

**SCHEDULE No. 1A: LIFT SPECIFIC DETAILS**

*NOTE: To be read in Conjunction with the Particular Specifications*

**A Engineers Specifications**

ITEM	DESCRIPTION	LIFT DETAILS			
		LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
<b>A1</b>	<b>GENERAL SPECIFICATIONS</b>				
a1.01	Lift Nomenclature	Conventional	Conventional	Conventional	Conventional
a1.02	Type of Lift	Passenger	Passenger	Passenger	Passenger
a1.03	Special Requirements	Normal	Normal	Normal	Normal
a1.04	No Of Lift	2 No.	2 No.	2 No.	2 No.
a1.05	Configuration	Automatic Group supervision for each cluster of lifts per landing	Automatic Group supervision for each cluster of lifts per landing	Automatic Group supervision for each cluster of lifts per landing	Automatic Group supervision for each cluster of lifts per landing
a1.06	Capacity (Occupancy)	13Pax	13Pax	13Pax	13Pax
a1.07	Capacity (Weight)	1000Kgs	1000Kgs	1000Kgs	1000Kgs
a1.08	Travel (m)	62.m	62.m	62.m	62.m
a1.09	No. of Stops / openings (Installed)	21 Landings	21 Landings	21 Landings	21 Landings
a1.10	No. of Stops / openings (Configured)	21 Stops	21 Stops	21 Stops	21 Stops
<b>A2</b>	<b>DRIVE SPECIFICATIONS</b>				
a2.01	Drive (Motor) System	Machine Roomless	Machine Roomless	Machine Roomless	Machine Roomless
a2.02	Engine Type	VVVF with Regenerative Drive	VVVF with Regenerative Drive	VVVF with Regenerative Drive	VVVF with Regenerative Drive
a2.03	Speed (m/s) - Minimum	2.0m/s	2.0m/s	2.0m/s	2.0m/s
a2.04	Acceleration (m/s <sup>2</sup> ) - Minimum	0.8m/s <sup>2</sup>	0.8m/s <sup>2</sup>	0.8m/s <sup>2</sup>	0.8m/s <sup>2</sup>
<b>A3</b>	<b>SHAFT SPECIFICATIONS</b>				
a3.01	Existing Shaft Dimensions	1No. SINGLE	1No. SINGLE	1No. SINGLE	1No. SINGLE
		W = 2200mm	W = 2200mm	W = 2200mm	W = 2200mm
		D = 2000mm	D = 2000mm	D = 2000mm	D = 2000mm
		ESTIMATED SINGLE SHAFT DIMMENSIONS	ESTIMATED SINGLE SHAFT DIMMENSIONS	ESTIMATED SINGLE SHAFT DIMMENSIONS	ESTIMATED SINGLE SHAFT DIMMENSIONS
		W = 2200mm	W = 2200mm	W = 2200mm	W = 2200mm
		D = 2000mm	D = 2000mm	D = 2000mm	D = 2000mm
a3.02	Existing Pit Depth	D = 1500mm	D = 1500mm	D = 1500mm	D = 1500mm

ITEM	DESCRIPTION	LIFT DETAILS			
		LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
<b>A4</b>	<b><i>CABIN SPECIFICATIONS</i></b>				
a4.01	Car (Cabin) Access	1No. Access	1No. Access	1No. Access	1No. Access
a4.02	Car (Cabin) Height	2700mm	2700mm	2700mm	2700mm
a4.03	Car (Cabin) Height - Clear	2500mm	2500mm	2500mm	2500mm
a4.04	Car Fit-Out Decoration Allowance	Factory Fitted	Factory Fitted	Factory Fitted	Factory Fitted
a4.05	Car Floor Finish Allowance	50mm	50mm	50mm	50mm
a4.06	Car Floor Display Position	Top Center	Top Center	Top Center	Top Center
a4.07	Car Ventillation	2No. Fans Min.	2No. Fans Min.	2No. Fans Min.	2No. Fans Min.
a4.08	Car Lighting	LED	LED	LED	LED
<b>A5</b>	<b><i>DOOR SPECIFICATIONS</i></b>				
a5.01	Door Opening Type	Center Opening	Center Opening	Center Opening	Center Opening
a5.02	Door Operations / Hour (Minimum)	240 O/H	240 O/H	240 O/H	240 O/H
A5.03	Door Opening Required (Minimum)	W = 1200mm	W = 1200mm	W = 1200mm	W = 1200mm
		H = 2100mm	H = 2100mm	H = 2100mm	H = 2100mm
A5.04	Landing Floor Display Position	Top Center	Top Center	Top Center	Top Center
A5.05	Landing Movement Indication Position	Top Center	Top Center	Top Center	Top Center
<b>A6</b>	<b><i>LANDING OPERATING PANEL</i></b>				
a6.01	Landing Operating Panel Position	1100mm AFFL	1100mm AFFL	1100mm AFFL	1100mm AFFL
a6.02	Type of Buttons	Square	Square	Square	Square
a6.03	Finish on Buttons	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
a6.04	Braille Input on Buttons	Required	Required	Required	Required
a6.05	Buttons Illumination	Required	Required	Required	Required
a6.06	Arrival Gong Sound	Required	Required	Required	Required
<b>A7</b>	<b><i>CAR OPERATING PANEL</i></b>				
a7.01	Car COP 01 Position	Right of door	Right of door	Right of door	Right of door
a7.02	Type of Buttons	Square	Square	Square	Square
a7.03	Buttons Finish	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
a7.04	Braille Input on Buttons	Required	Required	Required	Required
a7.05	Buttons Illumination	Required	Required	Required	Required
a7.06	Key Switch	Required	Required	Required	Required
a7.07	Alarm Button	Required	Required	Required	Required
a7.08	Close Door Button	Required	Required	Required	Required
a7.09	Open Door Button	Required	Required	Required	Required
a7.10	Arrival Gong & floor announcement	Required	Required	Required	Required
a7.11	Intercom Speaker	Required	Required	Required	Required

ITEM	DESCRIPTION	LIFT DETAILS			
		LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
<b>A8</b>	<b>OPERATION FUNCTIONS</b>				
a8.01	Anti Disturbance Function	Required	Required	Required	Required
a8.02	Bypass Overload	Required	Required	Required	Required
a8.03	Cabin Overload Indication	Required	Required	Required	Required
a8.04	Landing Overload Indication	Required	Required	Required	Required
a8.05	Force Closing	Required	Required	Required	Required
a8.06	Advance Door Opening (ADO)	Required	Required	Required	Required
a8.07	Automatic Power Off in Idle Mode	Required	Required	Required	Required
a8.08	Car Call Cancellation	Required	Required	Required	Required
a8.09	2nd Car Operating Panel (COP)	Required	Required	Required	Required
a8.10	Dynamic dispersion standby	Required	Required	Required	Required
a8.11	Releveling	Required	Required	Required	Required
a8.12	Attendant Service/Manual Operation	Required	Required	Required	Required
a8.13	Door Holding Button	Required	Required	Required	Required
a8.14	Door closing time protection	Required	Required	Required	Required
a8.15	Door opening time protection	Required	Required	Required	Required
a8.16	Service floor setting	Required	Required	Required	Required
a8.17	Non-stop service	Required	Required	Required	Required
a8.18	Energy saving mode in main landing	Required	Required	Required	Required
a8.19	Cabin Air Conditioning	Fans Only	Fans Only	Fans Only	Fans Only
a8.20	Air pressure control system	Required	Required	Required	Required
a8.21	Automatic damping system	Required	Required	Required	Required
<b>A9</b>	<b>SAFETY FUNCTIONS</b>				
a9.01	Counter-weight Safety Gear	Required	Required	Required	Required
a9.02	Door light curtain protection/Sensor	Required	Required	Required	Required
a9.03	Cabin Emergency Light	Required	Required	Required	Required
a9.04	Pre-load starting torque	Required	Required	Required	Required
a9.05	Emergency Power Operation	Required	Required	Required	Required
a9.06	Emergency alarm function	Required	Required	Required	Required
a9.07	Earthquake Protection	Required	Required	Required	Required
a9.08	Anti-burglar Function	Not Required	Not Required	Not Required	Not Required
a9.09	Access Control System	None but Provisions to be in place for future addition	None but Provisions to be in place for future addition	None but Provisions to be in place for future addition	None but Provisions to be in place for future addition

ITEM	DESCRIPTION	LIFT DETAILS			
		LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
<b>A10</b>	<b>COMMUNICATION FUNCTIONS</b>				
a10.01	Intercom System	5-Way Intercom Required	5-Way Intercom Required	5-Way Intercom Required	5-Way Intercom Required
a10.02	Arrival Gong & floor announcement	Required	Required	Required	Required
a10.03	Background music	Required	Required	Required	Required
a10.04	Arrival Lamp	Required	Required	Required	Required
a10.05	Cabin Lift Floor Number Indication	Required	Required	Required	Required
a10.06	Landing Lift Floor Number & Direction Indication	Required	Required	Required	Required
a10.07	Voice announcement	Required	Required	Required	Required
a10.08	Fire Evacuation	Required	Required	Required	Required
a10.09	ARD (Automatic Rescue Device) for Power failure	Required	Required	Required	Required
a10.10	BMS Interface	Required	Required	Required	Required
a10.11	CCTV Provision & Cabled	Required	Required	Required	Required
a10.12	Speakers Provision & Cabled	Required	Required	Required	Required
a10.13	Cabin Multi-media Information System	Not Required	Not Required	Not Required	Not Required
<b>A11</b>	<b>FIRE FIGHTING FUNCTIONS</b>				
a11.01	Automatic return to pre-setted floor in case of fire (automatic homing)	Required	Required	Required	Required
a11.02	Second Homing	Not Required	Not Required	Not Required	Not Required
a11.03	Fireman Operation	Required	Required	Required	Required
<b>A12</b>	<b>GROUP CONTROL FUNCTIONS</b>				
a12.01	Group Control	Required	Required	Required	Required
a12.02	Control mode Automatic switch	Not Required	Not Required	Not Required	Not Required
a12.03	Peak hour Control function	Required	Required	Required	Required
a12.04	Group control backup operation	Not Required	Not Required	Not Required	Not Required
a12.05	Learning Function	Not Required	Not Required	Not Required	Not Required
a12.06	Lift Monitoring	Required	Required	Required	Required

**B1 Bidders Specific Particulars for model (MUST Be Filled By Bidder)**

ITEM	DESCRIPTION	LIFT DETAILS			
		LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
b1.01	Lift Model				
b1.02	Lift Code				
b1.03	Proposed Shaft Dimensions (mm)	W =	W =	W =	W =
		D =	D =	D =	D =
b1.04	Car Cabin Dimensions (mm)	W =	W =	W =	W =
		D =	D =	D =	D =
		H =	H =	H =	H =
b1.05	Pit Depth (mm)	D =	D =	D =	D =
b1.06	Machine room Height (From Last slab)	H =	H =	H =	H =
b1.07	Power Rating (KW) - For Each Lift				
b1.08	Voltage Range (V)				
b1.09	Starting Current (A) - For Each Lift				
b1.10	Operating Current (A) - For Each Lift				
b1.11	Power Factor				

**SCHEDULE No. 2A: LIFT TRAVEL HEIGHTS AND LEVELS SERVED**

ITEM	FLOOR SERVED	FLOOR TO FLOOR HEIGHT (mm)	LIFT DETAILS			
			LIFT 01 & 02 Block A	LIFT 01 & 02 Block B	LIFT 01 & 02 Block C	LIFT 01 & 02 Block D
a1	B	-6,000 mm	SERVED	SERVED	SERVED	SERVED
a2	LG	-3,000mm	SERVED	SERVED	SERVED	SERVED
a3	G	0	SERVED	SERVED	SERVED	SERVED
a4	UG	3000 mm	SERVED	SERVED	SERVED	SERVED
a5	1ST	6300 mm	SERVED	SERVED	SERVED	SERVED
a6	2ND	9350mm	SERVED	SERVED	SERVED	SERVED
a7	3RD	12400mm	SERVED	SERVED	SERVED	SERVED
a8	4TH	15450mm	SERVED	SERVED	SERVED	SERVED
a9	5TH	18500mm	SERVED	SERVED	SERVED	SERVED
a10	6TH	21550mm	SERVED	SERVED	SERVED	SERVED
a11	7TH	24800mm	SERVED	SERVED	SERVED	SERVED
a12	8TH	27650mm	SERVED	SERVED	SERVED	SERVED
a13	9TH	30700mm	SERVED	SERVED	SERVED	SERVED
a14	10TH	33750mm	SERVED	SERVED	SERVED	SERVED
a15	11TH	36800mm	SERVED	SERVED	SERVED	SERVED
a16	12TH	39850mm	SERVED	SERVED	SERVED	SERVED
a17	13TH	42900mm	SERVED	SERVED	SERVED	SERVED
a18	14TH	45950mm	SERVED	SERVED	SERVED	SERVED
a19	15TH	49000mm	SERVED	SERVED	SERVED	SERVED
a20	16TH	52050mm	SERVED	SERVED	SERVED	SERVED
a21	ROOF	55100mm	SERVED	SERVED	SERVED	SERVED
a22	ROOF DECK	58150mm	NOT SERVED	NOT SERVED	NOT SERVED	NOT SERVED

**SCHEDULE No. 1B: LIFT FINISHES (PROVISIONAL)**

**A PASSENGER LIFTS**

ITEM	DESCRIPTION	PROPOSED FINISH	BIDDERS FINISH CONFIRMATION
a1	Landing Door Architraves (Lobby)	Brushed Stainless Steel (16 Gauge)	
a2	Car Door Finish (Internal)	Brushed Stainless Steel	
a3	Car Door Finish (External)	Brushed Stainless Steel	
a4	Side Walls	Brushed Stainless Steel	
a5	Rear Wall	Brushed Stainless Steel	
a6	Ceiling Finish	Brushed Stainless Steel	
a7	Floor Finish	Dark Granite Artificial Stone (Non-Slip)	
a8	Floor Skirting	Finish = Satin Finish Stainless Steel	
		Gauge = 18 Gauge	
		Height - 100mm Height	
a9	Handrail	Position = Rear & Side Walls	
		Finish = Stainless Steel	
		Type = Circular	
		Dimension = 35mm Diameter (Min)	
a10	Mirror	Position = Rear Wall	
		Size = Full Height	
		Thickness = 8mm Mirror	
a11	Interior Lighting	LED Spots with Direct Illumination	
		2No. Minimum Emergency Lights (1 Hr)	
a12	Any other Detailed Finishes ( Please Specify Below)		

## **PASSENGER LIFTS**

*The Contractor shall supply labour and supply, deliver, install, fix, connect, test, label and commission the works, clean, complete and working to every detail as described below and in the related specifications and /or on the drawings to the satisfaction of the Consulting Engineers. He will also be expected to attend site meetings / inspections to ascertain all necessary provisions are in place well in advance.*

### **LIFT INSTALLATIONS NOTES:**

#### **Please note that the Lifts shall be:**

- 1 Lifts including doors (Car & Landing) shall be Electrically driven & electronically controlled via AC variable voltage with full length infrared sensor for the door as described.
- 2 Lifts shall have Variable voltage variable frequency geared machine designed such as to give fully regulated landing approach
- 3 All Lifts to come complete with their computer control equipment, hoists and counter-weights.
- 4 Car shall be complete with internal furnishings, fan, control panel and LED lighting fittings
- 5 Car to be complete with hoistway doors & entrances, necessary control and power cables,
- 6 Car to be complete with installations materials and all accessories and complying with the specification
- 7 The imported and local components to be apportioned in pricing as outlined in the schedules.
- 8 Each car / Lift will have a display unit on top of the door in each floor indicating the position of the lift in terms of the floors.
- 9 Each Car to have voice notifications replicating the visual displays.
- 10 Passenger standing on any floor will have the benefit of viewing on the display the movement and position of the lift .
- 11 For virtual acquity the display should have a distinct colour.
- 12 All buttons to incorporate Braille type functions
- 13 All lifts to have Cabled provision for installation of CCTV Cameras. Cameras to be installed by others.
- 14 All lifts to have Cabled provision for installation of Speakers. Speakers to be installed by others.
- 15 All lifts to come with the Detachable canvas for Protection. Canvas should have factory fabricated provision for hooking canvas. (Lift Hooks shall be as DOT Studs Mechanically fixed with bolts & nuts)
- 16 Lift to come factory fitted with own power factor correction [PFC] to 0.98 or better.
- 17 Lift to have its own automatic voltage stabilizer and Transcient voltage surge suppression circuitry.



18 Technical product catalogues and specifications for quoted models to be attached

**All Rates should be V.A.T Inclusive**

**LIFT SCHEDULES**

**A SNO. PASSENGER LIFTS**

ITEM	DESCRIPTION	UNIT	QTY	Rates (Kshs.)	Costs (Kshs)
a1.01	<b>Hoist Materials (FOB)</b> - FOB Cost of lift Hoist materials at country of origin [As per the particular Specifications] i.e. Imported component	No.	8		
a1.02	Hoist Materials (Freight) - Insurance and Freight Cost i.e. Landed cost without duties and taxes [As per the particular Specifications] i.e. Imported component	No.	8		
a1.03	<b>Car Structure Materials (FOB)</b> - FOB Cost of lift Hoist materials at country of origin [As per the particular Specifications] i.e. Imported component	No.	8		
a1.04	Car Structure Materials (Freight) - Insurance and Freight Cost i.e. Landed cost without duties and taxes [As per the particular Specifications] i.e. Imported component	No.	8		
a1.05	<b>Car Finishes Materials (FOB)</b> - FOB Cost of lift Hoist materials at country of origin [As per the particular Specifications] i.e. Imported component	No.	8		
a1.06	Car Finishes Materials (Freight) - Insurance and Freight Cost i.e. Landed cost without duties and taxes [As per the particular Specifications] i.e. Imported component	No.	8		
a1.07	<b>Import Duty:</b> Price for import duty on all imported materials (i.e. Local Component)	No.	8		
a1.08	Insurance & Clearance: Cost of Marine insurance, clearing and handling charges, inland transportation and off-loading at site, and all other local costs (i.e. local component)	No.	8		

ITEM	DESCRIPTION	UNIT	QTY	Rates (Kshs.)	Costs (Kshs)
a1.09	<b>Local Materials:</b> Cost of lift materials purchased locally and delivered to site (i.e. local component)	No.	8		
a1.10	<b>Installation &amp; Commissioning:</b> Sum for Installation, testing and commissioning (i.e. local component on labour & Expertise cost).	No.	8		
a1.11	<b>Canvas:</b> Supply and installation of standard lift canvas complete with hooking provisions and mountings to cover the entire lift car interior walls. (Lift Hooks shall be as DOT Studs Mechanically fixed with bolts & nuts)	No.	8		
a1.12	<b>Automatic Emergency Landing Device:</b> Transient safe landing device to stop the lift & move it to the next landing in event of a fault or power outage.	No.	8		
a1.13	<b>Lift Saftey Equipment:</b> PFC & transient Protection Devices to protect the lift equipment from voltage surge, sags, swells, swings & spikes. This is to be incorporated in Lift and should be factory fitted. To be part of the shop drgs submitted.	No.	8		
a1.14	<b>AVS:</b> Automatic Voltage stabilizer for the lift(s) with a range of $\pm 25\%$ Minimum to cater for any Over / Under Voltages within the power system for the building. To be part of the shop drgs submitted.	No.	8		
a1.15	<b>CCTV signal:</b> Installation of CCTV signal provision wired in 4 pair UTP CAT 6A CU cables to the administration security control room	No.	8		
a1.16	<b>Access Control:</b> Installation of Programmable Card access control to the lift.	No.	8		
a1.17	<b>Access Control Cards:</b> For all residents programmed for destination control depending on floor	No.	600		

a1.18	<b>Total c/f to LIFT PRICE SUMMARY PAGE</b>				
<b>LIFT INSTALLATIONS PRICE SUMMARY PAGE</b>					
ITEM	DESCRIPTION	Costs (Kshs)			
1	Preliminaries and General Conditions				
2	8No. PASSENGER LIFTS				
3	<b>ADDITIONS:</b> Any other equipment or work necessary for the satisfactory completion of the sub-contract works. List on a separate sheet showing the various items and their individual costs only give lumpsum here (If none, write NIL)				
4	<b>FACTORY VISIT;</b> Allow for the factory material inspection and approvals (Lifts ) for 8 No. The cost shall cover Air Flight, accomodation and meal and subsistence allowance as per SRC guidelines				
5	<b>COMPLETION DOCUMENTS;</b> Allow sum for um for completion documents: Comprising workshop drawings, manufacturer's technical product catalogues, users manuals, maintenance manuals, as installed drawings, test certificates, user training signed off chart etc. { <b>NOTE: Penultimate Valuation will not be paid until these are fully availed &amp; signed off by the engineer</b> }				
6	<b>TRAINING;</b> Allow sum for training of client / user (At least 5 No. Users). The trained personnel must sign against the items they were trained on and this submitted to the engineer as part of completion document				
7	<b>TESTING &amp; COMMISSIONING:</b> Sum for Testing and commissioning of the entire installations set complete with all accessories, interconnections, controls, BMS link & activation and the necessary programing.				
8	<b>DLP SUM:</b> Sum for 24 months comprehensive maintenance from date of practical completion i.e. for maintainance and replacement of consumables such as blown out devices				

9	Contingency	1,500,000
10	<b>Total for Lifts Installation Inclusive of VAT c/f to FORM OF TENDER</b>	