



WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED

Office of the Chief Engineer (Procurement & Contracts)

Vidyut Bhavan (4th Floor), Bidhannagar, Block-DJ : Sector-II : Kolkata-700 091

Phone No. 033-2359-8397 : Fax No. 033-2359-1921

TECHNICAL SPECIFICATION OF LAPTOP & MOXA Converter

<b>Laptop</b>	
Processor	Intel 2 <sup>nd</sup> generation core i5 2430 (2.4 GHZ, 3MB cache, 5 GT/s)
Chipset & Mother Board	Intel 6 series or higher Chipset on OEM Mother Board.
Memory	4 GB DDR3 RAM expandable upto 8 GB.
HDD	500 GB 5400 rpm(min.) SATA
Display Unit	14"(35.6 cm) or above TFT active Matrix Wide Screen Display.
Resolution	1280 x 768 WXGA or higher
Video Controller	Integrated Intel HD Graphics
Wireless Connectivity	Integrated wireless Intel 802.11 b/g/n, Integrated blue tooth
DVD Writer	Integrated DVD Writer 8X and Integrated stereo speaker
Key Board	Key Board with touch Pad
Ports required for communication purpose	<b>RS - 232 Port (9 pin), RS - 485 Port (9 pin), RJ- 45 Port (8 Pin), RJ – 11 Port (6 Pin), USB Port – 4 Nos.</b> <b>Serial to USB Converter of reputed make like MOXA for both the serial port RS - 232 and RS - 485.</b>
Expansion Port	10/100/1000 Ethernet card, RGB or S- Video or VGA/HDMI, <b>PCMCIA/PCI Express slot</b> , 3 in one card reader, Microphone, stereo headphone & other standard features.
Operating System	Windows –7
Anti-Virus Software	Norton/Macafee/e-trust Anti-Virus software (latest version). License of the Anti-Virus software should be valid for three years from the date of installation of Anti-Virus software. Access for latest patch should be given for updating Anti Virus software from internet.
Power Supply	230 V, 50 Hz AC supply with rechargeable Battery pack comprising of LI-ION battery suitable for approx. 6 hours operation complete.
Security	<b>Configuration Control Hardware, Memory change alert, Ownership tag</b> , Set up password, Power on password, Drive lock and Security lock slot
Warranty	Three years comprehensive onsite warrantee from the date of installation in terms of parts, manpower.
MS Office Software	MS Office (standard) version. License should be per user basis. The license No. should be the same as the No. of laptop.
Weight	Less than 2.5 Kg.
Accessories	Power supply connector with connecting cord. Leather Carry bag

<b>MOXA Converter for RS - 232 &amp; RS - 485</b>	
Compliance	Compatible with USB 2.0
Serial Standard	<b>UPort 1110</b> – One port RS – 232 USB to Serial Converter; <b>UPort 1130/1150</b> - One port RS – 485 USB to Serial Converter; <b>UPort 1130I/1150I</b> - One port RS-485 USB to Serial Converter with 2 KV optical isolation;
Connector	DB9 male
Serial Signals	<b>RS- 232:</b> TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND <b>RS – 485 – 4W:</b> TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
Operating System	Windows 7
Warranty	5 years
Mini DB9F to TB Adaptor	DB9 female to terminal block adaptor for RS 485 application.
Power Consumption	<b>UPort 1130</b> : 60 mA @5VDC <b>UPort 1130I</b> : 65 mA @5VDC <b>UPort 1150</b> : 77 mA @5VDC