

## Detailed Technical Specifications for Printers and Cartridges

**Category 1:** A4 size color printer

**Quantity Required:** 5 Nos.

Technical specifications for **each** Printer

Sr. No.	Component	Detailed Specifications	Compliance (YES/NO)
1	Function	Printing, Scanning, Copying	
2	Technology	Laser printer	
3	Page Size	A4	
4	Network Connectivity	10/100/1000Base-Tx Ethernet	
5	USB port	Atleast 1 (USB 2.0) port with cable	
6	Internal Memory Size	512 MB or more	
7	Noise	Below 50 db(A)	
8	Input Tray Capacity	Atleast 300 sheets	
9	Output Capacity	150 sheets or more	
10	Control Panel	Touch LCD panel (4.3 inch or higher)	
11	Printing Speed	21-30 ppm	
12	Print Resolution	600 DPI or better	
13	Color output	Color	
14	Storage device and direct print support	USB Printing	
15	Paper trays	3	
16	Duplex Printing	Yes (must include separate duplexer if required for duplex printing)	
17	Scan speed (A4)	Up to 29 ppm (b&w), up to 20 ppm (color)	
18	Scan size (Automatic Document Feeder), maximum	216 x 356 mm or higher	
19	Scan file format	PDF; JPG; TIFF etc	
20	Color scanning	Yes	
21	Auto document feeder capacity	Standard, 50 sheets uncurled	
22	Scanner type	Flatbed, ADF	
23	Scanner Grayscale levels	256	
24	Scan transmission	Scan to email with LDAP email address lookup, Scan to network folder, Scan to USB, Scan to Microsoft SharePoint®, Scan to computer with software, Quick Sets	
25	Scan resolution	1200 DPI or better	
26	Copier speed (A4)	Atleast 24 CPM	
27	Number of copies	1 to 999	
28	Copy reduce / enlarge settings	25 to 400%	
29	Copier settings	ID Copy; Number of copies; Resize (including 2-Up); Lighter/Darker; Enhancements; Original Size; Binding Margin; Collation; Tray Selection; Two-Sided; Quality (Draft/Normal/Best); Save Current Settings; Restore Factory Defaults	

30	Input Power	110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz) Power Cord	
31	Cartridges	1 Complete Set (CMYK) to be supplied with the printer	
32	Warranty	3 years On-site comprehensive warranty. Warranty period shall start on the day of final acceptance of the material.	
33	Acceptance Criteria	1) Verification of hardware will be done as per technical specification in the purchase order. 2) System will be tested rigorously (printing/scanning/copying) for 1 week before acceptance.	
34	Place of Delivery	Computational Analysis Division, Pre-engineering Building No. 3, Bhabha Atomic Research Centre, Dосuru, Atchutapuram, Visakhapatnam, Andhra Pradesh- 531011	

**Category 2: Additional Cartridges for A4 size color printer**  
**Quantity Required: 5 Nos. Of complete Cartridge Set**  
**Technical specifications for each Cartridge Set**

Sr. No.	Component	Detailed Specifications	Compliance (YES/NO)
1	Cartridge Set	Each set comprising of one black, one cyan, one yellow and one magenta cartridge.	
2	Compatibility	Cartridges must be compatible with the supplied printer (as mentioned under category 1 of the technical specification).	
3	Printing yield	Each cartridge should have a minimum yield of 2,000 pages.	

**Category 3: A3 size color printer**  
**Quantity Required: 2 Nos.**  
**Technical specifications for each Printer**

Sr. No.	Component	Detailed Specifications	Compliance (YES/NO)
1	Function	Printing, Scanning, Copying	
2	Technology	Laser Printer	
3	Page Size	A3	
4	Network Connectivity	10/100/1000Base-Tx Ethernet	
5	USB port	Atleast 1 (USB 2.0) port with cable	
6	USB Memory Printing Format	TIFF, JPEG, PDF, XPS, Open XPS, etc	
7	Internal Memory Size	1 GB or more	

8	Noise	Below 55 db(A)	
9	Input Tray Capacity	Atleast 600 sheets (standard), Atleast 1600 sheets (maximum)	
10	Paper trays	3	
11	Output Capacity	250 sheets or more	
12	Paper weights	60 – 256 g/m <sup>2</sup>	
13	Control Panel	Touch LCD panel (4.3 inch or higher)	
14	Print Speed (A4) (Mono/Color)	Atleast 30 ppm	
15	Print Resolution	Color Print- 600 DPI or better Black and white- 600 DPI or better	
16	Duplex Printing	Yes (must include separate Duplexer if required for duplex printing)	
17	Supported Protocol	TCP/IP, NetBEUI, FTP, Port 9100, LPR, IPP, IPP over SSL, WSD Print, Apple Bonjour, etc.	
18	Scanning color selection	Auto Color (Color/Gray); Auto Color (Color/B&W); Full Color; Grayscale; Black & White	
19	Scan Resolution	600 DPI or better	
20	Scanning File format	TIFF, JPEG, XPS, OpenXPS, PDF (High-compression PDF)	
21	Scan transmission type	Scan to SMB; Scan to E-mail (SMTP, SMTP over SSL); Scan to FTP or FTP over SSL; Scan to USB; TWAIN Scan; WSD Scan; WIA Scan, etc.	
22	Scan address storage	20 or more addresses/users	
23	Copy Size	Max. A3 (Ledger) – Min. A6R	
24	Copy Resolution	600 DPI or better	
25	Copy Zoom Ratio	Manual - 25% – 400% (1% per Step)	
26	Multiple copy	1-999	
27	Input Power	110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz (+/- 3 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz) Power Cord	
28	Cartridges	1 Complete Set (CMYK) to be supplied with the printer	
29	Warranty	3 years On-site comprehensive warranty. Warranty period shall start on the day of final acceptance of the material.	
30	Acceptance Criteria	1) Verification of hardware will be done as per technical specification in the purchase order. 2) System will be tested rigorously (printing/scanning/copying) for 1 week before acceptance.	
31	Place of Delivery	Computational Analysis Division, Pre-engineering Building No. 3, Bhabha Atomic Research Centre, Dosuru, Atchutapuram, Visakhapatnam, Andhra Pradesh- 531011	

**Category 4: Additional Cartridges for A3 size color printer**  
**Quantity Required: 2 Nos. Of complete Cartridge Set**  
**Technical specifications for each Cartridge Set**

<b>Sr. No.</b>	<b>Component</b>	<b>Detailed Specifications</b>	<b>Compliance (YES/NO)</b>
1	Cartridge Set	Each set comprising of one black, one cyan, one yellow and one magenta cartridge.	
2	Compatibility	Cartridges must be compatible with the supplied printer (as mentioned under category 1 of the technical specification).	
3	Printing yield	Each cartridge should have a minimum yield of 30,000 pages.	

## Terms and Conditions

**Note: Vendors need to submit this compliance statement along with technical bid.**

	<b>Terms &amp; Conditions</b>	<b>Compliance (Yes/No)</b>
a.	Vendor should mention the full make / model numbers of all printers and all cartridges to be supplied.	
b.	<b>Quality Requirements:</b> 1) Vendor must offer best quality/certified material (wherever applicable). 2) All the items shall be brand new from reputed manufacturers procured from their authorized agents/principals. 3) Used materials/ recycled items/ repaired items will not be acceptable and will be rejected.	
c.	1) Price should include free delivery and installation at the Place of Delivery 2) All taxes and duties should be inclusive	
d.	<b>Vendor requirements :</b> 1) The vendor should have after-sales technical support infrastructure at Visakhapatnam. 2) Attach details.	
e.	<b>Acceptance Criteria:</b> <b>Items will be accepted subject to satisfying the following criteria for acceptance:</b> 1) Verification of all items will be done as per technical specification of the purchase order. 2) System will be tested rigorously (printing/scanning/copying) for 1 week before acceptance.	
f.	<b>Rejection Criteria:</b> 1) Used/Damaged/Recycled/Repaired items will be rejected. 2) Items not satisfying the acceptance criteria (as specified in sr no. e of terms and conditions) will be rejected.	
g.	<b>Delivery, Installation and Acceptance:</b> - Delivery, Installation and commissioning of the above systems at BARC, Visakhapatnam is the responsibility of the vendor. - Delivery shall be provided at: Computational Analysis Division, Pre-engineering Building No. 3, Bhabha Atomic Research Centre, Dosuru, Atchutapuram, Visakhapatnam, Andhra Pradesh- 531011 at no additional cost - Delivery period indicated by the vendor should include the time required for installation and commissioning.	
h.	<b>Warranty:</b> 1) 3 years on-site comprehensive warranty. 2) The warranty period shall start on the day of final acceptance of the material.	