



KZN DEPARTMENT OF EDUCATION

SPECIFICATIONS FOR LABOUR SAVING DEVICES



KZN DEPARTMENT OF EDUCATION

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SPECIFICATION FOR PERSONAL COMPUTERS

ANNEXURE A





ANNEXURE A

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SPECIFICATION FOR DESKTOP COMPUTERS

1. **Product Model** : PC 3
2. **Basic Configuration** :- Intel Pentium 4 Core 2 Duo 2.66GHz or greater
 - 1GB RAM
 - DVD+ RW drive
 - 120 GB Hard Disk Drive
 - 17 inch LCD Monitor
 - Windows XP Professional
 - 10 /100 /1000 /MB PCI Network interface card
 - SecureLock Kit with cables
3. **Microsoft Office 2003** - to be supplied as per agreement with Microsoft for s
4. **3 Year on site next business day warranty**
5. **The Provincial Logo must be hard coded and the departmental background must be loaded as standard.**
6. **Equipment Specification is as per RFT 285/1 Catalogue (Version 2005/01/21b)**
7. **PC must be downgraded from Vista to Windows XP Professional**



ANNEXURE A1

KZN DEPARTMENT OF EDUCATION

SPECIFICATION FOR SPECIAL PERSONAL COMPUTERS

1. **Product Model** : PC 3
2. **Basic Configuration** : Intel Pentium 4 Core 2 Duo 2.66GHz or greater
 - 1GB RAM
 - DVD + RW drive
 - 100 GB SATA Hard Drive
 - 17 inch LCD Monitor
 - Windows XP Professional
 - 10 /100 /1000 /MB PCI Network interface card
 - SecureLock Kit with cables
3. **Alternative Keyboard** : Multi-Colour Keys and each key must be 25mm² in size
4. **Optical Mouse**
5. **Microsoft Office 2003** - to be supplied as per agreement with Microsoft for schools
6. **3 Year on site next business day warranty**
7. **The Provincial Logo must be hard coded and the departmental background must be loaded as standard.**
8. **PC must be downgraded from Vista to Windows XP Professional**
9. **Y-Power Cable for PC and Monitor must be included**



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SPECIFICATION FOR LAPTOP COMPUTERS

ANNEXURE B





ANNEXURE B

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR LAPTOP COMPUTERS

1. **Basic Configuration**
 - Intel Core 2 Duo 2.33GHz
 - Minimum 1GB RAM
 - 100 GB Hard Disk Drive, 7200RPM
 - 56 x IDE DVD-ROM
 - 15" Monitor
 - Windows XP Professional
 - Wireless
 - Carry Case
 - K-Lock
2. **Microsoft Office 2003** - to be supplied as per agreement with Microsoft for schools
3. **3 Year on site next business day warranty**
4. **The Provincial Logo must be hard coded and the departmental background must be loaded as standard.**
5. **Equipment Specification is as per RFT 285/1 Catalogue (Version 2005/01/21b)**
6. **Laptop must be downgraded from Vista to Windows XP Professional**



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SPECIFICATION FOR PRINTERS

ANNEXURE C





ANNEXURE C1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR NETWORK PRINTERS

1. **Product Model** : Laserjet
2. **Basic Configuration** :- USB- 2 ports
- Duplex,
 - PDL
 - 33 PPM
 - Memory expandable to 288mb
 - Embedded NIC
 - Standard 250 sheet input tray
 - 50 sheet multi purpose tray
 - media handling: up to 163g/m² on the 50 sheet paper tray and 105 g/m² on the 250 sheet paper tray)
 - up to 12 users
 - USB cable must be included



ANNEXURE C2

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR NETWORK PRINTERS

- | | |
|-------------------------------|---|
| 1. Product Model | : InkJet |
| 2. Basic Configuration | :- 36ppm <ul style="list-style-type: none">- USB Port- 32MB RAM- Auto Duplex Unit- PCL6- 600 sheet input- NIC- UP TO 12 USERS- USB cable must be included |



ANNEXURE C5

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR COLOUR PRINTERS

- 1. Product Model** :Colour LaserJet
- 2. Basic Configuration** :
- up to 30ppm
 - 30ppm black and white
 - 256Mb RAM
 - 600x600 Dpi with Imageret 3600
 - Duplex Unit
 - 1x 500 sheet tray
 - USB Port
 - embedded Jet Direct
 - 1 year on-site warranty
 - USB cable must be included



ANNEXURE C6

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR COLOUR PRINTERS

- 1. Product Model** : Colour InkJet
- 2. Basic Configuration** :- ImageRet 3600
- 28 ppm A4
 - 14 ppm A3
 - 160MB RAM
 - 1 x 500 sheet input trays,
 - Parallel and USB interfaces,
 - 620N 10/100 NIC,
 - Duplex Unit
 - USB Cable must be included



ANNEXURE C9

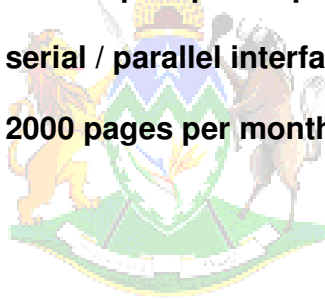
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SPECIFICATION FOR STAND-ALONE PRINTERS

- 1. Product Model** : Epson LX 300 Dot Matrix Printer

- 2. Basic Configuration** :- 264 cps
 - 1 + 2 copies push / pull tractor feeder
 - serial / parallel interface
 - 2000 pages per month

- 3. 1 year carry-in warranty**





ANNEXURE C10

**KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR RISO PRINTERS**





ANNEXURE C10

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SPECIFICATION FOR PORTABLE PRINTERS





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SPECIFICATION FOR PHOTOCOPIERS

ANNEXURE D





ANNEXURE D1

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – LOW VOLUME

- **Average volume – 4000 copies per month**
- **Peak volume 10 000 copies per month**
- **A4/A3 size for size copying**
- **16 copies per minute**
- **250 sheets per tray**
- **reduction and enlargement**



ANNEXURE D2

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – LOW VOLUME

- **Average volume – 5000 copies per month**
- **Peak volume 10 000 copies per month**
- **A4/A3 size for size copying**
- **16 copies per minute**
- **250 sheets per tray**
- **reduction and enlargement**



ANNEXURE D3

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – MEDIUM VOLUME


- 
- **Average volume – 12 000 copies per month**
 - **Peak volume – 25 000 per copies month**
 - **A3 & A4**
 - **Automatic Document Feeder**
 - **28 copies per minute**
 - **reduction and enlargement**



ANNEXURE D4

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – MEDIUM VOLUME

- 
- **maximum reproduction capacity of 15 000 CPM**
 - **A4 size for size copying**
 - **A3 size for size copying**
 - **21 copies per minute**
 - **automatic paper selection**
 - **cover mode**
 - **automatic magnification**
 - **automatic duplexing**



ANNEXURE D5

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SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – MEDIUM VOLUME


- **maximum reproduction capacity of 40 000 CPM**
- **A4 size for size copying**
- **A3 size for size copying**
- **21 copies per minute**
- **automatic paper selection**
- **cover mode**
- **automatic magnification**
- **automatic duplexing**



ANNEXURE D6

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – HIGH VOLUME


- 
- **Maximum reproduction capacity of 100 000 CPM**
 - **A4/A3 size for size copying**
 - **21 copies per minute**
 - **automatic paper selection**
 - **cover mode**
 - **automatic magnification**
 - **automatic duplexing**
 - **finisher with stapling facility**
 - **20 bin sorter**



ANNEXURE D7

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – HIGH VOLUME

- 
- **maximum reproduction capacity of 150 000 CP**
 - **Variable speed control 80-120 CPM**
 - **Duplicating speed of at least 120 CMP**
 - **Maximum original size – A4**
 - **Automatic master loading – 10 bin sorter**



ANNEXURE D8

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SPECIFICATION FOR PHOTOCOPIERS

PHOTOCOPIER – HIGH VOLUME

- 
- 100 000 – 250 000 monthly reproduction capacity
 - Variable Speed Control
 - 80 – 120 CPM
 - Maximum original size A4
 - Automatic master loading
 - Accepts various types of paper from 50 – 157 gsm
 - 20 page automatic document feeder
 - feeding and receiving capacity ±800 sheets – 80 gsm
 - removable drum



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SPECIFICATION FOR MULTI-FUNCTIONAL DEVICES

ANNEXURE E





ANNEXURE E1

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SPECIFICATION FOR MULTI-FUNCTIONAL DEVICES

MULTI-FUNCTIONAL FACSIMILE MACHINE

- Fax, print, scan and copy
- Automatic document feeder
- Full dual access
- Sequential broadcasting (up to 80 – 100 locations)
- 600 D.P.I. Resolution
- Speed Dialling
- 15 page memory
- 6 pages per minute transmission
- One hour memory retention
- Transmission report



ANNEXURE E2

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SPECIFICATION FOR MULTI-FUNCTIONAL DEVICES

MULTI-FUNCTIONAL PHOTOCOPIER MACHINE (COLOUR)

- 40 000 Copies per month
- Sorting
- A4 and A3 size for size copying
- Print back to back
- On line stapling
- Faxing
- Scanning
- Zoom reduction/enlargements
- Auto document feeder
- Auto duplexing
- Networking
- Separate output trays for copies and faxes
- Pin code access facility for copying and printing with print out





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SPECIFICATION FOR FACSIMILE MACHINES

ANNEXURE F





ANNEXURE F1

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SPECIFICATION FOR FACSIMILE MACHINES

- **Automatic document feeder**
- **Full dual access**
- **Sequential broadcasting (up to 80 locations)**
- **600 D.P.I. Resolution**
- **Speed Dialling**
- **15 page memory**
- **6 pages per minute transmission**
- **One hour memory retention**
- **Transmission repo**





ANNEXURE F2

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR FACSIMILE MACHINES

- 10 pages automatic document feeder
- full dual access
- sequential broadcasting (up to 80 locations)
- 400 D.P.I. Resolution
- Speed Dialling
- 15 page memory
- 6 pages per minute transmission
- one hour memory retention
- transmission report





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SPECIFICATION FOR PROJECTORS

ANNEXURE G





ANNEXURE G1

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SPECIFICATION FOR PROJECTORS

OVERHEAD PROJECTOR AND SCREEN (PORTABLE)

- 400 watt projector
- triple element lens
- twin bulb
- switchable light intensity
- colour fringe eliminator
- condenser lens
- low noise
- tripod screen
- carry case





ANNEXURE G2

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SPECIFICATION FOR PROJECTORS

DATA VIDEO PROJECTOR

- **1250 ANSI Lumens of brightness**
- **XGA (1024 x 768) resolution**
- **Compact, light weight design (mass 4kg)**
- **Carry case on wheels**
- **4 input channels for computer and video**
- **Projection distance 1,2m to 11m**
- **Universal power supply**
- **Compatible to laptop computer**





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SPECIFICATION FOR TELEVIDEO EQUIPMENT

ANNEXURE H





ANNEXURE H1

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SPECIFICATION FOR TELEVIDEO EQUIPMENT

TELEVIDEO

- **51cm Colour TV**
- **Built-in VCR**
- **VHS Index Search System**
- **Digital Auto Tracking**
- **One Touch Record**





ANNEXURE H2

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SPECIFICATION FOR TELEVIDEO EQUIPMENT

DIGITAL VIDEO CAMERA & RECORDER

- **Colour LCD**
- **Side Screen**
- **O-Lux Night Shot**
- **20 x Optical Zoom**
- **80 x Digital Zoom**
- **Date & Timer**
- **Lithium Battery**
- **Manual & Auto Focus**
- **Program AE**
- **Multi Language Titler**





ANNEXURE H3

KZN DEPARTMENT OF EDUCATION

SPECIFICATION FOR TELEVIDEO EQUIPMENT

VIDEO CAMERA

- **Colour LCD**
- **Side Screen**
- **O-Lux Night Shot**
- **20 x Optical Zoom**
- **Date & Timer**
- **Lithium Battery**
- **Manual & Auto Focus**
- **Program AE**
- **Multi Language Titler**





ANNEXURE H4

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR TELEVIDEO EQUIPMENT

DIGITAL RECORDING SYSTEM

- 1 X Marantz PMD660 digital recorder with 1GB sound card
- USB download cable
- MP3 Recording format
- 36 hours of Stereo Recording with line input
- Mic Input
- Phantom Power and Main Power Supply
- 1 x Samson Omni-directional microphones
- 1 x Briefcase with foam compartments





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SPECIFICATION FOR CAMERAS

ANNEXURE I





ANNEXURE I1

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SPECIFICATION FOR CAMERAS

DIGITAL CAMERA

- **Lithium Battery**
- **32 Mega Card**
- **6 x optical zoom**
- **Manual operation with focus ring**
- **Photo mode recording**
- **Clear frame technology**





ANNEXURE I2

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SPECIFICATION FOR CAMERAS

STILL CAMERA

- 38mm/80mm Camera
- Automatic 200m lens 38mm/80mm Camera
- Automatic 200m lens
- Self time
- Red eye reduction
- Built-in auto flash
- Infra red auto focus
- Weather proof
- Pouch included





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SPECIFICATION FOR SHREDDERS

ANNEXURE J





ANNEXURE J1

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SPECIFICATION FOR SHREDDERS

PAPER SHREDDING MACHINE

1. Insertion Width : 220mm
2. Cut Sizes : 4mm straight cut (S)
3 x 25mm cross cut (C)
3. Sheet Capacity : 6-8 A4 sheets 70 GSM (S)
4-5 A4 sheets 70 GSM (C)
4. Paper feeds speed : 0.6m per second
5. Motor capacity : 80 watts (S) 150 watts (C)
6. Bag capacity : 20 Litres



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SPECIFICATION FOR STENCILS

ANNEXURE K





ANNEXURE K1

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SPECIFICATION FOR STENCILS

DUPLICATOR (MANUAL) STENCIL

Model : Gestetner 145





ANNEXURE K2

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SPECIFICATION FOR STENCILS

DUPLICATOR (MANUAL/ELECTRIC) STENCIL

Model : Gestetner 320





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SPECIFICATION FOR TYPEWRITERS

ANNEXURE L





ANNEXURE L1

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SPECIFICATION FOR TYPEWRITERS

TYPEWRITER (MANUAL) - STANDARD

- **35 carriage length**
- **Half step correction key**
- **Bold print facility**
- **Pica typestyle**
- **46 Character keys**
- **Four track ribbon selection**
- **Erasure table**





ANNEXURE L2

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR TYPEWRITERS

TYPEWRITER (ELECTRONIC)



- **16 Character per second**
- **381mm (15") paper capacity**
- **297,18mm (11,7") typing capacity**
- **Original + 4 copy capacity**
- **Keyboard 46 character capability**
- **1 line correction memory**
- **paper supporter**
- **dust cover**



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SPECIFICATION FOR SCANNERS

ANNEXURE M





ANNEXURE M1

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SPECIFICATION FOR HAND-HELD SCANNERS

HAND-HELD SCANNERS





ANNEXURE M2

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SPECIFICATION FOR TABLE-TOP SCANNERS

TABLE-TOP SCANNERS





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SPECIFICATION FOR MODEMS

ANNEXURE N





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SPECIFICATION FOR 3G CARDS

ANNEXURE O





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SPECIFICATION FOR SOUND SYSTEMS
ANNEXURE P





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SPECIFICATION FOR TELEPHONE SYSTEMS
ANNEXURE Q





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SPECIFICATION FOR SERVERS

ANNEXURE R





ANNEXURE R1

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SPECIFICATION FOR HIGH-END SERVERS





ANNEXURE R2

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SPECIFICATION FOR LOW-END SERVERS





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SPECIFICATION FOR SGM PACKAGES
ANNEXURE S





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SPECIFICATION FOR 3G CARDS

ANNEXURE T





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SPECIFICATION FOR MEMORY STICKS
ANNEXURE U





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SPECIFICATION FOR ROUTERS

ANNEXURE V





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SPECIFICATION FOR MODEMS

ANNEXURE W





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SPECIFICATION FOR INFRA-RED EQUIPMENT
ANNEXURE X





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SPECIFICATION FOR DVD-WRITERS
ANNEXURE Y





ANNEXURE Z1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR FM SYSTEMS

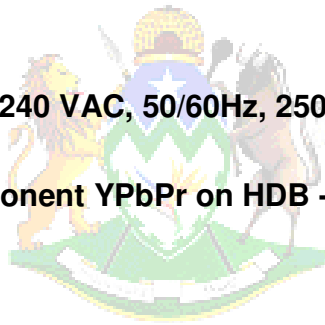
1. **Product Model** : EasyLink
2. **Basic Configuration** : 15 Hearing Aids / Receiver
 - Oticon 20 Amigo
 - Transmitters
 - Amigo R7 Receiver
 - FM C1 Adapter
 - FM Shoes
3. **Free-Field amplified for learners with hearing loss**
4. **FM System with batteries and FM Shoes**



ANNEXURE AA1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR VIDEO MACHINES

1. Description : Standard VCR
2. Utilises VHS Tapes
3. Physical Power : 100 – 240 VAC, 50/60Hz, 250 Watts Max
4. Output : Component YPbPr on HDB -15





ANNEXURE BB1

**KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR TELEVISIONS**

1. 74CM LCD TV (Colour)
2. Built-In Speakers
3. Response Time (12ms or less)
4. S-Video Input
5. 480p Resolution





ANNEXURE CC1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR DVD PLAYERS

1. Standard DVD
2. Dimensions – 43 x 29 x 4
3. Compatible Discs – DVD+R / +RW, DVD-R/ -RW
4. Digital Output – Coaxial
5. HDMI Output





ANNEXURE DD1

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR DIGITAL PROJECTORS

- 1. Lumens** : - 2 400 lumens
- 2. Inputs** : - USB Connectivity
- Auto- Signal Detection
- Digital-Video
- 3. Resolution** : SVGA (800 x 600)
- 4. Portability** : 3 – 5 kilograms



ANNEXURE EE1

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR TAPE RECORDERS

- 1. Clear Voice Recording System**
- 2. 2-Speed Record/ Playback**
- 3. Cue and Review with Slide Control**
- 4. 30 Hour Battery Life**
- 5. DC-In Jack**
- 6. Earphone Jack**
- 7. LED Battery Level Indicator**
- 8. FM Radio & Cassette Combo**





ANNEXURE FF1

**KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR PA SYSTEMS**

- 1. 2 x Free- Standing Speakers**
- 2. Cordless Microphones**
- 3. 4 x Wall-Mountable Speakers**
- 4. 4 input channels**
- 5. Sufficient output channels to cater for speakers with 2 additional channels**





ANNEXURE GG1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR DIGITAL CAMERAS

1. Basic Configuration : 3 x Optical Zoom

LCD - Playback of at least 6 images

Optical Image Stabilizer Technology

2 Mega pixels

1 gig SD Card



ANNEXURE HH1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR PORTABLE FM RADIOS

1. Product : AM/ FM Radio
2. Sound Output Mode : Stereo
3. Output Power/ Total : 5.6 Watt
4. Speakers : Built-in 2.8 Watt – 4 Ohm
5. Tuner Frequency : FM: 87.5 – 108MHz, AM: 530 – 1710 kHz
6. Antenna Form Factor : Loop AM / wire FM



ANNEXURE II1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR EARPHONES

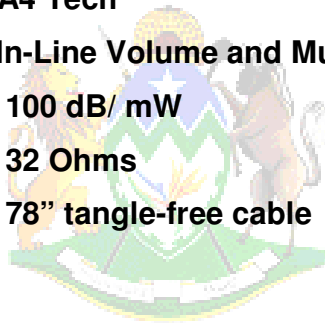
1. **Basic Configuration** : **Amplified**
 - Oticon Sumo DM Hearing Aids
2. **Driver** : **High-Performance Dynamic Microdriver**
3. **Noise isolation** : **16dB**
4. **Input Sensitivity** : **104dB! mW**
5. **Impedance** : **16 Ohms**
6. **Cable** : **Long 46" (1.2m) tangle-free cable**
7. **Features** : **Silicone Tips- Rest comfortably in-ear**
Full Spectrum Sound



ANNEXURE JJ1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR HEADPHONES

- | | |
|------------------------|--|
| 1. Model | : HSSP |
| 2. Basic Configuration | : A4 Tech
In-Line Volume and Mute Control |
| 3. Input Sensitivity | : 100 dB/ mW |
| 4. Impedance | : 32 Ohms |
| 5. Cable | : 78" tangle-free cable |





ANNEXURE KK1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR ALTERNATIVE KEYBOARDS

1. Product : BIG Keys LX
2. Familiar QWERTY alpha key layout
3. Key order must be able to be switched (ABC or QWERTY)
4. Easy to read key labels i.e. large black printing on bright white or multi-colour keys
5. 97 character key set
6. Compatible with all major software packages
7. To accommodate one-handed operation
8. Must provide Assist Mode
9. Each key must be 25mm² in size



ANNEXURE LL1

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SPECIFICATION FOR MINI HI-FIs

- | | |
|---------------------------|---|
| 1. Audio System | : Surround Sound |
| 2. Output Power/ Total | : 880W |
| 3. Built-In Display | : LCD |
| 4. Connectors | : Headphone Jack |
| 5. Speakers | : 2 x Right/Left channel speakers |
| 6. Radio | : Tuner AM/FM |
| 7. Tuner Frequency Range | : FM: 87.5 – 108 MHz, AM: 530 – 1710kHz |
| 8. CD Player capabilities | |



ANNEXURE MM1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR CD PLAYERS

1. CD-R/RW Playback
2. Input(s) : DC-In 4.5V
3. Output : Headphone (stereo mini jack)
4. Output Power : 5 mW + 5 mW (@16 ohms)
5. Digital-to-Analog : 1 Bit Quartz Time-Axis Control
6. Frequency Response : 20-20000Hz, 1/-2dB
7. Power Requirements : DC 1.5V x 2 ("AA" x 2 Batteries)
8. Station Preset(s) : 30 (10 AM, 20 FM)



ANNEXURE NN1

KZN DEPARTMENT OF EDUCATION SPECIFICATION FOR TECH SPEAKERS

1. 8 messages of up to 4 seconds each
2. Square picture size of 70mmm
3. Choose black grid with grey base
4. 'Real-Voice' high quality audio
5. External speaker and record jacks
6. Optional rechargeable battery available





ANNEXURE OO1

KZN DEPARTMENT OF EDUCATION
SPECIFICATION FOR MOUSE

1. Standard Optical Mouse

