



# BOQ OF HUMAN CELL CULTURE LABORATORY SPLIT AC - SLIBTEC

# BOQ NO - 1

	BOQ FOR SUPPLY AND INSTALLATION OF INVERTER TYPE SPLIT AC	Bidder's		1	Unit Pirce	Total Amount	
ITEM	AT SECOND FLOOR	Response	QTY	UNIT	without	without VAT	Remarks
	DESCRIPTION	(YES / NO)			VAT (LKR)	(LKR)	Remarks
	BESCHENDIN						
	NOTE:						
	It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site						
	inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not accounted						
	for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to						
	appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety						
	(ESH) policies of SLIBTEC . And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the						
	attached drawing & Technical data attached						
	SECOND FLOOR -						
Α	HUMAN CELL CULTURE						
1	Supply of (Cool) Split inverter type Air Conditioning Units with wall/ soffit mounted Bracket decorative Type Indoor Unit & outdoor unit.						
	(Note: Air Conditioner Unit brand name, model number must be mentioned and Technical Brochure must be attached with the tender						
	while quoting otherwise tenderer will not be qualified.)(capacity determination of the Air Conditioning Units should be mention)						
	LAB 1 :- Room volume - 50 cubic meters		1.00	Unit			
	( BTU value 18,000)						
р	Supply of copper piping (suction & return), Insulation, wiring/cable, supports/clamps and all necessary accessories to ready condition.						
	(Measure and pay)		10.00	m			
	(measure and pay)						
3	Supply Drain Piping supports/clamps and all necessary accessories to ready condition. (Measure and pay)		10.00	m			
4	Supply necessary bracket for outdoor & Indoor and unit with rowel bolt all necessary accessories		1	Unit			
4	Supply necessary bracket for outdoor & Indoor and unit with rower boil an necessary accessories		Т				
5	Installation of AC,s indoor/outdoor lifting, placing and fixing up and all necessary accessories and all necessary works to ready condition in						
	all respect.		1	Job			

Technical condition should meet in side the room									
Environmental	Considerations								
Element	Specification								
Temperature	Operating Conditions: 16 °C to 25°C (66°F to 77°F).								
Humidity	Operating Conditions: 30–75% relative humidity (non-condensing).								

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BOQ OF HUMAN CELL CULTURE LABORATORY GLASS PARTITON - SLIBTEC

BOQ NO - 2

	GLASS PARTITONS OF FIRST FLOOR	Bidder's			Unit Pirce	Total Amount	
ITEM	DESCRIPTION	Response (YES / NO)	QTY	UNIT	without VAT (LKR)	without VAT (LKR)	Remarks
	NOTE:						а
	It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not counted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC. And all contactor should adhere to SLIBTEC rules and						
	regulations. For more information, please refer to the attached drawing & Technical data attached						
A - Partitioning	SECOND FLOOR - HUMAN CELL CULTURE						
A-1	To supply and install a white powder-coated aluminum shop front <b>partition</b> with a 75mm section (4' + 4' + 2' - H) and 6 mm thickness clear glass with safety film and sandblast film including all necessary arrangements.(partition Should be 100% Seal) (sand blast should be install to bottom part of the partition and safety film should be install to top two part of the partition and doors) (Measure and pay)		1,200	Sq.ft			
A-2	To supply and install <b>double swing door</b> (The doors should be similar to our existing doors, with special attention to the second half of the door design) with white powder-coated aluminum shop front section, clear glass, including a door closer, handle, lock, and all necessary fittings and arrangements (Door Should be 100% Seal) Size - 1260mm L x 2400mm H						
	Laboratory doors Required Specification - Should be double doors - Should be self-closing - Should be lockable		4	ltem			
	<ul> <li>Locks should have a "latch" to keep the lock retracted so the door could be opened/closed by pushing using the arm without having to use the door handle/lever.</li> <li>Size of the doors need to be adjusted with one small door used for entry/exit and the larger one to be kept closed</li> <li>All doors should have four handles (One for use with gloves and the other without gloves) - large one and small one</li> <li>Doors to the anteroom should open to the inside.</li> </ul>						
B - Plumbing							
B-1	Supply and install chemical resistant lab SS Sink with elbow operating lab tap and eye washer including plumbing and all necessary arrangements. Sink Dimension ( 460 mm (W) x 750 mm (L) x 310mm (D) ) Sinks should be deep and have lever taps (for hands free operations)		1	Item			
В-2	If necessary Remove and Seal existing Sink including all necessary arrangements.		2	Item			
C - Lab bench modification							
C-1	If necessary Cutting ,Removing and Rearrange Lab bench with modification & including all necessary arrangements (Measure and pay)		20	linear feet			
- Sealing Window							
D-1	Sealing existing window to avoid air contamination with outside including all necessary arrangements. (window Should be 100% Seal)		1	Item			

double side mac foil (Sealing panel Size 4x4 ) including all necessary be support to laboratory pressure control (Measure and pay)	650	Sq.ft		

SIL	BOQ OF HUMAN CELL CULTURE LABOR	RATORY G	AS SY	STEM - S	SLIBTEC	BOC	- 3
ITEM	BOQ FOR SUPPLY AND INSTALLATION OF GAS LINE SYSTEM AT SECOND FLOOR - HUMAN CELL CULTURE	Bidder's Response	QTY	UNIT	Unit Pirce without VAT	Total Amount without VAT	Remarks
	NOTE: It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not counted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC . And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the attached drawing & Technical data attached Note: The contractor should take care of the following task after finishing the works:  1.Patching the Holes: Any holes or marks left behind from the after the installation should be patched. The contractor should the installation have noticeable color difference or needs to be refreshed, the contractor should repaint the affected area. They can match the paint to the surrounding wall to ensure a consistent appearance.  4.Cleaning and Repairing: The contractor should clean the wall thoroughly, removing any dust, debris, or adhesive residue left behind by the after installation. Additionally, they should inspect the wall , ceiling for any damage caused during the removal process and make any necessary repairs, such as filling gaps or cracks [BOQ]. If the supplier is unable to perform in accordance with the current BOQ, please provide suggestions for the work. Additionally, certification from a recognized institute is required for the completion, safety, working condition and etc. of the gas line.	(YES / NO)			(LKR)	(LKR)	
A	SECOND FLOOR - HUMAN CELL CULTURE						
A-1	Pipe Installation for four laboratory LP gas line - Supply and install LP Gas pipe (GI) - <b>Yellow color</b> including all necessary arrangements. (Brackets , hangers , drilling , Ceiling removing , coloring and re-fixing wall etc.) <b>(type and size of GI should be mention in quotation )</b> (Measure and pay)		50.00	Linear Feet			
A-2	Supply and install LP gas Hose (4 feet ) including all necessary arrangements.		2.00	Item			

	Supply and install Pressure Regulator for LP gas including all necessary arrangements. (type of Pressure Regulator should be mention)	2.00	ltem		
A-4	If Required Supply and install Flashback Arrestors including all necessary arrangements	1.00	Item		
A-5	If Required Supply and install Gas Filters including all necessary arrangements	1.00	Item		
A-6	If Required Supply and install Leak Detection System for gas lines including all necessary arrangements	1.00	Item		
	If Required Supply and install Emergency Shut-off Valve for LP gas lines including all necessary arrangements	1.00	ltem		
	If there are any additional requirements from the supplier's side to ensure the smooth operation of the gas line, please include them				
в	N2 and CO2 Gas Line				
	Pipe Installation for four laboratory N2 and CO2 gas line - Supply and install N2 Gas pipe (GI) - <b>BLACK</b> - Supply and install CO2 Gas pipe (GI) - <b>GRAY</b> including all necessary arrangements. (Brackets , hangers , drilling , Ceiling removing , coloring and re-fixing wall etc.) (type and size of GI should be mention in quotation ) (Measure and pav)	50.00	Linear Feet		
B-2	Supply and install CO2, N2 gas Hose (4 feet ) including all necessary arrangements.	2.00	ltem		
	Supply and install Pressure Regulator for CO2 , N2 gas line including all necessary arrangements. (type of Pressure Regulator should be mention)	2.00	ltem		
B-4	If Required Supply and install Leak Detection System for gas lines including all necessary arrangements	1.00	Item		
B-5	If Required Supply and install Emergency Shut-off Valve for gas lines including all necessary arrangements	2.00	Item		
	If there are any additional requirements from the supplier's side to ensure the smooth operation of the gas line, please include them				

# BOQ OF HUMAN CELL CULTURE LABORATORY PRESSURE CONTROLLER

# SLIBTEC BOQ-4

	SLIBTEC	BOQ-4					
EM	Pressure controller Installation OF SECOND FLOOR - HUMAN CELL CULTURE DESCRIPTION	Bidder's Response (YES / NO)	QTY	UNIT	Unit Pirce without VAT (LKR)	Total Amount without VAT (LKR)	Remarks
	<ul> <li>NOTE:</li> <li>It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not counted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC . And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the attached drawing &amp; Technical data attached Note:- The contractor should take care of the following task after finishing the works:</li> <li>1.Patching the Holes: Any holes or marks left behind from the after the installation should be patched. The contractor can use spackling paste or wall putty to fill the holes. Once the paste is dry, they can sand it down to create a smooth surface.</li> <li>3.Repainting: If the wall around the installation have noticeable color difference or needs to be refreshed, the contractor should repaint the affected area. They can match the paint to the surrounding wall to ensure a consistent appearance.</li> <li>4.Cleaning and Repairing: The contractor should clean the wall thoroughly, removing any dust, debris, or adhesive residue left behind by the after installation. Additionally, they should inspect the wall , ceiling for any damage caused during the removal process and make any necessary repairs, such as filling gaps or cracks</li> </ul>						
A	SECOND FLOOR - HUMAN CELL CULTURE						
1	Lab A :- Supply and install air pressure controller Positive or negative (The pressure differential should be adjustable and range from 0.5 to 10 Pascals) inside the laboratory using pre insulated duct and Inline duct fans including all necessary arrangements. Pressure differential digital gauges with alarms (to monitor pressure differentials) should be install in both outside and inside of the laboratory (Payment will be made on a measurement and pay basis, according to the supplier's detailed breakdown quotation) - The system should automatically restart after power failures.		1.00	ltem			
2	Lab B :- Supply and install air pressure controller Positive or negative (The pressure differential should be adjustable and range from 0.5 to 10 Pascals) inside the laboratory using pre insulated duct and Inline duct fans including all necessary arrangements. Pressure differential digital gauges with alarms (to monitor pressure differentials) should be install in both outside and inside of the laboratory (Payment will be made on a measurement and pay basis, according to the supplier's detailed breakdown quotation) - The system should automatically restart after power failures.		1.00	ltem			

	Lab C :- Supply and install air pressure controller Positive or negative (The pressure differential should be adjustable and range from 0.5 to 10 Pascals) inside the laboratory using pre insulated duct and Inline duct fans including all necessary arrangements. Pressure differential digital gauges with alarms (to monitor pressure differentials) should be install in both outside and inside of the laboratory (Payment will be made on a measurement and pay basis, according to the supplier's detailed breakdown quotation) - The system should automatically restart after power failures.	1.00	ltem		
3	If necessary Supply and install smart system to on/off above system (Payment will be made on a measurement and pay basis, according to the supplier's detailed breakdown quotation) -The system should automatically restart after power failures.	1.00	ltem		

## BOQ OF HUMAN CELL CULTURE LABORATORY ELECTRICAL SYSTEM

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SI LAWA NET	SLIBTEC	BOQ-5					
ITEM	Electrical System Relocation OF SECOND FLOOR - HUMAN CELL CULTURE DESCRIPTION	Bidder's Response (YES / NO)	QTY	UNIT	Unit Pirce without VAT (LKR)	Total Amount without VAT (LKR)	Remarks
	NOTE:						
	It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not counted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC . And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the attached drawing & Technical data attached Note:- The contractor should take care of the following task after finishing the works: 1.Patching the Holes: Any holes or marks left behind from the after the installation should be patched. The contractor can use spackling paste or wall putty to fill the holes. Once the paste is dry, they can sand it down to create a smooth surface.						
	3.Repainting: If the wall around the installation have noticeable color difference or needs to be refreshed, the contractor should repaint the affected area. They can match the paint to the surrounding wall to ensure a consistent appearance.						
	4.Cleaning and Repairing: The contractor should clean the wall thoroughly, removing any dust, debris, or adhesive residue left behind by the after installation. Additionally, they should inspect the wall , ceiling for any damage caused during the removal process and make any necessary repairs, such as filling gaps or cracks						
A	SECOND FLOOR - HUMAN CELL CULTURE						
1	Supply and install, or rearrange existing LED light panels and switches as per the drawing. Payment will be made on a measurement and pay basis, according to the supplier's detailed breakdown quotation.		1.00	Job			

### BOQ OF HUMAN CELL CULTURE LABORATORY LAB FURNITURE BOQ-06

SL	BOQ OF HUMAN CELL CULTURE LABORATOR	LAD FU	KINIT	UKE	BOQ-06				
- SLIBTEC									
ITEM	BOQ FOR SUPPLY AND INSTALLATION OF LAB FURNITURE AT SECOND FLOOR - HUMAN CELL CULTURE DESCRIPTION	Bidder's Response (YES / NO)	QTY	UNIT	Unit Pirce without VAT (LKR)	Total Amount without VAT (LKR)	Remarks		
	NOTE: It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not accounted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC. And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the attached drawing & Technical data attached								
<b>A</b> 1	SECOND FLOOR - HUMAN CELL CULTURE To supply and install standard <del>(if possible movable)</del> lab benches for sink . design and materials will be discuss at the Prebid meeting (Measure and pay basis)		50.00	Linear Feet					



### BOQ OF HUMAN CELL CULTURE LABORATORY LAB FURNITURE BOQ-07

SL	BOQ OF HUMAN CELL CULTURE LABORATORY LAB FURNITURE BOQ-07 - SLIBTEC									
ITEM	BOQ FOR SUPPLY AND INSTALLATION OF LAB FURNITURE AT SECOND FLOOR - HUMAN CELL CULTURE DESCRIPTION	Bidder's Response (YES / NO)	QTY	UNIT	Unit Price without VAT	Total Amount without VAT (LKR)	Remarks			
	NOTE: It is advisable to visit the site prior to submitting the proposal. Before commencing the project, the contractor should conduct a site inspection. Any damages to the property resulting from the project will be the contractor's responsibility and risk. Wastage is not accounted for in the measurements. The client will not be responsible for any additional work beyond the scope defined. Contractor must adhere to appropriate laws in Sri Lanka and international protocols/conventions to which Sri Lanka is a party and Environmental Health and Safety (ESH) policies of SLIBTEC . And all contactor should adhere to SLIBTEC rules and regulations. For more information, please refer to the attached drawing & Technical data attached									
<b>A</b>	SECOND FLOOR - HUMAN CELL CULTURE To Remove duct lines , suction blower, and fume hood with cabinet and adjusting ceiling sheet and Seal it proper way without harming or in balancing other fume hood in the building (centralize system) and including all necessary arrangements.		3.00	Item						