



e-Tender Notice

“Expression of Interest (EoI) cum Request for Proposal (RFP)”

**“Expression of Interest (EoI) cum Request for Proposal (RFP)”
for Design, Supply & Commissioning of Phonetics & Archiving Lab
in the Centre for Endangered Languages at GGV Campus**

Estimated Project Cost (Including 2 years AMC Cost)	: Rs 180.00 Lakh
Tender Cost	: Rs 5,000/-
Earnest Money Deposit (EMD)	: Rs. 3.60 lakh
Last Date & Time for submission	: 11.10.2018



GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
(A Central University established by the Central Universities Act, 2009)
Phone 07752-260491, fax 07752-260154 Website www.ggu.ac.in

E-Tender No. 26/ Engg./GGV/CEL/e-tender/2018

Bilaspur Date: 10-09-2018

e-Tender Notice

“Expression of Interest (EoI) cum Request For Proposal (RFP)”

Guru Ghasidas Vishwavidyalaya (a Central University), Bilaspur (C.G.) invites EoI Cum RFP through e-tendering from reputed manufacturers/authorized distributors/dealers for Design, Supply & Commissioning of “Phonetics & Archiving Lab in the Centre for Endangered Languages” at GGV Campus. Last date for submission of e-tender is 11.10.2018 upto 3.00 PM. Tender cost-Rs.5000/- and EMD- Rs.3,60,000/- Other details, formats and terms-conditions regarding the e-tender can be downloaded from the websites:- www.eprocure.gov.in. or www.ggu.ac.in

Registrar(Acting)

**“Expression of Interest (EoI) cum Request for Proposal (RFP)”
for Design, Supply & Commissioning of Phonetics & Archiving Lab
in the Centre for Endangered Languages at GGV Campus**

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e-TENDER

“Expression of Interest (EoI) cum Request for Proposal (RFP)” for Design, Supply & Commissioning of Phonetics & Archiving Lab in the Centre for Endangered Languages at GGV Campus

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) invites EoI Cum RFP through e-TENDER, from reputed manufacturers /authorized distributors/dealers for Design, Supply & Commissioning of Phonetic & Archiving Lab for the Centre for Endangered Languages at GGV Campus. The detail of the EoI cum RFP can be downloaded from the University website www.ggu.ac.in or from CPP Portal www.eprocure.gov.in.

Tender cost (Non-refundable) of Rs.5000/-, EMD of Rs.3.60 lakh (Rupees Three Lakh Sixty Thousand Only) in the form of Demand Draft or FDR from any Scheduled Bank in favour of “Registrar, Guru Ghasidas Vishwavidyalaya” payable at Bilaspur (C.G.) within the due date of submission of EoI Cum RFP.

REQUEST FOR PROPOSAL (RFP):

Selection of Firm/Vendor for the Design, Supply & Commissioning of Phonetics & Archiving Lab in the Centre for Endangered Languages at GGV Campus at Guru Ghasidas Vishwavidyalaya (GGV), Bilaspur (C.G.). Expression of Interest Cum Request for Proposal is invited through e-Tender from the reputed manufacturers /authorized distributors/dealers for Design, Supply & Commissioning of Phonetic Lab in Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).

Salient Events & Dates:

E-TENDER NO. & Date	e-tender No. 26/ Engg./GGV/CEL/e-tender/2018, Bilaspur Date: 10-09-18.
Tender Inviting Authority	Registrar, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)
Name of the Work	Design, Supply & Commissioning of Phonetics & Archiving Lab in the Centre for Endangered Languages at GGV Campus
The Method of selection	Quality and Cost Based Selection (QCBS)
Last Date & Time for submission of online bids	11-10-2018 at 3:00 PM
Last Date & Time for submission of Tender cost and EMD in original to GGV	11-10-2018 at 3:00 PM Must be submitted to following address only through Speed/registered post or Courier service “ University Engineer Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur(C.G.), 495009
Pre-Bid meeting	01-10-2018 at 11:00 AM Engineering Section in Administrative Building at GGV
Date and time of opening the online Technical Bid	12-10-2018 at 3:30 PM
Date of Presentation by the qualified bidders after technical evaluation	On the date of opening of Financial Bid (Presentation by bidder before opening of the Financial Bid)
Date and time of opening the online Financial Bid	To be declared later (Information will be uploaded in www.eprocure.gov.in & www.ggu.ac.in)
Contact Person for Communication/ clarification (if any)	University Engineer (I/C) Contact: 07752260491 Mob: 9301785604, Email: ueggvbsp@gmail.com

SCOPE OF WORK

The detailed scope of the work for this E-Tender is given as under.

e-Tender No.	SCOPE OF WORK	Estimated Cost (including all) with 02 years AMC after 01 year warranty
No. 26/ Engg./GGV/CEL/ e-tender/2018, Bilaspur Date: 10-09-18.	Design, Supply, Installation and Commissioning (including software and other equipments with two years of AMC) of Phonetics & Archiving Lab in the Centre for Endangered Languages at GGV Campus	Rs. 180.00 Lakh

This tender contains the following documents:-

- A. Terms of Reference (TOR)
- B. Essential Eligibility Criteria for Bidders
- C. Submission and Evaluation Criteria of Bid/E-Tender
- D. General Instructions for Bidders
- E. Declaration (Annexure–I), Technical Specification (Annexure–II) and Financial/Price Bid (Annexure–III)

A. Terms of Reference (TOR):

A1: Precise Statement of Objectives:

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) wish to establish the centre for Endangered Languages in its campus as per the sanction and direction of the UGC. The purpose of establishing the centre is to setup courses in the a) Computational linguistics and b) develop digital language related data base. For this EoI Cum RFP through e-TENDER, from reputed manufacturers /authorized distributors/dealers is invited for Design, Supply, installation & Commissioning of Phonetic & Archiving Laboratory with two years of Annual Maintenance Contract after one year of warranty period.

A2: Outline of the Tasks to be carried out by the bidder:

The interested eligible bidders i.e. reputed manufacturers /authorized distributors/dealers may participate in EoI Cum RFP through e-TENDER. The method of selection of the bidder will be Quality and Cost Based Selection (QCBS) as per GFR2017-Rule-192. The successful bidder has to carryout Design, Supply, installation & Commissioning work for the Phonetic & Archiving Laboratory in Centre for Endangered Languages with two years of Annual Maintenance Contract after one year of warranty period.

A3: Schedule of Completion of Tasks:

The Method of selection	Quality and Cost Based Selection (QCBS)
Last Date & Time for submission of online bids	11-10-2018 at 3:00 PM
Date and time of opening the online Technical Bid	12-10-2018 at 3:30 PM
Date of Presentation by the qualified bidders after technical evaluation	On the date of opening of Financial Bid (Presentation by bidder before opening of the Financial Bid)
Duration for Completion of Assigned work in all respects	90 days from the date of issue of work order to the successful bidder.

A4: The Support or Inputs to be provided by the University to Facilitate the Consultancy:

The University will provide the following to the successful bidder after executing the agreement with the Firm as per the time schedule in the work order to be issued to the concerned firm.

- 1) Three adjacent Rooms of size approximately 5.0mx3.3m; 6.8mx7.1m and 4.2mx7.1m. the bidder may visit the above site on the date of pre-bid meeting
- 2) The electricity supply will be provided by the university; however the successful bidder has to pay actual electric consumption as per university rules, during the execution of the assigned work.

A5: The Final out Puts that will be required of the consultant

- 1) The selected firm has to deliver to the university design , supply , Installation & commissioning work related to the Phonetic Archiving Laboratory in the Centre for Endangered Languages at GGV as per the specifications detailed in the relevant section of this tender. The above work includes two years AMC after one year warranty period.
- 2) The university requires that the above established Phonetic & Archiving Laboratories in the Centre for Endangered Languages should be handed over to the university complete in all respect.

B. ESSENTIAL ELIGIBILITY CRITERIA FOR BIDDERS

B1 The Bidder must have successfully executed IT based Automation works from government organization/ university/ PSU's. (Copy of purchase order along with Completion Certificate/satisfactory report from Client duly attested by bidder) as below

- i) Single work of value not less than 144.00 Lakh.
- ii) Two work of value not less than 90.00 Lakh
- iii) Three work of value not less than 72.00 Lakh.

B2 The bidder should have at least an annual turnover of 1,75,00,000/- for the last three financial years. A certified copy from Chartered Accountant must be enclosed in support of the statement.

B3 Bidder/Firm must have valid Registration with the Original Equipment Manufacturer (OEM) (latest Authorization letter/ relevant certificate must be attached by the Bidder)

B4 The bidder should be a single Company/ Firm. No consortium is allowed. Relevant document in the support of this statement must be enclosed.

B5 Copies of the audited balance sheet of the bidder for the last three financial years, (details of Permanent Account Number, ITR (Income Tax Return) for last 3 financial years must be furnished)

B6 G.S.T Registration Certificate & Bank mandate of the Company/Firm at least 5 years old (must be submitted by the bidder).

B7 The bidding Organization should have never been black listed by any institution of the Central/ State government / PSU/ University/ Institute etc. in the past three years. (enclose the notarized certificate in this regard).

B8 The firm should have been engaged in **IT/ITeS projects/solutions** business for a period of at least five years as on last date of submission of Bid

B9 Compliance of **Annexure II** of this EoI and RFP

C: The Bidder must furnish the following information in the tabular form:

DETAILS TO BE FURNISHED BY THE BIDDER AS PER THE ESSENTIAL ELIGIBILITY CRITERIA SECTION-B (B1 to B9) ABOVE			
CLAUSE B	DETAILS as per clause B	COMPLIED Yes / No	Page No of Documents attached in support of your statement
B1			
B2			
B3			
B4			
B5			
B6			
B7			
B8			
B9			

D. SUBMISSION AND EVALUATION CRITERIA

D1. SUBMISSION OF e-Tender/EoI/RFP

- a. The e-Tender document can be downloaded from the websites www.eprocure.gov.in or www.ggu.ac.in.
Corrigendum, (if any) would appear only on the above web sites and will not be published anywhere else.
- b. Bid must be duly signed by an authorized signatory, who has been authorized by the concerned Firm/Bidder.
For this, a Declaration in the prescribed format (Annexure -I) duly filled in, sealed and signed on a non-judicial stamp paper of Rs. 100/- must be scanned and submitted along with the Technical Bid.
- c. Tender Cost, EMD, Lay out Drawing and Online (soft copy) Bid Submission
 - i. The bid document consisting of scope of work and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from websites www.ggu.ac.in or www.eprocure.gov.in.
 - ii. Bid/Tender cost (Non-refundable) of Rs. 5000/- should be in the form of demand draft in favour of “The Registrar, Guru Ghasidas Vishwavidyalaya”, drawn on any Scheduled bank payable at Bilaspur (C.G.). EMD of amount Rs.3.60 lakh should in the form of demand draft/FDR in favour of “The Registrar, Guru Ghasidas Vishwavidyalaya”, drawn on any scheduled bank payable at Bilaspur (C.G.).
 - iii. Original demand draft for Bid Cost (Non-refundable) and D.D./FDR for Earnest Money Deposit (EMD) in a sealed envelope must reach to the following address on or before the last date of submission of tender. to the following address:

**“The University Engineer
Guru Ghasidas Vishwavidyalaya
Koni, Bilaspur (C.G.) – 495009”**
 - iv. The above envelope should be marked “E-Tender Notice No. 26/ Engg./GGV/CEL/e-tender/2018, Bilaspur Date: 10-09-18. Bidder must register on the website www.eprocure.gov.in for uploading the soft copy of the bid. Those interested Bidders not registered on the website www.eprocure.gov.in mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the above website.
 - v. The intending bidder (s) must read the terms and conditions of this E-Tender carefully, and should submit bid only if they are eligible and are in possession of all the required documents.
 - vi. The intending bidder (s) must have a valid digital signature to submit the bid.
 - vii. Bidders should upload documents in the form of PDF format or as per the format available on the website www.eprocure.gov.in.
 - viii. Bidder must upload on the e-Tendering website www.eprocure.gov.in the scanned copy of demand draft for Bid Cost (Non-refundable), and demand

- draft/FDR of Earnest Money Deposit (EMD) in PDF format. The copies (Images) of the above two demand drafts should be combined, scanned and uploaded as a single file only with file name as “Bid Cost_EMD_Name of Bidder.PDF” within the period of bid submission.
- ix. Bidders must upload on the e-Tendering website www.eprocure.gov.in, the scanned copy of the bid documents Technical (in PDF format) and Financial Bids (as per format available on the website (www.eprocure.gov.in) within the period of bid submission.
 - x. First PDF file titled “Technical Bid _Name of Bidder” must have all required documents related to Technical Bid.
 - xi. Second file (as per the format available on the website www.eprocure.gov.in) titled “Financial Bid_Name of Bidder” must have the Financial Bid.
 - xii. The bidders are required to upload and submit the scanned page of Technical documents as per essential eligibility criteria for the bidders and other required documents as per this E-Tender.
 - xiii. The Technical bid file must contain the scanned copies of duly signed E-Tender, certified copies of documents related to ESSENTIAL ELIGIBILITY CRITERIA, all relevant information and documents of turnover, work experience certificates, Proof of Registration Certificate of Firm, OEM Authorization letter (as and where applicable), copy of the audited balance sheet of the vendor by the chartered accountant for the last three financial years, Details of Permanent Account Number, ITR (Income Tax Return) for last 3 financial years, GST registration certificate, bank mandate for company/firm at least 5 years old, etc. relevant for evaluating the bidder technically, Compliance of Annexure-II, Declaration(Appendix-I), Corrigendum / Addendum / Other documents, if any, etc.
 - xiv. The bidder shall quote the items (up to 2 Decimals) as per Appendix – III.
 - xv. The tenderer (s) is/are required to quote the rate strictly as per the terms and conditions, specifications, standards given in the E-Tender documents.
 - xvi. Power of Attorney of the person must be having digital signature for signing /submitting the tender. This should be supported by Board Resolution (in case of a company registered under the Companies Act).
 - xvii. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as “0”.Therefore, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as “0” (ZERO).
 - xviii. Information and Instructions for tenderers posted on websites shall form part of bid document.
 - xix. The bidders are advised to submit complete details with their bids. The Technical Bid Evaluation will be done on the basis of documents uploaded on e-tendering web site(s) by the bidders with the bids. Bids with Incomplete/Ambiguous information will be rejected.
 - xx. Before the last time and date of submission of bid as notified, the tenderer can submit revised bid any number of times.
 - xxi. On opening date, the Bidder can login and see the bid opening process.

- xxii. Bidders can clarify any terms/ conditions etc. related with the tender in person at Guru Ghasidas Vishwavidyalaya, Bilaspur, on the scheduled pre-Bid meeting date
- d. Date and Time of opening of the online/sealed envelope will be as per the date mentioned earlier, at Engineering Section of Guru Ghasidas Vishwavidyalaya, Bilaspur.
- e. Successful bidder shall have to submit the certified serially numbered hard copies of all the documents uploaded on the designated website and other relevant original documents for verification before award of the work.

D2. EVALUATION CRITERIA & FINANCIAL/PRICE BID

Evaluation Criteria - The broad guidelines for evaluation of Financial Bids will be as follows:

- I. Only those Financial Bids will be opened and evaluated which are found to fulfil all the eligibility and qualifying requirements of this E-Tender.
- II. The bidder should quote the rates in Indian Rupees, inclusive of all taxes etc. as per Government rules and regulations All taxes, duties, levies (if any) etc. like GST, Service Tax, Packaging & Forwarding charges, loading, unloading, transportation, transit insurance, installation, commissioning, testing, Training, Technical literature, Tools, Supply of Educational Content Software, Any other requirement, etc. should be inclusive in the quoted rate.
- III. The quoted price for evaluation shall be taken as the total amount of all items quoted by the bidder as mentioned in the Financial Bid Format (as per Annexure – III). For any item (s) if the bidder do not quote the rate, then the rate/price shall be considered to be Rs. Zero for that/those item(s).
- IV. The rates are to be quoted by the bidders in Indian Rupees only and payment shall also be made to successful bidders in Indian Rupees only.
- V. All prices shall be fixed and shall not be subject to escalation of any description.
- VI. Quoted rate should be prescribed in both words and figures. If there is any discrepancy between word and figures, the quoted rate in words will be taken as final quoted price by the bidder.

D2.1 BID EVALUATION (Quality and Cost Based Selection- QCBS)

a) Technical Evaluation:

The Technical Bid submitted by the bidders shall be opened on the scheduled date/time and evaluated by the CEC / Technical Committee as per the criteria detailed in table ahead.

The bidders will be allotted points out of 60 as detailed in the table (Technical Evaluation Parameter) under stage-A, on the basis of the certified documents submitted by them along with the tender, in support of the desired information furnished by the concerned bidder. Further, under stage-B (Technical Evaluation Parameter) the eligible bidders will have to give the Presentation, for which the

CEC/Technical committee of the university will evaluate the presentation (stage-B of Technical Evaluation) out of 40 points. The total technical score (TS) for stage-A & stage-B which is 100 will be scaled down to 80. Those bidders whose score is more than or equal to 75% (i.e 60 points out of 80 as TS) will be shortlisted, and financial offers/Bid will be opened for those bidders only.

b) Financial Evaluation:

The Financial bid for the above shortlisted bidder will be opened. The bidder with the lowest quoted rate will be assigned a score of 100. The other bidders will be allotted score relative to the score of bidder with the lowest quote, which will be as below:

$$FS = 100 \times FL/F$$

where, FS = The Financial score of the Financial proposal being evaluated,

FL = The price of lowest priced financial proposal and

F= The price of Financial proposal of the concerned bidder.

The above FS (Financial Score) will be Scaled down to 20 points.

c) Final Evaluation:

- i) Scores obtained on the Financial Score (FS) out of 20 will be added to score obtained on Technical Score (TS) out of 80 to get a Consolidated Score (CS) out of 100.
- ii) The bidder with the highest Consolidated Score (CS) will be selected.
- iii) If there is a tie in the CS, the vendor with a higher score on the technical offer (TS) will be selected.
- iv) During evaluation, the Tendering Authority will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures, the former will prevail.
- v) The successful bidder has to execute an agreement with all the formalities.

Table: Technical Evaluation Parameter					
S T A G E	Sl. No	Parameter	Evaluation Criteria (without interpolation)	Maximum Score	Bidder's Score
Stage-A	1	Project Completed (as per Clause B1)	Every Bidder who satisfies clause B1(a to c) will score a minimum of 2 points	10	
			For each completed project with the value between 1.8 to 3 crore, 3 points will be awarded over & above the minimum 2 points		
			For each completed project with the value above 3 crore, 5 points will be awarded .in addition to the minimum 2 points		
	2	Annual Turnover for three financial years 2015-16, 2016-17, 2017-18	More than Rs. 1.75 Crore 4-points will be awarded	20	
			between 1.75 to 50 crores 8-points		
			between Rs. 50 to 100 crores, 12-points		
			between 100 to 150 crores, 15-points		
	3	Employee strength	less than 100, 2-points	8	
			between 100-200, 4-points		
			Above 200, 8-points		
4	No of similar projects completed (Similar Projects as per Clause -B)	up to 5 project (1 points for each project) maximum score 5	10		
		Above 5 projects (2 points each project) max. score 10			
5	Experience of the Firm	upto 10 years (0.6 point for each year) max. score 6	10		
		Above 10 years, maximum score 10 points			
6	Valid Certification for ISO9001 &14001	maximum 2-points	2		
Technical Score (Stage-A)				60	
Stage-B		Presentation	1) Organizational setup 2) Understanding of the project 3) Design & Plan for the proposed project 4) Details of Execution /methodology 5) Satisfactory Answers to the queries of the members of committee. 6) Other relevant points to be informed at the time of presentation	40	
Technical Score (Stage-B)				40	
Total Technical Score (Stage A + Stage-B)				100	

Details of the Bidding firm and the Bidder Information to be furnished by the bidder			
Sl. No	Parameter	Details to be furnished by the Bidder	Page No of supporting documents attached
1	Name of the Bidding Firm		
2	Name of Bidder		
3	Full Address of Bidding Firm		
4	Contact No. and E-mail Id		
5	PAN		
6	ADHAAR No		
7	GST		

Information & documents to be supplied by the bidder for technical evaluation as per the Technical Evaluation Parameter detailed under stage-A in Table			
Sl. No	Parameter	Details to be furnished by the Bidder	Page no for documents attached
1	Project Completed (as per Clause B1)		
2	Annual Turnover for three financial years 2015-16, 2016-17, 2017-18		
3	Employee strength		
4	No of similar projects completed (Similar Projects as per Clause -B)		
5	Experience of the Firm		
6	Valid Certification for ISO9001 &14001		

E: GENERAL INSTRUCTIONS FOR BIDDERS

1. The bidders should have valid GST registration. (Relevant documents must be attached as required in the previous clause/sections.
2. The entire project work will have to be executed by a single vendor. No consortium will be entertained.
3. The bidder has to put the firm's seal and signature in full at all pages of the bidding document.
4. Bid must be submitted and signed by the authorized signatory only.
5. Conditional and incomplete offer/Bid will be liable to be summarily rejected.
6. The bidder should have an authorized dealership/registration certificate of Phonetic Lab Equipment's from the original OEM. The Authorization/Dealership letter or certificate of principal manufacturing company (OEM) should be issued after the date of publication of this e-TENDER/EOI/RFP (to be attached in original).
7. Products to be supplied / installed are to be new and as per the specification mentioned in this tender document
8. GGV will host a Pre-Bid Meeting of prospective bidders as on scheduled Date and Time in the Conference hall of Administrative Building of Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.). The bidder or its representatives (with a letter of authorization from the bidder), can attend the pre -bid Meeting at their own cost. The bidder will not be entertained after due date/time. In case on the date of pre-Bid meeting the university remains closed for the reasons unknown, then the pre-Bid meeting will be held on the next working day at the same time.
9. The University reserves the right to modify unilaterally (if situation so arises) any part of the tender document at any stage of awarding the work to the successful bidder in the interest of the University.
10. **Disqualification:** The University may disqualify bids on account of any of the following reasons:
 - i. If bid is received after the due last date and time of submission
 - ii. If the tenderer does not upload all the desired documents as stipulated in the bid document.
 - iii. Tenders in which any of the prescribed conditions/documents are not fulfilled/ incomplete/ not satisfactory in any respect.
 - iv. If the bidder attempts to influence any member of the Technical Committee/CEC.

- v. If the bid is conditional.
 - vi. If the bidder provides any misleading information or conceals any information.
 - vii. If the bidders make any corrections, additions, alterations in the downloaded bid document.
 - viii. If bidder is under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of India (GoI), State / Central Government, or any other of their agencies.
 - ix. Non fulfilment of any of the eligibility criteria as per this e-Tender/EoI/RFP
 - x. Bid submitted without the Declaration as desired in this e-tender/EoI/RFP
 - xi. The decision of the University in the matter of disqualification shall be final and binding upon the bidder and no further correspondence shall be entertained from any disqualified bidder thereafter.
- 11.** All provisions in this document and future documents to be issued by the University in connection with this work are supplementary and complementary to each other and are not to be read in isolation.
- 12.** Bidders are advised to visit the designated websites www.ggu.ac.in and www.eprocure.gov.in regularly for latest updates & clarifications regarding this e-Tender/EoI/RFP and subsequent stages.
- 13.** In the interest of the University, the University reserves the right to:
- i. Accept or reject any or all bids for this e-Tender/EoI/RFP without assigning any reason, whatsoever at any stage.
 - ii. Amend the selection process at any stage without assigning any reason, whatsoever.
 - iii. Interpret any clause, modify/alter and amend the provisions of this e-Tender/EoI/RFP or any other document issued at any stage of selection without assigning any reason, whatsoever.
 - iv. Amend the scope of work without assigning any reason, whatsoever.
 - v. Debar the bidder, if during the process of selection or later at any stage, it is found or discovered that bidder has/ had provided incorrect/misleading information or material misrepresentation or concealment of information sought by the GGV and
 - vi. Close/ cancel the invitation/ tender notice at any stage without assigning any reason, whatsoever.

14. Technically Eligible bidders or their representative, if interested can attend the opening of the Financial Bids. The date and time of opening the financial bid shall be notified later and uploaded on the websites www.ggu.ac.in and www.eprocure.gov.in only.
15. **Any addition/deletion/modification of this e-Tender/EoI/RFP made before the due date/time of the tender will be displayed on www.ggu.ac.in or www.eprocure.gov.in website only.**
16. In case the last date fixed for the submission of the e-Tender/EoI/RFP is declared as the holiday/off-day, the next working day shall be deemed to be the last date.
17. The University reserves the right to verify the particulars furnished by the bidders independently and to obtain feedback from clients of the Bidder for whom, similar services had been rendered out by them.
18. Mere fulfilling the criteria laid down in this e-Tender/EoI/RFP does not entitle/guarantee the bidder to be shortlisted/selected/awarded the works at GGV. The decision of acceptance of any or all tender(s) will rest with GGV who does not bind itself to accept the lowest tender and reserves to itself the right to reject any or all of the tenders received without assigning any reason thereof.
19. Period of Validity of Bids: 06 months from the date of opening of the financial bid.
20. The following shall be noted related to EMD.
 - (i) The EMD (without any interest) for all those bidders who are found not eligible shall be returned back to the bidder through registered post/speed post only to the address furnished by the bidder.
 - (ii) The EMD without any interest shall be refunded/returned to remaining bidders after signing of agreement/MoU with the successful bidder.
 - (iii) No exemption from depositing the EMD shall be allowed to any participating bidder.
 - (iv) Validity of EMD shall be six (6) months from the last due date of submission of e-Tender/EoI/RFP.
 - (v) EMD shall be forfeited in the following cases:
 - a) If any information or document furnished by the bidder turns out to be misleading or untrue in any material respect;
 - b) If the successful bidder fails to execute the contract/ agreement within the stipulated time or any extension thereof provided by the University (GGV)
 - c) The earnest money deposit (EMD) shall not carry any interest.

- 21. Inspection:** GGV or its representative shall have the right to inspect or to test the items to confirm their conformity to the ordered specification. In case any inspected or tested goods fail to conform to the specifications, GGV may reject them and supplier shall either replace the rejected goods or make all alterations necessary to meet specification required free of cost to GGV.
- 22.** The quantities mentioned in the BOQ/Financial Bid format are approximate quantities. The university has all the rights reserved to alter the quantity as per the site conditions or any direction of the university authority, which must be acceptable to the bidder; however the price of the concerned item shall be the governing parameter to calculate the amount for payment against the actual work executed by the successful bidder.
- 23.** The bidder shall visit the university campus for exact and accurate measurements of the rooms allocated in the campus for establishing the centre for endangered languages. University will not pay for any such expenses incurred during the site-visit. It is the complete responsibility of the bidder and has to bear the expense for it
- 24.** As per requirement and in the interest of the University, any other items which are not mentioned in Financial Bid may be added for which the rate shall be decided on the basis of market rate analysis.
- 25.** The award of the contract will be decided on the basis of evaluation of design layout, material quality to be used, etc. by the bidder and on the basis of the presentation delivered by the bidder based on the acceptance/approval of the university authority. The decision of the University in this regard shall be final and binding on the bidders.
- 26.** University reserves the right to visit the showroom and manufacturing /assembling units of the bidder/OEM for the quality assurance, if it so desires.
- 27.** The items supplied by the firm shall be of high quality, standard & grade and in the inspection/ test or at any later stage, if the supplied items are found to be of inferior quality, the same shall have to be replaced by the supplier at its own cost/expenses within the stipulated period given by the university, failing which the order of the firm may be cancelled. Delayed supply/non-compliance of complete order may also lead to cancellation of work order. In such case appropriate penalty including forfeiting EMD/SD will be levied upon the bidder.

28. Specification: The following Specification clause will form part of the contract placed on successful Bidder. The Firm/Bidder shall guarantee to meet the specifications as per **Annexure – II** and incorporate the modifications to the existing design configuration to meet the specific requirement of the University Services as per modifications/requirements recommended after the Maintenance Evaluation Trials. All technical literature and drawings shall be amended as the modifications by the Firm/bidder before supply to the University. The Successful Bidder, in consultation with the University, may carry out technical up gradation/alterations in the design, drawings and specifications due to change in manufacturing procedures, indigenization or obsolescence. This will, however, not in any way, adversely affect the end specifications of the equipment. Changes in technical details, drawings repair and maintenance techniques along with necessary tools as a result of up gradation/alterations will be provided to the University free of cost within 07 days of affecting such up gradation/ alterations.

29. Delivery Period – Delivery period for supply of items would be **90 days** from the date of supply order. Please note that contract may be cancelled unilaterally by the University in case services / supply are not received within the contracted delivery period. Extension of contracted delivery period will be at the sole discretion of the University with applicability of LD clause. However the bidder has to apply for the same at least 10 days before the last date of delivery.

30. On Site WARRANTY Maintenance: The warranty period of 12 months for the all items/goods/electronic items etc. shall be taken into account from the date of completion of supply of products, its successful delivery/inspection installation/commissioning and acceptance by GGV, including accessories if any, whichever is later. The Firm/Contractor shall fulfil the following conditions during warranty period:

- a) Any defect in the goods thereof should be rectified within maximum period of 48 hours of lodging complaint at Nodal Centre and Sites with-public air transport facilities
- b) Any defect in the supplied goods failing due defective material manufacturing defects or Quality Control problem at least three times in three months, or where the penalty amount on account of downtime for three months has crossed 10% of the goods value, will be totally replaced by the Vendor at his cost and risk within 30 days, from the date of last failure.

c) The firm/contractor shall provide contact numbers (preferably toll free) along with Email IDs to the University (GGV) for complaint booking. All these contacts provided by the Firm/contractor should be working, attended and replied. It will be a single window complaint booking system; University shall not be contacting other than this system for maintenance / repair of their materials/services whatsoever.

31. Annual Maintenance Contract (AMC) – The Annual Maintenance for first year is not to be charged for the all items/goods/electronic items, etc. as this period will be under on-site warranty maintenance for one year duration from the date of successful commissioning/demonstration. The AMC charges (inclusive all) for subsequent two years (after the first year warranty period as specified before) for all the items except for civil and furniture items must be mentioned in the financial bid/BOQ only. Any tax levied thereof on the AMC for these two years shall also to be mentioned distinctly.

32. Payment Terms: It will be mandatory for the Bidders to indicate their bank account numbers and other relevant e-payment details, so that payments could be made through ECS/NEFT mechanism instead of payment through cheques, wherever feasible. The payment will be made as per the following terms, on production of the requisite document

- (i) No advance payment(s) will be made.
- (ii) The payment will be made as per the following terms,
 - a. After successful completion of civil work 90% of payment related with civil work will be made against the RA bill of the firm.
 - b. After successful supply, and demonstration of IT based hardware/software, 80 % of payment related with equipment/instrument will be made against the RA bill of the firm.
 - c. After successful supply, and installation of furniture/fixture, 90 % of payment related with furniture/fixture will be made against the RA bill of the firm.
 - d. Balance payment shall be made to the firm against their final bill after successful supply, installation, testing, commissioning, training acceptance, receipt of performance Guarantee, Warranty certificate, user's manual, accessories, etc. with due deductions as per rules.

(iii) The AMC charges for the subsequent 2 years mentioned by the bidder in the Financial Bid, shall be paid in four instalments each at the end of six months.

33. Performance Guaranty: The performance guaranty shall be at the rate of 5% of the contract value (**Excluding charges for AMC**). The EMD deposited by the successful bidder can be converted as a part of performance guarantee. The Performance guarantee may be deposited as DD/FDR/BG valid for a period of at least 60 days beyond the two years period of the expiry of AMC. The performance guarantee if not deposited by the bidder then the same shall be deducted from their bill/Invoice payment. The performance guarantee will be returned without any interest to the bidder after successful completion of AMC period

34. Price should be valid for one year for delivery at Guru Ghasidas Vishwavidyalaya Campus, Bilaspur (C.G.). It can be further extended up to a maximum of three years from the date of first agreement (in stretch of 06 months each) with mutual consent of either parties for Design, Supply & Commissioning of Phonetic Labs having similar type of work on same average quoted prices. Such extension shall be done on satisfactory performance of the firm during the contract period.

35. The items should be delivered without any extra cost at the university premises and will also have to be installed/assembled without any extra cost. All expenses incurred due to transport, packing, forwarding, loading-unloading, transportation, transit insurance etc. shall have to be borne by the vendor/ firm only.

36. Transfer and Sub-letting: The Successful Bidder has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

37. Non-disclosure of Contract documents: Except with the written consent of the University, the firm/bidder and other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

38. Patents and other Industrial Property Rights: The prices stated in the present Contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payments for any other industrial property rights. The Firm/Bidder shall indemnify the University against all claims

from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use. The Successful Bidder shall be responsible for the completion of the supplies including spares, tools, technical literature and training aggregates irrespective of the fact of infringement of the supplies, irrespective of the fact of infringement of any or all the rights mentioned above.

39. Fall Clause: The following Fall clause will form part of the contract –

- (i) The price charged for the services and stores supplied under the contract by the Bidder / firm shall in no event exceed the lowest prices at which the Bidder / firm sells the stores and services or offer to sell stores and services of identical description to any persons/Organization including the purchaser or any department of the Central government or any Department of state government or any statutory undertaking the central or state government as the case may be during the period till performance of all supply Orders placed during the currency of the rate contract is completed.
- (ii) If at any time, during the said period the Successful Bidder reduces the sale price, sells or offer to sell such stores and services to any person/organization including the University or any Dept. of Central Govt. or any Department of the State Government or any Statutory undertaking of the Central or state Government as the case may be at a price lower than the price chargeable under the contract, the Bidder/Firm shall forthwith notify such reduction or sale or offer of sale to the University and the price payable under the contract for the stores of such reduction of sale or offer of the sale shall stand correspondingly reduced.

40. Risk & Expense clause

- a) Should the fabrication of items is not carried out within the time or times specified in the contract documents, or if defective fabrication is done, the client shall after granting the Contractor/Firm one week to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.
- b) Should the fabrication or any instalment thereof not perform in accordance with the specifications / parameters provided by the CONTRACTOR during the check proof tests to be done in the CUSTOMER's country, the client shall be at

liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.

- c) In case of a material breach that was not remedied within 45 days, the client shall, having given the right of first refusal to the CONTRACTOR/Firm be at liberty to purchase, manufacture, or procure from any other source as he thinks fit, other stores of the same or similar description to make good:-
- i. Such default.
 - ii. In the event of the contract being wholly determined the balance of the stores remaining to be delivered there under.
- d) Any excess of the purchase price, cost of manufacturer, or value of any stores procured from any other supplier as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the CONTRACTOR/Firm. Such recoveries shall not exceed 10% of the value of the contract.”

41. Contract Agreement: The contract agreement will be made between the GGV Bilaspur and the successful bidder. GGV has all the rights reserved to make alterations/addition/deletion in the conditions of this e-Tender/EOI/RFP and conditions of payment in the interest of the University.

42. Amendments to the Agreement: Modifications if any in this AGREEMENT must be in writing and shall be signed by both parties.

43. Time Limit for Validity of the Agreement: Unless extended by mutual consent of both the Client and the Firm/Contractor (PARTIES), the Agreement will be valid for a period of 60 days beyond the date of the liability Period after completion of the last works contract under this agreement.

44. Termination of Contract

The University shall have the right to terminate this Contract in part or in full in any of the following cases: -

- (i) The delivery of the material is delayed for causes not attributable to Force Majeure for more than (01 months) after the scheduled date of delivery.
- (ii) The Successful Bidder is declared bankrupt or becomes insolvent.
- (iii) The delivery of material is delayed due to causes of Force Majeure by more than (02 months) provided Force Majeure clause is included in contract

(iv) The University has noticed that the Successful Bidder has utilized the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company etc.

(v) As per decision of the Arbitration Tribunal.

45. Force Majeure

(i) Neither the Firm/Contractor nor the Client shall be considered as defaulting in the Performance of their obligations under this Agreement, as long as such performance is prevented or delayed, for reason, beyond the reasonable Control of the party claiming the existences of Force Majeure such as Acts of God, severe earthquake, cyclone (except monsoon), floods, lightning, land slide, fire or explosions, plague or epidemics, strikes, lockouts (lasting more than 14 consecutive calendar days), sabotage, blockade, war riots, invasion, acts of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, insurrection or military usurped power or confiscation or trade embargoes or destruction of requisition by order of any Government or any Public Authority. The party claiming the existence of Force Majeure shall within ten days or within shortest possible period without delay, as the case may be, notify the other party about the occurrence of the Force Majeure event and provide the other details of arising ceasing of the impediment. At the end of the impediment, the party claiming the existence of Force Majeure shall provide necessary documental proof of cessation.

(ii) As soon as the cause of Force Majeure has got removed, the party whose ability to perform its obligations has been affected shall notify the other of such cessation and of the actual delay incurred in such affected activity, including necessary evidence in support thereof. From the date of occurrence of a case of Force Majeure, obligations of the party affected shall be suspended during the continuance of Force Majeure Conditions and any liability so caused until the case itself and the inability so caused resulting there from have been removed, the agreed time of completion of the respective obligations under this contract shall stand extended by a period equal to the period of delay occasioned by such events.

(iii) Should one or both the parties be prevented from fulfilling the contractual obligations by state of Force Majeure lasting continuously for a period of six

months, the parties shall consult each other regarding the future implementation of the Project.

46. Liquidated Damages Clause: In case the work described is delayed beyond the stipulated period of completion, for reasons directly attributable to Firm, a sum equivalent to 0.5% (half percent) of fees for of each completed week by which the work has been delayed subject to maximum of 10% (ten percent) of the fees, shall be levied by way of liquidated damages not by way of penalty. This shall however not absolve the Firm/contractor of the responsibilities and obligations under the contract to complete the execution of work as per the completion time schedule.

47. Professional Misconduct: If any time, it is noticed that deliberate attempt has been made by the Bidder to cause over payment to the contractors by over measurement or over estimation of the rates or substandard work is accepted and recommended for payment, the amount shall be recovered from the payments due the Firm/Contractor not only from this contract but also from any other contract awarded by this Client and other means available to the Client. The matter will be viewed as a professional misconduct and strict action as per law will be taken.

48. Confidentiality: Except with the prior written consent by the Client, the Firm/Contractor and their representatives shall not at any time communicate to any person or entity any confidential information disclosed to them for the purpose of the services. The Firm/Contractor shall not publicize any information pertaining to Client which is discussed with them during course of execution of work in the interest of project completion.

49. Indemnification: The Firm/Contractor shall indemnify the Client for any loss resulting from and as a consequence of errors, omissions arising out of gross negligence on the part of the Firm/Contractor or on the part of their employees/representatives/agents and shall take necessary action to remedy the loss, such as removal of defects, deficiencies and such other action as considered necessary by the client to remedy the loss arising from such negligence.

50. Third Party Liability: The Client shall not be liable for any injury/death, caused to any official, employee, representative or agent of the Firm/Contractor or their sub Firm/Contractor s working at the site or damage to their properties for any reason whatsoever and Client shall not entertain any claim from any person on that behalf. It would be the responsibility of the Firm/Contractor to get their official,

employees, representatives, agents or their sub-Firm/Contractors insured against the possible risks involved in the discharge of their duties at the work site.

- 51. Arbitration:** Any dispute arising out of this agreement shall be settled through mutual discussion and consultations among the parties. In case the parties would not come under fruitful conclusion on the disputes, the matter shall be referred to the Sole Arbitrator by either party. The Sole Arbitrator shall be the representative nominated by the Vice Chancellor of Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.). The decision of the sole arbitrator shall be final and binding upon the parties to the disputes.
- 52. COURT JURISDICTION:** The University shall not be bound to give justification for any aspect of the selection process and the decision of the university shall be final and binding on all without any right of appeal. Further, in case of any dispute, any suite or legal proceedings against the university, the jurisdiction shall be restricted to the **Courts at Bilaspur, Chhattisgarh only.**
- 53.** In case of any ambiguity /anything not contained in this document, GGV reserves the right to take discretionary decision without assigning any reason thereof and it will be binding on concerned/all bidders. The University also reserves the right to cancel/reject any bid due to any reason including human error in calculation incurred during process. The GGV shall be free to cancel the whole or part of tender without assigning any reason.

ANNEXURE - I

DECLARATION

1. I, ----- Son /Daughter of Shri -----
Proprietor/ Partner/ Director/ Authorized Signatory of M/s. -----
and I am competent to sign this declaration and execute this Tender document.
2. I have carefully read and understood all the terms and conditions including detail requirements for financial bid of the Tender and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my bid at any stage besides liabilities towards prosecution under appropriate law.
5. Our firm is neither blacklisted by any Government Department nor is any Criminal Case registered against the firm or its owner or partners or directors anywhere in India.
6. I/ We have read the above mentioned Eligibility Criteria Submission and Evaluation Criteria of e-Tender/EOI/RFP, General Terms & Conditions, Financial bid submission, etc. of this tender very carefully and hereby agree to execute the work on the offered rates quoted by me/us in the enclosed schedule and on the above terms & conditions.
7. I/We have done myself/ ourselves fully satisfied to read and examine the Notice Inviting, General Conditions & various clauses of contract, all annexure, conditions & specifications, applicable specifications, descriptions of items of works, all the rules in respect of contract and all other contents in the tender documents and hereby agreed for the execution of the said specified works for the University Authority within the above time period in accordance with that at the rate has been quoted in the financial bid/BOQ as per provisions of e-Tender..

Dated:

Witness Names & Signature-----

Aadhar Number---

Occupation-----

Address -----

Signature of Contractor/Bidder

Firm's seal.....

Name:.....

Phone/Mob. No.,.....

Email ID.....

ANNEXURE II

TECHNICAL SPECIFICATIONS

SN	Item	Features/Specifications (Standard Quality)	Qty	Compliance Y/N																																														
1.	Digital Pocketstudio (Professional Multi Track Recorder)	<p>Features:-</p> <ul style="list-style-type: none"> Up to six tracks recording (2mono tracks+ 2mono/stereo switchable tracks) CD quality recording (16bit/44.1kHz) Two tracks simultaneous recording/ six tracks simultaneous playback Dedicated stereo master track available Record to SD/SDHC card (Up to 32GB) 2 Built-in omni-directional condenser microphones Two TS 1/4" mic/line inputs Independent LEVEL/PAN(BALANCE) knobs for each track 15mW/ch headphone output Direct locate function by jog-wheel Repeat playback between IN/OUT point Track edit functions (CLONE TRACK, CLEAN OUT, SILENCE, CUT, OPEN) File import/export by Wav format (mono/stereo) Export stereo master file as stereo wav format <p>Specifications:-</p> <table border="1" data-bbox="408 1093 1286 2051"> <tr> <td>Recording media</td> <td>SD card(512MB-2GB), SDHC card(4GB-32GB)</td> </tr> <tr> <td>File system</td> <td>(MTR partition),FAT32 (FAT partition)</td> </tr> <tr> <td colspan="2">INPUT</td> </tr> <tr> <td>Connectors</td> <td>6.3mm(1/4") TS-jack, UNBALANCED</td> </tr> <tr> <td>Input impedance</td> <td>10kohms or more(INPUT A:MIC/LINE), 1MΩ(INPUT A:GUITAR)</td> </tr> <tr> <td>Nominal input level</td> <td>-10dBV</td> </tr> <tr> <td>Maximum input level</td> <td>+6dBV</td> </tr> <tr> <td>Headroom</td> <td>16dB</td> </tr> <tr> <td>Built-in microphones</td> <td>Omni-directional condenser microphone x 2</td> </tr> <tr> <td colspan="2">LINE OUT</td> </tr> <tr> <td>Connectors</td> <td>3.5mm (1/8") stereo mini jack</td> </tr> <tr> <td>Nominal output level</td> <td>-16dBV</td> </tr> <tr> <td>Maximum output level</td> <td>0dBV</td> </tr> <tr> <td colspan="2">PHONES</td> </tr> <tr> <td>Connectors</td> <td>3.5mm (1/8") stereo mini jack</td> </tr> <tr> <td>Maximum output level</td> <td>15mW+15mW(THD+N less than 0.1%, 32ohms loaded)</td> </tr> <tr> <td colspan="2">USB</td> </tr> <tr> <td>Connectors</td> <td>USB Mini-B type 4-pin</td> </tr> <tr> <td>Format</td> <td>USB2.0 HIGH SPEED mass storage class</td> </tr> <tr> <td colspan="2">Continuous battery operation time</td> </tr> <tr> <td>Alkaline battery</td> <td>About 8H (Using line input/recording)</td> </tr> <tr> <td>Nickel-metal battery</td> <td>About 9H (Using line input/recording)</td> </tr> <tr> <td>Power</td> <td>Four AA batteries (Alkaline or nickel-metal</td> </tr> </table>	Recording media	SD card(512MB-2GB), SDHC card(4GB-32GB)	File system	(MTR partition),FAT32 (FAT partition)	INPUT		Connectors	6.3mm(1/4") TS-jack, UNBALANCED	Input impedance	10kohms or more(INPUT A:MIC/LINE), 1MΩ(INPUT A:GUITAR)	Nominal input level	-10dBV	Maximum input level	+6dBV	Headroom	16dB	Built-in microphones	Omni-directional condenser microphone x 2	LINE OUT		Connectors	3.5mm (1/8") stereo mini jack	Nominal output level	-16dBV	Maximum output level	0dBV	PHONES		Connectors	3.5mm (1/8") stereo mini jack	Maximum output level	15mW+15mW(THD+N less than 0.1%, 32ohms loaded)	USB		Connectors	USB Mini-B type 4-pin	Format	USB2.0 HIGH SPEED mass storage class	Continuous battery operation time		Alkaline battery	About 8H (Using line input/recording)	Nickel-metal battery	About 9H (Using line input/recording)	Power	Four AA batteries (Alkaline or nickel-metal	2	
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		battery), AC adapter (sold separately)																																		
		Operating system requirements																																		
		Windows																																		
		OS	Windows XP,Windows Vista,Windows 7,Windows 8																																	
		Macintosh																																		
		OS	Mac OS X Jaguar (V10.2),Mac OS X Panther (V10.3),Mac OS X Tiger (V10.4),Mac OS X Leopard (V10.5),Mac OS X Snow Leopard(V10.6.8),OS X Lion(V10.7),OS X Mountain Lion(V10.8)																																	
		Audio performance																																		
		Frequency response	20Hz to 20kHz (+1/-3dB, INPUT (MIC/LINE) to LINE OUT)																																	
		Distortion	Less than 0.05% (INPUT (LINE) to LINE OUT)																																	
		S/N ratio	More than 81dB (INPUT (MIC/LINE) to LINE OUT)																																	
2.	10 Channel Mixing Console(Sound Mixer)	<p>Features:-</p> <ul style="list-style-type: none"> • D-PRE (Discrete Class-A Mic Preamps) • High Quality Sound Op-amp • Switchable Phantom Power & PAD Switch • 1-knob Compressors • EQ and High-pass Filters • A variety of input / output connectors • LED level metering <p>Specifications:-</p> <table border="1"> <tr> <td colspan="2">Input Channels</td> </tr> <tr> <td>Phantom power</td> <td>+48 V</td> </tr> <tr> <td>Mono[MIC/LINE]</td> <td>4</td> </tr> <tr> <td>Stereo[LINE]</td> <td>3</td> </tr> <tr> <td colspan="2">Output Channels</td> </tr> <tr> <td>STEREO OUT</td> <td>2</td> </tr> <tr> <td>MONITOR OUT</td> <td>1</td> </tr> <tr> <td>PHONES</td> <td>1</td> </tr> <tr> <td>AUX SEND</td> <td>1</td> </tr> <tr> <td>Bus</td> <td>Stereo: 1, AUX: 1</td> </tr> <tr> <td colspan="2">Input Channel Function</td> </tr> <tr> <td>PAD</td> <td>26 dB (Mono)</td> </tr> <tr> <td>HPF</td> <td>80 Hz, 12 dB/oct (Mono)</td> </tr> <tr> <td>COMP</td> <td>1-knob compressor Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB, Attack time: approx. 25 msec, Release time: approx. 300 msec</td> </tr> <tr> <td>EQ HIGH</td> <td>Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving</td> </tr> <tr> <td>EQ MID</td> <td>Gain: +15 dB/-15 dB, Frequency: 2.5kHz peaking</td> </tr> </table>	Input Channels		Phantom power	+48 V	Mono[MIC/LINE]	4	Stereo[LINE]	3	Output Channels		STEREO OUT	2	MONITOR OUT	1	PHONES	1	AUX SEND	1	Bus	Stereo: 1, AUX: 1	Input Channel Function		PAD	26 dB (Mono)	HPF	80 Hz, 12 dB/oct (Mono)	COMP	1-knob compressor Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB, Attack time: approx. 25 msec, Release time: approx. 300 msec	EQ HIGH	Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving	EQ MID	Gain: +15 dB/-15 dB, Frequency: 2.5kHz peaking	1	
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		EQ LOW	Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving		
		PEAK LED	LED turns on when post EQ signal reaches 3 dB below clipping		
		Level Meter	2 x 7 -segment LED meter [PEAK, +10, +6, 0, -6, -10, -20 dB]		
		Total harmonic distortion	0.02 % @ +14dBu (20 Hz to 20kHz), GAIN knob: Min, 0.003 % @ +24dBu (1kHz), GAIN knob: Min		
		Frequency response	+0.5 dB/-1.0 dB (20 Hz to 48 kHz) , refer to the nominal output level @ 1 kHz, GAIN knob: Min		
		Hum & noise level			
		Equivalent input noise	-128 dBu (Mono Input Channel, Rs: 150Ω, GAIN knob: Max)		
		Residual output noise	-102 dBu (STEREO OUT, STEREO LEVEL knob: Min)		
		Crosstalk	-83 dB		
		Power requirements	PA-10 (AC 38 VCT, 0.62A, Cable length = 3.6 m) or equivalent recommended by Yamaha		
		Power consumption	22.9 W		
3.	Solid State Recorder	Features:- <ul style="list-style-type: none"> • XLR/TRS combo inputs on the front • Simultaneous recording of 4 tracks is possible using the 2 mic and 2 line inputs • Dual recording function • In addition to the AC adapter, 4 AA batteries can provide power as a backup, enabling operation even if AC power is interrupted • Common SD/SDHC/SDXC cards are used for recording media • Support for SDXC cards up to 128 GB enables recording for even longer times • Support for high-resolution recording up to 24-bit/96kHz using WAV/BWF formats • MP3 formats are also supported, allowing recording for even longer times • Variable Speed Audition (VSA) function, which allows playback at 50–150% normal speed (in 10% increments), is convenient for uses such as language practice and transcribing meetings • XLR/TRS combo inputs (with locking mechanisms) support +4dBu, enabling balanced input from mixers and other devices, and mics that require phantom power (+48V) • RCA inputs support -10dBV line level, enabling unbalanced input from mixers and other devices • Automatic recording function starts recording when the set audio input level is detected • File incrementing function allows a recording to be split by creating new files at times set in advance and whenever desired • Pre-recording function allows the unit to record the 2 seconds of sound before recording is activated • Automatic level function allows recording to always be at the optimal level • Limiter function automatically reduces parts to suitable levels if the input level is too high 		5	

		<ul style="list-style-type: none"> • Jumpback playback allows you to press the PLAY button once during playback to move back a few seconds and resume playback • Playlist function • Mark function convenient for moving to specific locations during playback • Divide function allows files to be split at positions set with the mark function and wherever desired (only with WAV files) • File name format can be set to use a user-defined word or the date • Resume function remembers the playback position when the unit is turned off • Low cut filter with three cut-off frequencies (40/80/120 Hz) • 1U rack mount size 			
		Specifications:-			
		Recording media	SD card (64MB to 2GB), SDHC card (4GB to 32GB), SDXC card (48GB to 128GB)		
		File format	WAV / BWF/MP3		
		WAV / BWF Sampling frequency	44.1k/48k/96k Hz		
		WAV / BWF Quantization bit rate	16/24 bit		
		MP3 Sampling frequency	44.1k/48k Hz		
		MP3 Bit-rate for recording	64k - 320k bps		
		Number of channels	4-channel (2 Stereo)		
		Analog audio inputs	BALANCED (MIC/LINE INPUT 1/2), UNBALANCED (INPUT 3/L / 4/R)		
		Connector	XLR-3-31 (1 : GND, 2 : HOT, 3 : COLD), 6.3mm(1/4") TRS standard jack		
		LINE			
		Input Impedance	10kΩ		
		Standard input level	+4dBu		
		Minimum input level	-12dBu		
		Maximum input level	+20dBu		
		MIC	XLR : Phantom power compatible		
		Input Impedance	2.7kΩ		
		Minimum input level	-67dBu (GAIN at "High")		
		Maximum input level	0dBu (GAIN at "Low")		
		UNBALANCED			
		Connector	RCA pin jacks		
		Input Impedance	10kΩ		
		Standard input level	-10dBV		
		Minimum input level	-26dBV		
		Maximum input level	+6dBV		
		Analog audio outputs	UNBALANCED		
		Connector	RCA pin jacks		
		Output impedance	200Ω		
		Standard output level	-10dBV		

		Maximum output level	+6dBV			
		REMOTE Connector	2.5mm TRS jack			
		PHONES				
		Connector	6.3mm(1/4")stereo phone jack			
		Maximum output level	20mW+20mW or more (32Ωloaded, THD+N:less than 0.1%)			
		Power	AC adapter			
			4 AA batteries			
4.	96k/24-bit Portable Stereo Recorder(PCM Recorder)	<p>Features:-</p> <ul style="list-style-type: none"> • Stereo condenser microphones for lively, high-quality sound and high-resolution recording • Proven high sound pressure design for capturing loud sounds of up to 125dB SPL, making it ideal for loud band recordings • Peak reduction function that detects peaks and automatically sets the optimal level • Self-timer recording function • Seamless gain control • Three low cut filter levels that cut unnecessary low frequency noise such as from air conditioning equipment(40/80/120Hz) • Speed change (VSA) function for adjusting the speed from 0.5 to 1.5 times (in 0.1 increments), which is great for practicing music and language study • Level align feature that prevents uneven volume levels • Equalizer setting for adjusting playback sound quality • Divide/delete functions • Loop/repeat playback function that is convention for practicing music and studying languages • Resume function that retains the last stop position and starts playback from that position when power is turned back ON • Jump back and play that skips back a preset number of seconds during playback (1 to 10 sec in 1 sec increments, 10 sec, 20 sec, 30 sec) • QUICK menu button for easy access to various functions • High-quality 24-bit/96kHz WAV/BWF linear PCM recording and long recordings as MP3 files possible • microSD/microSDHC cards can be used as recording media • Mark function that can set up to 99 points for a single track Mark information can be utilized by BWF compatible software • Audio files created on computers can be played (Only in formats compatible with this product) • Built-in monaural speaker with an output of 0.3W • Pre-recording buffer that can record up to 2 seconds prior to starting recording • When a predetermined maximum file size is reached, a new file is created to continue recording • Track increment creates new files at arbitrary locations during recording • File name format can be set to use a user-defined word or the date • The first six characters of the file name for recording can be set freely • A chromatic tuner is equipped which is helpful for practicing musical instruments • Stereo mini headphone jack for external stereo microphones (provides plug-in power) / External line input • Stereo mini headphone line output / Headphone output connector 			3	

<ul style="list-style-type: none"> • 128×64 pixel graphic LCD with backlight • High-speed file transfer to a computer is possible using USB 2.0 • Mini USB cable included 	
Specifications:-	
Recording media	microSD card (64MB to 2GB), microSDHC card (4GB to 32GB)
File system	FAT16/32
File format	WAV(BWF), MP3
WAV/BWFSampling frequency	44.1kHz/48kHz/96kHz
WAV/BWF Quantization bit rate	16/24bit
MP3 Sampling frequency	44.1kHz/48kHz
MP3 Bit-rate for recording	32/64/96/128/192/256/320kbps
Playback bit rate	32 to 320kbps, VBR, ID3 tag Ver. 2.4
Number of channels	2-channel(Stereo)
Playback speed control (VSA)	0.5 to 1.5 times (in 0.1 increments) *44.1/48kHz only
Built-in microphone	Omnidirectional, stereo
MIC/EXT IN	
Connector	3.5mm (1/8") stereo mini jack, Unbalanced, Plug-in power
Input Impedence	25kΩ
Nominal Input Level	-20dBV
Maximum Input Level	-4dBV
PHONES/LINE OUT	
Connector	3.5mm (1/8") stereo mini jack, Unbalanced
LINE	
Output Impedence	12Ω
Nominal Output Level	-14dBV(10kΩ load)
Maximum Output Level	+2dBV(10kΩ load)
PHONES	
Maximum Output	20mW + 20mW(32Ω load)
Built-in speakers	0.3W, Mono
Low-cut filter	40Hz/80Hz/120Hz
USB	
Connector	Mini-B type
Format	USB2.0 HIGH SPEED
Chromatic tuner	C1 to B6, A4 = 435Hz to 445Hz (in 1Hz increments)
Tripod attachment screw-hole	1/4 inch, Tripod attachment screw-hole
Power	2 AA batteries,USB bus power,AC100 to 240V (Optional AC adapter)
Power consumption	1.7W (Max)
Battery operation time	
With alkaline batteries	Recording

			Approx. 10.5 hours (WAV, 96kHz, 24bit, using built-in microphone, JEITA), Approx. 17.5 hours (WAV, 44.1kHz, 16bit, using built-in microphone, JEITA), Approx. 16 hours (MP3, 44.1kHz, 128kbps, using built-in microphone, JEITA)		
			Playback : Approx. 19.5 hours (WAV, 44.1kHz, 16bit, using built-in speaker, JEITA)		
		With Ni-MH batteries	Recording		
			Approx. 10 hours (WAV, 96kHz, 24bit, using built-in microphone, JEITA), Approx. 15.5 hours (WAV, 44.1kHz, 16bit, using built-in microphone, JEITA), Approx. 13 hours (MP3, 44.1kHz, 128kbps, using built-in microphone, JEITA)		
			Playback : Approx. 16.5 hours (WAV, 44.1kHz, 16bit, using built-in speaker, JEITA)		
		Frequency response	20Hz to 20kHz +1dB/-3dB (Fs 44.1kHz, EXT IN to LINE OUT, JEITA), 20Hz to 22kHz +1dB/-3dB (Fs 48kHz, EXT IN to LINE OUT, JEITA), 20Hz to 40kHz +1dB/-3dB (Fs 96kHz, EXT IN to LINE OUT, JEITA)		
		Distortion	0.05% or lower (Fs 44.1k/48k/96kHz, EXT IN to LINE OUT, JEITA)		
		S/N ratio	92dB or higher (Fs 44.1k/48k/96kHz, EXT IN to LINE OUT, JEITA)		
5.	Photo & Video CC Editing Software (Yearly Subscription)	Features:- <ul style="list-style-type: none"> • Split view for building a look • Intuitive browser for Motion Graphics templates • Toggle animation for graphics layers in the Essential Graphics panel • Time code Panel • Shot comparison and colour matching • Better ways of working with Motion Graphics templates • Immersive Monitor • Gradient support for shapes and text layers • Replace clip for Motion Graphics templates • Video Limiter • Simultaneous work on multiple projects • Shared Projects with locking feature • Motion Graphics templates available in Adobe Stock • Immersive Video Titling and Graphics • Immersive transitions • After Effects Motion Graphics templates without After Effects install 		1	
6.	Carioid Dynamic microphone (Studio Microphone)	Features:- <ul style="list-style-type: none"> • Close-up vocal performance microphone sets price/performance standards for intelligibility, transparent sound quality and noise suppression 		5	

		<ul style="list-style-type: none"> • Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source • neodymium magnet for high output and articulate vocal reproduction • Two-stage ball-type head case for superior "pop" protection • on/off switch • Corrosion-resistant contacts from gold-plated XLRM-type connector • Rugged design and construction for reliable performance <p>Specifications:-</p> <table border="1"> <tr> <td>ELEMENT</td> <td>Dynamic</td> </tr> <tr> <td>POLAR PATTERN</td> <td>Cardioid</td> </tr> <tr> <td>FREQUENCY RESPONSE</td> <td>60-13,000 Hz</td> </tr> <tr> <td>OPEN CIRCUIT SENSITIVITY</td> <td>-55 dB (1.7 mV) re 1V at 1 Pa</td> </tr> <tr> <td>IMPEDANCE</td> <td>600 ohms</td> </tr> <tr> <td>SWITCH</td> <td>on/off</td> </tr> <tr> <td>OUTPUT CONNECTOR</td> <td>Integral 3-pin XLRM-type</td> </tr> <tr> <td>CABLE</td> <td>15.0' (4.5 m) cable with XLRF-type connector at microphone end, XLRM-type connector at equipment end</td> </tr> </table>	ELEMENT	Dynamic	POLAR PATTERN	Cardioid	FREQUENCY RESPONSE	60-13,000 Hz	OPEN CIRCUIT SENSITIVITY	-55 dB (1.7 mV) re 1V at 1 Pa	IMPEDANCE	600 ohms	SWITCH	on/off	OUTPUT CONNECTOR	Integral 3-pin XLRM-type	CABLE	15.0' (4.5 m) cable with XLRF-type connector at microphone end, XLRM-type connector at equipment end										
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7.	Compact powered speakers (pair) (Loud Speaker)	<p>Features:-</p> <ul style="list-style-type: none"> • 3" polypropylene-coated woofers for tight, accurate bass • 1" ferro fluid-cooled silk cone tweeters for clear, pristine highs • Opt Image III tweeter wave guides for superior imaging and detail • 10-watt-per-channel amplifier • Magnetic shielding for use near computer video monitors • RCA inputs for connecting gaming systems, DJ gear, mixers, and more • Front-panel 1/8" stereo auxiliary input for connecting your laptop or desktop computer, MP3 player, or other audio sources <p>Specifications:-</p> <table border="1"> <tr> <td>Type</td> <td>Two-way desktop reference speaker</td> </tr> <tr> <td>Low-Frequency Driver</td> <td>3" diameter, polypropylene-coated, magnetically shielded with high-temperature voice coil</td> </tr> <tr> <td>High-Frequency Driver</td> <td>1" diameter, magnetically shielded silk cone tweeter</td> </tr> <tr> <td>Frequency Response</td> <td>90 Hz – 20 kHz</td> </tr> <tr> <td>Crossover Frequency</td> <td>3.3 kHz</td> </tr> <tr> <td>RMS SPL</td> <td>101.5 dB @ 1 meter</td> </tr> <tr> <td>Signal-To-Noise Ratio</td> <td>> 90 dB (typical, A-weighted)</td> </tr> <tr> <td>Input Connectors</td> <td>Left and right RCA line input and 1/8" aux input</td> </tr> <tr> <td>Polarity</td> <td>Positive signal at "+" input produces outward low-frequency cone displacement</td> </tr> <tr> <td>Dynamic Power</td> <td>10 watts continuous, per channel into 4 Ω</td> </tr> <tr> <td>Input Impedance</td> <td>10 k Ω unbalanced, 20 k Ω balanced</td> </tr> <tr> <td>Input Sensitivity</td> <td>100 mV pink noise input produces 90 dBA output SPL at 1 meter with volume control</td> </tr> </table>	Type	Two-way desktop reference speaker	Low-Frequency Driver	3" diameter, polypropylene-coated, magnetically shielded with high-temperature voice coil	High-Frequency Driver	1" diameter, magnetically shielded silk cone tweeter	Frequency Response	90 Hz – 20 kHz	Crossover Frequency	3.3 kHz	RMS SPL	101.5 dB @ 1 meter	Signal-To-Noise Ratio	> 90 dB (typical, A-weighted)	Input Connectors	Left and right RCA line input and 1/8" aux input	Polarity	Positive signal at "+" input produces outward low-frequency cone displacement	Dynamic Power	10 watts continuous, per channel into 4 Ω	Input Impedance	10 k Ω unbalanced, 20 k Ω balanced	Input Sensitivity	100 mV pink noise input produces 90 dBA output SPL at 1 meter with volume control	1	
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		Protection	RF interference, output current limiting, over temperature, turn on/off transient, subsonic filter										
		Indicator	Blue power LED ring around volume knob on front panel										
		Power Requirement	100-120V/~50/60 Hz, 220-240V/~50/60 Hz; powered via attached 2-conductor line cord										
8.	Stereo 3.5mm headset (Head Set Microphone)	Features:- <ul style="list-style-type: none"> • Plug, Play and Perform • Plug-and-Play Versatility • Simplified Call Management • Wearing Style Choice • Lightweight Design • Outstanding Audio Quality • Comfort and Storage Specifications:- <table border="1"> <tr> <td>Connects to</td> <td>PC, Mac, smart phone or tablet via 3.5 mm</td> </tr> <tr> <td>Ideal for</td> <td>Users requiring plug-n-play PC telephony and who use their mobile device for conference calls</td> </tr> <tr> <td>Audio performance</td> <td>Microphone frequency response 100 Hz–10 kHz optimal for wideband voice telephony (up to 6,800 Hz), hi-fi stereo output from 20 Hz–20 kHz, noise-cancelling microphone</td> </tr> <tr> <td>Hearing protection</td> <td>SoundGuard: Acoustic limiting for protection against sounds above 118 dBa</td> </tr> </table>		Connects to	PC, Mac, smart phone or tablet via 3.5 mm	Ideal for	Users requiring plug-n-play PC telephony and who use their mobile device for conference calls	Audio performance	Microphone frequency response 100 Hz–10 kHz optimal for wideband voice telephony (up to 6,800 Hz), hi-fi stereo output from 20 Hz–20 kHz, noise-cancelling microphone	Hearing protection	SoundGuard: Acoustic limiting for protection against sounds above 118 dBa	20	
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9.	NLP Server with Software	Server with advanced speech recognition software for complete lab Features:- <ul style="list-style-type: none"> • Multi lingual facility • Lessons planning and Sharing to all, individual and groups of students • Lesson viewer for teacher and Students • Support all types of audio, video, text, images and html files • Virtual teacher assistants for all modules • Students can access lessons during teacher’s absence • Lesson pre assigning facility • Grouping and pairing facility • Study materials based on international learning system • Custom lesson creation and assigning facility • Online and offline access • Study materials created using British accent • Exercises for students in each modules • Questionnaire evaluation by software in each module • Pronunciation practice • Situational conversation practice for students • Listening practice for students • Writing Practice • Vocabulary • Reading practice • Speaking Practice • Dictionary with pronunciation Operating System:		1									

		<ul style="list-style-type: none"> Server - Microsoft Windows 2008 Server R2 Clients systems – Microsoft Windows or Linux 																						
10.	Voice Server	<p>E 1225/ 16GB/2x1TB SATA HDD/DVDRW/19"TFT/ M-Audio Vocal Studio Pro II : It consist of the following main Item</p> <p>/M-Audio M-Track Interface</p> <p>M-Audio large-diaphragm condenser microphone</p> <p>M-Audio studio headphones</p> <p>Ableton Live Lite Voice Over & Editing Software</p> <p>Waves plugin pack</p>	1																					
11.	Voice System	<p>Features:-</p> <p><u>USB Audio Interface:</u></p> <ul style="list-style-type: none"> (2) XLR+1/4" combo inputs with phantom power for recording vocals, guitars, bass, and more Zero-latency monitoring with USB/Analog Direct Balance control (2) Balanced 1/4" main outputs with dedicated level control Channel-specific LED VU meters provide real-time visual feedback of the audio signal Headphone out with independent level control for private recording and mixing USB-powered connectivity and solid metal construction for on-the-go use Studio-quality audio recording with up to 24-bit/48kHz resolution Includes Ableton Live Lite for recording, mixing, and producing music with your Mac or PC Use the included Waves plugin bundle (AudioTrack, Eddie Kramer Effects Channel, and TrueVerb) to add a professional finish to your production <p><u>Large-Diaphragm Condenser Microphone:</u></p> <ul style="list-style-type: none"> Top quality condenser transducer High sensitivity and low self-noise Built-in pre-amplifier circuitry for unrivalled sound performance Wide frequency response range <p><u>Studio Headphones:</u></p> <ul style="list-style-type: none"> Large 50mm neodymium drivers for accuracy Earcups rotate on two axes for optimal fit Padded headband for comfort 9.9-foot (3m) single-sided, coiled cable Right-angle, 1/8" gold-plated, threaded mini-plug connector Gold-plated, threaded 1/4" connector also included Built-in cable strain relief for long life <p>Specifications:-</p> <table border="1"> <thead> <tr> <th colspan="2">Large Capsule Condenser Microphone</th> </tr> </thead> <tbody> <tr> <td>Transducer Principle:</td> <td>Back Electret Condenser</td> </tr> <tr> <td>Directivity Characteristic</td> <td>Cardioid</td> </tr> <tr> <td>Frequency Response:</td> <td>30Hz - 20kHz</td> </tr> <tr> <td>Sensitivity:</td> <td>-38dB ±2dB (0dB=1V/Pa at 1kHz)</td> </tr> <tr> <td>Output Impedance:</td> <td>200Ω ±30% (at 1kHz)</td> </tr> <tr> <td>Load Impedance:</td> <td>≥1000Ω</td> </tr> <tr> <td>Equivalent Noise Level:</td> <td>≤22dB A (IEC 581-5)</td> </tr> <tr> <td>Max. Input SPL:</td> <td>140dB (THD ≤1.0% at 1kHz)</td> </tr> <tr> <td>Power Requirements:</td> <td>48V DC Phantom Power</td> </tr> </tbody> </table>	Large Capsule Condenser Microphone		Transducer Principle:	Back Electret Condenser	Directivity Characteristic	Cardioid	Frequency Response:	30Hz - 20kHz	Sensitivity:	-38dB ±2dB (0dB=1V/Pa at 1kHz)	Output Impedance:	200Ω ±30% (at 1kHz)	Load Impedance:	≥1000Ω	Equivalent Noise Level:	≤22dB A (IEC 581-5)	Max. Input SPL:	140dB (THD ≤1.0% at 1kHz)	Power Requirements:	48V DC Phantom Power	3	
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Preamp EIN:	-133 dBu (max gain, 40 Ω source, A-weighted)																																																															
Preamp EIN:	-126 dBu (max gain, 150 Ω source, unweighted)																																																															
Sensitivity:	-53 dBu																																																															
Gain Range:	55 dB																																																															
Line Inputs	1–2 (balanced 1/4" [6.35 mm] TRS)																																																															
Frequency Response:	20 Hz – 20 kHz (+/-0.1 dB)																																																															
THD+N:	0.004% (1 kHz, -1 dBFS)																																																															
Sensitivity:	-43 dBu																																																															
Gain Range:	55 dB																																																															
Inst Input	2 (unbalanced 1/4" [6.35 mm] TS)																																																															
Frequency Response:	20 Hz – 20 kHz (+/-0.1 dB)																																																															
THD+N:	0.022% (1 kHz, -1 dBFS)																																																															
Sensitivity:	-47 dBu																																																															
Input Impedance:	1 MΩ																																																															
Gain Range:	55 dB																																																															
Main Outputs,	L and R (impedance-balanced 1/4" [6.35 mm] TRS)																																																															
Frequency Response:	20 Hz – 20 kHz (+/-0.3 dB)																																																															
Dynamic Range / Signal-to-Noise Ratio:	102 dB (A-weighted)																																																															
THD+N:	0.008% (1 kHz, -1 dBFS)																																																															
Max Output Level:	+2.86 dBu																																																															
Power:	USB-bus-powered																																																															
Studio Headphones	32Ω impedance, 1,000mW power-handling capacity																																																															
Sensitivity:	102 ±3dB																																																															
THD:	<1% at 1kHz																																																															
12.	Audio (Voice Over) Editing Software	<p>Features:-</p> <ul style="list-style-type: none"> • Unique Session View for quick, intuitive composition, flexible performance and improvisation • Multitrack recording up to 32-bit/192 kHz • Non-destructive editing with unlimited undo • Powerful MIDI sequencing of software and hardware instruments • Advanced warping and real-time time-stretching • Unlimited Instruments, Audio effects and MIDI effects per project • Group tracks • Automatic plug-in delay compensation • MIDI remote control instant mapping • MIDI output to hardware synths • MIDI Clock/sync • WAV, AIFF, MP3, file support 	1																																																													

		<ul style="list-style-type: none"> 8 Audio and MIDI tracks 8 Scenes 			
13.	Programming Language, Anti-Virus and Official Package Software etc.	Package Software	As per requirement		
14.	MacBook Pro	Macbook Pro Apple Mac Book ProCore i7 / 16GB RAM/ 512 SSD/ Mac OS Sierra /2GB Graphic MPTV2HN/ A / 15" Sliver / 1.8KG	1		
15.	High End Touch Laptop	I7/ 16GB/ 512GBSSD/ IntelHDGraphics520/ 13.3FHD1920*1080/ Win10/	2		
16.	High End Server	Intel® Xeon® (2.1GHz/8-core/20MB/1866 Mhz 85W) ,12 DIMMS slots 1X16 GB DDR4, 8LFF (3.5inch) Hot Plug SAS/SATA, 1X300GB SAS (2.5 inch with 3.5 inch carrier) 10K RPM, RAID 0,1,5 (H730) + 1 GB Cache, DVD Writer, RPS 2X inbuilt (750W)	1		
17.	IMAC PC	iMac 27 Retina5K Quad Core -i5 3.5Ghz/ 8GB RAM/1TB HDD/	3		
18.	Workstation	Core i7 3.6 8M 4C/ 8GB DDR4 (1x8GB)/ 1TB/Intel HD Graphics/Win 10 Pro 64 bit/ GTX 1080 Ti 11GB Graphics / DVD-RW.	1		
19.	Desktop	Core i7 3.6 8M 4C/ 8GB DDR4 (1x8GB)/ 1TB/Intel HD Graphics/ DVD-RW/ 19"	20		
20.	High End UPS	10 KVA ONLINE UPS with 42AH*16	1		
21.	Storage Device	Dual Core 1Ghz Processor 1GB DDR3L/ USB 3.0 x3 (USB 2.0 x2 (Rear) 3.5" HDD tray with 2 (LFF disk) SATA 6Gb/s (backward compatible with SATA 3Gb/s) 1 GbE LAN (RJ45) x1 135 x 97 x 207 mm 2x2TB NAS Drive-	4		
22.	Battery Backups for Laptop/Macbook Pro	According to laptop compatibility	3		
23.	HD Block Camera	SPECIFICATION FOR HD CAMERA			
		1	Camera Parameters		
		2	Image Sensor	1/2.7" CMOS Sensor	
		3	Effective Pixel	2.07 Megapixel	
		4	Video Format	1080P60/59.94/50/30/29.97/25,1080I60/59.94/50,720P60/59.94/50/30/29.97/25, 480I60, 576I50	
		5	Zoom	20X Optical, 12X Digital	
		6	Focus	F=4.7 ~ 94mm	
		7	Horizontal of View	2.9°(T) ~ 60°(W)	2
		8	Min Illumination	0.05Lux (F1.8, AGC: ON)	
		9	Digital Noise Reduction	2D/3D Digital Noise Reduction	
		10	White Balance	Manual / Auto /ONE PUSH AE/3000K/5000K/6500K	
		11	Focus Mode	Manual / Auto	
		12	Aperture Mode	Manual / Auto	
		13	Back light compensation	ON/OFF	
		14	Flip	Support	

	15	Mirror	Support			
	16	WDR	OFF/ Dynamic grade Adjustment			
	17	Image adjustment	Brightness\ Hue, Saturation, Contrast, Sharpness			
	18	Interface				
	19	Video Output Interface	HDMI / 3G-SDI / RJ45 LAN			
	20	Video Compression Format	H.265/H.264/MJPEG, H.264 HP, H.264 SVC, H.263 +, H.263, H.261 Dual video streams H.239BFCP content exchange			
	21	Communication Interface	RS485/RS232/RJ45			
	22	Control Protocol	VISCA / PELCO -P / PELCO -D			
	23	Baud rate	2400/4800/9600/19200			
	24	Audio Interface	JEITA type (DC IN 12V)			
	25	Audio Compression format	G.711, G.722, G.722.1, G.728, G.722.1C AAC,MP3, PCM			
	26	LAN Interface	100M Rj45(10/100Base-TX), Support VISCA PELCO-P/D Control Protocol			
	27	Network Protocol	TCP/IP, HTTP, DDNS, RTSP, RTMP, PPPoE, SMTP, UPnP, SNMP, FTP(Optional)/ GB/T28281			
	28	Power interface	DC-038 Power Plug(DC12V)			
	29	Pan /Tilt				
	30	Pan Rotation	-173° ~ +173°			
	31	Tilt Rotation	-30° ~ +90°			
	32	Horizontal Moving Speed	0.1° ~ 100°/s			
	33	Vertical Moving Speed	0.1° ~ 80°/s			
	34	Presets	Max 255 Presets			
	35	Others				
	36	Power Adaptor	Input AC100V ~ AC240V/ DC12V @2A			
	37	Input Voltage	DC 12V			
	38	Power consumption	Max 12W			
	39	Storage temperature	-20° ~ +60°C /20%-95% Humidity			
	40	Working Temperature	-10° ~ +50°C /20%-80% Humidity			
	41	Application Environment	Indoor			
	42	Accessories	Power adapter/ RS232 Cable/2Pin RS485 Terminal/Remote Control/ User Manual/ Warranty Card			
	43	Optional parts	Installation Brackets			
	44	HDD	Recorder should be supplied with appropriate 1TB HDD			
	24.	HDD Based Digital Video Recorder	HDD Based Digital Video Recorder:-			1
			Video Standard	HD & SD		
			Video Format	1080p 23.97/24Hz, 1080i		

		50/59.94/60Hz, 720p 50/59.94/60Hz, 576i 50Hz, 480i 59.94Hz		
		Supported Video Input Signal	1x SDI	
		Monitoring/ Playback output	1x SDI (input loop thru), 1x HDMI, 1x SDI (Out)	
		Analog Audio Input & Audio Output	2x Balanced XLR (Stereo pair)	
		Embedded Audio	Both In & Out (8-CH on SDI/HDMI)	
		Storage Medium	2.5" Hard Drive / SSD*, Max capacity 1TB	
		Estimated Record Time (min per 10GB)	SD: 19 (50Mbps) ~ 70 (8Mbps) HD: 8 (125Mbps) ~ 62 (10Mbps)	
		How to Retrieve Recorded Content	Removable Hard Drive / SSD, transfer data via USB2.0	
		Storage File System	NTFS (read only)	
		Recorded File Format	MXF OP1A, MOV	
		Video Recording Bit Rate / Color Sampling	<p>MPEG2 Long GOP HD: 10Mbps 4:2:0 1440x1080/1280x720, 25Mbps 4:2:0 1440x1080/1280x720, 35Mbps 4:2:2 1920x1080/1280x720, 50Mbps 4:2:2 1920x1080/1280x720, 65Mbps 4:2:2 1920x1080/1280x720 120Mbps 4:2:2 1920x1080/1280x720</p> <p>MPEG2 Long GOP SD: 8Mbps 4:2:0 720x480/720x576, 15Mbps 4:2:2 720x480/720x576, 30Mbps 4:2:2 720x480/720x576, 50Mbps 4:2:2 720x480/720x576</p> <p>MPEG2 I-Frame Only HD: 80Mbps 4:2:2 1920x1080/1280x720, 100Mbps 4:2:2 1920x1080/1280x720, 125Mbps 4:2:2 1920x1080/1280x720</p> <p>MPEG2 I-Frame Only SD: 25Mbps 4:2:2 720x480/720x576, 50Mbps 4:2:2 720x480/720x576</p>	
		Audio Recording Format	Uncompressed PCM Sampling rate 48KHz 24bit	
		Time code	in/out Yes	
		External Sync	Genlock Black Burst & Tri-level with loop thru	
		Power failure protection	Content saved up to last 3 seconds or less before power failure	
		Two Nos. of HDD with Casing each one of 1TB should be provided in the Box with Required cable for importing files from HDD to Editing System	Yes	
		Chassis	Rack Mountable	
25.	SDHC Card	32GB SDHC Card		2
26.	All in One	Print Resolution 600x600dpi ,up to 1200x1200dpi and 9600x600dpi, 24		1

	Printer Color	bit Scan Resolution-CIS: 600x600dpi, up to 9600x9600dpi, Copy Resolution-600x600dpi, 999 Copies, Print Speed: 18ppm, 1GB RAM, FPOT: 10.9/12.0 seconds (Blk/Clr), FCOT: 12.0/14.0 seconds (Blk/Clr), Duty Cycle up to 30K Pages, Push & Pull Scan, UFR II, USB Direct, Send to SMB, E-mail, FTP, Department ID, Secure Print & Touch Screen, Original Cartridge-045 BK/C/M/Y		
27.	All in One Printer	Print Resolution of 600x600dpi, up to 1200x1200dpi, Scan Resolution-CIS: 600x600dpi, up to 9600x9600dpi, Print & Copy Speed: 23ppm (A4), 256 MB RAM, 10/100 Ethernet, USB, 250 + 1 Sheets Input &100 Sheets Output Tray, UFR II Support, CIS Scanner, Push & Pull Scan	6	
28.	Photocopy Machine	Electro photographic laser, Simitri HD polymerised tone, Up to 16 cpm, Up to 9.1 cpm, 8 seconds or less, 29 seconds or less, 600 x 600 dpi, 256 gradations, 1-99, Max. A3, 50-200% in 1% steps, 2in1, 4in1, Density adjustment, Sort/ group, ID card copy, TWAIN and WIA scan	1	
29.	High Resolution ADF Scanner	Media type supported : A3, A4, Legal, Letter, B5, B6, Business Cards Scan area size: Auto-feed: 863.6 mm (34 in.) / 63.5 mm (2.5 in.) Hand-feed: 863.6 mm (34 in.) / 50 mm (2 in.) (rear exit only) mm Optical scanning resolution: 600 Dpi dpi Scanning bit depth: colour- 100 / 150 / 200 / 240 / 250 / 300 / 400 / 500 / 600 dpi Paper capacity: 90 sheets ADF speed:90 ppm USB support	1	
30.	Network Switch	24G Switch Light Layer 3, 24x 10/100/1000 plus 2x 1000Mbps SFP, Customized operation using intuitive Web interface • Layer 3 static routing with 32 routes for network segmentation and expansion • Access control lists for granular security control • Spanning Tree Protocol : STP, RSTP, and MSTP	1	
31.	42U Server Rack with Accessories	<ul style="list-style-type: none"> • 42U Floor Standing Server Rack Size (600*1000)mm with front Glass & Rear MS Door with Castor (Set of 4 wheels) • Fan Tray with 4 Fans • PDU 05 Socket 5/15 Amp (Anchor with MCB) • Fix Tray 725mm • Sliding Keyboard Tray • Hardware Packet (Pack of 10) 	1	
32.	9U Server Rack with Accessories	<ul style="list-style-type: none"> • 9U Rack Wall Mount Size (550*400)mm • PDU 06 Socket 5 AMP • Cable Manager 1U-MS • Hardware Packet (Pack of 10) 	1	
33.	USB HDD	Backup Plus Slim Portable Hard Drive, Capacity: 2 TB, Connectivity: USB 3.0.	20	
34.	LED Projector	Projection System:	0.55" SVGA	2
		Native Resolution :	800x600	
		DC Type :	DC3	
		Brightness :	3600 ANSI lumens	
		Contrast Ratio With SuperEco Mode :	22000:1	
		Display Color :	1.07 Billion Colours	
		Light Source :	Lamp	
		Light Source Life (Nor/SuperEco) :	5000/15000	
		Lamp Watt :	190W	
Lens :	F=2.56-2.68, f=22-24.1 mm			

		Projection Offset :	120%+/-5%		
		Throw Ratio :	1.96~2.15		
		Image Size :	30" - 250"		
		Throw Distance :	1.19m-13.11m(100" @3.98m)		
		Keystone :	±40° (Vertical)		
		Optical Zoom :	1.1x		
		Audible Noise (Eco) :	29dB		
		Resolution Support :	VGA(640 x 480) to Full-HD(1920 x 1080)		
		HDTV Compatibility :	480i, 480p, 576i, 576p, 720p, 1080i, 1080p		
		Video Compatibility :	NTSC, PAL, SECAM		
		Horizontal Frequency :	15K~102KHz		
		Vertical Scan Rate :	23~120Hz		
		Interactive Camera :	NA		
35.	LED Screen	Size	32" 32BDL 3056Q	2	
		Diagonal screen size (metric)	80 cm		
		Diagonal screen size (inch)	31.5 inch		
		Panel resolution	1920x1080p		
		Optimum resolution	1920 x 1080 @ 60 Hz		
		Brightness	350 cd/m ²		
		Contrast ratio (typical)	1400:01:00		
		Dynamic contrast ratio	500,000:1		
		Response time (typical)	8 ms		
		Aspect ratio	16:09		
		Viewing angle (horizontal)	178 degree		
		Viewing angle (vertical)	178 degree		
		Pixel pitch	0.36375 x 0.36375 mm		
		Display colours	16.7 Million		
		DICOM	Clinical D-image		
		Screen saving functions	Pixel Shift		
		Energy saving functions	Smart Power		
		Tiled Matrix	Up to 15 x 15		
		Start-up	Switch on delay , Switch on status, Wake up on LAN		
		Start-up window	enable / disable Philips logo		
		Network controllable	RS232/ RJ45/ One Wire (HDMI-CEC)		
		Signal Loop Through	RS232/ IR Loop through		
Computer formats	640 x 480, 60, 67, 72, 75Hz/ 800 x 600, 56, 60, 72, 75Hz/ 1024 x 768, 60Hz, 1280 x 768, 60Hz, 1280 x 800, 60Hz, 1360 x 768, 60Hz, 1366 x 768, 60Hz, 1440 x 900, 60Hz, 1600 x 1200, 60Hz, 1920 x 1080, 60Hz, 1920 x 1200, 60Hz				
Video formats	480i, 60Hz/ 480p, 60Hz/ 576p, 50Hz/ 576i, 50Hz/ 720p, 50, 60Hz/ 1080i, 50, 60Hz / 1080p, 50, 60Hz				
Video input	DVI-D / HDMI / Component (RCA) /				

		VGA (Analog D-Sub)		
		Audio input	3.5 mm jack , Audio Left/Right (RCA)	
		Audio output	Audio Left/Right (RCA)/ 3.5mm jack	
		External control	RJ45 / RS232C (in/out) 2.5 mm jack / IR (in/out) 3.5 mm jack /	
		Other connections	USB	
36.	Rechargeable Batteries with Charges	Rechargeable Batteries	5	
37.	Online DG Set	Online DG Set 20KVA	1	
38.	Replacement Batteries	26H Batteries	1	
39.	AC (2KVA)	AC with Stabilizer(Atleast 3 star or above rating)	10	
40.	LAN Setup	LAN Setup	1	
41.	Voltage Regulator	AVR 20KVA Voltage Regulator preferably SERVO Stabilizer	1	
42.	Poly Cam Set	Video Conferencing P2P	1	
43.	Room Furniture & Fixture	Furniture and Fixture: (of standard quality) (All dimensions in mm) D-Depth, W-Width, H-Height, L-Length Size mentioned below may vary slightly Office Table-05No.(L1500xW750xH760); Office Chair-05No (D600XW525); Visitors Chairs-10No(H460 D580XW535), Conference Table-01(medium size for 12 persons), Conference chair-12No(Standard size), Cabinet-06No(H1290XW474XD620), Almirah- 10No(H1980XW910XD485), Book Shelf with Glass Door-05 No.(H1675XW838XD310), Computer Table-21No(L900XW600XH760), Computer chair-21No(Standard size), Server Rack -0i No(standard size). Class room Chair with Flip Board for writing-20 No(seat H830XH460X XD580XW535Xflip board H 665), Green Board-01No, White board - 02No. Teacher's Podium-02No(W600xD450xH1260).	Quantity as given	
44.	Civil Work- Sound Absorbing Tiles and fittings (including wall panelling and false roofing)	Sound Absorbing Tiles for phonetics lab (Room size LxBxH=7m x 7m x4m approx.) Material should of Standard and very good quality	one room	

ANNEXURE -III

FINANCIAL / PRICE BID

As per the BOQ