

**ICMR-NATIONAL INSTITUTE FOR RESEARCH IN REPRODUCTIVE HEALTH
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Tender for Automated System for

- **DNA extraction**
- **RNA extraction**
- **Protein extraction**

Technical specification for Automated System for Protein, Nucleic acid extraction

- The instrument should be an open system for assay kits, able to accommodate kit from other manufacturers.
- Instrument should be compatible for loading 24 samples.
- The principle should be on magnetic bead based, to purify nucleic acids, proteins, cells, bacteria in a convenient, rapid and reproducible manner from different starting materials with high quality and yield.
- The processing volume should be flexible for all type of sample volumes from 30ul - 5000ul (microliter).
- Entire RNA extraction time on instrument should be <40 min for samples per run.
- Instrument should not have liquid transfer step involved to avoid sample crss contaminations.
- The instrument should have an option of stand-alone mode and PC controlled mode.
- The system should have a memory for 200 internal protocols in stand-alone mode.
- The instrument should have an option of heating and cooling , for samples from +10°C to +75°C in RT and for elution strip from +4°C to +75°C in RT
- Decontamination feature with UV lamp option with UV exposure time maximum upto10-16 hours.
- Easy protocol import / export option using USB stick.
- The software and computer should be supplied with the instrument and the software should not have licenses key for unlimited users' access.

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