



DOOR MOVEMENT:

Each set of hangar door (i.e. four doors for a clear opening of 30 m width x 8 m height) shall consist two sub sets of three multi-leaf sections running on six tracks. One sub set shall consist of one master leaf and two slave leaves. The master leaf shall be driven through an electric motor & gearbox of suitable rating. Make of motor shall be KIRLOSKAR.

DRIVE ARRANGEMENT

A 3-phase electric motor of suitable rating shall drive each master leaf. The drive transmission from the motor to the drive wheel will be through an efficient gearbox.

ELECTRICAL OPERATION

The electrical operation of each door shall be carried out from a control panel mounted at the extreme end of the door openings inside the hangar building. The operator shall have to keep the OPEN or CLOSE push button pressed to enable the door to operate. At each extremity the door shall automatically STOP, as the control power shall be cut –off through limit/proximity switches. An EMERGENCY STOP BUTTON (STAY-PUT TYPE) shall also be provided on the control panel.

MANUAL OPERATION

In case of power failure the doors to be operated manually by disengaging the gearbox.

ELECTRICAL CONTROL SYSTEM

The electrical control system shall be able to control all aspects of the door movements. The control system for each door shall consist of panel, limit/proximity switches, trailing/bunching cable etc.

ELECTRICAL POWER SUPPLY

The incoming power supply to the door control panel shall be 415V 3-phase, 50Hz, 4-wire & earth. Power supply to each master leaf shall be by means of a looped trailing/ bunching cable system, mounted in the top guide track area from a junction box placed at the top extremities inside the hangar.

CONTROL PANEL & SYSTEM

Each door control panel shall consist of drive contactors, motor protection, control fuse holders and fuses, and indication lamps, interlock contactors, limit/proximity switches, warning lights/hooters, trailing/bunching cable/ wiring on the door after the main in coming power junction box.

DOOR OPERATION SAFETY

The following features shall be incorporated in the control system of the doors.

- 1. The control panel shall be located as shown in drawing and as specified by Engineer in charge for easy operation and enable the operator to have a full view of the area during operation of the door.
- 2. The OPEN & CLOSE push buttons are constant pressure (HOLD to RUN) and the EMERGENCY STOP push buttons is STAY PUT type and have to be twisted to release.
- 3. Emergency limit switch shall be provided at the extreme limits of travel just before the mechanical buffers. These emergency limit switches shall totally cut- off the control/power supply to the system in case the doors over shoot their normal limits.
- 4. Audio/visual alarm-Each door control panel shall be provided with a flashing light cum hooter that shall start & continue to operate during the time door is in operation.
- 5. Key Operation: An operating key switch shall be provided on each control panel to prevent unauthorized operation of the doors.

No. 94, 2nd Main, 2nd Stage, BTM Layout, N.S.Palya, Indl. Area, Bannerghatta Road, Bangalore - 560 076. INDIA Ph.: 080 - 41201056, 26681225 Fax: 080-26684584 E-mail: sales@concordindia.net, info@concordindia.net Website: www.concordindia.net