

Annexure-I
Acceptance test to be carried out

1. Bare table closed loop resonance search (vertical axis)			Result	Remarks
Input level	1 g	Control at center, measurement at four points in outer most PCD 90 ⁰ apart along mutually perpendicular directions. Plot of the drive spectrum to be provided.		
Frequency range	5 Hz to 3 kHz			
Sweep rate	1 oct/min			
2. Bare Table 10g test (vertical axis)			Result	Remarks
Input level	10 g (limited to maximum disp. and velocity)	Control at center, measurement at four points in outer most PCD 90 ⁰ apart along mutually perpendicular directions.		
Frequency range	5Hz to 2 kHz			
Sweep rate	1 oct/min			
3. Minimum possible sine test (vertical axis)			Result	Remarks
Frequency	5Hz to 3 kHz	Control at center, measurement at four points in outer most PCD 90 ⁰ apart along mutually perpendicular directions.		
Input level	0.25 g			
Sweep rate	1 oct/min			
4. Sine endurance test (vertical axis)			Result	Remarks
Frequency	5 to 2 kHz	Control at center, measurement at four points in outer most PCD 90 ⁰ apart along mutually perpendicular directions.		
Amplitude	Maximum displacement, maximum velocity, maximum acceleration.			
Sweep rate	1 oct/min			
Duration	30 minutes (multiple sweeps)			
5. Test for acceleration wave form distortion (vertical axis)			Result	Remarks
Frequency	5 to 2 kHz	Measure the distortion of the acceleration waveform at the shaker top		
Sweep rate	1 oct/min			
Amplitude	Maximum displacement, maximum velocity, maximum acceleration			

6. Full load Random test with dead mass – vertical axis (with a dead mass of twice the armature mass)			Result	Remarks
Frequency	Amplitude/slope	Control at center, measurement at four points in outer most PCD 90 ⁰ apart along mutually perpendicular directions		
20Hz to 100 Hz	6 dB/oct			
100 to 2000 Hz	Flat PSD			
Over all g _{rms}	Selected for full random force rating			
Duration	30 minutes			
7. Test along the Horizontal axis with slip table			Result	Remarks
Input level	1 g	Control at the edge of the Slip plate and measurement at mutually perpendicular locations. Drive to be made available for obtaining the resonance frequency.		
Frequency range	5 Hz to 2 kHz 1 Oct/min sweep.			
8. Sine force capability test, with Slip table			Result	Remarks
Frequency	5 to 2 kHz	Control at the edge of the Slip plate. Measurement at mutually perpendicular locations		
Displacement	50 mm			
Sweep rate	1 oct/min			
Velocity	1.8 m/s			
Acceleration	Suitable to get full force rating			
Duration	30 minutes (multiple sweeps)			
9. Random capability test with slip table			Result	Remarks
Frequency	Amplitude/slope	Control at the edge of the Slip plate. Measurement at mutually perpendicular locations		
20 To 100 Hz	6 dB/octave			
100 to 2000 Hz	Amplitude selected for full rated random force			
Over all g _{rms}	Selected for full random force rating			
Duration	30 minutes			
10. Test for acceleration wave form distortion with slip plate			Result	Remarks
Frequency	5 to 100 Hz	Measure the distortion of the acceleration waveform at slip plate edge		
Sweep rate	1 oct/ minute			
amplitude	Maximum velocity, displacement & acceleration			