

**Technical specifications for Multifunction Laser Fax Machines**  
Tender enquiry no. BPL:COMM/FAX/GEN/2008/3  
Tender date: 17/12/2008

**Annexure - I**

S.No.	Functions/ Features	Description	Vendor Confirmation (Yes/No)
	<b>Multifunction Laser Fax Machines</b>	40 Nos.	
	<b>MODEL QUOTED</b>		
	<b>MAKE</b>		
	<b><u>TECHNICAL SPECIFICATION</u></b>		
<b>1</b>	<b>Functions</b>		
<b>1.1</b>	All in one function	Multifunction Laser Fax Machine have color scanning, black-and-white printing, black-and-white copying, black-and-white faxing, black-and-white scanning	
<b>1.2</b>	Multitasking capability	Yes	
<b>2</b>	<b><u>Speed/monthly volume</u></b>		
<b>2.1</b>	Print speed, black (Normal quality mode)	up to 20 ppm	
<b>2.2</b>	Monthly duty cycle	Up to 7000 pages	
<b>2.3</b>	Foot note for duty cycle	Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to Laser jet or color laser jet devices, and enables appropriate deployment of printers and MFPs to satis	
<b>2.4</b>	Recommended monthly Print volume	250 to 2000 pages	
<b>2.5</b>	*Foot note for recommended	Recommends that the number of pages per Monthly print volume month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period	
<b>2.6</b>	First page out(black)	10 sec	
<b>3.6</b>	First page out(black)	10 sec	
<b>3</b>	<b><u>Print quality/technology</u></b>		
<b>3.1</b>	Print technology	Laser	
<b>3.2</b>	Print quality, black	Minimum 1200 x 600 dpi	
<b>3.3</b>	Cartridges	1 (black)	
<b>4</b>	<b><u>Paper handling/media</u></b>		
<b>4.1</b>	Paper tray(s),standard	30-sheet Automatic document feeder	
<b>4.2</b>	Paper tray(s), maximum	30-sheet Automatic document feeder	
<b>4.3</b>	Input capacity, standard	Up to 250 sheets	
<b>4.4</b>	Envelope feeder	Yes	

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4.5	Envelope input, standard	Up to 10 envelopes	
4.6	Output capacity, standard	Up to 100 sheets	
4.7	Output capacity, maximum	Up to 100 sheets	
4.8	Duplex printing(printing on both sides of paper)	Manual (driver support provided)	
4.9	Document finishing	Sheet fed	
4.10	Media sizes, standard	Media input tray and priority slot : letter, legal, envelopes (no.5 1/2 Baronial through No.11), index cards, postcards, automatic document feeder (ADF): letter,legal	
4.11	Media sizes, custom	Priority slot and input tray; 3x5 to 8.5x14 in; automatic document feeder (ADF) :4.13 x 5.83 to 8.5 x 14 in	
4.12	Media types	Paper (plain, preprinted, pre punched, bond, color, glossy, letterhead, light, heavy, recycled, rough), envelopes, vellum, transparencies, labels, cardstock	
5	<b><u>Memory/print languages/typefaces</u></b>		
5.1	Memory, standard	32 MB	
5.2	Memory , maximum	32 MB	
5.3	Print languages, standard	PostScript level 3 emulation	
5.4	Typefaces	45 scalable True type, 35 PostScript	
6	<b><u>Scanner specifications</u></b>		
6.1	Scanner type	Sheetfed	
6.2	Scanner resolution, enhanced	Up to 19200 dpi	
6.3	Scan resolution, hardware	Up to 600 x 600 dpi	
6.4	Bit depth	24 bit	
6.5	Level of grey scale	256	
6.6	Automatic document Feeder Capacity	Standard, 30 sheets	
7	<b><u>Copier specifications</u></b>		
7.1	Copy resolution, black	Up to 600 x 600 dpi	
7.2	Copy reduce/enlarge settings	50 to 200%	
7.3	Maximum number of copies	up to 99 copies	
8	<b><u>Fax Specifications</u></b>		
8.1	Fax transmission speed (seconds per page)	(3 - 5 sec) per page	
8.2	Fax resolution, black (dots per inch)	Up to 300 x 300 dpi (half one enabled)	
8.3	Fax memory	Up to 110 pages	
8.4	Fax broadcast	Yes	
8.5	Fax delayed sending	Yes	
8.6	Fax forwarding	Yes to e-mail	
8.7	Junk fax barrier	Yes (secure FAX)	
8.8	Fax/phone/TAM interface	Yes	
8.9	Polling	Yes	
8.10	Remote retrieval	Yes	

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8.11	Speed dials, maximum number	Up to 200 numbers	
9	<b><u>Connectivity</u></b>		
9.1	Connectivity, standard	Hi-speed USB port	
9.2	Connectivity, optional	direct external print serves (print only)	
9.3	Print drivers, standard	PostScript level 3 emulation	
9.4	Minimum system requirements	PC: Windows 2000, XP home, XP professional): any requirements Pentium II processor (Pentium III or greater recommended), 128 MB RAM, 250 MB hard disk space, SVGA 800 x 600 with 16-bit color disp	
10	<b><u>Certifications</u></b>		
	Power consumption	ENERGY STAR@ qualified	
11	<b><u>Compatible network operating systems</u></b>		
	Compatible Operating	Windows 2000; Windows XP Home; Windows XP professional; Windows server 2003; Windows Vista (TM) ready; Mac OS X v 10.3 or higher	
12	<b><u>Dimensions/weight/warranty</u></b>		
12.1	Cable included	Yes	
12.2	Software included	All the softwares necessary	
	<b>GENERAL TERMS AND CONDITIONS</b>		
13	<b><u>DETAILS TO BE INCLUDED IN THE OFFER</u></b>		
13.1	Technical literature catalogue of the equipment.		
13.2	List of customers alongwith customers full address date of supply to whom identical system have been supplied		
13.3	Detailed AMC proposal for period of four years to be quoted alongwith the offer beyond warranty period		
14	<b><u>INSPECTION AND TESTING</u></b>		
14.1	Live operational inspection at BHEL works for continuous 5 hrs operation and checking for quality of all types of usage & computer connectivity alongwith all accessories.		

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14.2	Inspection and testing of the equipment, if required, shall be carried out by BHEL , before despatch		
14.3	Certificate for compliance to all quality standards for components and assemblies to be furnished.		
14.4.	Certificate for compliance to all quality milestones / stage inspection to be furnish.		
15	<b><u>MISCELLANEOUS</u></b>		
15.1	4 Copies each of test & guarantee certificates, descriptive leaflets operation & service manuals, etc., should be provided alongwith the equipment / supply.		
15.2	The complete system shall be guaranteed for minimum period of 36 months from the date of commissioning at site.		
15.3	Warranty of the equipment for three years from the date of commissioning.		
15.4	Service support should be provided to BHEL on emergency basis on the same day, minor repairs to be completed within 2 to 3 days		
15.5	Remote maintenance facility should be provided whenever required.		
15.6	O & M training should be provided free of cost to BHEL Staff.		
16	<b><u>INSTALLATION AND COMMISSIONING</u></b>		
16.1	Installation and commissioning of the system shall be part of the supply. Free after sales services is to be provided during the guarantee period.		