**Scope of Work**

**Scope of work for Item No. 1.**

This includes Supply, installation, testing, Commissioning and up gradation of Door Operator system in existing and ARD system with latest version modification of controller, along with related and required wiring of field and call register panel with display in lift cabin & all landings with new wiring and travelling cable and as directed by Engineer-In-Charge.

The lift shall be automatically come at nearest landing floor and door shall be get opened in case failure of power supply. Providing of Battery backup for emergency landing for Auto Door Lift is in the scope of Contractor. Old removed material shall be deposited in store at outside cargo jetty area. This includes all labour and material and as directed by Engineer-in-Charge. After completion of work as built drawing of control & Power shall be submitted in 3 sets.

The said item work will be under warrantee period of 1 Year.

**Scope of work for Item No. 2.**

This includes Supply, installation, testing, Commissioning of New Electronics Microprocessor based Down Collective Controller with latest version VVVF Drive for G+2 with ARD system of latest version of Passenger lift installed at Viewers Gallery as directed by Engineer-In-Charge.

This also includes new additional wiring, new junction box, additional travelling cable & limit switch, Y cam, Car operating panel with soft touch button set for cabin and all landing, Automatic rescue device with battery backup, car & landing door panel, headers, sill and all related accessories. Also replacement of car door operating drive & motor set with latest version. Old removed material shall be deposited in store at outside cargo jetty area. This includes all labour and material and as directed by Engineer-in-Charge. After completion of work as built drawing of control & Power shall be submitted in 3 sets.

The said item work will be under warrantee period of 1 Year.

**Scope of work for Item No. 5.**

1. The Contractor shall carry out the maintenance work with trained and appropriately skilled personnel, which it directly employees and /or supervise. They shall be qualified to keep the equipment properly adjusted and they will take all reasonable care to maintain the equipment in efficient, reliable and safe operating condition
2. PLANNED MAINTENANCE:

The Contractor will in accordance with their terms hereof, regularly examine, lubricate and adjust the equipment and generally carry out planned maintenance in a systematic and controlled manner using developed technique and expertise. The frequency of examination will depend on the type of equipment and its location.

1. REPAIR OR REPLACE PARTS:

The Contractor will all its option, repair or replace any parts detailed in the following section which, in its opinion are defective parts will be furnished by The Contractor on an exchange basis under which the replaced parts become the property of the Contractor.

1. EQUIPMENT COVERED:
2. Renew all wire ropes and chains (where fitted) as often as required to maintain an adequate factor of safety to equalize the tension on all hoisting ropes, repair or replace conductor cables and hoist way and machine room elevator wiring.
3. Systematically examine and adjust the following components:

* Machine, Worm Gear, Thrust bearings, Drive Sheave, Drive Sheave bearings, brake contact, Linings and components.
* Motor, Motor Generator, Motor Windings, Rotating Elements, Commutator, Brushes, Brush Holders, Bearing, Coils, Resistance for Operating and Motor Circuits Magnet frames and other Mechanical Parts.
* Controller, Selector, Leveling Devices, Cams, Relays, Solid State Components e.g. PCHS, Transducers, Resistors, Condensers, Power Amplifiers, Transformers, Contacts, Leads, Dashpots, Timing Devices, Steel Selector Tapes and Mechanical and Electrical Driving Equipment.
* Governor, Governor Sheave, Shaft Assembly, Bearings, Contacts and Governor Jaws.
* Car and Hall Mechanical Buttons, Car and Hall Position Indicators, Hall Lanterns, Car Direction Indicators and all other Car and Landing Signal fixtures as installed by the Contractor.
* Deflector or Secondary Sheave, Bearings, Car and Counterweight Guide Rails and Buffers, Top and Bottom Limit Switches, Governor Tension Sheave Assembly, Compensation Sheave Assembly, Car Counterweight and Counterweight Guide Shoes including Rollers or Gibbs.
* Interlocks on Hoist Way Door, Hoist way Door Hinges, Guides, Automatic Power Operated Door Operator, Car Door Hanger, Car Door Contact, Safety Shoe, Load Weighing Equipment, Car Frame, Car Safety Mechanism and Platform.
* To keep pace with fast-changing technology and in our effort to constantly upgrade our elevator systems to make it more user- beneficial constant R&D is under way and the Contractor reserves the right to discontinue manufacture of any or all of the above mentioned items. In such a situation any replacement will be carried out on chargeable basis after allowing suitable rebate for existing component.

1. Furbish lubricants compounded to The Contractor Stringent specifications.
2. Examine periodically all safety devices and governor and make all customary safety tests.
3. SPARE PARTS INVENTORY:

The Contractor will during the terms of this contract maintain, in its local service depot a reasonable supply of frequently used replacement parts and lubricants selected by manufacturer's recommendations to meet the specific requirements of the units. The Contractor further agrees to maintain a supply of major components available for express delivery in case of emergencies in its National Service Centre.

1. QUALITY CONTROL:

The Contractor will perform an annual survey of the equipment to verify that it conforms to manufacturers requirements. The Contractor will also conduct periodic field audits of its personnel to maintain quality standards. The Contractor field engineers will provide technical assistance, technical information and code consultation to support its maintenance organization.

1. SAFETY TESTS:

Contractor will periodically examine safety devices and governor of the equipment to ensure user safety. In addition, The Contractor will conduct an annual no load safety test on the equipment.

1. PRIORITY:

The Contractor will give priority in its service, repair and manufacturing facilities to restoring the equipment to normal service.

1. Wiring:

The Contractor will maintain current manufacturer's engineering wiring diagram for the term of this Agreement and the same will be used exclusively by examiners or authorized manufacturer's representative.

1. WORK SCHEDULE:

All work and services provided for in this Agreement are to be performed during normal working hours on normal working days. No additional costs incurred in carrying out work outside such times will be charged as extra for the overtime premium hours.

1. EMERGENCY CALL:

In Emergency Call for failure of lift operation no extra charge will be paid.

1. ONLY THE CONTRACTOR TO MAKE REPAIRS:

In the interest of safety of the equipment and its supplier shall not direct or permit the repair, alternation, replacement or any interference with any of the equipment or any part thereof, of any items specified herein, by any person or organization other than The Contractor, its employees or contractor, without D.P.A's prior consent. Such consent will not be unreasonably withheld by D.P.A.

1. REPORTING:

The KPT will report details of unsatisfactory running or irregular performance of the equipment.

1. OTHER SAFETY TESTS, ETC:

The Contractor will not be required to make safety tests other than examine periodically all safety devices and governors and make all customary safety tests hereof nor to install new attachments, nor carry out structural or other alternations on the equipment whether or not recommended or directed by insurance companies or by governmental authorities, nor to make any replacements with parts of a different design.

1. TERMINATION:

If Party fails to carry out the work, the work contract may be terminated by giving 90 days Notice.

1. THE CUSTOMER'S RIGHT OF TERMINATION:

The Customer shall be entitled to terminate this agreement forthwith by giving The Contractor ninety (90) days notice in writing in either of the following events and The Contractor responsibilities and entitlements under this Agreement shall cease forthwith:

a) Where the building is vacated.

b) Where The Customer furnishes proof that there has been a change in the legal and beneficial ownership of the building.

1. Any losses to the personnel's are damage to the equipment due to failure of equipment etc or failure due to manufacturing defects. The Contractor is solely responsible for the same.
2. The Contractor is responsible for all the items of materials/spares including consumable items such as greasing & oiling of the elevator equipment except bulbs, tube-rods, chocks, starters, mirror, floor carpet, outside wooden doorframe and painting.
3. AMC shall be completely comprehensive including all spares and labour charges.
4. Monthly visit for servicing etc in every first and third week of the month as per maintenance schedule finalized.
5. Penalty clause:

In case of failure of lift to be attained within 48 hours after intimation. If not done so penalty will be imposed Rs. 2500/- per day.

1. Annual Equipment survey & Safety test to be carried out per year by party and submit the certificate to DPA.
2. Also Annual Third Party Inspection Report to be carried out by the party and report to be submitted to DPA.
3. The Lift License to be renewed once 3 three years by Gujarat Lift Authority shall be arranged by party including Licenses fess etc. and produce the certificate to DTP.

**Seal & Signature Executive Engineer (E)**

**of Contractor Deendayal Port Authority**