

Annexure-1

Specification for Horizontal Wire Rope Testing Machine of 2000kN Capacity

| Sl no | Details | Requirement |
|-------|---|---|
| 1 | Steel wire ropes of mining and material handling operations | Diameter- upto 40mm as per IS 1855. |
| 2 | Machine to comply relevant Indian standard | Breaking force Testing to be done as per IS 13917 |
| 3 | Machine Load frame & structure. | Must be constructed of sturdy steel structure to and robust enough to resist impact and shock load during failure of samples. |
| 4 | Maximum Load testing capacity | 2000kN with overload rating of 10% on maximum load. |
| 5 | Load Measuring Range | 0kN -2000kN or better |
| 6 | Load measurement | Must have Calibrated load measurement device |
| 7 | Load accuracy | Upto +/- 1% on indicated load or less. |
| 8 | Maximum Horizontal clearance | 1500mm or more |
| 9 | Minimum horizontal clearance | 300mm or less |
| 10 | Ram speed range | Upto 50mm/min or more |
| 11 | Ram stroke | 500mm/min or more |
| 12 | Least count of Load (kN) | Not more than 1kN upto 0- 500kN range Not more than 2kN upto 0-1000kN range Not more than 4kN upto 0-2000kN range |
| 13 | Gripping arrangement | Proper gripping without slip and hardened grip surface to sustain High strength steel wire rope |
| 14 | Power supply | 440V, 3 phase, 50Hz. |
| 15 | Data and Display | Proper display and recording of Load and extension data |
| 16 | Calibration | Factory calibrated with provision for regular system calibration |
| 17 | Elongation resolution | Minimum 1mm |
| 18 | Warranty | 3 years onsite warranty from date of installation |
| 19 | Availability of test report | Must have complete and satisfactory test report from Central Government/ NABL/ILAC accredited laboratories with load calibration and conformance to Grade 1.0 of IS1828 |