

AMBEDKAR UNIVERSITY DELHI

TENDER DOCUMENT FOR SUPPLY & INSTALLATION OF IT EQUIPMENTS AT AMBEDKAR UNIVERSITY DELHI

1. Appendix A : Terms & conditions
2. Appendix B : Schedule of requirement
3. Appendix C : qualifying bid document
4. Appendix D : Price bid
5. Appendix E : Undertaking
6. DOC 'A' : Detailed specifications of equipment

To,

Subject: Notice Inviting Tender for Supply & Installation of IT Equipments (Laptop Computer/Desktop Computer/Printer/ Projector /Speaker/ Video & Voice recorder) for Centre for Development Practice at Ambedkar University Delhi.

Sealed quotations are invited from OEM/Authorized supplier/distributors/Channel Partners for Supply & Installation of **IT Equipments (Laptops/Desktops/Printer/Projector/Speaker/Video & Voice recorder) for Centre for Development Practice at Ambedkar University Delhi (AUD)**. The quotation is required to be submitted in a sealed cover to the Registrar, Ambedkar University Delhi, Lothian Road, Kashmere Gate, Delhi-110 006 on or before 22-12-2015 duly superscribing "Tender/Quotation for Supply & Installation of IT Equipments for Centre for Development Practice" on top of the cover as per the details given below:

Name of Work/Activity	Supply and installation of IT Equipments for Centre for Development Practice in AUD, Delhi
Last date, Time and Venue for submission of tender	Latest by 22nd December, 2015 at 03:00 P.M. in the office of the Registrar
Earnest Money Deposit	As indicated against each IT Equipment is to be deposited in the form of crossed demand draft/pay order drawn in favour of "Registrar, Ambedkar University Delhi"
Opening of Technical Bids in presence of the authorized representatives of bidders, if any	22 nd December, 2015 at 03:30 P.M.
Opening of Financial Bids in presence of the authorized representatives of bidders, if any	After evaluation of Technical bid, date of opening of Financial bid will be informed to the technically qualified bidder.

Detailed technical specifications and quantity are mentioned in **DOC 'A'**. Please also refer to attached Appendix-A,B,C,D,E & DOC 'A' for Terms and Conditions and other complete details.

The Bidder can quote for one or more number of IT Equipment and will have to submit EMD separately for each equipment. The quotation should reach the Office of the Registrar, Ambedkar University Delhi Lothian Road, Kashmere Gate, Delhi- 110006 on or before 03:00 P.M. on 22-12-2015. Tenderers should read the tender document carefully as enclosed and comply strictly while sending their tenders.

Tender Format can be downloaded from our website www.aud.ac.in. Clarification, if any, may be sought from AUD Admin Division on telephone number 011-23863655.

Deputy Registrar (Admin)

Copy forwarded for information to:-

1. Registrar, Ambedkar University Delhi
2. Controller of Finance, Ambedkar University Delhi
3. Director, IT Services, Ambedkar University Delhi
4. Director (CDP), Ambedkar University Delhi

Terms & Conditions

1. Parties:

The parties to the Contract are the Tendering Firm and the Ambedkar University Delhi (AUD).

2. Addresses:

For all purposes of the contract including arbitration there under, the address of the firm mentioned in the tender shall be final unless the firm notifies a change of address by a separate letter sent by Speed Post/ Registered Post with acknowledgement due. The firm shall be solely responsible for the consequences of any omission or error to notify change of address in the aforesaid manner.

3. Preparation and Submission of Tender:

- a) A vendor can submit bid for any number of items the item mentioned in Appendix B. This, along with duly filled in Appendix 'C' will be kept in a sealed cover superscribed as "Technical bid of IT Equipments for Centre for Development Practice".
- b) All necessary documents/certificates and EMD should be attached with the Technical bid.
- c) The Price bid should be submitted in the proforma given at Appendix D duly filled in, and will be kept in a sealed cover superscribed as "Price bid of IT Equipments for Centre for Development Practice".
- d) Both these covers should then be kept in a single sealed cover addressed to Registrar, Ambedkar University Delhi, Lothian Road, Kashmere Gate, Delhi-110006, duly superscribed with the statement "Tender bid for Supply & Installation of IT Equipments for CDP at Ambedkar University Delhi".

4. Site Inspection:

Before submitting the offer, bidders should visit office of the CDP, AUD Kashmere Gate campus, where these IT items are to be installed. No extra payment will be made by AUD towards extra material required for installation purpose after submitting the offer.

5. Prices:

A consolidated price should be quoted for the item along with its break up showing different items of charge. The consolidated price quoted shall be firm and final and payable for the goods delivered, installed and commissioned in the office/ Class Room/ Lab indicated in Scope of Work. No payments other than the amount shown as consolidated price shall be made by this university. If any statutory levy is found applicable, the same shall be borne by the tendering firm. The only deviation to the preceding statement could be the levies revised upward or introduced by State or Central Government after the submission of the tender by the bidder, in which case the Bidder shall produce documentary evidence. The price quoted for each item separately shall be the basis of determining L1.

- a) The rates will be valid for a period of one year. AUD reserves the right to procure additional quantity of items, due to changes in requirement, during this period.
- b) At the time of payment of bills, the Income Tax, if any, shall be deducted at source as per Government Rules and guidelines as may be prevailing at the time of payment.
- c) The offer submitted by the vendor should clearly indicate rate of Sales Tax and other government levies, payable extra at the quoted prices.

6. Validity:

The bids shall be valid for a period of 90 (Ninety) days from the date of opening of the tender.

7. Opening of Tender:

The Bids shall be opened at 3:30 PM on 22-12-2015 at the AUD Kashmere Gate Campus. The tenderer is at liberty to attend either himself or authorize not more than one representative to be present at the opening of the tender. The representative attending the opening of the tender on behalf of the tenderer should bring with him a letter of authority from the tenderer and a proof of identification. Those who will qualify in Bid evaluation shall be intimated on phone/ by fax/by e-mail.

8. Criterion for Evaluation of Tenders:

Subject to the fulfillment of the criteria given in the tender and submission of all necessary documents, evaluation of the tenders will be made on the basis of commercial information furnished in the form given at Appendix D. Any inferences drawn by the tenderers or their representatives during the opening of the Bid will be their own view and AUD will not be responsible or required to abide by the same.

9. Communication of Acceptance:

Successful bidder will be informed of the acceptance of his bid by speed post/ fax/on phone/mobile.

10. Inspection, Testing and Quality Control:

- a) The purchaser and/or its nominated representative(s) may inspect and/or test the ordered equipment to confirm their conformity to the contract specifications at no extra cost to the purchaser.
- b) AUD will reject full or any part of the supply, which is not confirming to the specifications and other terms and conditions. No payment shall be made for rejected stores. Rejected items must be removed by the tenderers within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the vendors without any further notice.

11. Spare Parts:

The separate price list of all spares and accessories and consumables (including minor), if any, required for maintenance and repairs in future after guarantee/ warranty period must be attached/ enclosed along with the sealed quotation, failing which quotation will not be considered.

12. Training:

On site training to the staff is to be provided by the Vendor / Indian Agents for operation and maintenance of the equipments, to the satisfaction of the user department.

13. Warranty

- a) The vendor will provide Comprehensive Onsite Warranty including Spare Parts & Labour on the items/ equipment as per manufacturer's policy. It certifies that the supplied & installed equipment supplied under the contract is new, unused and incorporates all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract.
- b) The vendor further warrants that these equipments supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per the Purchaser's/ Consignee's specifications) or workmanship or from any act or omission of the vendor that may develop under normal use of the equipment under the conditions prevailing in India.
- c) In case of any claim arising out of this warranty, the Purchaser/ Consignee shall promptly notify the same in writing to the vendor.

Upon receipt of such notice, the vendor shall, within 48 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective equipment or parts thereof, free of cost, at the ultimate destination. The vendor shall take over the replaced parts/ equipment after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/ equipment thereafter. The penalty for non-replacement will be applicable as per the penalty clause given in the tender.

14. Supply of Equipment:

These equipments will be supplied and installed within one month from the date of issue of the supply order. The firm is required to mention its e-mail address in the qualifying bid document so that a scanned copy of the supply order could be sent for timely intimation.

15. Delay in the Vendor's Performance:

The vendor shall deliver the equipments at Ambedkar University Delhi and perform the services under the contract within the time schedule specified by the Purchaser/ Consignee in the Schedule of Requirements and as incorporated in the contract.

Subject to the provisions of the tender, any unexcused delay by the vendor in maintaining its contractual obligations towards delivery of the equipment and performance of services shall render the vendor liable to any or all of the following sanctions:

- i) Imposition of liquidated damages,
- ii) Forfeiture of its performance security and
- iii) Termination of the contract for default.

16. Penalty:

In the event of the firm failing to:

- (i) Observe or perform any of the conditions of the work order as set out herein; or
- (ii) Execute the order in good condition to the satisfaction of AUD or by the time fixed by AUD.
 - a) In the event of discovery of any error or defect due to the fault of the firm/ vendor at any time after the delivery of goods ordered, the firm/ vendor shall be bound, if called upon to do so, to rectify such error or defect at his own cost to the satisfaction of and within the time fixed by AUD. In the event of the delivery of any defective work, which owing to urgency or for any other reason cannot be wholly rejected AUD shall have the power to deduct from any payment due to the firm such sum as it may deem expedient.
 - b) If the vendor fails to deliver any or all of the equipment or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/ Consignee shall, without prejudice to other rights and remedies available to the Purchaser/ Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.50% per week of delay or part thereof on delayed supply of equipment/ replacement parts and/ or services until actual delivery or performance, subject to a maximum of 5% of the contract price. Once the maximum is reached, the Purchaser/ Consignee may consider termination of the contract.
 - c) In the event of work being wholly rejected, AUD may at its discretion may either:
 - (i) Permit the firm/vendor to re-do the same within such time as it may specify at firm's own cost of all sorts i.e. materials, labour, equipments, overheads, transportation etc;
or
 - (ii) Arrange to get the additional work done elsewhere and by any other person or from any other source than the firm/vendor in which case the amount of extra cost, if any, shall be recovered from the contractor in the manner provided in sub-clause(b) of this clause.

17. Breach of Terms and Conditions:

In case of breach of any of terms and conditions mentioned above, the Competent Authority will have the right to cancel the work order without assigning any reason thereof and nothing will be payable by AUD in that event.

18. Subletting of Work:

The firm shall not assign or sublet the work or any part of it to any other person or party.

19. Right to Call upon Information Regarding Status of work:

AUD has the right to call upon information regarding status of work at any point of time.

20. Tolerance Clause:

AUD reserves the right to place the orders on the successful tenderer for any additional quantity at the same rates quoted by the bidder. At the option of the purchaser, the quantity can also be reduced when felt necessary.

21. Terms of Payment:

- a) Payment shall be made only after the equipment has been supplied & installed by the tenderer at AUD Kashmere Gate campus on specified address.
- b) All payments shall be made through NEFT transfer only after satisfactory supply, installation and commissioning of the said items.
- c) AUD shall be at liberty to withhold any of the payments in full or in part subject to recovery of taxes including TDS as applicable and recovery of penalties mentioned in preceding para.

22. Eligibility Conditions:

- a) The vendor should be either itself a manufacturer or authorised dealer/ vendor of the manufacturer. Proof of the same will be attached with the bid.
- b) The tenderer/ authorised vendor/ manufacturer should have successfully executed at least three supply orders of similar nature to Central/ State Government Departments/ PSUs/ reputed Educational Institutions in the last three years. Copies of these supply orders should be attached with the bid.
- c) The Tenderer should have PAN No., TIN No. and VAT No. and should submit their legible attested copies with Bid. Bid not accompanied by these documents would be summarily rejected.

23. Tender Currencies:

The bidder supplying indigenous or already imported equipment shall quote only in Indian Rupees with all taxes applicable.

24. Earnest Money Deposit (EMD):

- a) The Bid must be accompanied by Earnest Money Deposit as indicated against each IT Equipment is to be deposited in the form of crossed demand draft/pay order drawn in favour of "Registrar, Ambedkar University Delhi".
- b) The EMD of other bidders will be returned after placing of the order to the successful vendor. The EMD of the selected vendor shall be returned after the vendor has supplied and installed the materials at the locations indicated in the Supply/ Purchase Order. No interest will be payable on the EMD.

25. Performance Security:

The vendor selected would be required to furnish a Performance Security Deposit equal to 5% of the total work order, in the form of Demand Draft/ FDR/ Bank Guarantee from any Scheduled Bank in favour of "Registrar, Ambedkar University Delhi" payable at Delhi. In case the Performance Security is submitted in the form of Bank Guarantee, the same should be valid for a period of 2 (two) months beyond the date of expiry of warranty period of the IT Equipments. AUD reserves the right to ask for Performance Guarantee extension if contractual obligations are not fulfilled.

Rights of the Purchaser:

The acceptance of the tender rests with AUD. The university is not bound to accept the lowest tender bid and reserves the right to accept or reject any or all the Bids without assigning any reasons thereof. AUD also reserves the right to modify and / or relax, any terms & conditions of this tender document to safeguard its interest.

AUD reserves the right to cancel the tender process without assigning any reason whatsoever, at any stage.

AUD reserves the right to delete or alter any or some of the items given in the enclosed Appendix - B depending on the prevailing requirement. The quantities shown in the Appendix are tentative and may vary. The offers shall be valid in that case also.

26. Force Majeure:

If either party is affected by force majeure it shall forthwith notify the other party of the nature and extent thereof. Neither party shall be deemed to be in breach of this Agreement, or otherwise be liable to the other, by reason of any delay in performance, or non-performance, of any of its obligations hereunder to the extent that such delay or non-performance is due to any reason of Force Majeure, of which it has notified the other party; and the time for performance of the obligations shall be extended accordingly

27. Arbitration:

- a) If dispute or difference of any kind shall arise between the Purchaser/ Consignee and the vendor in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- b) If the parties fail to resolve their dispute or difference by such mutual consultation, the same shall be referred to the sole arbitrator, to be appointed by the Vice Chancellor, AUD at Delhi as per the provisions of the Indian Arbitration and Conciliation Act, 1996 and the rules framed there under. His/ Her decision will be final & binding on both the parties.
- c) The venue of arbitration shall be Delhi, India.

SCHEDULE OF REQUIREMENT

Bidder is required to fill the details in column Nos 4, 5 & 6 of the table given below:

S. No	Name of Equipment	EMD/ Unit (Amount in INR)	No. of Units	Detailed Technical Specifications	Offered Specification, make & model (4)	Whether offered items meeting the tender specifications (5)	Deviation from tender specification if any. (6)
1.	Laptop Computer	2000/-	02	As per Doc 'A'			
2.	Desktop Computer	2000/-	02				
3.	Printer	1000/-	01				
4.	Projector	1000/-	01				
5.	Speaker	150/-	01				
6.	Video Recorder	150/-	01				
7.	Voice Recorder	300/-	02				

Name : _____

Seal of the Firm:

Designation _____

Of Authorized signatory

Dated _____

QUALIFYING BID DOCUMENT

Please provide the following documents/ information:

1. Name & Postal address of Agency:

Telephones Nos.:

E-mail:

Fax Nos.

Mobile Nos:

2. Name & address of Owners/ Partners/ Directors :

3. Nature of Agency (Sole/ Partnership/ otherwise) :

4. If Registered, Regn No with validity of registration with appropriate authority:

5. Sales/ Service Tax Regn No. (Attach copy):

6. PAN No. (Attach copy):

7. TIN/ VAT No. (Attach copy):

8. Purchase order of three orders to Govt organizations/ PSUs/ reputed Educational Institutions in the last three years (Attach copies).

9. List of 3 reputed clients, with at least one client belonging to GOI/ State Govt. Dept./ PSU/ reputed Educational Institution with telephone No.:

10. Has your organization been placed in defaulter category by any Govt. Department/ PSU? If not, please submit a self attested certificate to this effect.

Check list

S. No.	Check list of documents/ Undertakings?	YES/NO	Remarks (Give explanation if answer is No)
1.	Is demand draft/ banker's cheque towards EMD, attached?		
2.	Is the bidder original equipment manufacturer (OEM)/authorised dealer?		
3.	If authorised dealer, a certificate to this effect from OEM, attached or not?		
4.	Is copy of Sales/ Service Tax Regn certificate attached?		
5.	Is copy of PAN No. attached?		
6.	Is copy of TIN/ VAT No. attached?		
7.	Are three purchase orders given by Govt organizations/ PSUs/ reputed Educational Institution in the last three years attached?		
8.	Whether list of three reputed users (along with telephone numbers of contact persons) attached?		
9.	Is undertaking certifying that the firm is not black listed signed as per Appx E?		
10.	Does the instrument comply with all the specifications given in DOC 'A'?		
11.	Whether tender document and all certificates signed on all pages?		

Signature of the Proprietor/ Authorized Signatory

Rubber Seal indicating complete address

Place :

Date :

PRICE BID

I/We.....
of

..... hereby agree, subject to acceptance of this tender by AUD, to
 Supply & Installation of IT Equipments in accordance with the specifications, terms and conditions
 of the contract as stated in the tender document at the rates and prices given below:

Sl. No. (1)	Name of the Item (2)	Brand Name & Model No. (3)	Rate per item (Rs.) (4)	VAT, Other Taxes (Rs.) (5)	Final Price per item (Rs.) (6 = 4+5)	Remarks (7)
1.	Laptop Computer					
2.	Desktop Computer					
3.	Printer					
4.	Projector					
5.	Speaker					
6.	Video Recorder					
7.	Voice Recorder					

Details of other items/other accessories

offered.....

Signature :
 Name & Designation :
 Name of the Agency :
 Seal of tenderer :
 Date :

UNDERTAKING (To be submitted with Bid)

It is certified that my firm/agency/company has never been **black listed** by any of the Departments/Autonomous Institutions/Universities/Public Sector Undertakings of the Government of India or Government of NCT of Delhi or any other State Government or reputed private institutions and no criminal case is pending against the said firm/ agency as on _____.

Signature of the Tenderer _____

Name of the Signatory _____

Name of the Firm/agency _____

Seal of the Firm/Agency _____

Place:

Date: _____

Detailed specifications of Equipment - DOC 'Á'

1.0 Laptop Computer

S. No.	Technical specifications	Quantity	Compliance with Specifications (Yes/ No)
1	Intel Core i5-4200U/1600 Mhz/12.5" 1366 X 768/ LED-Backlit LCD/4GB RAM/500 GB HDD/1.6kg/ with Microsoft Windows 8.1	01	
	Intel Core i5 / 2.8 GHz/ 13.3-inch diagonal LED-backlit High Definition (HD) anti-glare/ Genuine Windows 7 Professional /4GB RAM/ 500GB HDD/ DVDRW/1.84kg, Bag)	01	

2.0 Desktop Computer

S. No.	Technical specifications	Quantity	Compliance with Specifications (Yes/ No)
1	i3 3220/3240, 4GB extendable up to 16 GB DDR3 RAM, 500GB HDD, DVDRW, CM/Antic Cabinet, Corsair VS450 / 18.5"/ Ports and Slots: Front-(2) USB 2.0,(1) Microphone, (1) Headphone Rear-(4) USB 2.0,(1) DVI, Support Multi-Display,(1) RJ45,(1) AC-IN USB Keyboard/Mouse, Win 8 Pro, Office 2013 H & Business	01	
	DCG 2030, 4GB RAM, 500 GB HDD, DVDRW, CM/ Antic Cabinet, Corsair VS450, 18.5", Keyboard/Mouse, Win 8 Pro.	01	

3.0 Printer

S. No.	Specifications	Quantity	Compliance with Specifications (Yes/ No)
1	Laser Jet MFP with Print/ Color scanning / Copy / fax, Print speed black (normal, letter)- Up to 35 ppm, Print speed black (normal, A4)- Up to 33 ppm/ Duplex printing- Automatic, Paper trays-3	01	

4.0 Projector

S. No.	Specifications	Quantity	Compliance with Specifications (Yes/ No)
1	2,700 Lumen-1,890 Lumen/ XGA, 1024 x 768, 4:3/10,000 : 1/200 W, 5,000 h durability, 6,000 h durability /WPA/WPA2-Personal/ warranty 2 Years carry in Lamp: 1 year or 1,000 h	01	

5.0 Speaker

S. No.	Specifications	Quantity	Compliance with Specifications (Yes/ No)
1	<p>30 watts (RMS) Frequency response: 55 Hz – 20 kHz</p> <p>Satellites:</p> <ul style="list-style-type: none"> • 2 x 6 watts (RMS) (into 4 ohms, @1kHz, @10% THD) • Integrated volume control • Dual drivers for omnidirectional acoustics <p>Subwoofer:</p> <ul style="list-style-type: none"> • 18 watts (RMS) (into 6 ohms, @100Hz, @10% THD) • Integrated bass control <p>Connections:</p> <ul style="list-style-type: none"> • Inputs: Stereo RCA, 3.5 mm primary input, 3.5 mm auxiliary input • Outputs: 3.5mm headphone jack <p>Drivers:</p> <ul style="list-style-type: none"> • Satellites: 2-inch concave dome driver • Subwoofer: 4-inch down-firing dome driver <p>Speaker dimensions (H x W x D):</p> <ul style="list-style-type: none"> • Satellites: 8" (20.3 cm) x 3.4" (8.7 cm) x 5.3" (13.5 cm) • Subwoofer: 8.7" (22.1 cm) x 6" (15 cm) x 7.2" (18.2 cm) 	01	

6.0 Video Recorder

S. No.	Specifications	Quantity	Compliance with Specifications (Yes/ No)
1	<p>DIMENSIONS-. 54.0mm × 59.5mm × 128.0mm;Approx. 2 1/4 inch × 2 3/8 inch × 5 1/8 inch, 1/5.8 type(3.1mm) back-illuminated Exmor R CMOS Sensor, ZEISS Vario-Tessar, OPTICAL ZOOM-27x, DIGITAL ZOOM-320x, AVCHD format ver.2.0 compatible: MPEG4-AVC/H.264, RECORDING FORMAT -AVCHD format ver.2.0 compatible: MPEG4-AVC/H.264</p> <p>RECORDING FORMAT (STILL IMAGE)-DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible, VIDEO RESOLUTION-1440x1080/50i(HQ,LP), 50i(FX,FH), HD:1920x1080/50p(PS), MP4:1280x720 25p, VIDEO RECORDING RATE (ABR / VBR)- FH:Approx.17Mbps, FX:Approx.24Mbps, HD PS:Approx.28Mbps, HQ:Approx.9Mbps, LP:Approx.5Mbps, MP4: Approx.3Mbps, STILL IMAGE SIZE (PHOTO MODE)-6.9 megapixels 4:3 (3024x2272), L:9.2 megapixels 16:9 (4032x2272), STILL IMAGE SIZE (MOVIE MODE)-9.2 megapixels 16:9 (4032x2272)</p>	01	

7.0 Voice Recorder

S. No.	Specifications	Quantity	Compliance with Specifications (Yes/ No)
1	<p>Classification</p> <p>Product Class : Digital Notetakers with Direct PC Connection</p> <ul style="list-style-type: none"> • Mobile / Stationary : Mobile <p>Storage Media</p> <p>Internal / Removable Media : Internal + Removable</p> <ul style="list-style-type: none"> • microSD / microSDHC card : Yes • Internal Memory : 2 GB <p>USB functionality</p> <p>Direct USB Connection : Yes</p> <ul style="list-style-type: none"> • USB Speed : USB 2.0 High Speed • USB Composite device : Yes • USB Audio class : Yes • USB Storage class : Yes • USB HID : Yes <p>Display</p> <p>Display colour : White</p> <ul style="list-style-type: none"> • Display Backlight : LED (White) • Display Size : 27.56 x 23.9 mm / 1.43 " • Display Type : Full Dot Matrix Display (108 x 84) <p>Device Operation</p> <ul style="list-style-type: none"> • Main Switch : Push • HOLD switch : Yes • Power switch : Yes <p>Recording Modes</p> <ul style="list-style-type: none"> • Recording format : MP3 or WMA (Windows Media Audio) • WMA STXQ : 32 h 30 min • WMA STHQ : 65 h 30 min • WMA HQ : 131 h • WMA SP : 258 h • WMA LP : 514 h • MP3 192 kbps : 22 h • MP3 128 kbps : 33 h 30 min • Maximum Recording Time : 529 h (WMA 8kbps – LP Mode) <p>Playback Modes</p> <p>Playback format : WMA (5 kbps – 320 kbps) / MP3 (8</p>	02	

kbps – 320 kbps) WMA DRM9

Record function

- Recording Scenes : Lecture, Conference, Meetings, Dictation, Speech-Recognition, Individual-User Presets
- Erase single files : Yes
- Erase folders : Yes (Music)
- Erase all files : Yes
- VCVA recording : Yes VCVA (voice activation) for hands free recording
- Index : Up to 99 per file
- Rec Monitor : Yes
- Overwrite : No
- Low Cut-Filter : Yes
- Voice Sync : Yes

Playback function

Playback Scenes : Voice 1, Voice 2, Music 1, Music 2, Music 3

- Forward / Reverse Skip : Yes
- Repeat playback : Yes
- File Playback : Yes
- Folder Playback : Yes
- All Files Playback : Yes
- Voice Changer : No
- Voice playback : No
- Equalizer : Yes (Music)
- Noise canceling function : Yes
- A-B repeat playback : Yes
- Random playback : Yes
- Sound enhancement : Yes (Voice Filter)
- Fast forward and rewind : Yes
- Playback Speed Control : Yes
- Playback speed : Fast (10 steps Max. x2.0) / Slow (5 steps Min. x0.5)
- Data organisation
- No. of folders for Voice : 5
- Folder Music : Max. 128
- Files per folder : 200
- File move : No
- File Copy (Folder to Folder) : No
- File Replace : Yes
- File divide : Yes (Only MP3 files)
- Folder Podcasts : No podcast support
- Calendar Search : Yes
- Other Features
FM Radio Tuner & Recorder : No (WS-813 only)

	<ul style="list-style-type: none"> • Podcast support : No • Voice feedback / guidance : No • Beep signal (system sound) : Yes • Software Corresponding Audio software (name) : Sonority • Interfaces Input Microphone sensitivity : High / Middle / Low • PC interface : USB Storage class • Microphone jack : Yes • Microphones : Built-in stereo microphones (Directional) • Interfaces Output Speaker Diameter : Built-in ø 18 mm round dynamic speaker • Max. working output : 80mW • Earphone jack : Yes • Power Supply Power Supply : 1 x AAA Ni-MH rechargeable battery (charge inside device) or AAA battery • Alkaline battery life : Recording: 27 h (LP mode) • Playback : 30 h via earphones • Battery charge : Yes • Dimensions\ WxHxD : 100.2 x 40 x 14.8 mm • Operating Systems & Requirements Windows Operating system: Windows XP (SP2 or later), Windows Vista, Windows 7 • Macintosh Operating system: Mac OS X 10.4.11 - 10.7 (Lion) 		
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