

SECTION 4 - SPECIFICATION FOR TESTING, ADJUSTING, BALANCING AND COMMISSIONING (TABC)

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SECTION 4 - SPECIFICATION FOR TESTING, ADJUSTING, BALANCING AND COMMISSIONING (TABC)

4.1 SCHEDULE FOR TESTING, ADJUSTING, BALANCING AND COMMISSIONING

Upon completion of the installation work, Lift Contractor shall have checked and adjusted all parts of the installation to ensure that each and every section of the work is in proper working order.

When he is satisfied that everything is in operating order, he shall arrange with the S.O. and the Inspector of Machinery for carrying out commissioning of the installations. He shall also carry out all the acceptance tests as stipulated hereunder and any other tests as may be deemed necessary by the Inspector of Machinery.

4.1.1 Drop Test

If required, a drop test shall be applied to the fully loaded car, in order to test the efficiency to the safety gear as specified.

4.1.2 Over speed Test

An over speed test shall be carried out in order to determine the efficiency of the safety gear as specified.

4.1.3 Balance Test

Each lift shall be run in both direction under balanced load conditions and readings shall be taken by suitable instruments in order to determine whether the balance is as specified.

4.1.4 Load Test

Each lift shall be run in both directions under various load conditions from no load to 10% overload and instrument readings taken to determine the relations between loads, current and speed.

Each lift shall be subjected to a two (2) hour test with the Lift carefully loaded, stopping at each floor on the up and down trips, during which the doors shall be fully opened and closed. Stops at the lower terminal landing shall be of one (1) minute duration and the other floors only of sufficient duration to permit the opening and closing of the doors.

4.1.5 Safety Operation Tests

All safety circuits, governor trip devices, door contacts, limit switches and other safety devices shall be simulated to show satisfactory safe operation of the lift installations. Lift Contractor must submit a full report of the safety operation tests as specified in the lift code or other further conditions as may be deem necessary by the S.O. or Inspector of Machinery.

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4.1.6 Temperature Rise

Tests shall be made to ensure that the temperature rises of motors magnet operating coils and bar resistances, conform to those submitted by the Tenderer in the Schedule of Technical Data of Equipment Offered.



4.1.7 Insulation Tests

The insulation test of the whole the installation shall not be less than 1 Mega Ohm between any phase conductors and earth when measured with 1,000 Volt Megger.

4.1.8 Performance Test

The time taken for the car to travel from stop and deceleration to creep speed, levelling and closing and opening the car and enclosure doors shall complied with JKKP requirement.

Timing on these sequences of operations will be taken with various car loadings, up to full load and in both directions of travel.

A check on car speeds in both directions of travel with varying loads up to full load will also made.

Lift Contractor shall provide, at his own expense, all labour, weights, apparatus and instruments properly calibrated, required for carrying out all the tests.

4.1.9 TABC Form

The contractor shall provide a TABC report for the complete of lift system. The report shall be verified by the Competent Person (CP).

The contractor shall use the TABC Form as attached in Appendix B. If the contractor to provide alternative TABC form, it shall have at least but not limited to the information / type of test as required in Appendix B.

4.1.10 Tool and Equipment

The contractor shall provide all relevant and reliable equipment/calibrated measurement tools such as laser measurement meter, vernier caliper, taper gauges, level meter, rpm measurement meter, lux measurement meter, sling psychrometer and portable torch light shall be made available at any time during the contract period for supervision and inspection purposes.

----- **END OF SECTION 4** -----