Aakash (tablet)

Aakash tablet
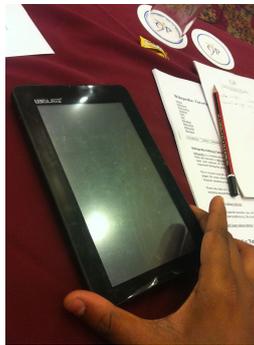

Image of the Ubislate7 – initial version of Aakash.

Manufacturer	VMC Systems, Hyderabad
Type	Tablet computer
Introductory price	US$35 / ₹ 2,250
Media	GSM Device
Operating system	Android 2.3 Gingerbread
Power	3000 mAh li-po battery
CPU	ARM 11 Cortex A8 @ 800 MHz processor
Memory	256 MB RAM
Storage	Flash memory Internal: 2 GB flash External: 2 to 32 GB microSD slot
Display	800 × 480 px 7 in (18 cm) diagonal
Sound	Built in microphone; stereo earphones; 3.5mm jack
Input	Multi-touch touch screen
Camera	None
Touchpad	Resistive
Connectivity	Wi-Fi (802.11 a/b/g/n)
Online services	GetJar Market
Dimensions	190.5 mm (7.50 in) H 118.5 mm (4.67 in) W 15.7 mm (0.62 in) D
Weight	350 g (12 oz)
Predecessor	Sakshat
Successor	Aakash 2
Related articles	UbiSlate 7+
Website	www.akashtablet.com [1]

Aakash a.k.a Ubislate 7+,[2] is an Android-based tablet computers promoted by Government of India as part of an initiative to link 25,000 colleges and 400 universities in an e-learning program. It is produced by the British-Canadian company DataWind. It is manufactured by the India-based company Quad, at a new production centre in Hyderabad, with a planned trial run of 100,000 units. The tablet was officially launched as the *Aakash* in New Delhi on 5 October 2011. The Indian Ministry of Human Resource Development announced an upgraded second-generation model called Aakash 2 in April 2012.

The Aakash is a low-cost tablet computer with a 7-inch touch screen, ARM 11 processor and 256 MB RAM running under the Android 2.2 operating system. It has two universal serial bus (USB) ports and delivers high definition (HD) quality video. For applications, the Aakash will have access to Getjar, an independent market, rather than the Android Market.

Originally projected as a "$35 laptop", the device will be sold to the Government of India and distributed to university students – initially at US$50 until further orders are received and projected eventually to achieve the target $35 price. A commercial version of Aakash is currently marketed as *UbiSlate 7+* at a price of $60. The Aakash 2, codenamed UbiSlate 7C, was released on 11 November 2012 and has a configuration that is an improvement over previous versions. The tablet will be sold to MHRD at a cost of Rs.2263 and subsidised to Rs.1130 for students.

Etymology

The device was initially called the *Sakshat* tablet, later changed to *Aakash* , which is derived from the Sanskrit word *Akasha* (Devanagari आकाश) with several related meanings, aether, empty space, and outer space. The word in Hindi means "sky".

History

The aspiration to create a "Made in India" computer was first reflected in a prototype "Simputer" that was produced in small numbers. Bangalore based CPSU, Bharat Electronics Ltd manufactured around 5,000 Simputers for Indian customers from 2002–07. In 2011, Kapil Sibal announced an anticipated low-cost computing device to compete with the One Laptop per Child (OLPC) initiative, though intended for urban college students rather than the OLPC's rural, underprivileged students.[3]

A year later, the MHRD announced that the low-cost computer would be launched in six weeks. Nine weeks later, the MHRD showcased a tablet named "Aakash", not nearly what had been projected and at US$60 rather than the projected $35. "NDTV" reported that the new low-cost tablet was considerably less able than the previously shown prototype and was going to cost about twice as much.

While it was once projected as a laptop computer, the design has evolved into a tablet computer. At the inauguration of the national Mission on Education Programme organised by the Union HRD Ministry in 2009, joint secretary N. K. Sinha had said that the computing device is 10 inches (which is around 25.5 cm) long and 5 inches (12.5 cm) wide and priced at around $30.[4]

India's Minister of Human Resource Development, Kapil Sibal, unveiled a prototype on 22 July 2010, which was later given out to 500 college students to collect feedback.[5] The price of the device exhibited was projected at $35, eventually to drop to $20 and ultimately to $10.[6] After the device was unveiled, OLPC chairman Nicholas Negroponte offered full access to OLPC technology at no cost to the Indian team.

The tablet was shown on the television program "Gadget Guru" aired on NDTV in August 2010,[7] when it was shown to have 256 MB RAM and 2 GB of internal flash-memory storage and demonstrated running the Android operating system featuring video playback, internal Wi-Fi and cellular data via an external 3G modem. + The device was developed as part of the country's aim to link 25,000 colleges and 400 universities in an e-learning program. Originally projected as a "$35 laptop", the device was planned to be sold to the Government of India and distributed

to university students − initially at US$50 until further orders are received and projected eventually to achieve the target $35 price.

A commercial version was eventually released online as the UbiSlate7 tablet PC at ₹ 3000 (US$50) and the Ubislate7+ tablet PC at ₹ 3500 (US$59)[8] on 11 November 2012 with plans to offer it at a subsidized cost for students of ₹ 1130 (US$19). As of February 2012, DataWind had over 1,400,000 pre-orders, but had only shipped 10,000 units − 0.7% of orders.[9] As of November 2012, many customers who put in orders still had not received their computers and were offered refunds.[10]

Specifications

As released on 5 October 2011, the Aakash features an overall size of 190.5 x 118.5 x 15.7 mm with a 180 millimetres (7.1 in) resistive touchscreen, a weight of 350 grams (12 oz) and using the Android 2.2 operating system with access to the proprietary marketplace Getjar (not the Android Market), developed by DataWind.

The processor runs at 366 MHz; there is a graphics accelerator and HD video coprocessor. The tablet has 256 MB RAM, a micro SD slot with a 2 GB Micro SD card (expandable to 32 GB), two USB ports, a 3.5 mm audio output and input jack, a 2100 mAh battery, Wi-Fi capability, a browser developed by DataWind, and an internal cellular and Subscriber Identity Module (SIM) modem. Power consumption is 2 watts, and there is a solar charging option.

The Aakash is designed to support various document (DOC, DOCX, PPT, PPTX, XLS, XLSX, ODT, ODP,PDF), image (PNG, JPG, BMP and GIF), audio (MP3, AAC, AC3, WAV, WMA) and video (MPEG2, MPEG4, AVI, FLV) file formats and includes an application for access to YouTube video content.

Comparison of past and present Aakash tablets

Tablet name	Company	Price (INR)	CPU speed	Internal Storage (RAM)	External Storage (SD Card)	Battery	Operating system	Network	Phone Call	Screen	Android Store	Launch Date	Manufactured in
Sakshat	HCL	2,200	366 MHz	256 MB	2 GB	2100 mAh	Android 2.2 Froyo	Wi-Fi only	VoIP only	800x480 px Resistive screen	No	Canceled	India
Aakash / Ubislate 7	Datawind	2,500	ARM11, 366 MHz	256 MB	2 GB (expandable up to 32 GB)	2100 mAh	Android 2.2 Froyo	Wi-Fi only	VoIP only	Resistive	No	December 2011	China
UbiSlate 7+ (discontinued)	Datawind	3,000	ARM 11, 366 MHz	256 MB	4 GB (expandable up to 32 GB)	3000 mAh	Android 2.3 Gingerbread	Wi-Fi + GPRS phone network	Yes	Resistive	No	April 2012	China
Ubislate 7Ri (discontinued)	Datawind	-	ARM Cortex-A8, 1 GHz	512 MB	4 GB (expandable up to 32 GB)	3000 mAh	Android 4.0.3 Ice Cream Sandwich	Wi-Fi	VoIP only	Resistive	Yes	April 2012	China
Ubislate 7R+ (discontinued)	Datawind	-	ARM Cortex-A8, 1 GHz	512 MB	4GB (expandable up to 32 GB)	3000 mAh	Android 4.0.3 Ice Cream Sandwich	Wi-Fi + GPRS Phone Network	Yes	Resistive	Yes	April 2012	China
Aakash 2, UbiSlate 7Ci	Datawind	3999	ARM Cortex-A8, 1 GHz	512 MB	4 GB (expandable up to 32 GB)	3000 mAh, 3hrs battery time	Android 4.0 Ice Cream Sandwich	Wi-Fi only	VoIP only	7-inch, 800×480 px capacitive display	Yes	11 November 2012	

Aakash 3, UbiSlate 7C+(EDGE)	Datawind	4999	ARM Cortex-A8, 1 GHz	512 MB	4 GB (expandable up to 32 GB)	3000 mAh, 3hrs battery time	Android 4.0.3 Ice Cream Sandwich	Wi-Fi + GPRS	Yes	7-inch, 800×480 px capacitive display	Yes	11 November 2012	

Storage: Some of the above tablets will have a micro-SD slot, and a 2 GB micro-SD flash memory card, upgradable to 32 GB, to store user data and programs not run from ROM. In Android 2.3 some applications' data can be moved from the ROM to the memory card.

Memory: ROM size has apparently not been stated by Datawind, but is estimated to be either 256 MB or 2 GB.[11] Both tablets have graphics processing cards, but the graphics memory size and GPU speed have not been stated .

Google Android Market: Aakash has no SIM card and insufficient processing power to use Google's Android Market, and will instead use the GetJar Marketplace. Aakash 2 will have access to Google's Android Market confirmed by Google.

Network: Aakash supports wireless local area network (wireless LAN or Wi-Fi). It does not support any cellular networks. In addition to Wi-Fi, UbiSlate-7+ has GPRS Internet connection, a second generation Internet connection. External 3G USB modem is not supported.

Applications

Preloaded applications:

- (Internet) Browser
- Calculator
- notepad
- Calendar
- Camera
- Clock
- Contacts
- DatawindPkgeManager
- DevTools
- Email
- Gallery
- Messaging
- Music
- Note pad
- Phone
- Quick pic (?)
- Search
- Settings
- Spare Parts
- One-Learn [12] (CBSE CLASS 8-12)

Note: UbiSlate 7 Series Tablets are not pre-loaded with any File Explorer or Android Store.

Browser

DataWind announced that their browser will use data compression technology to speed up data transmission. While pre-compressed data such as ZIP files, JPEG images, MP3 audio, MPEG video will not show significantly improved transmission speeds, uncompressed data will be transmitted in as little as one sixth the time, depending upon how efficiently it can be compressed. If and when successfully combined with Server-side web compression, 1G Analog Internet service might actually be able to compete with 2G or 3G digital internet service. Datawind claims that their browser can give up to 30 times faster speeds.

In the Box

- Mobile Internet Device (Tablet)
- AC Adapter (Charger)
- Quick Start Guide
- Welcome Card
- Warranty Card

Welcome statement

Development and testing

Kapil Sibal has stated that a million devices would be made available to students in 2011. The devices will be manufactured at a cost of ₹ 1500 (€23 Euro) each, half of which will be paid by the government and half by the institutions that would use it.[13] In January 2011, the company initially chosen to build the Sakshat, HCL Infosystems, failed to provide evidence that they had at least ₹ 600 million ($12.2 million) in bank guaranteed funds, as required by the Indian government, which has allocated $6.5 million to the project. As a result, the government put the project out for bidding again.[14]

In June 2011,the HRD announced that it received a few samples from the production process which are under testing. Also it mentions that each state in India provided 3000 samples for testing on their functionality, utility and durability in field conditions. The Government of India announced that 10,000 (Sakshat) tablet will be delivered to schools and colleges by late June and over the next four months 90,000 more would be made available at a price of ₹ 2500 device. Government will subsidize the cost by about 50%, so a student would have to pay less than ₹ 1,500 for the device. Indian Ministry of Education is releasing educational videos in conjunction with IGNOU and at sakshat.ac.in [15]. This preparation of content is meant for students with access to the Internet, India's first law-biding Online Video Library.

Software Development

DataWind, the maker of Aakash, has announced a contest for students wherein their best applications will be embedded in the Ubislate(Aakash Tablet). Top 5 application winners will be awarded Rs 100,000 each. Nasscom Foundation has partnered with DataWind and announced a contest wherein 10 NGOs will have an opportunity to win 20 tablets each, mainly to improve their operations and programme implementation.

Hardware Development

IIT-Rajasthan's specifications were 1.2 GHz CPU and 700 MB RAM. It wanted the tablet to work after steep falls and in Monsoon season, making the cost over Rs 5000. So responsibility of drafting specifications will be shifted to IIT Mumbai, IIT Madras and IIT Kanpur while PSUs are being considered for procurement of the Aakash Tablet. Aakash 2 could have the 1 GB RAM, Capacitive TouchScreen Panel and a front facing camera of VGA Quality (0.3MP), capable of capturing video, that was announced earlier by Kapil Sibal. This version of tablet may be announced only after October 2012, because of low funds in procuring the raw material for assembling and also setting up of assembling plant at Noida and Coimbatore. The Govt. officials say that the tablet may not be realised due to the pressure from various institutes and meagre support from the Indian Government in regard to the funds

regarding the process of the tablet procurement and assembly of the same.

35% of hardware components were sourced from South Korea, 25% from China, 16% from the USA, 16% from India and 8% from other countries.

Reception

Problems such as low memory, frequent system freezes, poor sound quality, absence of support for all formats and inability to install free software available online were also cited by users. Technical commentator Prasanto Roy criticised issues such as a low battery life, an insufficient 7" screen and absence of training and support infrastructure, especially in rural areas.[16] UbiSlate 7+ will be released by 2012. The producer has finalized the improvements of Aakash.

After receiving feedback of the early release model from over 500 users from educational institutions, DataWind announced the next iteration that will have a new microprocessor of 700 MHz versus the original 366 MHz processor. This will improve the speed of the tablet and solve the existing problems of quick overheating, frequent system freeze, poor sound quality, absence of support for all formats and the inability to install free online software. The amount of memory, storage, and USB ports will remain the same.

On 16 December 2011, DataWind opened Aakash ordering online in their official website at ₹ 2500 with one week delivery time and cash on delivery facility and its upgraded version Ubislate 7+ is available for pre-order at ₹ 2999. On 19 December 2011, DataWind reported that the first phase of Aakash tablet had been sold out completely, just three days since it was opened for Online order. UbiSlate 7+ production capacity of January, February and March has already been sold. Now, April production is open for pre-Booking.[17] By 3 January 2012 1.4 million orders had been received since the UbiSlate 7+ was put up for sale online. By the end of January 2012 pre-orders for UbiSlate 7+ have crossed two million. By 13 April 2012, Datawind severed connection with its supplier Quad, further delaying the assembly of UbiSlate 7+. While Quad claims DataWind hasn't paid it, the Canadian company alleges that its former partner infringed its intellectual property rights by trying to sell directly to the Indian Institute of Technology (IIT) Rajasthan.

In the November 2012 issue of PCQuest (magazine), some letters described Datawind to be a fraud company and the users want to sue the company in consumer court. Wikipedia:Please clarify

Plans

On 26 April 2012 Datawind launched UbiSlate 7+ and Ubislate 7C tablet in physical stores at Delhi. Reliance Industries Limited (RIL) has announced the plan to launch LTE(4G) Tablet between ₹ 3500–5000, with low cost Internet service. This tablet will be an upgraded version of Aakash developed by DataWind. Indian Govt. HRD has revealed that Aakash 2 will be announced in May 2012. Hindustan Computers Limited (HCL), Bharat Heavy Electricals Limited (BHEL), DataWind, Wishtel, and Telmoco Development Labs are Interested in bidding at the Aakash 2 contract auction.

The low cost Akash tablet is under trials in IIT Bombay and is being tested against the new specifications.

Indian government hopes also to produce Aakash for export market. On a visit to Turkmenistan in September 2012, the Indian telecom Minister Kapil Sibal, suggested forming a joint venture company which may manufacture Aakash. In this joint venture, Indian side would design the necessary hardware and software of the tablet fulfilling the Turkmen side needs. Besides supplying the low-cost tablets, the joint venture company could market the product to other international markets.

According to allegations made in the Hindustan Times, the Tuli brothers "may have" procured these devices off-the-shelf from manufacturers in China and sold them to the Indian government at the purchase price.[] Suneet Singh Tuli, CEO of DataWind however insisted that only the manufacture of the motherboards were subcontracted to Chinese manufacturers, following which the components were placed in DIY kits which DataWind assembled and

sold to the Indian government HRD.[18] Chinese manufacturers allege that they sold "ready-to-use" tablets to Datawind, and that they manufactured the touch screens as well. Tuli, however, insists that the touch screens were manufactured by DataWind in Canada.

Competition

Other low cost tablets compete against Datawind's UbiSlate 7 series tablets.

Specifications	Me Tablet U1	Smart Tab 1	Funbook	3G Tab V9A	Galaxy Tab 2(310)	Wammy 7
Company	HCL	Karbonn Mobiles	Micromax Mobile	Reliance	Samsung India	Wicked Leak
Price	₹ 7,999	₹ 6,990	₹ 6,499	₹ 14,499	₹ 15,999	₹ 5,249
Operating system	Android 4.0 ICS	Android 4.0 ICS	Android 4.0 ICS	Android 2.3 Gingerbread	Android 4.0 ICS	Android 4.0 ICS
Central processor unit speed	Cortex A8, 1.2 GHz	Cortex A8, 1.2 GHz	Cortex A8, 1.2 GHz with Dual Mali-2D/3D Graphics Processor	1.4 GHz	1.0 GHz(Dual core)	Cortex A8, 1.2 GHz with Dual Mali-2D/3D Graphics Processor
Random-access memory	512 MB	512 MB	512 MB	512 MB	1 GB	512 MB
Internal storage/external storage	4GB/expandable up to 32 GB	4GB/expandable up to 32 GB	4GB NAND/expandable up to 32 GB	4GB/expandable up to 32 GB	16GB/expandable up to 32 GB	4GB/expandable up to 32 GB
Screen	7" Display capacitive touch screen	7" Display Capacitive 5 Point Multi Touch Screen	7" Display Multi touch capacitive screen with pinch zoom(16:9 display ratio)	7" Display Capacitive 5 Point Multi Touch Screen	7" Display capacitive touch screen	7" Display Multi touch capacitive screen with pinch zoom(16:9 display ratio)
Pixel resolution	800x480 Pixel density	800x480 Pixel density	800x480 Pixel density	1024*600Pixel density	1024*600Pixel density	800x480 Pixel density
Battery	3600 mAh	3700 mAh	2800 mAh	3400 mAh	4000 mAh	3000 mAh
Network	Wi-Fi + 3G dongle support via USB	Wi-Fi + 3G dongle support via USB	Wi-Fi + 3G dongle support via USB	Wi-Fi + 3G	Wi-Fi + 3G	Wi-Fi + 3G dongle support via USB
Phone Call	No	No	No	Yes + video calling	Yes + video calling	No
Camera	0.3 MP Front Camera	2 Mega Pixel Front Camera	VGA Front Camera	Dual camera (0.3 MP front,3.0 MP Rear)	Dual camera (VGA front,3.0 MP Rear)	0.3 MP Front Camera
User Interface	G-sensor	3D G-Sensor	G-sensor and accelerator sensor	G-sensor	G-sensor	G-sensor and accelerator sensor
App Store	ME App Store	No info	Google play Store	Google play Store + reliance world	Google play Store + Samsung APP store	Google play Store
Other features	1- HDMI(out) port, 1- Full USB port, 1- Mini USB port, 3.5mm audio jack	1- HDMI port(out), 1- Full USB port, 3.5mm audio jack	1- HDMI port(out), 1- Mini USB port, 3.5mm audio jack	1- HDMI port(out), 1- Mini USB port, 3.5mm audio jack, FM Radio, GPS Receiver,Compass, Blue Tooth 2.1	1- HDMI port(out), 1- Mini USB port, 3.5mm audio jack, A-GPS, Accelerometer, Digital compass, Light Proximity, Blue Tooth 3.0	1- HDMI port(out), 1- Full USB port, 3.5mm audio jack, SD Card Slot

Launch Date	July 2012	July 2012	July 2012	July 2012	July 2012	July 2012
Made – country	No info	Made in India	Made in India	No info	No info	China

References

[1]   http://www.akashtablet.com

[2]   Android Tablet| Smartphone Tablet Pc With SIM Slot Price In India (http://ubislate.com/ubislate/index.html). Ubislate.com (2012-09-20). Retrieved on 2013-12-09.

[3]   http://www.ubislate.com

[4]   India to unveil the £7 laptop (http://www.guardian.co.uk/world/2009/feb/02/india-computer-cheapest), *The Guardian*, 2 February 2009

[5]   Aakash Tablet Hands On – Full Review (http://www.mashgeek.com/aakash-tablet-review/1000/), *MashGeek*, 18 May 2012

[6]   PIB Press Release (http://pib.nic.in/release/release.asp?relid=63417) PIB Retrieved 26 July 2010

[7]   NDTV Gadget Guru (http://www.ndtv.com/news/videos/video_player.php?id=157534) Gadget Guru exclusive: ,5 laptop is here. Retrieved 13 August 2010

[8]   UbiSlate device specifications (http://ubislate.com/device-specification/index.html) ubislate.com, Retrieved on 1 March 2013.

[9]   Aakash lurches toward another crisis as India loses patience with DataWind (http://www.engadget.com/2012/02/22/aakash-stalls/) Engadget, Retrieved on 1 March 2013.

[10]   Datawind to clear all paid orders for Aakash in 6 weeks (http://www.thehindubusinessline.com/industry-and-economy/info-tech/datawind-to-clear-all-paid-orders-for-aakash-in-6-weeks/article4108396.ece) The Hindu Business Line, Retrieved on 1 March 2013.

[11]   2 GB internal flash memory in the specification could be the ROM.

[12]   http://www.gradestack.com/

[13]   Guardin-India untiels cheapest laptop (http://www.guardian.co.uk/world/2010/jul/23/india-unveils-cheapest-laptop) Retrieved 25 July 2010

[14]   Harsimran Julka & Gulveen Aulakh, "Tender for $35 laptop project cancelled" (http://economictimes.indiatimes.com/tech/hardware/tender-for-35-laptop-project-cancelled/articleshow/7316466.cms), *The Economic Times*, 18 January 2011. News clipping by Pragadeesh Sekar on public interest

[15]   http://www.sakshat.ac.in/

[16]   The cheapest mobile handset doesn't compromise on the basics: calls, SMS, battery life. Nor does the Tata Nano. The Aakash does

[17]   Ubislate official website. Retrieved 31 December 2011.

[18]   Govt paid for specs, not Chinese parts in Aakash 2: Datawind (http://www.firstpost.com/tech/govt-paid-for-specs-not-chinese-parts-in-aakash-2-datawind-536625.html). Firstpost. Retrieved on 2013-12-09.

External links

- Official website (http://www.ubislate.com/)
- Official discussion forum (http://lcadforum.sakshat.ac.in/)
- Virtual Labs (http://vlabs.co.in/) (part of the Aakash project)
- Official website: DataWind (http://www.datawind.com/)
- Aakash tablet News (http://akashtablet.in/)
- Ubislate 7+ review (http://www.thesharma.com/)

Article Sources and Contributors

Aakash (tablet) *Source*: http://en.wikipedia.org/w/index.php?oldid=603899347 *Contributors*: 06baraxs, 1exec1, 220 of Borg, 7ishantg, 842U, AakashTablet, Aberdeen01, Abharadwaj95, Abhijeetjha0, Abhis2.0, Abhishek.1722012, Abhishikt, Adi2001me, Adinasa, Akshatrathi294, Alan Liefting, Alex E. Clarke, Alexf, Amigosujo, Amr.rs, Anaxial, Andrei S, AndrewHowse, Andrewthomas310, Ani.csekaran, Aravind.iitr, Arjayay, Arnavchaudhary, Arun K Sivanandan, Arunib, Asav, AshLin, Asingh74, Beao, Ben Ben, Bobbystephen, Brianski, BrightStarSky, Callanecc, Card Zero, Cb6, Clovis Sangrail, Coercorash, Commons sibi, CommonsDelinker, Compfreak7, Composemi, Cosmology1989, Crampal, Crazybandyo, DBigXray, Deadlydungeons9, Deeuubee, Derekkopke, Dewritech, Dialectric, Diego Moya, Dileepgjacob, Dinakarr, Dishcmds, Dolescum, Download, Dsvyas, EoGuy, Error, Eugene-elgato, Evano1van, Fanatix, Fayenatic london, Fconaway, Frap, Frietjes, Funandtrvl, Fxd25, Gaius Cornelius, Gareth Griffith-Jones, Gdandona, Geniac, Gfoley4, Ghostinthebox, Grafen, Grundle2600, Guffydrawers, Gunrajsm, Guy Macon, H2hhelp, Handyunits, Haseo9999, Hethrir, Hu12, I dream of horses, Iketsi, Infinite dreams9586, Jac16888, Jedduff, Jerryobject, Jim1138, Jitumit, Johnxxx9, K7.india, Karthikndr, Khazar2, Kkm010, Kshitijagrwl, Kuru, Lavainternational, Learnomlette, LeeColleton, Lightmouse, Lucian303, MSoderling, Mahjongg, MarQ, Mark Schierbecker, Mastertushar, Materialscientist, McGeddon, Meco, Meetsangvikar, Mike Rosoft, Modernrectifier, Nafhan, Nareshguptaks, Ne0Freedom, Neo-Jay, Neufeind, Nirala nagar, Nitish.game, Ohconfucius, Pacey2007, Parshant dewan, PatheticCopyEditor, Paul A, Pgmail, Pol098, Prajapatimishra, Prannoymathew7, Prashantsultania, Prd.ban, Psubhashish, Pteek, Racklever, Rahuln1988, Rahulpattuvam, Rajendra bn, RaviC, Rawsun, Rcsprinter123, Rinkle gorge, RobertMfromLI, Robofish, Roland zh, Rsrikanth05, RudolfRed, SDC, SF007, Sagarsavla, Sainath468, Sairameshpsr, Sbmeirow, Shrish, Skvnet, Sprajapati123, Sun Creator, Swift&silent, Taxman, Techman224, TexMurphy, Tgeairn, Thegr8.karthik, Tom Worthington, Tri400, Trunks ishida, Trusilver, TutterMouse, TyA, Tyson567, Uhai, Utcursch, Veryhuman, Vibhor5000, Vincentvikram, Vipinhari, Vipul19, Virtualage, Volatileacid, Wayfarerz, WikHead, Wikieditorin, Wikiklrsc, Wtanaka, Wuffyz, Y.dani, Zach Vega, 541 anonymous edits

Image Sources, Licenses and Contributors

File:Askaash Ubislate tablet.jpeg *Source*: http://en.wikipedia.org/w/index.php?title=File:Askaash_Ubislate_tablet.jpeg *License*: Creative Commons Attribution-Sharealike 3.0 *Contributors*: User:psubhashish

File:Indian Rupee symbol.svg *Source*: http://en.wikipedia.org/w/index.php?title=File:Indian_Rupee_symbol.svg *License*: Public Domain *Contributors*: Orionist

License