

Bill of Quantity Schedule for Lift Work

Project: Shakti Training and Research Center, Savar, Dhaka

Scope: Supply, installation, testing, and commissioning of 2 pieces lift with the following technical specifications:

01. GENERAL SPECIFICATIONS

TYPE	:	PASSENGER LIFT
MODEL NAME	:	To be Mentioned by the Supplier
Origin	:	Korea/ European /China / Thailand /Equivalent
Brand	:	ThyssenKrupp / Modeum / LGS-Maan /Mitsubishi-Thailand / Schindler / Toshiba/ Hyundai/ Kone
QUANTITY:	:	02 Sets
CAPACITY	:	11 Person (Minimum 600 KG) Please give shaft size Max capacity as per shaft
SPEED	:	1.0 meter Per Second.
NO. OF FLOORS / STOPS	:	10 Floors / 10 Opening
SERVICE FLOORS' NAME	:	B+G+1 ~ 8
MOTOR CAPACITY	:	5.50 KW (Minimum) (Actual to be mentioned by the supplier)
Car Illumination	:	Decorative Ceiling (Stainless Steel Hairline Finish)
MACHINE ROOM HEIGHT	:	2250 mm (To be checked by supplier by site visit)
OVERHEAD	:	4500 mm (To be checked by supplier by site visit)
PIT DEPTH	:	1500 mm (Maximum) To be checked by supplier by site visit
HOIST-WAY SIZE	:	3900 mm (WIDTH) X 2400 mm (DEPTH) To be checked by supplier by site visit
CONTROL SYSTEM	:	AC-VVVF, VARIABLE VOLTAGE VARIABLE FREQUENCY
OPERATION	:	Duplex SELECTIVE COLLECTIVE (Group Controll)
MACHINE ROOM	:	AT THE TOP OF THE LIFT SHAFT
POWER SUPPLY	:	AC 400 V (±5%), 3 PH, 50 HZ (For Power) AC 220 V (±5%), 1 PH, 50 HZ (For Lighting)

02. CAR SIDE

CAR	:	Entirely Stainless Steel Hairline finish of approved design. Car walls would be of 1.5mm thick sheet steel walls in sections having in cabin door and three walls of stainless steel Hairline Etching finish of approved design.
CAR INSIDE DIMENSION	:	1400 mm (Width) X 1030 mm (Depth)(Minimum)
CAR OPENING TYPE	:	Automatic 2 panel Center Opening.
OPENING SIZE	:	800 mm (Width) X 2100 mm (Height).(Minimum)
Cabin Height	:	2300 mm (minimum)
CAR ILLUMINATION	:	DECORATIVE CEILING (As per approved design) (Stainless Steel Hairline Finish)
Cage Door	:	Stainless Steel Hairline Finish (As per approved design)
Cage Wall (2 sides)	:	Stainless Steel Hairline Finish (As per approved design)
Cage Wall (Rear Wall)	:	Stainless Steel Hairline Finish (As per approved design)
OPERATING PANEL BOARD	:	MICRO PUSH BUTTON TYPE (As per approved design) (Hairline Finish)
FLOORING	:	DECO-TILE (As per approved design)
DOORSILL	:	EXTRUDED HARD ALUMINUM
HAND RAIL	:	Round stainless steel in 3 side of the cabin (As per approved design)

03. HALL SIDE

JAMB	GR.FL	:	WIDE STRAIGHT JAMB With transom panel in Stainless Steel Hairline Finish.
	TYP.FL	:	WIDE STRAIGHT JAMB Without transom Panel in Stainless Steel Hairline Finish.
HATCH DOOR	GR.FL	:	Stainless Steel Hairline Etching Finish (As per approved design)
	TYP.FL	:	Stainless Steel Etching Hairline Finish (As per approved design)

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DOORSILL : EXTRUDED HARD ALUMINUM

04. SIGNAL

CAR POSITION INDICATOR : Vertical digital type indicator ON O.P.B (As per approved design) (Hairline Finish)
HALL POSITION INDICATOR & HALL CALL BUTTON
Ground FL : **Horizontal/Vertical** type indicator with **up/down** arrow
(Approved design-Hairline Finish).
TYPICAL FL : Vertical digital type indicator (As per approved design-**Hairline Finish.**)
INTER PHONE : Provided among car, machine room and lobby.
ARRIVAL CHIMES (3 SIGNALS) : Provided on the car top.
OTHERS : MANUFACTURER'S STANDARD

05. SAFETY DEVICES AND SPECIAL FEATURES

- a) Retractable both safety shoe (Safety door edge) for the full height of the door for which reopens the door when it is obstructed by any object while closing
- b) A trickle charge battery of adequate capacity shall be supplied in feed emergency light for 30 minutes (Minimum) in case of power failure
- c) Inter-phone and alarm buzzer system among car, machine room & lobby.
- d) Overload protective device with buzzer to be provided.
- e) Fan provided for forced quiet ventilation from car top concealed by drop ceiling.
- f) Emergency stop and call button for light and fan switch would be provided on operating panel board.
- g) Inspection station would be provided on the top of the car.
- h) **Photo cell (Full height) shall be provided at both door**
- i) Up & Down directional arrows provided on the car operating panel board.
- j) **Energy absorbing spring buffer mounted in pit beneath the car & counterweight to be installed.**
- k) If Speed exceed its permissible during download travel for any reason the gradual type safety gear actuated by the speed governor stops the car quickly and safely.
- l) Final limit switch to disconnects the controller electric power supplies of the car over travels either the top or bottom terminal landing
- m) Voltage stabilizer shall be supplied & installed for the smooth operation of Lift during voltage variation.
- n) Auto Landing/ rescue device shall be supplied & installed for the safe landing of lift & opening of Lift's door during power failure.
- o) Separator beam of required quantity with all required fixing materials shall be supplied & installed for installing Lift at duplex shaft.

Others:

- i. 1 (one) year warranty / guarantee from the date of hand over of lifts
- ii. 1 (one) year free service & maintenance with all spare parts after hand over of lifts.
- iii. 2 (Two) Set Original Technical Manual with Circuit diagram to be submitted at the handing over time.
- iv. One month (Minimum) trial run to be made with operator by the supplier before handover .

