

Cost-per-Print of four test documents

- **Determine Ink/Toner Cartridge Yields – the average number of prints-per-cartridge for each cartridge**
 - Test files printed semi-continuously, HP-supplied and *SpencerLab* Printer Test Suite
 - Black Text, *Dignissimas2*
 - Mixed Text & Graphics, *Erolm Msupi*
 - News Letter, *SpencerLab LC Newsletter*
 - PowerPoint Slide, *SpencerLab Boise 5a*
 - Cartridges judged to be at “end-of-life” at the earlier of an ‘Ink/Toner Out’ signal on the control panel or when test prints show visible defects attributable to ink supply
 - HP BIJ 1000: ‘Ink Out’ signal provided on printer control panel
 - Samsung ML-1740: ‘Toner Out’ signal *not* available on printer; in accordance with the ISO 19752, “end-of-life” occurs at the first visible defect following two iterations of toner redistribution per Samsung user manual
 - Test high-capacity OEM inks, where available
 - HP #10 Black and #11 individual C, M, Y cartridges
 - Samsung toner only one size available
 - Testing is repeated over multiple cartridges to assure consistency
- **Calculate ink/toner component cost-per-print**
 - Divide each cartridge cost by the corresponding cartridge yield (average prints-per-cartridge)
- **Calculate other user-replaceable component pro-rata costs**
 - *HP BIJ 1000 contains user-replaceable printheads; therefore, include printhead cost in total Cost-per-Print*
 - *Although Samsung ML-1740 manual lists fuser unit, paper feeding roller, transfer roller, and pick-up roller as replaceable parts with average yields of 60,000 pages, Samsung “strongly recommends that items be installed by trained service personnel” and replaceable components are not readily available for typical user purchase; therefore, do not include in total Cost-per-Print*
- **Sum these component costs to obtain total Cost-per-Print for the test document**



° *Print Modes: default on Plain paper*

° *Test Document Coverage Estimates*

- *Ink Coverage: the sum of the parts of the total page covered by each primary – Cyan, Magenta, Yellow, Black*
 - *Ink coverage varies considerably with each individual printer and mode – SWOP coverage is indicated for reference*
- *Page Coverage: the part of the total page covered by any color (color can include multiple primaries)*

SWOP Coverages	Page	cyan	magenta	yellow	black	Ink/Toner
<i>Black Text</i>	4.1%				4.1%	4.1%
<i>Mixed Text & Graphics</i>	9.6%	3.3%	2.4%	0.3%	8.3%	14.3%
<i>News Letter</i>	12.3%	4.5%	4.1%	2.9%	9.8%	21.3%
<i>PowerPoint Slide</i>	14.1%	10.1%	10.5%	7.7%	3.9%	32.2%

° *Cartridge and Printhead Prices*

Component Costs		cyan	magenta	yellow	black
<i>HP BIJ 1000</i>	<i>Ink</i>	Rs.1,440	Rs.1,440	Rs.1,440	Rs.1,440
	<i>Printhead</i>	Rs.1,490	Rs.1,490	Rs.1,490	Rs.1,490
<i>Samsung ML-1740</i>					Rs.3,200

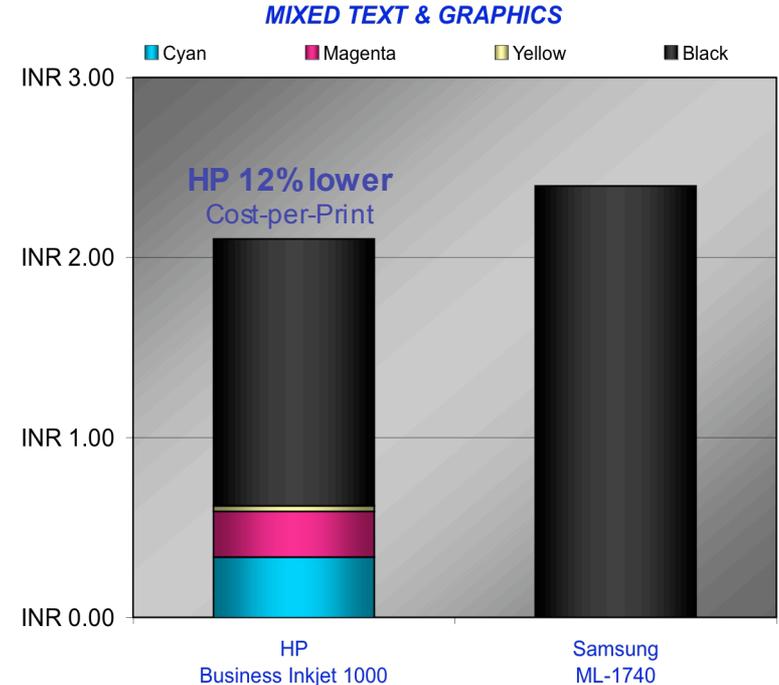
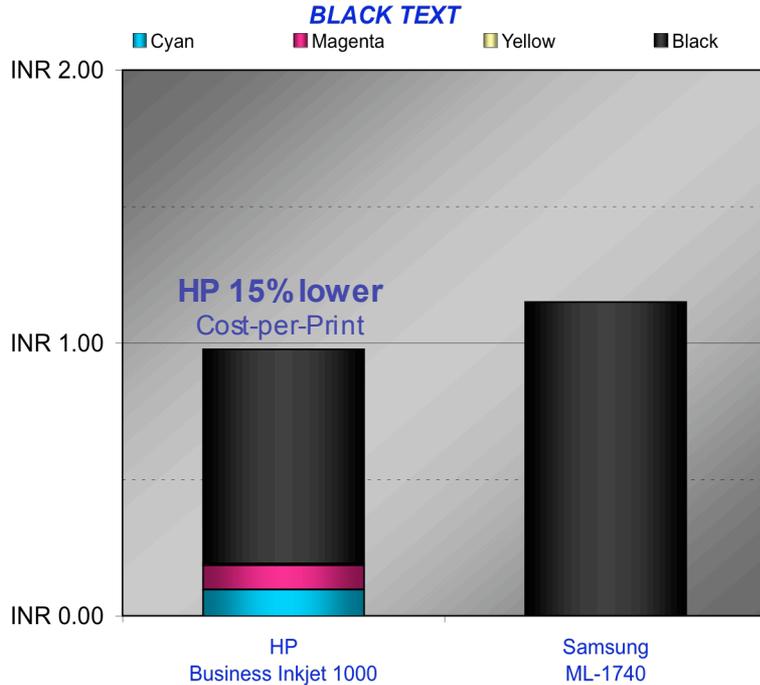
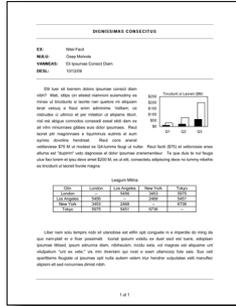
INR prices excl. tax as of May 2005 per Saitronics & Systems, as supplied by Hewlett-Packard.

•Independent testing by *SpencerLab* Digital Color Laboratory was sponsored by Hewlett-Packard Company



Cost-per-Print: Indian Rupees – HP Business Inkjet 1000 vs. Samsung ML-1740 monolaser

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COST-PER-PRINT TESTED



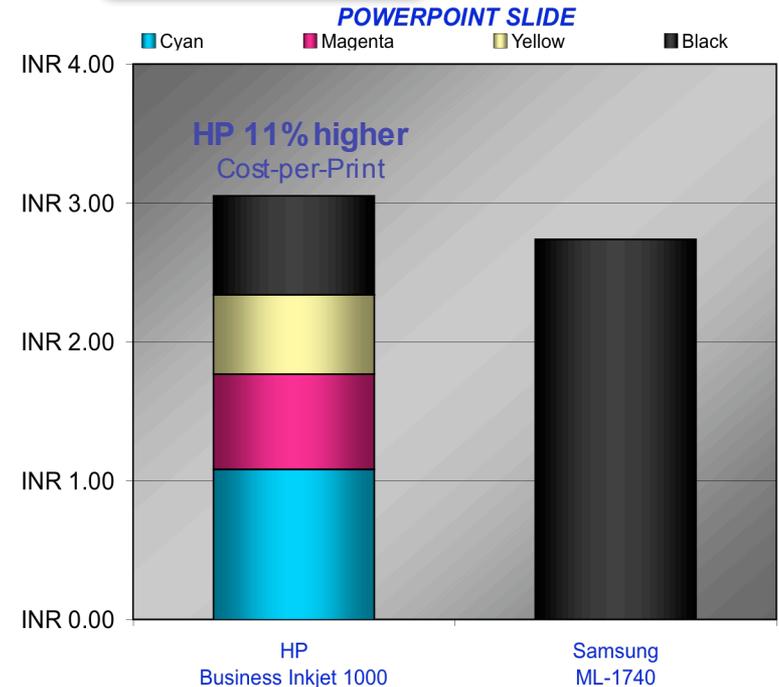
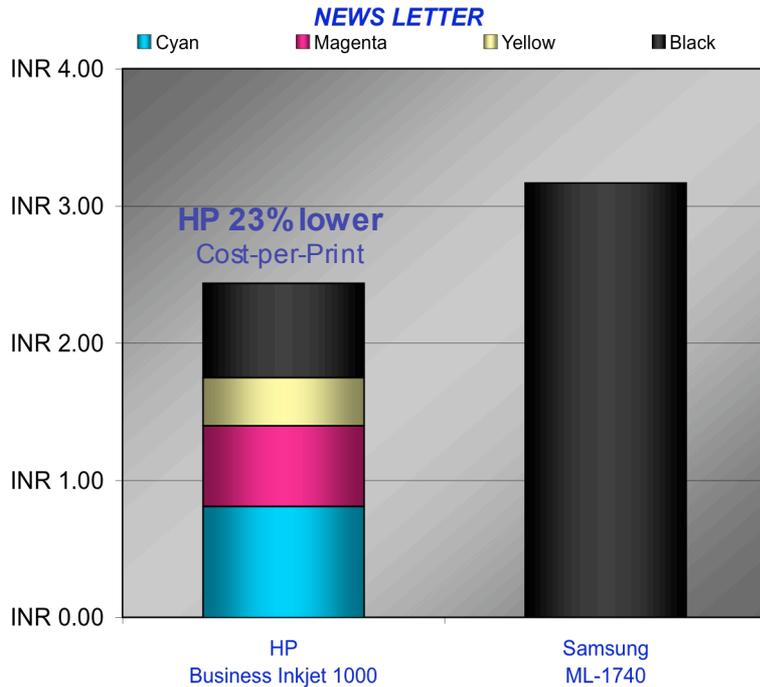
Cost-per-Print includes Ink/Toner costs only.

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Cost-per-Print: Indian Rupees – HP Business Inkjet 1000 vs. Samsung ML-1740 monolaser

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COST-PER-PRINT TESTED



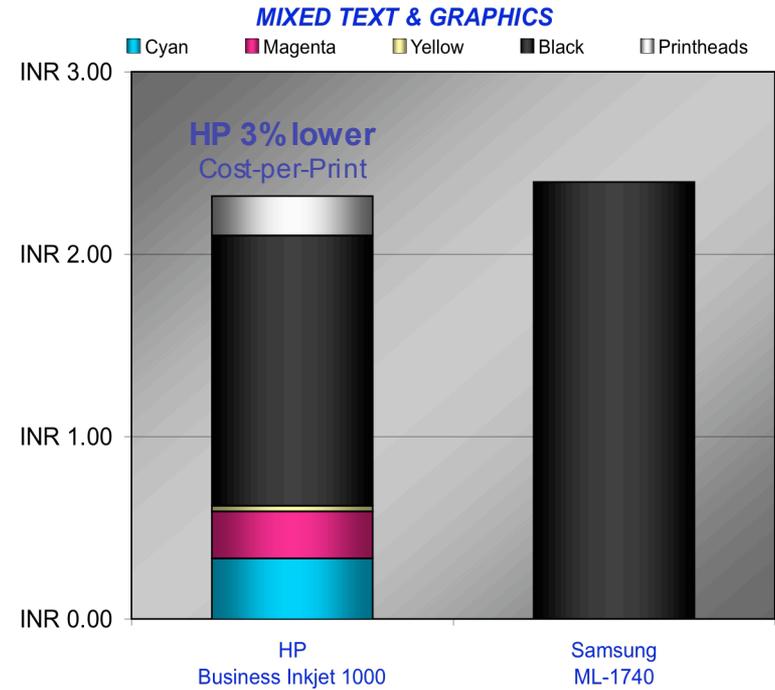
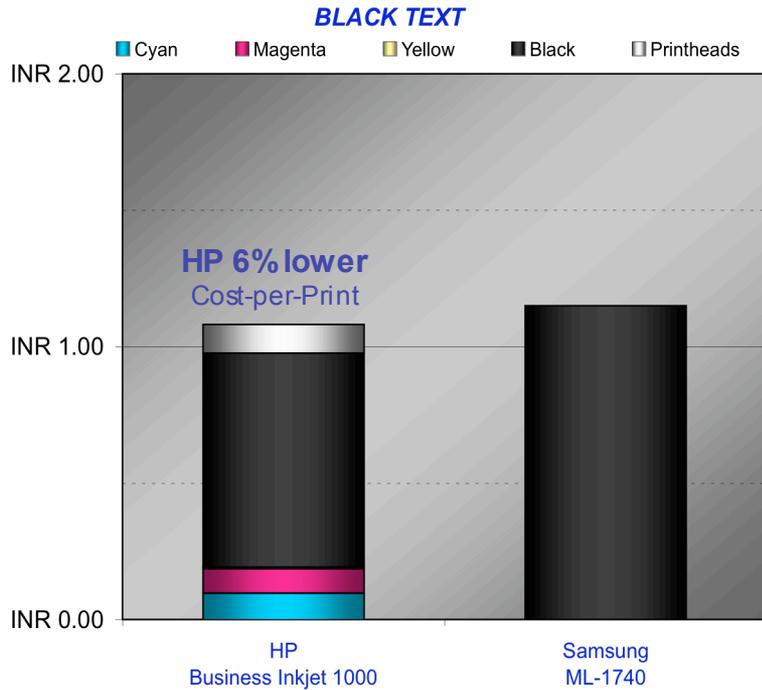
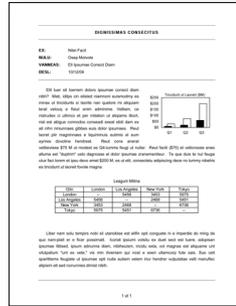
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Cost-per-Print: *Indian Rupees* – HP Business Inkjet 1000 vs. Samsung ML-1740 monolaser

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COST-PER-PRINT TESTED



Cost-per-Print includes HP printhead costs.

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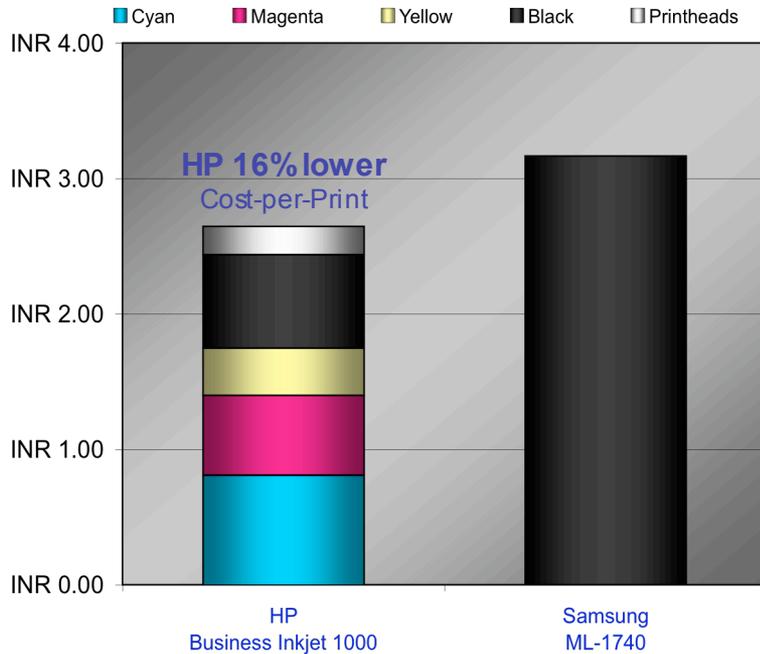


Cost-per-Print: Indian Rupees – HP Business Inkjet 1000 vs. Samsung ML-1740 monolaser

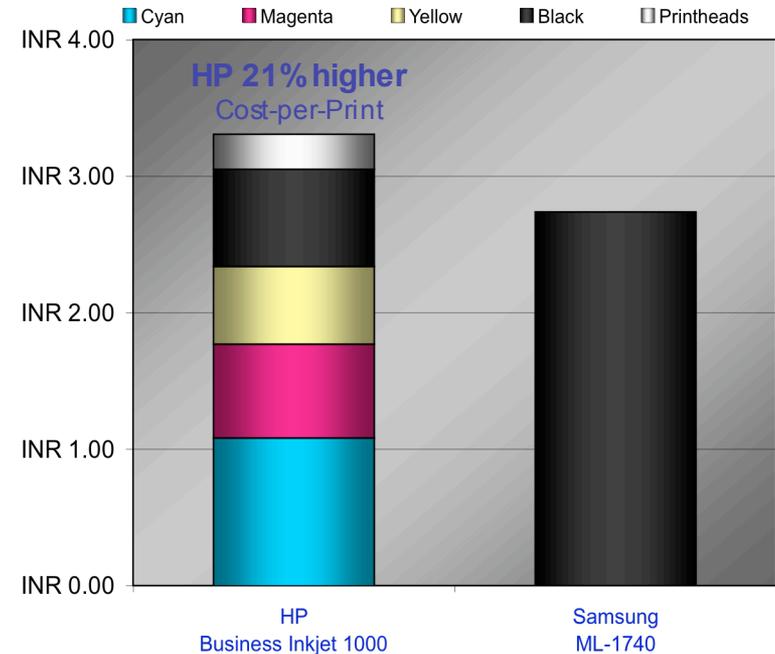
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COST-PER-PRINT TESTED



NEWS LETTER



POWERPOINT SLIDE



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