Specifications of Nano Particle Tracking Analyzer

- 1. The Size Range -10 to 100 nm or better
- 2. The instrument should have capabilities to do the concentration measurements.
- 3. Temperature Range 10° to 50° C
- 4. Sample Volume 350 μL or less
- 5. The instrument should be capable to work with non-corrosive solvents and water.
- 6. The primary laser source should be Violet laser with minimum wavelength 405 nm or more.
- 7. The system should be capable to upgrade with Green Laser Violet laser (520nm), Blue laser (488 nm) and Red Laser (640nm) or more.
- 8. The instrument should be capable to take measurement in both fluorescence and scattering mode.
- 9. The system should have multifilter option with 5 different positions for fluorescence and 1 for scattering. Customizable to choose band pass/long pass filter.
- 10. The objective piece used in the instrument should be 20X or greater for better resolution.
- 11. Highly Sensitive CMOS Camera is installed in the instrument.
- 12. It should be compatible with auto sampler option in future; to perform high precision sample analysis with environmental changes (pH, Temp etc.).
- 13. Numerical aperture should be 0.4 or higher to capture maximum amount of scattered light. The instrument should be equipped with ports and software to connect syringe pumps.
- 14. Should be able to report Size Vs Concentration, Diffusion coefficient Vs Concentration, 3D-plot for size Vs Concentration Vs Intensity.
- 15. Syringe pump to perform sample analysis at a constant flow rate for fluorescence signal to be quoted in option.
- 16. A suitable computer to run and use the NTA software to get the result in the desired formats like CSV, PDF and video files as well.
- 17. Consumables for three years has to be quoted.
- 18. Services: Should have office and service team available within NCR / Delhi for supporting the system post sale.
- 19. Warranty & CMC: Three years standard warranty should be quoted. The vendor should also provide CMC for the next 2 years or more.
- 20. Training to be provided to 2 concerned staff and 2 students
- 21. The vendor should provide the list of at least 15 installations along with at least 05 satisfied user certificate.
- 22. The vendor should provide compliance statement to be provided point wise showing/highlighting items part as quoted in the quotation for comprehensive technical comparison
- 23. The prices should be quoted inclusive of all taxes except/ excise duty and FOR Jamia Hamdard basis. Jamia Hamdard will provide custom/excise exemption certificate