ANNEXURE-I

TECHNICAL SPECIFICATION

Sl. No.		VSSC Specification	Qty.
1		**High density Film Digitizer**	1 No.
	a.	Scanning Light Source He-Ne Laser (wavelength: 633nm)	
	b.	Laser source class : Class II-b and device: class- I	
	c.	Sensor : Photomultiplier	
	d.	Film width to be scanned : around 14''/35cms (max.) and 60mm (min.)– small/cut films	
	e.	Scan Resolution: Min 50μm to 500μm	
	f.	Optical Film Density: 0 to 4.7 D	
	g.	Interface: USB 2.0 or better	
	h.	Pixel Depth: 12 Bits/Pixel (4096 gray levels) log(min) adjustable	
	i.	Scan Speed: 7 sec. in 200μm mode. Not more than 2 min. in 50μm mode	
	j.	Self calibration	
	k.	Power: Input 230 V AC 50Hz ± 10%	
	l.	The Digitizer shall meet the requirements of ASTME1936, ISO/EN 14096-1 & -2 Standards & Equipment Class DS specified at ISO/EN14096.	
	m.	The scanner shall be tested, approved & certified by BAM –Germany.	
2		**Operating System Specifications**	1 Set
	a.	Windows 10 professional or better	
	b.	Intel Xeon Processor E5-2650 or better	
	c.	RAM Memory 64 GB DDR4 or better	
	d.	Standard LED Colour Monitor-27 inch	
	e.	Graphics card NVIDIA with 8 GB or better with multiple graphics card output and multi monitor support	
	f.	Hard Disk 2 TB, 7200 RPM Enterprise SATA HDDs	
	g.	DVDRW drive	
	h.	USB 2.0 ports or above	
	i.	Microsoft Office 2016 installed with licensed media	
	j.	External hard disk 4-TB or better	
3		**High Resolution Grayscale Monitor**	
	a.	5 MP, 21.3 inch Monochrome LCD Monitor with Dual Standard configuration	1 No.
	b.	Type: Monochrome (IPS)	
	c.	Native resolution: 2048 x 2560(4 : 5 aspect Ratio)	
	d.	Viewable Image Size- 300 x 400 mm or better	
	e.	Viewing Angles: 178°/178°	
	f.	Brightness : 2500 cd/m^2	
	g.	Recommended brightness for calibration: 600 cd/m^2, 1000 cd/m^2	
	h.	Contrast ratio - 1700 : 1	
	i.	Video Input terminals: DVI-D (dual Link)x 1, Display Port x 2	
	j.	Suitable interfacing cables are to be supplied to connect to PC to transfer Data and Power	
4		**Interfacing Software requirements**	
	a.	64 bit Drivers for scanner	1 Set
	b.	Long Film scanning in 64 bits upto 35 x 500 cm	
	c.	Complete package of functions for viewing and managing images	
	d.	Full support TIFF/DCM/JPG in 8 bit and 12 bits	
	e.	Up gradation of scanning and viewing function for a period 12 months or more	
	f.	Suitable image interpretation and measurement tools such as filtering/image enhancement /dimension measurements/defect marking/stitching of images etc.	
	g.	Installation and instruction manuals in English	
	h.	Suitable viewing, searching, organizing and measurement modules inbuilt.	
	i.	Fully Licensed Driver software	
	j.	Images- 8 & 12 bit TIFF images	
	k.	Images shall be EN 14096 compliant	
	l.	NDT report preparation options inbuilt.	
5		AGFA Film density Step Wedge	1 No.