr)				
		m ²	4.0		
	Windows				
7.1.4	Windows Supplying, fabricating and fixing of Aluminum glazed casement window type W1, 3000 x 2100mm sized overall, with aluminum frame fabricated with 70 x 30 mm extrusions, consisting of 04 nos of glazed aluminum window sashes, 02 nos aluminum louvers & 02 nos fixed glass on top, all complete as per drawing and Engineers approval. (01 Nr)				
	,	m²	6.6		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Aluminum Work (Cont'd)				
	Doors & Windows (Cont'd)				
7.1.5	Supplying, fabricating and fixing of Aluminum glazed casement window type W2, 1500 x 1800mm sized overall, with aluminum frame fabricated with 70 x 30 mm extrusions, consisting of 02 nos of glazed aluminum window sashes all complete as per drawing and Engineers approval. (02 Nr)		5.7		
	Fanlight				
7.1.6	Supplying, fabricating and fixing of fanlight type F1, 900 x 600 mm sized overall, with aluminum frame fabricated with 70 x 30 mm extrusions, consisting of 01 no top hung fanlight sash, all complete as per Drawing and Engineers approval.(03 Nr)		1.7		
7.1.7	Supplying, fabricating and fixing of fanlight type F2, 600 x 300 mm sized overall, with aluminum frame fabricated with 70 x 30 mm extrusions, consisting of 01 no top hung fanlight sash, all complete as per Drawing and Engineers approval.(01 Nr)		0.2		
	TOTAL CARRIED TO SUMMAI	RY			

		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.				
	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.				
	All fittings and specials used in the plughing				
	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.				
	Rates shall include for submitting samples, protecting				
	works and getting shop drawings approved from the Architect/Engineer.				
	Plumbing Work Rates for plumbing work shall include for the cost of				
	following:	Note			
	1. Cutting and waste of pipes etc. and joining pipes.				
	 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.				

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.			•		
	Plumbing and Sanitary Installations (Cont'd)				
	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.				
8.1	Cold Water Supply				
	Supplying and laying of uPVC pipes of Type 1,000 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	27		
8.1.2	25mm dia. PVC pipe including all specials	m	19		
8.1.3	32mm dia. PVC pipe including all specials	m	12		
8.2	Waste water pipes				
	All underground drainage pipe work shall be in UPVC (Type 600) 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.		8		

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.	•			. ,	. ,
	Plumbing and Sanitary Installations (Cont'd)				
8.3	Sanitary Fittings and Fixtures				
	Unless otherwise stated all sanitary fittings and fixtures				
	shall be of Rocell Bath ware or equivalent or Imported				
	product, such as American standard, or equivalent				
	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	Note			
	b)Technical specifications	Note			
	c)Detail of guarantee				
	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	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.	Description	Onit	Quantity		
	Plumbing and Sanitary Installations (Cont'd)				
	Sanitary Fittings and Fixtures (Cont'd)				
8.3.1	Ceramic wash basin, pedestal type, 22" x 16" (Prime Cost: Rs. 16,800/-) fixed with chromium plated waste outlet, magic hose, screws, plug & silicone, all completed to working order.		1		
			T		
8.3.2	Ceramic water closet (commode) with close couple flush tank and double plastic seat cover (Prime Cost: Rs. 33,600/-) installed on tiled floor including flexible hose & thread seal, commode screws, plug and silicone. Connected to water supply, all completed to working order.		1		
8.3.3	Supply and fixing approved new closet squatting foot rest type (Prime Cost: Rs. 6,500/-) with trap, supplied and fixed to working order including connection to sewer line	nr	1		
8.3.4	Supplying & fixing chromium plated basing tap with long handle for disabler's wash basin as approved by Engineer. (Prime cost: Rs. 6,900/-)		1		
8.3.5	Bidet shower (Prime cost: 2,350/-) fixed to wall, completed with thread seal, silicone, connect to water supply, all completed to working order.		1		
8.3.6	Supply and fixing 20mm dia Approved heavy quality chromium plated bib tap (Prime cost: 1,750/-) with 20mm bib tap with 1 No PVC faucet socket		2		
8.3.7	Floor clean outlet including connection to pipework	nr	3		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)	
	Plumbing and Sanitary Installations (Cont'd)					
	Sanitary Fittings and Fixtures (Cont'd)					
8.3.8	Supplying and fixing chromium plated brass angle valve (Prime cost: 1,350/-), connected to water supply, all complete to working order.		5			
8.3.9	Supply and fixing approved sink stainless steel with single drain board with chromium plated wastewater chain, stay & waste plug (tap, bracket, water, wastewater connection measured separately)		1			
8.3.10	Supply and fixing 20mm dia Approved heavy quality chromium plated swan neck type pillar tap 1 No PVC faucet socket		1			
8.4	Valves					
8.4.1	Supply and fixing gate valve brass, 32mm dia heavy quality	nr	2			
8.4.2	Supply and fixing gate valve brass, 20mm dia heavy quality	nr	4			
	TOTAL CARRIED TO SUMMARY					

ltem 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				

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Electrical Installation (Cont'd)				
	[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 , Kelani or equivalent.				
	[j] Energy saving bulbs : 4 Star rated.				
	Wiring type in concealed conduit ,floor conduit,				
	metal or PVC trunking	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			
9.1	Power cables				
5.1	Supply and lay of wiring cables & earth cables in PVC				
	Conduit.				
9.1.1	2 x 6 mm ² PVC/PVC/Cu cable to CEB Meter	~	F		
		m	5		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Electrical Installation (Cont'd)				
9.2	Point wiring				
9.2.1	Wiring for light points (including lamp switch), from respective switch using 2x1.0mm ² , PVC/ PVC/CU drawn through securely fixed with PVC casing on wall and soffit.		26		
9.2.2	Wiring for Fan points (including supply of all material, earth wire, fan hook & Regulator) from the switch point of the ceiling fans using 2x1.0mm ² PVC/ PVC/CU+ 2.5mm2 PVC/PVC/CU drawn through securely fixed with PVC casing on wall and soffit		4		
9.2.3	Wiring for 2x13A Socket outlets (Including socket outlet) using 2 x 2.5 mm ² PVC/PVC/Cu & 2.5 mm ² earth cable drawn through securely fixed with PVC casing on wall and soffit		10		
9.3	Luminaires and fixtures				
	Luminaires				
9.3.1	Supply and installation of 7W LED bulb in (Globe or equilenet) working order	nr	4		
	Supply & installation of 18 W LED lamp fitting with all necessary accessories	nr	12		
9.3.3	Supply & installation of 12W LED light fitting with all necessary accessories	nr	10		
	Fans				
9.3.4	Supply & installation of type 01 ceiling fan 1400mm dia. Complete with 5 speed hum free with regulator. Safety switch and safety wire in working order	nr	4		
			- 4		

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.	Description	onit	Quantity	Nate (ERR)	
	Electrical Installation (Cont'd)				
9.4	Distribution boards				
9.4.1	DB 12 way Comprised with 1 No. 32A 2P MCB				
	1 No. 40A 2P RCD (30mA) 8 Nos. SP MCB				
		nr	1		
9.5	Earthling System				
	Supply and install earthling system according to IEE wiring regulation and to achieve less than 10 Ohm Earth resistance.				
9.5.1	Earth electrode complete with 1.2m 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		
9.6	Inspection & Testing				
9.6.1	Testing the installation & rectify any defect & submit a certificate by a chartered Electrical Engineer.	Item	1		
	TOTAL CARRIED TO SUMMAI	RY			

ltem 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.				
	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.				
	Rates shall include for builders work in connection with electrical/mechanical installation and plumbing unless measured otherwise.				
	Ensure that all floor finishes are laid to falls as indicated or towards external sides so as to prevent stagnation of water.				
	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			

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Floor, Walls and Ceiling Finishes (Cont'd)				
	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.				
	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			
10.1	Floor Finishes				
	Floor tilling				
	300 x 300 mm homogeneous matt porcelain tiles (Prime cost: 3800/- per m2) laid to design - Toilet area	m²	5.2		
10.1.2	400 x 400 mm homogeneous rustic porcelain tile (Prime cost: 3800/- per m ²) laid to design - Other area	m ²	90		
		111	90		
10.1.3	100mm high skirting to match above.	m	88		
10.1.4	600 x 300 mm homogeneous rustic porcelain tile (Prime cost: 3900/- per m ²) laid to design - Pantry top & wall	m²	4.3		
ŀ					

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Floor, Walls and Ceiling Finishes (Cont'd)				
10.2	Wall Finishes				
	Wall Plastering				
10.2.1	16mm thick cement and sand 1:5 plaster finish semi rough with wooden float	m²	85		
10.2.2	16mm thick cement & sand plaster reveals 35mm to 150mm wide finished semi rough	m	182		
10.2.3	Plinth Plastering 12mm thick cement and sand 1:3 plaster finish smooth with coloured cement floating	m ²	36		
10.2.4	Cement and sand 1:3 plaster finished smooth with lime putty on exposed faces of concrete surface and soffit, 10mm thick		5.5		
	Wall Tiling				
	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			
10.2.5	600 x 300 mm glazed ceramic tiles (Prime cost: 3800/- per m2) of approved color laid to design - Toilet area	m²	26		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Floor, Walls and Ceiling Finishes (Cont'd)				
10.3	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, painting and preparation, submission and getting approval of all shop drawings.				
	Rate shall include for applying one coat of primer & two coats of emulsion paint to ceiling panels				
10.3.1	Non Asbestos cement fiber suspended ceiling with 600 x 600 mm Ceiling panels fixed on aluminium Frame including 25x25mm "L" angle, 25x40mm main bars and 25x30mm cross bars including all necessary screws, rivets & R - plugs etc.		92		
	TOTAL CARRIED TO SUMMAR	RY			

Bill No. 11: Painting Work

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
11.00	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.				
	Rate shall include for painting of reveals etc.	Note			
	Rates shall include for protection of floors, fittings and cleaning upon completion.	Note			
	Paint brand should be CIC or equivalent and the approval for brand and colour should be obtained by the Engineer				
11.1	Internal Faces				
11.1.1	Apply 2 coats of skim coats on cement plastered surfaces, smoothed with sand paper to receive the paint.	m²	355		
11.1.2	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	2			
	directed.	m ²	355		
11.1.3	Apply 2 coats of skim coats on soffit surfaces, smoothed with sand paper to receive the paint.	m²	5.5		
11.1.4	Internal painting on soffit of slab including prepare & apply one coat of filler/primer & two coats of emulsion paint as directed.	m²	5.5		
		1			

Bill No. 11: Painting Work

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Painting Works (Cont'd)				
	Ceiling Paint				
11.1.5	Existing Ceiling painting; general surfaces/plain surfaces on Ceiling/ soffit /prepare & apply one coat of filler/primer & two coats of emulsion paint as directed.	m ²	68		
11.2	External Faces				
11.2	External Faces				
11.2.1	External Painting on Plastered work ; general surfaces/ plain surfaces on walls/ Isolated column /isolated beam/ reveal including prepare and apply one coat of primer and two coats of weather shield paint as directed.		218		
11.3	Valance/barge board painting				
11.3.1	Paint enamel, applying two coat after cleaning and preparing surface	m2	25		
	TOTAL CARRIED TO SUMMA				

Bill No. 12: Drainage Work

Item	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
No.					
12.0	Drainage				
12.0	Diamage				
	Sewage & Drainage Work				
	Rates for Drainage Work shall include for the cost of				
	following:	Note			
	1. All pipe specials such as bends, junctions, elbows,				
	tees etc. unless separately shown in the BOQ.	Note			
	2. Laying of pipes to falls.	Note			
	Connection to sides of manholes etc.	Note			
	Providing sleeves etc., when pipes pass through				
	walls, foundations etc.	Note			
	5. Giving notices, obtaining necessary approvals from				
	Local Authorities, paying fees etc.	Note			
	6. Testing, commissioning and disinfection after				
	completion.	Note			
12.1	Piping				
	Sewer and Waste Water PVC Pipe, type 600, including				
	all fittings, sleeves, accessories, supports, etc.				
	complete as specified				
12.1.1	63mm diameter uPVC pipe	m	19.0		
12.1.2	110mm diameter uPVC pipe	m	19.0		
12.2	Manholes and catch pits				
	Manhole for drainage network including excavation,				
	disposal, concrete work, shuttering, 225 mm brick wall				
	etc. and all builders work include trenching, channels				
	and prepared opening for pipe connection and internal				
	and external protection for concrete, frame & cover				
	<u>complete as specified</u>				
12.2.1	Catch pit, 300 x 300 mm sized	nr	2		
12.2.2	Manhole, Size 600x600, depth 600-900 mm	nr	2		
2-2					
	TOTAL CARRIED TO SUMMAI	RY			

Bill No. 13: Miscellaneous Work

Item	Description	11	Quantitu		Am a
No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
13.0	Miscellaneous Work				
12.1					
13.1	Water tank with steel structure				
	Supply and installation of 1000L water tank with				
	approved height and design steel structure as directed by the engineer. Rate to include supplying required ball				
	valve and other items to proper working order. Rate				
	also include for necessary excavation, approved				
	material back filling, all piping connection with valves				
	etc.	item	1		
		nem			
13.2	Cladding wall covering				
	Supply and fixing 4mm aluminum composite panel				
	cladding partition on top of the wall between adjoining				
	building and FHC. Structure should be steel box bar				
	frame work with necessary painting as directed by the				
	Engineer.	item	1		
13.3	Zn/Al Roof (Approx. area 15m2)				
	Supply and fixing 0.47 Zn/Al between adjoining				
	building . Structure should be steel box bar truss fixed				
	to wall and box bar purling frame work with necessary				
	painting as directed by the Engineer. Rate to include				
	necessary barge capping, gutter and down pipe as				
	required	item	1		
13.4	Eve ceiling repairing				
	Repairing of existing eve ceiling as directed by the				
	Engineer. Rate to include supply all required material				
	ceiling sheet, beading & timber etc. Contractor should				
	be visited the site and make assessment before the				
	pricing the item.(Ceiling painting measured separately)	item	1		
	TOTAL CARRIED TO SUMMARY				

Bill No. 14: Provisional Sum

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)	
14.0	Provisional Sum					
	Provisional sum for fabricating and fixing of FHC name board	PS	1	35,000.00	35,000.00	
	TOTAL CARRIED TO SUMMARY					

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	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				
	measured or valued in any other way. The definition				
	applies solely to Day Work carried out under and				
	incidental to the Contractor. It does not cover				
	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	Labour				
	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, etc.,				
	and all special inducements for working in Sri Lanka.				
	The rates shall also be deemed to include the extra				
	cost for Public Holidays, other holidays with pay,				
	medical costs, bonus, sick leave, termination,				
	indemnity pay and the like. Unless specifically				
	authorized in writing by the Engineer, non-productive				
	overtime or special rates for overtime will not be				
	admissible. The cost of all supervisory staff				
	including engineer's, foremen, clerks, store men,				
	etc., is to be included in the percentage addition for				
	profit and overhead.				
D.1.1	Labour	hour	15		
D.1.2	Concreter / Mason	hour	15		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Labor (Cont'd)				
D.1.3	Tiller	hour	5		
D.1.4	Carpenter	hour	5		
D.1.5	Steel Fixer and Bar Bender	hour	5		
D.1.6	Painter	hour	5		
D.1.7	Welder	hour	5		
D.1.8	Plumber	hour	5		
D.1.9	Electrician	hour	5		
	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 price shall apply, plus a reasonable allowance for collecting, loading and transporting to the Works.				
D.2.1	Ordinary Portland cement	kg	250		
D.2.2	Concrete (Grade 25)	m ³	0.5		
D.2.3	Metal 20 mm	m ³	1.0		
D.2.4	Metal 25 mm	m ³	1.0		
D.2.5	Metal 40 mm	m ³	1.0		
D.2.6	Building sand	m ³	1.5		

Item	Description	Linit	Quantity	Rate (LKR)	Amount (LKD)
No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
	Matarial (Carted)				
	Material (Cont'd)				
D.2.7	Engineering bricks	nr	200		
D 2 0		2			
D.2.8	225 x 150 mm Rubble	m ³	2		
D.2.9	1" thick planks (class 1 timber)	m ²	2		
D.2.10	High yield steel reinforcement bars (any sizes)	t	0.1		
D.2.11	Structural steel members	t	0.1		
D.2.12	12 mm plywood sheets	nr	2		
D.2.13	Emulsion paint	ltr	4		
D.2.14	Enamel paint	ltr	4		
D.2.15	PVC Pipe 110mm diameter(gauge 600)	m	6		
D.2.16	PVC Pipe 75mm diameter(gauge 600)	m	6		
D.2.17	PVC Pipe 50mm diameter(gauge 1000)	m	8		
D.2.18	PVC Pipe 40mm diameter(gauge 1000)	m	8		
D.2.19	PVC Pipe 32mm diameter(gauge 1000)	m	8		
D.2.20	PVC Pipe 25mm diameter(gauge 1000)	m	8		
D.2.21	PVC Pipe 20mm diameter(gauge 1000)	m	15		
	5 mm thick clear glass	m²	1		

ltem No.	Description	Unit	Quantity	Rate (LKR)	Amount (LKR)
D.3	Schedule of Daywork Rates: 3. Contractor's Equipment				
D.3.1	Concrete mixer, 10 /7	hrs	5		
D.3.2	Electric water Pump	hrs	5		
	Contractor's Equipment (Cont'd)				
D.3.3	Concrete vibrator & Poker	hrs	5		
D.3.4	Welding plant	hrs	5		
	TOTAL CARRIED TO GRAND SUMMARY				