

# **ELISA READER WITH WASHER**

## **TECHNICAL SPECIFICATION**

### **ELISA READER.**

1. Should have 96 wells and should have reading capability of 1 to 96 wells individually.
2. Should have a linear measurement range of 0 to 3.000 Abs.
3. Should have wavelength range from 400 to 750nm.
4. Should have a photometric accuracy of  $\pm 3\%$  or better.
5. Should have a resolution of 0.001Abs.
6. Should have variable speed plate shaking capability.
7. Should have easy access 8 position filter wheel
8. Machine should be supplied with 4 standard filters.
9. Should have automatic filter selection.
10. Should have automatic calibration before each reading.
11. Should have at least 6 second reading speed.
12. Should have facility for storage of calibration curves.
13. Capable of doing multi standard tests and controls.
14. Should have different types of blanking facility like air wise and well wise.
15. Should be capable of reading U, V and flat type wells
16. Should be capable of reading 8 or 12 well strip plates.
17. Should use halogen light source and two spare bulbs should be provided.
18. Should have internal thermal printer and 5 rolls of thermal should be supplied along with the unit.
19. Should have external printer connectivity option.
20. Should work with input 200 to 240Vac 50 Hz supply.

### **ELISA WASHER**

1. Should have capability to wash flat, U or V bottomed micro plates or 8 or 12 well strip plates.
2. Should have 8 or 12 way manifold.
3. Should have 25 wash program memory or more.
4. Should have programmable washing time, volume and soaking time.
5. Should have minimum 6 wash cycles.
6. Should have continuous operating cycle.
7. Should have residual volume less than 5 $\mu$ l.
8. Should have removable and autoclavable plate carrier.
9. Should have in-built vacuum and dispensing pumps to ensure accurate and quite washing.
10. Should have waste bottle with full bottle alarm or sufficient mechanism to avoid spillage and damage to equipment
11. Should have solution based wash buffer intake.
12. Should work with input 200 to 240Vac 50 Hz supply.
13. Should be supplied with online pure sinewave UPS of sufficient capacity with minimum 30 minutes back up time and dust cover for both machines.
14. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.