

Sl. No	Name Of the Equipment /item	Specification	Earnest Money
1	Digital Forensic Imaging Spectrograph.	<p>CCD color camera:</p> <ul style="list-style-type: none"> ➤ Digital, High Resolution,1360 x1024 pixels RGB out put,10 μsec –60 S sec Integration time. <p>CCD black and White camera:</p> <ul style="list-style-type: none"> ➤ Digital, High Resolution,1360 x1024 pixels RGB out put,10 μ sec –60 S sec Integration time. <p>Spectral response:</p> <ul style="list-style-type: none"> ➤ 400 nm-1000nm. <p>Zoom Lens with motorized :</p> <ul style="list-style-type: none"> ➤ Zoom X 10 Motorized zooming, focusing autoiris Co-axial lighting. <p>Digital Zoom:</p> <ul style="list-style-type: none"> ➤ Unlimited. <p>Iris range:</p> <ul style="list-style-type: none"> ➤ F1.2-1000 <p>Imaging Filter:</p> <ul style="list-style-type: none"> ➤ Linear variable interference Filter to provide thresh hold wavelength at of all possible wave length between 400nm—100nm. <p>Pass band FWHM:</p> <ul style="list-style-type: none"> ➤ 25—45nm@ 500 nm, ➤ 35-50 nm @700 nm. ➤ 40-65 nm @ 900 nm <p>Spectral source:</p> <ul style="list-style-type: none"> ➤ High intensity tungsten lamp. <p>Minimal spectral examination:</p> <ul style="list-style-type: none"> ➤ 13 μ m² <p>Micro spectroscopy:</p> <ul style="list-style-type: none"> ➤ High resolution advance spectrometer with wavelength range 400 nm – 1000 nm, stray light less than 0.055, measurement mode absorption, reflectance, transmission and fluorescence in whole range. <p>Illuminating Source:</p> <ol style="list-style-type: none"> a) Long- wave ultraviolet , incident and transmitted peak wave length --- 365 nm. b) Medium - wave Ultraviolet, incident peak wavelength- 313 nm c) Short-wave ultraviolet, incident peak wavelength— 256 nm. d) Visible/Infrared incident spot-- Adjustable e) Visible/Infrared transmitted-- Behind defusing window f) Visible /infrared coaxial— Spectrally designed Fiber optic illumination adapter . g) Visible /infrared, oblique—Angle and pision Adjustable fiber optic adapter. h) Bright LED illumination for fluorescence imaging--- LEDs at each of the following eight wavelength as 455 nm,470 nm, 505 nm, 630 nm, 850 nm.. 	Rs 50000.00

		<p>Hyper Spectrum Processor for Digital Imaging Spectrograph original color software based on hyper spectrum processing , developed for color enhancement of original imaging spectrometer output. The exceptional sensitivity and broad spectral range permit to detect very small difference in similar ink.</p> <ul style="list-style-type: none"> ➤ 16- bits per color channel processing. ➤ Image calibration and integration. ➤ Flexible spectral range selection. ➤ Original color enhancement algorithm ➤ Measure of color parameters XYZ,Luv,Lab value Display data on 1931 and 1960 UCS chromaticity chart. ➤ Split screen for simultaneous ink analysis from two separate documents. ➤ Markers for reference and questioned ink comparison. ➤ Area of interest zoom. ➤ Processed image reporting . ➤ Saving documents and processing options (Job save) <p>Image Analysis On –Screen Measurement . Original 2D visualization software based on hyper spectrum processing for Forensic image enhancement .Aimed for detection of fine structure of the out put images produced by modern high resolution spectrometer in combination with digital spectral imager ,allows quantitative evaluation and comparison of data like hand writing and type writing etc .</p> <ul style="list-style-type: none"> ➤ Feature position coordinates ➤ Distances. ➤ Angles. ➤ Areas. ➤ Diameter and radii. ➤ Unlimited stitch of images, captured from neighbouring areas of documents. ➤ On –screen rulers, grids and examiner notes. ➤ Calibration procedure allows absolute measuring values. ➤ Measuring statistics <p>Forensic 3D Surface View software for Forensic XP 4010 D: Unique 3D visualization software in an open GL based application which works on hyper spectrum processing for the examination of ink differences and pen pressure etc. Its advance feature allows to detect drawing sequence of the lines with more than 80% correct hit statistics .</p> <ul style="list-style-type: none"> ➤ User friendly interface . ➤ Fast real time rendering (rotation in all angles in space to optimized observation). ➤ Flexible zoom in all direction . ➤ Color palettes . ➤ Light adjustment . ➤ Web friendly out put images . ➤ Measurement of features . ➤ Two separate documents processing . 	
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21/5/13

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