

## **TENDER NOTICE**

### **Installation of Lift Facility for Patients and Differently-abled Individuals in PIA Premises Karachi**

PIA intends to **Install Lift Facility for Patients and Differently-abled Individuals in PIA Premises**. Contracting firms of repute, registered with Pakistan Engineering Council in C-6 (Civil) with specialized code ME 03(III) or above category may apply.

#### **Submission of Bids:**

The bidding process shall be carried out on “**Single Stage, Single Envelop**” basis as per PPRA rules # 36(a).

The interested parties can download detail bid documents from PIA/PPRA website, and submit the same along with Rs.5,000.00 (Non-refundable) Pay Order in the name of Pakistan International Airline and PKR 150,000/- as bid value (refundable) with bid documents. Sealed bid should be sent by 20-1-2023 by 15:00 Hours. The bids will be opened on the same day at 15:30 Hours in the office of General Manager Facilities Management Division, 1<sup>st</sup> Floor, Flight Operation Building, PIA Head Office, Karachi Airport - Karachi.

PIA reserves the right to reject anyone or all bids as per PPRA rules # 33.

#### **General Manager (Facilities Management Division)**

Pakistan International Airlines

Tel: 021- 99044640

Email: gmfacmgmt@piac.aero

## **INVITATION TO BID**

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The interested Contractors are requested to send their applications to the Office of undersigned along with following details:

- Name & year of establishment of firm, registered address and Fax / telephone numbers / Email.
- Details of five or more projects completed in last 05 years costing Rs. 10 Million cumulative
- Valid Certificate of Pakistan Engineering Council, registered in minimum C- 6 Category with specialized code ME 03 (III)
- Financial status with Bank Certificate.
- Latest bank statement with 03 years history.
- Valid NTN certificate.
- Details of dispute / arbitration / litigation, if any.

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#### **General Manager (Facilities Management Division)**

Pakistan International Airlines  
Email: gmfacmgt@piac.aero  
Tel: 021- 99044640

## DOCUMENTS CHECK LIST

Date \_\_\_\_\_

### Installation of Lift Facility for Patients and Differently-abled Individuals in PIA Premises

M/s. \_\_\_\_\_

**BIDS DOCUMENTS**

**TICK APPROPRIATE BOX**

S.NO.	DOCUMENTS	AVAILABILITY	
		Yes	No
1	Sealed Envelop of Bid.	<input type="checkbox"/>	<input type="checkbox"/>
2	Name & year of establishment of firm, registered address and Fax / telephone numbers / Email.	<input type="checkbox"/>	<input type="checkbox"/>
3	Details of five or more projects completed in last 05 years costing Rs. 10 Million cumulative with completion certificates.	<input type="checkbox"/>	<input type="checkbox"/>
4	If any job carried out earlier in PIA, a certificate of recommendation is required from concerned Deputy General Manager.	<input type="checkbox"/>	<input type="checkbox"/>
5	Valid Certificate of Pakistan Engineering Council, registered in minimum C-6 (Civil) Category. ME 03 (III)	<input type="checkbox"/>	<input type="checkbox"/>
6	Financial status with Bank Certificate.	<input type="checkbox"/>	<input type="checkbox"/>
7	Latest bank statement with 02 years history.	<input type="checkbox"/>	<input type="checkbox"/>
8	Valid NTN certificate.	<input type="checkbox"/>	<input type="checkbox"/>
9	Details of dispute / arbitration / litigation, if any.	<input type="checkbox"/>	<input type="checkbox"/>

10	Pay Order of Rs. 5,000/- (nonrefundable)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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- All documents stated in checklist are mandatory. If any requirement stated above (1-10) is not marked, the bid will be turned down and will not be considered in the competition.

\_\_\_\_\_  
SIGNATURE OF CONTRACTOR

\_\_\_\_\_  
CHECKED & VERIFIED BY

(DGM Works & Project)

\_\_\_\_\_  
GENERAL MANAGER  
(FACILITIES MANAGEMENT)

\_\_\_\_\_  
CHIEF PROJECT OFFICER

## DATA SHEET

1.	The name of the Assignment is: <b>Installation of Lift Facility for Patients and Differently-abled Individuals in PIA Premises</b>
2.	The name of the Client is: <b>Pakistan International Airlines Corporation Limited (PIACL)</b>
3.	The description and the objectives of the assignment are: <b>Installation of Lift Facility for Patients and Differently-abled Individuals in PIA Premises</b>
4.	Phasing of the Assignment (if any): <b>No</b>
5.	Pre-Proposal Conference: (If required before opening date.)
6.	The name(s) and address(es) of the Client's Official(s) is (are): <b>GENERAL MANAGER</b> <b>FACILITIES MANAGEMENT DIVISION</b> 1 <sup>ST</sup> FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE. Tel: 021-99044640 Email: <a href="mailto:gmfacmgt@piac.aero">gmfacmgt@piac.aero</a>
7.	The Client shall provide the following inputs: <b>All Data and Reports available with Client</b>
8.	Association with other Firms/JV : <b>PROOF DOCUMENTS REQUIRED</b>
9..	The number of copies of the Financial Proposal required are: <b>Original Only</b>
10	The address for writing on the proposal is <b>GENERAL MANAGER</b> <b>FACILITIES MANAGEMENT DIVISION</b> 1 <sup>ST</sup> FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE. Tel: 021-99044640 Email: <a href="mailto:gmfacmgt@piac.aero">gmfacmgt@piac.aero</a>
11	Date and time of tender submission is before <u>20-1-2023</u> at 1500 Hours.
12.	Date and time of opening of tender is <u>20-1-2023</u> at 1530 Hours.
13.	Validity period of the proposal is: <b>120 Days</b>
14.	The location for submission of proposal is: <b>GENERAL MANAGER</b> <b>FACILITIES MANAGEMENT DIVISION</b> 1 <sup>ST</sup> FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE.

	Tel: 021-99044640 Email: <a href="mailto:gmfacmgt@piac.aero">gmfacmgt@piac.aero</a>
16	Assignment Completion Period a. <b>Installation and functioning</b> <b>02 months</b>

# **TECHNICAL SPECIFICATION**

## SCOPE OF WORK

Supply and installation of 02 No. MRL Elevator for 450Kg Stainless Steel Finished Cabin with MS Steel Structure 5" x 5" Box Channel (vertical column) brazing of 5' x ½' after every 5 feet Thickness 5mm

### MAIN CHARACTERISTICS AND SPECIFICATION

<b>ORIGIN:</b>	Pakistan and China
<b>CAPACITY:</b>	06 person (450 kg)
<b>TRAVEL:</b>	20 Feet
<b>STOPS:</b>	G + 1 = 2 Stops
<b>POWER SUPPLY</b>	3 Phase 380v, 50 Hz
<b>DOORS:</b>	V.V.V.F (Inverter) Automatic Doors, Centre Opening, Stainless Steel & Glass Door 800x 2100 mm Clear Opening
<b>CONTROL PANEL:</b>	V.V.V.F Micro Processor System Control Panel (Monarch china)
<b>MACHINE</b>	Gearless Machine Turin.
<b>WIRE ROPE:</b>	10 mm made of special steel of elevator grade.
<b>GUIDE RAILS:</b>	16-16 mm Guide Rails Complete with Fish Plate
<b>TRAVELING CABLE:</b>	With heavy duty PVC Core
<b>CABIN:</b>	Made of Stainless Steel Cabin with Mirror Steel Foul ceiling, Porcelain Flooring, Car Operating Panel, Intercom system cooling fan & lights

#### **CAR OPERATING PANEL:**

Digital Indicators of directions and positions, switch alarm button and stops button

#### **LANDING INDICATORS:**

Digital indicators of directions position at all floors



**SAFETY DEVICE:**

Photo beam sensor

Emergency Rescue Device

Phase failure protection

Spring Type Buffer

Limit switches.

Door safety switches and mechanical inter locking systemARD

<p><b>Speed Governor:</b></p>	<p>Speed governor for impeding elevator car movement when a predetermined speed is exceeded.</p> <p>Speed governor for impeding elevator car movement when the elevator reached a predetermined over speed such as 110% or rated speed. When the switch opens, power is removed from the machine motor and brake. A braking mechanism, actuated in response to movement of the elevator by motion transmission means, impedes the elevator car. The switch remains open, and the elevator remains un operate able, until the switch is manually reset.</p> <p>Typical governor designs include a sheave coupled to a rope attached to the elevator car, whereby the sheave moves in response to rope movement indicative of elevator car movement. The sheave drive a shaft or spindle coupled to an auction mechanism. The actuation mechanism may be a set of fly balls or flyweights adapted to extend radially when a predetermined level of centrifugal force is applied to them. Radial extension of the fly balls or flyweights causes them to contact an over speed switch. When the over speed switch is actuated power to the motor and motor brake is cut, thereby causing the motor brake to apply a braking force on the motor shaft. If the elevator car continues to increase in speed, a tripping assembly is triggered by the fly weights. The tripping assembly actuates a mechanism to break the governor rope. Braking of the governor rope cause the safeties to be engaged and thereby stop the car.</p>
<p><b>Door Photo Sensor</b></p>	<p>The doors reverse to fully open position if the light ray unit detects an obstacle when the doors are closing.</p>
<p><b>Parking Operation</b></p>	<p>The elevator can be automatically parked at the predetermined floor with its door closed, on car turn off the lights and ventilation.</p>

<b>Emergency Power Operation</b>	If normal building power supply fails and the building provides emergency power to the controller(s), one elevator at a time will proceed to the lowest landing where it will stop with doors
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	open and with all of its power and operating circuit in an in operative standby condition.
<b>Counter Balance</b>	A suitable guided structural steel frame with appropriate fill or weights shall be furnished to promote smooth operation.
<b>Terminal and Final Limits</b>	Terminal limit switches shall be provided to slow down and stop the car automatically at the terminal landings within permissible over travel and final limit switches shall be provided to automatically cut off the power and apply the brake should the car travel beyond the permissible over travel. They shall act independently of the operating devices and buffers.
<b>Terminal Buffer</b>	Heavy duty spring or hydraulic type buffers shall be installed as a means of stopping the car and counterweight at the extreme limits of travel. Buffers in the pit shall be mounted on steel channels which shall extend between both the car and counterweight sills.
<b>Controller</b>	A counter shall be provided to control starting stopping and speed of the elevator motor and also be automatically sable to apply the brake if any of the safety devices operate of if power falls from any cause. In case of power failure and again restore of power the lift shall land to next floor and shall not go to basement/ lowest level.
<b>Reverse Phase Relay</b>	Reverse phase relay shall be provided on the controller which is designated to protect the lift equipment against phase reversal and phase failure.

<b>Machine</b>	The machine shall be of the single wrap traction type and shall include a motor electromechanical brake, steel worm, bronzegear, steel sheave shaft and Farrow-molybdenum sheave all compactly mounted on a single base or bed plate. The work shaft shall be provided with ball bearings to take the end trustand roller bearing shall be furnished for the sheave shaft to ensure alignment and ling bearing life. The driving sheave shall be grooves to ensure sufficient traction and minimize rope wear shall be provided for all bearing and the worm gear.
<b>Brake</b>	The direct current brake shall be spring applied and electrically released and designed to provide smooth stop under variable loads. The brake should be capable of operation automatically by various safety devices, current failure and by normal stopping of car. It should be possible to release the brake manually, such releases short sites. For this purpose one set of brake release equipment shall be supplied.
<b>Control</b>	The control shall be variable voltage frequency A.C. variable voltage closed loop control system using solid state devices and electronic speed pattern generator to command the motorfrom the velocity transducer and load compensation circuits for a comfortable ride. In normal operation, the electromagnetic brake shall only be applied when the lift has come to a complete standstill. The brake shall be only be meant for holding the lift in position at every lending, providing stopping without any jerking effect. Each controller cabinet, containing memory requirement shall be properly from the pollution.

## **TECHNICAL FEATURES:**

<b>Overhaul Operation</b>	If the elevator enters overhaul state, the car box will be in inching-running at the overhaul speed (below 15m/m).
<b>Emergency operation by electricity</b>	Under emergency, merely operation through the Control panel is allowed, with the same running speed and mode as the "overhaul running".
<b>Automatic operation (without operator)</b>	Under attendant-free state, the elevator will make automatic door-closing, stopping and door-opening As per the passengers.
<b>Upper automatic door-Opening</b>	If the elevator is energized when the car box is just at the door area, the car door will automatically open.
<b>Automatic door-closing delay (The time the door remains opened)</b>	For merely internal selected signal, the time to keep door-open after car stopping is (present time) seconds, for merely External call signal, 1-2 seconds: and in case of both internal selected signal and external call signal, 2 seconds.
<b>Call for opening of this floor</b>	In case that the elevator is yet not started but the door is closed or is being closed, pressing the call button of this floor will make the door automatically open
<b>Touch plate or light curtain protection</b>	If the safety touch board or optical screen actuates during door-closed, operation will immediately stop and the door will be re-closed after opening.
<b>automatic stopping at failure</b>	In case that trouble occurs under fast running mode and the elevator stops at non-door area, when the safety circuit is switched on and the converter is under normal working conditions, the elevator will inch towards the intermediate floor to the floor-Alignment position and then open the door.
<b>Halt</b>	After closing of electrical lock, the elevator will enter the parking state, response no external calls, automatically return to the locked floor after Completing all registered internal selections.

- Repetitive door-closing** If the door-locking circuit is not switched on in a specified time after implementing door-closing command, the elevator will open and re-close the door. If the door-locking circuit is yet not switched on after 5 repeated cycles, the elevator will stop for repair.
- Door interlock protection** Only when all doors are interlocked and closed may the elevator be able to run, otherwise it will stop.
- Position-limit protection** If the elevator detects a limit switch, the entire system during upwards (downwards) running, it will immediately permanently stop.

<b>Limit protection</b>	If the elevator runs to trigger a limit switch, the entire system will be immediately de-energized.
<b>Trouble-shooting of elevator</b>	In case of trouble, the system will automatically locate the possible causes and show the trouble message.
<b>Assessment of immunity</b>	This function is able to correctly assess the grounding of the control panel and shaft wires.
<b>Emergency lighting</b>	In case of power failure, the system will automatically turn on the emergency lighting inside the car box.
<b>Direction selection by operator</b>	In case of operator's attendance, he may decide the running required direction via the upward or downward button.
<b>Voice stop-information (Optional)</b>	Under normal condition, the voice unit will announce each stop for passengers.
<b>Automatic evacuation device (Optional)</b>	In case of power failure, the voice unit will automatically align with the nearest floor and open the door to escape the passengers.
<b>Special purpose running</b>	When the special switch actuates, the system will enter the special running state, any external call button is invalid and the elevator.

## **MAINTENANCE AND SERVICE**

### **Guarantee Maintenance**

24 month quality guarantee begins after the elevator has been installed and inspected by concerned sectional in charge. During our guarantee period, a maintenance technician will be sent by installer to maintain the elevator on site. The maintenance cycle will be controlled on a monthly basis. Should any problems occur during the guarantee period. The installer specialist will solve them priority basis from the moment of notification. Before due of the quality guarantee, thorough inspect and test the elevator free of charge for the clients and resolve existing problems if any. During guarantee period, Clients can contact installer via 24-hour Cell No. Provided for the period of 24 months

### **SUPPLY OF SPARE PARTS:**

#### **Within quality guarantee period**

Free replace any broken spare parts which go wrong during normal operation for the clients; Installer will also supply all any spare parts on site for replacement during daily maintenance if required.



**Technical Training**

Installer will send maintenance specialists on site to train two members of personnel free of charges for the user .

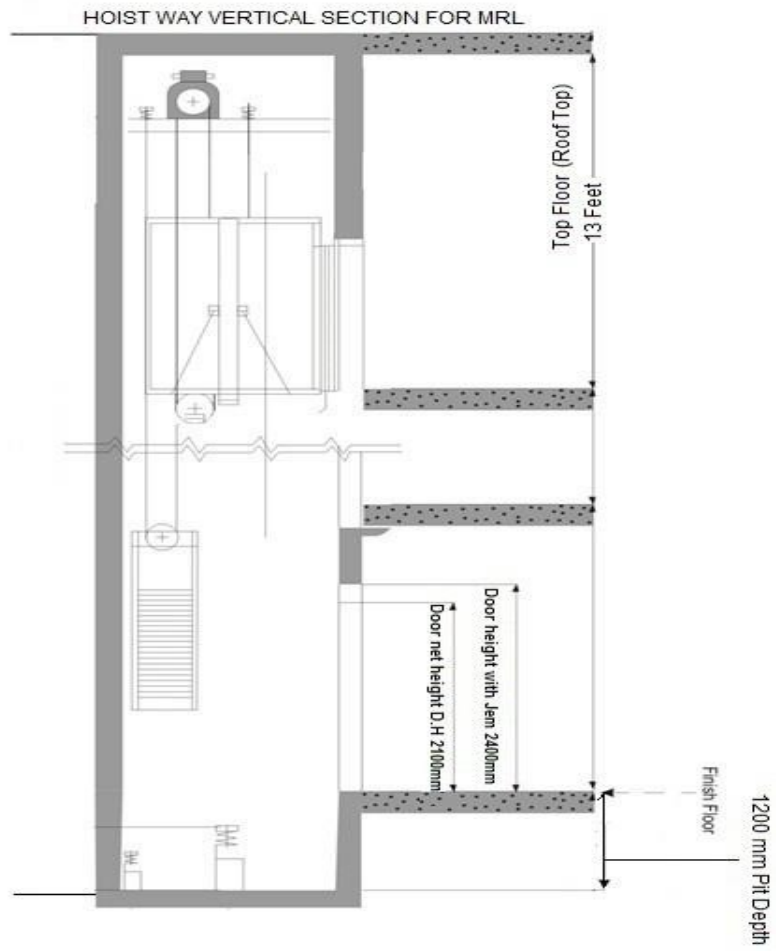
**GUARANTEE:**

Two year guarantee of successful operation of lift installed .

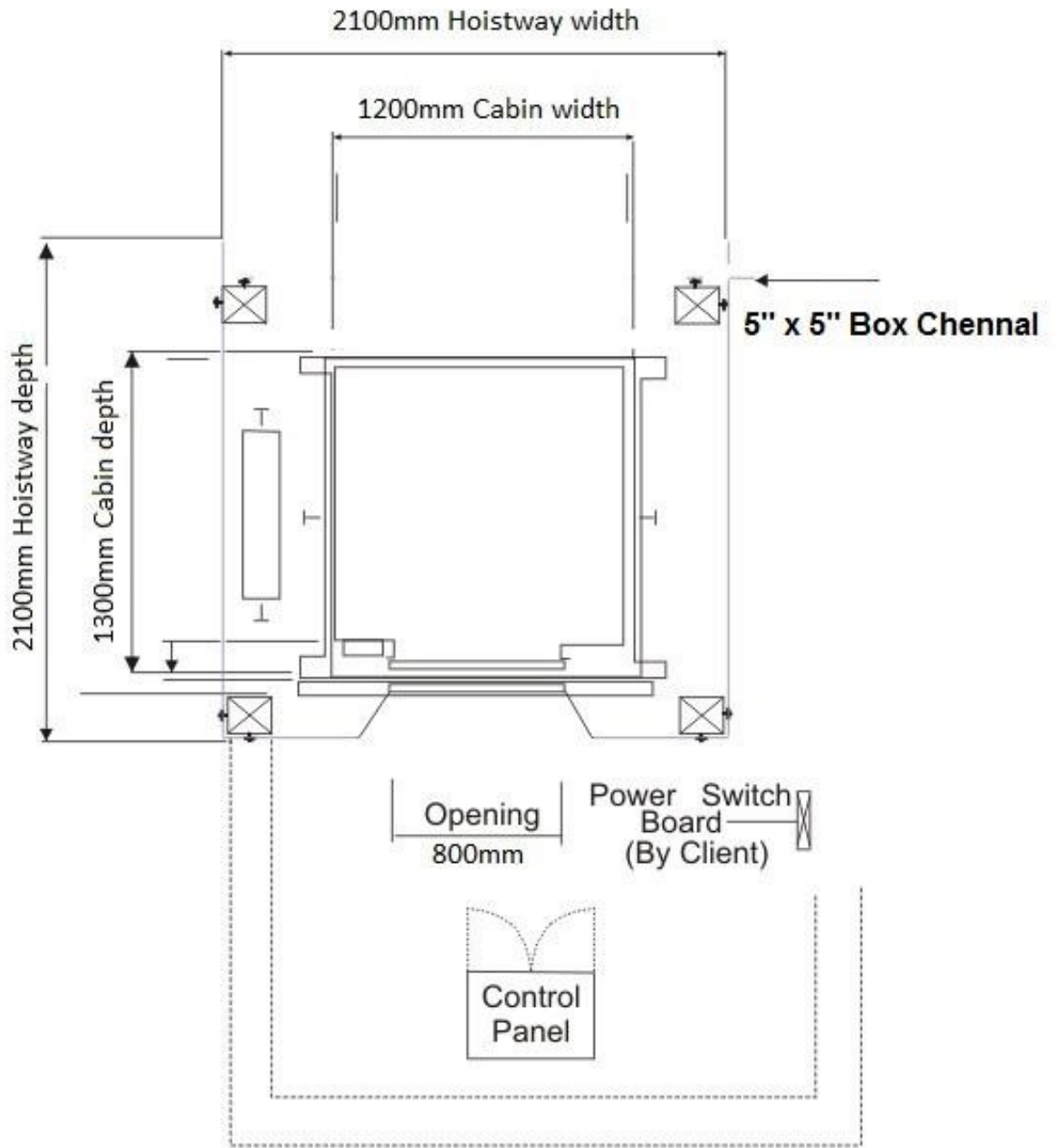
**SHIPMENT AND INSTALLATION PERIOD:**

The work will be completed in 60 days after purchase order issued.

## TECHNICAL DATA



## TECHNICAL DATA



Hoistway & Machine Room Plan

Financial Bid					
S No.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.	Supply and installation of Two (02) Nos. MRL Elevator for 450KGs(6 Person) stainless steel finished cabin with MS Steel Structure by 5"x5" box channel (Vertical Columns) brazing of 5'x1/2' after every 5' thickness 5mm having travel capacity of 20+ feet and minimum stop at 2 stops. Functionality with 3 Phase 380v , 50 Hz Complete in all aspects.	Each	02		
2.	Demolishing of walls, Cutting of slabs and excavation for pit including minor reconstruction and finishing (Paint & Plaster) with removal of debris of all civil/construction related job which may undergo during installation of Lifts complete in all aspects and as desired by concerned project officer.	Job	01		
GRAND TOTAL(Incl All Taxes and other Charges)					

## Note:

- All items required prior approval by providing samples at the cost borne by the contractor.
- All applicable taxes are considered to be included in the quoted price
- 10% security deposit will be deducted from each bill of the contractor and remain withheld at P.I.A Finance Dept. for the period of 2 years after completion of job.
- Completion time is 60 days after receiving of purchase order to successful bidder. In case of noncompliance a sum of Rupees 2000 per Day will be charged as delayed penalty if there would be no valid reason provided by supplier or as directed by the employer i.e. P.I.A.
- Lift to be maintained by supplier for guarantee period and all faulty parts if any to be replaced by supplier at his cost
- Supplier to train PIA personnel at site for lift operation

## **Declaration**

I declare that to the best of my knowledge, the answers submitted in this document are correct. I understand that the information will be used in the process to assess my organization's suitability to be invited to tender I understand that client may reject this document if there is a failure to answer all relevant questions fully provide false/misleading information:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position (Job Title) \_\_\_\_\_

Date: \_\_\_\_\_

Telephone No. \_\_\_\_\_