

CORRIGENDUM

IT IS INFORMED TO ALL THE CONCERNED THAT IN TENDER NOTICE NO. 45/2020-2021 SR. NO. OF TENDERS 01 i.e. RATE CONTRACT OF ELECTRONICS LAB SYSTEM ETC. DUE ON 15.01.2021, THE CONDITION MENTIONED IN ANNEXURE-1A AT SR. NO.13 HAS BEEN DELETED AND HENCE, REVISED SCHEDULE-'A' HAS BEEN UPLOADED & THE BIDDERS ARE REQUESTED TO SUBMIT THEIR BIDS ACCORDINGLY. OTHER TERMS & CONDITIONS WILL REMAIN THE SAME.

DATED:

06/01/2021


ASSTT. DIRECTOR, SUPPLIES & DISPOSALS
HARYANA

SUPPLIES & DISPOSALS DEPARTMENT, HARYANA
S.C.O. No. 09, 1st & 11nd Floor, Sector-16, Panchkula-134109 (Haryana)
Ph.:- 0172-2570121, 123, 124. Fax No.:- 0172-2570122.
e-mail:- supplies@hry.nic.in , website:- dsndharyana.gov.in

Online tenders are invited in two stage bid system i.e. Technical bid and Financial Bid as per the details given below in Schedule-A

REVISED SCHEDULE-A
(Effective w.e.f 16.12.2020)

Sr. No.	PARTICULARS	REMARKS
1	Tender Notice No.	45/2020-21
2	Sr. No. of Tender.	01
3	Superscribed No. of Tender.	64/HR/RC/E-4/2020-21
4	Online submission of EMD, Tender fee & e-Service Fee Option-1: Through Net Banking and Debit card	On or before last date of submission of Technical Bids upto 12:00 Noon
5	Online submission of EMD Option-2: Through RTGS/ NEFT- <i>(In case of above, the bidder has to pay Tender Fee & e-Service Fee Through Net Banking and Debit card as per the given date & time schedule)</i>	On or before 13.01.2021 Upto 02:00 P.M.
6	Online Bid Preparation & submission.	Upto 15.01.2021 at 02:00 P.M.
7	Date & time of opening of Technical Bids/s.	On or after 15.01.2021 at 02:30 P.M.
8	Date & time of opening of Financial Bids/s	To be decided later on
9	Tender Fee:	
	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 and for Startups/first generation Entrepreneurs as notified vide G.O. No.2/2/2016-4IB-II dated 03.01.2019	NIL
	(II) For remaining bidders both from the Haryana and Non Haryana	Rs. 5000/-
10	Earnest Money Deposit (EMD) required:	
	(I) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME -2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 and for Startups/first generation Entrepreneurs as notified vide G.O. No.2/2/2016-4IB-II dated 03.01.2019	NIL
	(II) Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana	NIL
	(III) For remaining bidders both from the Haryana and Non Haryana	2,00,000/-
11	E-Service Fee	Rs. 1000/-
12	Date and time of receipt of samples (if required)	On 15.01.2021 from 2:30 P.M. to 04:30 P.M.
13	Rates to be kept valid for acceptance upto:	30.06.2021

A. Information to Bidders:

i. The Bidders can download the tender documents from the Portal:
<https://etenders.hry.nic.in>

1. Date and Time of making payment of tender fee, earnest money deposit (EMD) and e-service fee is as under:

A	Online submission of EMD, Tender fee & e-Service Fee Option-1: Through Net Banking and Debit card	On or before last date of submission of Technical Bids upto 12:00 Noon
B	Online submission of EMD Option-2: Through RTGS/ NEFT- <i>(In case of above, the bidder has to pay Tender fee & e-Service fee Through Net Banking and Debit card as per the given date & time schedule)</i>	On or before 13.01.2021 Upto 02:00 P.M.

2. As the Bids are to be submitted online and are required to be encrypted and digitally signed, the Bidders are advised to obtain Digital Signature Certificate (DSC) at the earliest. For obtaining Digital Certificate, the Bidders should follow Point No.- 2 under "Instructions to bidder on Electronic Tendering System" and available in folder of "Tender Forms" available on following link <http://dsndharyana.gov.in/Portals/0/Tender%20form/Tender%20Forms%2016.12.2020.zip?ver=2020-12-18-122317-777> and for information about DSC at NIC Portal visit <https://etenders.hry.nic.in/nicgep/app?page=DSCInfo&service=page>
3. The Bidders shall have to pay for the Tender Documents Fee, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between bidders and online payment authorization networks.
4. The bidders must have Net Banking account in order to pay Tender Document Fee and e-Service Fee.
5. **Payment of Tender Fee:-** The payment for the Tender Document Fee shall be made by the interested bidder online directly through Net Banking with the available Banks at e-GRAS e-Payment Gateway.
6. **Payment of e-Service Fee:-** E-Service Fee payment shall be made separately by the interested bidders/ contractors online directly through Net Banking Account.
7. **Payment of EMD:-** The payment of EMD can be made through Net Banking or RTGS/ NEFT as per details at Para-2 above. In this regard please refer to "Instructions to bidder on Electronic Tendering System" available at the available in folder of "Tender Forms" on website : <https://dsndharyana.gov.in>
8. Intending bidders will be mandatorily required to sign-up online (create user account) on the website <https://etenders.hry.nic.in> to be eligible to participate in the e-Tender. In case the intended bidder fails to pay EMD fee under the stipulated time frame, he/she shall not be allowed to submit his/ her bids for the respective event/ Tenders.
9. In case of payment of EMD through RTGS/ NEFT, the interested bidders must remit the funds at least T+1 working day (Transaction + One Day) in advance i.e. on or before 13.01.2021 upto 2.00 P.M; and make payment via RTGS/NEFT to the beneficiary account number specified under the online generated challan. The intended bidder/ Agency thereafter will be able to successfully verify their payment online, and submit their bids

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on or before the expiry date & time of the respective events/ Tenders at <https://etenders.hry.nic.in>

10. However, the details of the EMD, Tender document Fee & E - Service Fee are required to be filled/ provided at the time of online Bid Preparation.
11. Online Technical Envelope—Reference details of the Earnest Money Deposit, Tender Document Fee & e - Service Fee instrument and scanned copies of supporting documents and QR/technical criteria with proper index and page numbering on all the documents have to be provided as per **Annexure-IA** of this document.
12. If the tenders are cancelled or recalled on any grounds, the Tender Document Fee and e-Service Fee will not be refunded to the bidder.

B. Brief Description of Procuring/ Rate Contract item:

Sr. No.	Description of Stores	Quantity/ e of Rate Contract	Estimated Cost Band (ECB) of Procuring/Rate Contract item	Place of Delivery
1	Purchase of Electronics Lab System:- 1. Digital Boards 2. Student Response System 3. Digital Labs 4. BYOD Technology Labs 5. Smart Podium 6. Audio Rostrum	Approx. Qty. 1960 Nos. 220 Nos. 220 Nos. 220 Nos. 50 Nos. 36 Nos.	On Two Years Rate Contract Basis.	Any Where in Haryana

The detailed technical specifications/description of the above stores are available at **Annexure-I** of this document.

C. Specific Terms & Condition/ Eligibility Criteria related to above Store:

Tender terms and Conditions	
1	Bidder should have a valid ISO 9001 & 14001 Certification
2	Bidder should have Ink Signed and Stamped Authorization in Original from the OEM and shall be submitted along with the Technical Bid. Original hard copy should be submitted before the due date and time of tender opening. Non compliance shall result in rejection of tender.

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3	Bidder is required to submit a sample of all the quoted models before the due date and time of tender opening. Non compliance shall result in rejection of tender. The tenderers should deposit the sample with the Sample Assistant in SCO No. 37, (Back side Basement) Sector-11, Panchkula on 15.01.2021 from 02.30 P.M. to 04:30 P.M. Old/belated sample shall not be considered.
4	Technical Catalogue of quoted product to be attached with the technical bid and same should be available on OEM website. Non compliance shall result in rejection of tender.
5	Annual Turnover: Bidder should have minimum average annual turnover of Rupees Forty Crore in the last three financial years. Audited Balance sheets should be submitted along with the tender. Non-compliance shall result in rejection of tender.
6	Warranty: The goods supplied should be with one year onsite warranty and should include delivery, onsite installation and onsite trainings.
7	Delivery & Installation of complete material needs to be completed at all locations strictly within 120 days of order. Failure to deliver stores within stipulated delivery period shall result in EMD being forfeited and also Vendor shall be blacklisted.
8	Payment Terms: 90% of Payment shall be made within 15 days of delivery of ordered stores & remaining balance 10% payment will be made within 15 days of successful installation.
9	Validity of prices should be for a period of one year from the date of tender opening.
10	The bidder should be at least three years old, relevant certificate / document must be submitted by the bidder.
11	The bidder must enclose a notarized certificate that the Organization has not been black listed by any institution of the Central/ State government / PSU/ University/ Institute etc. in the past three years.
12	The bidder should be a Proprietorship Firm/Partnership firm/Company . No consortium is allowed. Relevant declaration in the support of this statement must be submitted.
13	Only those Financial Bids will be opened and evaluated which are found to fulfill all the eligibility and qualifying requirements of this Tender.
14	The Bidder shall quote composite price inclusive of Supply, Installation, Testing, Commissioning, Training & all Taxes.
15	Bidder should quote for all components/ products as asked in the tender. Non compliance shall result in rejection of tender.

16	Instruction Manual: Bidder will provide instruction manual of all equipment mentioning list of functions & features as per technical specifications on or before bid submission date. Non compliance shall result in rejection of tender.
17	Video Manual: Bidder will provide Video Manual explaining technical specifications on or before bid submission date. Non compliance shall result in rejection of tender.
18	Local suppliers under Make in India initiative are eligible to apply as per Public Procurement (Preference to Make in India) order by Department for Promotion of Industry and Internal Trade, Government of India

Note: The format of the Technical Bid/ Index for the Technical Bid Documents will be as per Annexure-IA of this document and the bidders are requested to upload their Technical Bids on the Portal with index as provided in Annexure-IA.

In case of non submission of required Eligibility Documents as at Annexure-IA, the bid of the firm will not be considered and no further chance will be given for the submission of these documents. However, clarification, if any, of already submitted documents may be obtained in case required as per the rules.

D. Standard Terms and Conditions (wherever applicable these terms & conditions will overrule the specific terms and conditions as at Para 'C' above):-

1. All the annexure from 'Annexure-1 to 12' including 'Schedule-B of Supply' as part of this present DNIT are available as 'Tender Forms' at Link <http://dsndharyana.gov.in/Portals/0/Tender%20form/Tender%20Forms%2016.12.2020.zip?ver=2020-12-18-122317-777> or the same can be downloaded from home page of <http://dsndharyana.gov.in/en-us/> under 'Downloads' > 'Tender Form'.

2. Procurement of Stores through Rate Contract System:-

Where ever Government considers expedient that more than one supplier/ manufacturers should be kept on rate contract, it may so decide on case to case basis subject to conditions available at Annexure '1'.

3. EMD:-

The firms are required to deposit Earnest Money as indicated above failing which the tenders are liable to be rejected. Manufacturing Micro & Small Enterprises (MSEs) of the State, Startups/ First Generation Entrepreneurs of the State, Central or Haryana Public Sector Enterprises and "approved sources" as declared by the Industries Department, Haryana, are exempt from the deposit of EMD. The condition at Sr. No. 7 of "Instructions to Tenderers of the TENDER FORM" shall be deemed to be amended to this extent as per provisions contained at Para 13(i)(ii) of G.O. No.2/2/2010-4I-BII of dated 28.05.2010 (Annexure-2), Para no 3(A)(ii) of G.O. No. 2/2/2016-4I BII (1) of dated 20.10.2016 (Annexure-3) and Sr. No. 2 of the Table of G.O. No.2/2/2016-4IB-II dated 03.01.2019 (Annexure-4) (or as amended from time to time in this regard)

The condition at Sr. No. 6 of Annexure "A" - "Conditions with TENDER FORM" shall be deemed to be cancelled. (amendments with effect from may 28, 2010)

4. Performance Security:

The successful tenderer shall be required to deposit Performance Security Deposit as per provisions contained in Govt. of Haryana G.O. No. DGS&D/Admin/performance Security/2020/8780-8959 dated 14.12.2020 (Annexure-5) as under:-

Sr. No.	Type of Firm/Enterprises	Value of Performance Security Deposit
1	Haryana based firms:- (i) # Haryana Based Micro and Small Enterprises (MSEs) (ii) Haryana based other firms/enterprises	(i) @0.2% of the value of contract (ii) @2% of the value of contract
2	Other States/ UTs based firms <i># Haryana based MSEs will be eligible for performance security deposit @ 0.2% who have filed SSI Certificate/EM Part-II/Udyog Aadhaar Memorandum (UAM)/Udyam Registration in Haryana and who participate directly in the tendered/quoted items and offering to supply the entire Work/Supply Order by their enterprise.</i>	@3% of the value of contract

The conditions governing the above may kindly be seen in the notification dated 14.12.2020.

The performance security in excess of the EMD already deposited can be submitted in the shape of Demand Draft/Call Deposit Receipt/Banker's Cheque or in the shape of equivalent Bank Guarantee of any scheduled bank with branch in Chandigarh/ Panchkula. The condition at Sr. No. 8 of "Instructions to Tenderers of the TENDER FORM" shall be deemed to be amended to this extent as per provisions contained G.O. No. DGS&D/Admin/performance Security/2020/8780-8959 dated 14.12.2020 (Annexure-5) (or as amended from time to time in this regard)

5. Price Fall Clause:

Price fall clause will be as per condition no. 15 of "General Conditions of Supply" as available at Annexure-10. The same is that the price quoted in the tender/quotation or approved in the Rate Contract for the stores shall not exceed in any way the lowest price at which the tenderer quote for the supply the stores of identical description to DGS&D, New Delhi/ State Government Institutions/Undertakings/any other person during the delivery period/currency period of the rate contract. If, at any time during the delivery period/currency period, the successful tenderer reduces the rates/sale price of the quoted stores to any person at the price lower than the price chargeable under the supply order/ rate contract, the tenderers should forthwith notify such reduction and inform this office and the price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of the rates shall stand correspondingly reduced to that level. The successful tenderers shall promptly notify the reduction of rates to this office as well as to the concerned Indenting Officer/ Consignees. The tenderer shall also give a certificate on their bills that the rates charged by them are not in any way higher to

those quoted by them to the DGS&D, New Delhi and other State Government etc., during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments.

6. **Penalty to firm on Delay in delivery:** Should the contractor fail to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch stipulated in the supply order, the delayed consignment will be subject to 2% penalty per consignment per month recoverable on the value of the stores supplied. The other details will be as per provision contained in Sr. No. 14 of "Schedule-'B' Condition of Contract".
7. The bidders are required to quote the basic rates, the delivery/ transportation costs/ applicable GST and duties etc, and the place of billing for the supply of stores clearly and separately. The bidders are required to intimate the place of billing.
8. **Penalty Clause for Department/ Govt. Agencies for delay in Payment**

Delay in payments to the suppliers beyond the stipulated credit period indicated in the supply order, unless supported by cogent reasons and approved by a higher authority, will attract penal interest on the defaulting amount @ Rs. 25/- per rupees one lakh per day of delay beyond the stipulated credit period. Non provision of adequate budget will be no ground for delay in payments to the supplier. This is as per provisions contained at Para 17 of G.O. No.2/2/2010-4I-BII of dated 28.05.2010 (or as amended from time to time in this regard)

9. **Negotiation of Rates**

Regarding negotiations of rates, policy issued by the State Government vide G.O. No.2/2/2010-4-IB-II dated 18.06.2013 (**Annexure-1**), G.O. No.2/2/2010-4-IB-II dated 16.06.2014 (**Annexure-6**), G.O. No.2/2/2010-4-IB-II dated 09.02.2015 (**Annexure-7**) will be applicable.

10. **Concession to MSMEs of State:**

The State Government has notified "Haryana State Public Procurement Policy for MSME - 2016" vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 (**Annexure-3**) and amendment vide G.O. No. 2/2/2016-4IB-II dated 11.12.2019 (**Annexure-8**) which will be applicable in respect of concessions to Haryana based MSMEs and KVIs. For claiming the relevant concession/s like Tender Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof from Government authorities showing that they come under Haryana based manufacturing MSME/KVI units as the case may be e.g. *Entrepreneurs Memoranda in Haryana in bidder's name and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016.

***Note:-** To claim the concessions/benefits under the above policy, the bidder is required to submit Manufacturing Entrepreneurs Memorandum issued by the Industries Department Haryana in respect of the quoted item or Udyog Aadhaar Memorandum (UAM) of Haryana based manufacturing enterprises in respect of the quoted item (*Ref. Industries & Commerce Department Haryana Memo No.TS/DS&D/11389-A Dated 03.07.2018*) and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016 and amendments from time to time.

11. **Concession/benefits to Startups/First Generation Entrepreneurs of State:**

The State Government has notified “Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State” issued vide G.O. No. 2/2/2016-4I B-II dated 03.01.2019 (Annexure-4) which will be applicable in respect of concessions to Startups/First Generation Entrepreneurs of State. For claiming the relevant concession/s like Tender Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof as per the said policy.

12. In case of evidence of cartel formation by the bidder(s), the EMD is liable to be forfeited along with other actions as are permissible to Government like filing complaints with the Competition Commission of India and/ or other appropriate forums.

13. Purchase Preferences for approved Sources

The Director, Supplies & Disposals, Haryana, reserves the right to allow purchase preference to the approved sources, including Central or Haryana State Public Sector Undertakings/Enterprises, provided that such approved source takes part in the bidding process and the quoted prices of the approved source is within 10% of the lowest acceptable price, other things being equal. However, such purchase preference would be available to the approved source only at the lowest acceptable price. The latest list of Approved Source is contained in Government Order no. 6/03/2007-4IB-II dated: 14-02-2008 of the Industries Department and is subject to further amendment from time to time.

14. Penalty clause for rejected samples/ material offered by the Bidder:

In case, the material offered for inspection by the firm fails to meet the specifications stipulated in NIT/Order/Contract and the samples are rejected by the Inspecting Committee, the Indenting Department will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the Indenting Department will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd and final inspection also, the firm will be liable for penal action including forfeiture of security, risk purchase, debarring/ blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.

15. Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms:

A time bound Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms in the tendering process in the State Public Procurement will be governed by State Government Policy issued vide G.O No.2/2/2016-4I-B II of dated 25.07.2016 (Annexure-9). All the bidders/ firms who want to make any representation/ complaint against any issue related to their technical scrutiny of the bids may do the same within 5 working days (up to 05:00 P.M. of the Fifth Working day) of the date of issue of letter/ intimation regarding their **As per NIT/ Not as per NIT status**. They have to ensure that their communication is delivered/ reached within 5 working days and delay in postal will not be counted as a valid reason. No representation/ complaint in whatsoever manner from the bidders/ firms will be entertained after the opening of Financial Bid.

16. Preference to Make in India:- The public procurement in the State in reference to “Preference to make in India” shall be governed by Govt. Order No.02/08/2020-4IB-II dated 18.11.2020 (Annexure-11)

17. Restriction in Public procurement from bidders of certain Countries:- The restriction on procurement from bidders from a Country or Countries on grounds of Defense of India or matters directly or indirectly related thereto including National Security shall be governed by Govt. Order No.02/09/2020-4IB-II dated 10.12.2020 (Annexure-12).

18. Arbitration Clause

The Arbitration if any will be decided as per the provision contained at Sr. No.18 of “Schedule ‘B’ Conditions of Contract”

19. Jurisdiction

All disputes will be settled within the jurisdiction of the Head Quarters of Director, Supplies & Disposals, Haryana at Panchkula

E. OTHER TERMS AND CONDITIONS

1. The firms are required to mention bifurcation of their rates showing the detail of Basic Rates, GST, Duties etc. in their bid. In case, the supplies are delayed by the firm beyond the stipulated delivery period & there has been any upward revision in the rates of GST/ Duties ON THE CONTRACTED ITEM, no such increase will be allowed. However, if there has been any reduction in GST/Duties, the same will be availed. No variation in GST/ Duties on raw material will be applicable.
2. All documents to be submitted by the tenderers with their offer should be self attested in case the same are copies of original documents.
3. The Earnest money of the tenderers will be forfeited to Govt. account and blacklisting/ debaring besides other penal action, if they withdraw their offer/ rates or modify the terms & conditions of the same at any time during the validity of their offer before acceptance.
4. The authorized dealer should submit authority letter of their manufacturer, to quote the rates on their behalf failing which tender is liable to be rejected.
5. When manufacturer as well as its dealer/s both quote the rates in the same purchase case, then for the purpose of distribution of order, they will be considered as one offer & the order/rate contract will be placed on that firm only which has quoted lower rates among such offers & the offer is as per NIT.
6. The Bid i.e. Technical Bid as well as Financial Bid is to be submitted online on web portal <https://etenders.gov.in/eprocure/app>. The Technical Bids uploaded on the portal should have proper indexing and page numbering on all the documents forming the Technical bid. Any supporting documents if required is to be submitted in online mode only along with their Technical Bids by due date and time.
7. The Financial bid/s of only those bidders/ items will be opened who qualify on the basis of their Technical Bids and wherever required approval of samples. The date & time of opening of the Financial bids will be intimated in the due course.
8. The offer without prescribed Earnest Money, Tender Fee & E-Service fee is liable to be summarily rejected. The deficiency in the remaining documents and tender requirement can be made subject to the decision by Director, Supplies & Disposals, Haryana, Panchkula
9. The quantity of Stores can be increased or decreased.

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10. Notwithstanding anything contained in the Tender, Supplies & Disposals Department Haryana reserves the right to accept or reject any Bid, and to cancel the bid process and reject the Tender, at any time, without thereby incurring any liability to the affected Bidder or Bidders and without any obligation to inform the participating/affected Bidder (s) the reason for such decision.
11. Other terms & conditions as contained in various Annexure/ Documents as available under the folder "TENDER FORMS" as available at the link http://dsndharyana.gov.in/Portals/0/documents/Tender%20Forms%20SnD_11042019.zip?ver=2019-06-20-103057-847 or the same can be downloaded from home page of <http://dsndharyana.gov.in/en-us/> under 'Downloads' > 'Tender Form' form part of this DNIT.
12. Instructions to bidder on Electronic Tendering System.
Registration of bidders on e-Procurement Portal, Information about Digital Certificate, Instructions about Online Payment of Tender Document fee/e-Service Fee/Earnest Money, Important Instructions & Help manual for online bidding and other General issues option available on Home page of NIC e-procurement portal i.e <https://etenders.hry.nic.in>.

In case bidders need any clarifications or if training required to participate in online tenders they can contact office Timings of Help-desk support & Contract Details:-

The detail may be seen under "Contract US" option available on Home Page of NIC e-Procurement portal i.e <https://etenders.hry.nic.in>.

For support related to Haryana Tenders in addition to Helpdesk:-

In addition, For support related to Haryana Tenders in addition to helpdesk you may also contract to following:-

E - mail: eproc.nichry@yahoo.com

Desk: 0172-2700275

Assistant Director,
For & on behalf of Governor of Haryana

Annexure-I

The detailed Specifications of the Store items as mentioned in Para B of the Schedule-A/NIT are as under:-

Technical Specification of Digital Board:

Technical Specifications for Digital Board	
1	Technical Specifications of Digital Board
	Digital Board is a integrated solution including Cabinet (Cabinet with Multimedia Controller, Visual Presenter, Biometric Attendance Device, UPS with casing, Digital Clock & Wireless Keyboard and Mouse) , Touch Display with pre loaded Android based Digital Multimedia Content & USB Camera with inbuilt microphone.
A	Cabinet
	Cabinet
	Wall Mounted Lockable Enclosure to house , Multimedia Controller,Visual Presenter, Biometric Attendance Device,UPS with casing , Digital Clock & Wireless Keyboard & Mouse
	Material of Cabinet
	Powder coated CRCA Steel Sheet of minimum 1.2mm thickness
B	Multimedia Controller
	Ports on front Panel of Controller (Minimum)
	VGA,HDMI,USB3.0x2,Audio IN or more
	Buttons on front Panel of Controller (Minimum)
	Push buttons to control Volume Up& Down, Volume Mute and to switch sources of HDMI Visual Presenter,VGA Visual Presenter, HDMI Laptop,PC HDMI,VGA Laptop,VGA PC and Power On/Off or more
	Ports on Rear Panel of Controller (Minimum)
	USB 3.0 X 2,VGA Input x 2, VGA Output x 2, RCA Audio IN X 1,RCA Audio Output x 2,HDMI Inputx2,HDMI Outputx2 or more
C	Visual Presenter
	Type
	Portable
	Technology
	CMOS
	Image Capture Size
	Minimum A4 Size (210x297 mm)
	Native Resolution
	Full HD 1920 x 1080 or better
	Optical Zoom
	12x or better
	Digital Zoom
	8x or better
	Video Frame Rates
	30 FPS or better
	Focus Arrangement
	Auto Focus
	Camera Head Rotation Angle
	Camera head rotation angle-180 degree in horizontal and 180 degree in vertical or better
	Light Source
	White LED
D	Biometric Attendance Device
	Display
	Minimum 2.4" TFT Colour LCD touch Display
	Fingerprint Sensor
	Optical sensor for capturing fingerprints
	Failure Rate
	Recognition failure better then 0.001% & Acceptance failure better then 0.1%
	Recognition Speed
	Less then 1 second

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	Capacity	Minimum 3000 fingerprints
	Identification modes	EM Card, password & Fingerprint
	Communication	RS485,USB Flash Drive
	Permissions	Minimum 50 open time, 5 groups & 10 kind of combinations to open door.
	CPU	128 MHz or better
	Memory	128 KB RAM or better
	Compatibility	Android & Windows
	Power	DC 12V/1A
E	UPS	
	Power Back up	Solution should be supplied with minimum 1 KVA UPS with inbuilt batteries with minimum 15 minutes backup time with casing.
F	In -Built Digital Clock	
	Digital Clock	It should show the Time, Date, Day and Current Temperature
G	Keyboard & Mouse	
		Wireless Keyboard & Mouse
H	Touch Display	
	Technology	DLED Backlight (IPS)
	Display size (Diagonal)	65 inches or higher
	Aspect Ratio	16:9 or better
	Resolution	3840 X 2160 or higher
	Contrast Ratio	5000:1 or higher
	Brightness	600 cd/m ² or higher
	Display colour	8 bit-16 million colours or better
	Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1
	Output Ports (Minimum)	HDMI x 1, Audio x 1, SPDIF(optical)x1
	USB Ports (Minimum)	USB 2.0 Type A x 3, USB 3.0 Type A x 4, USB Type B for Touch x 2
	Camera Port	Dedicated USB Based Camera Port
	Camera Plate	Camera Plate on top for screw-in Camera installation
	Communication port	RJ45 x 1 Giga LAN Port
	Built In Speakers	2.1 Stereo Sound with in-built 20 Watt x 2 speakers and 15 Watt x 1 Sub-Woofer or better
	Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better
	Touch Technology	IR Recognition or better
	Touch Resolution	32767 x 32767 or better
	Touch Points	20 Points or Higher
	Writing Points	10 Points with automatically detect pen diameter (8mm & 2mm) and write simentanously with different colours and thiknesses.
	Pen Recognition	Dual Pen recognition with 2mm tipped pens at real-time lag free response rate.
	Split Screen	4 Way Split Screen content sharing software
	Touch on/Off	Should have touch on/off functionality

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Touch Response Time	15 ms or better
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Stylus/Pen Holder	Frame/Structure of IFPD should have inbuilt magnetic mechanism to hold upto two numbers of Stylus/Pen
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti Glare	Minimum 7 H hardness, scratch resistant, anti glare,anti-crack resistant
Software Features	Marker, Paint Brush, Highlighter, Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Different sizes available with Region eraser, Shapes,,Text, Generic consist of (shapes,3DShapes, Arrows & Tables), Integrated image search from internet, Search Light, Screen Curtain, inbuilt browser, screenshot, magnifier, calculator, soft keyboard, Clock, Stop Watch, Geometry Tools, Screen recording, integrated webcam, Desktop Annotation, White board with different backgrounds and colors, Cloud storage, Cloud Download,Page management system. Multiple numbers of images available with internet like nature, sport, Daily necessity, animals. ort documents/contents. Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone, New, Open, Save, Save as, Import & Export (PNG,JPG,PDF,PPTX,IWB), Print,Youtube Drag & Drop, Magnifier, Youtube integration, Canvas moving, Inbuilt Animation libraries, Follow me AI, Complete Ecosystem om mobile, web & PC, Google for Education partner, Casting in & Casting out from Remote locations via browser, Android &iOSApps,Multitouch enable or Disable, Switching between presentation &Preparation modes.
Save Option	Should have option to save directly to Google Drive and One Drive
Screen Mirroring, Wireless content sharing	Data from should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement. IFPD should allow user to share/mirror the content of Laptop/Desktop (Mac, Windows) and mobile device(ios,Android) wirelessly, Wireless presentation should allow user to access their Laptop/Desktop through IFPD.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
QR Code Scan	Should have file download feature in smart phone just by scanning the QR code
Video Conferencing Interface	Should support USB based PTZ cameras allowing Software based Video Conferencing
HDMI Out Mirroring (Extended Display)	Mirroring Capabilities deliver group discussion and spatial arrangement flexibility by allowing content to be mirrored on to two IFPD's simultaneously
Integrated Wireless and Bluetooth Module	It should be dual band (2.4Ghz and 5Ghz). It should deliver fast wireless internet connection for interactive displays. It should supports dual frequency of 2.4GHz and 5.0GHz bandwidth, along with the newest 802.11AC standard to provide up to 433Mbps transmission. It should also fast Bluetooth 4.0 connection with BLE (Bluetooth Low Energy) which saves power for one-to-one file and data transferring.
Certifications	BIS,CE,RoHS

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	Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Two Stylus, Wall mount bracket
	Power supply requirement	230V AC +/- 10%, 50 Hz
	Max Power consumption	Maximum 105 Watts
	InBuilt Android Hardware	
	CPU	Dual Core 1.2 GHz or Higher
	Memory	2 GB or Higher Storage
	Storage	16 GB or Higher
	Android Version	7 or higher
I	USB Camera with Inbuilt Microphone	
	Sensor	2 MP or better CMOS Sensor
	Resolution	1920 x 1080 or better
	Field of View	80 degrees or better
	White Balance	Auto, Manual
	Digital Noise Reduction	2D,3D Digital Noise Reduction
	Backlight Compensation	Should be available
	Built In Microphone	Stereo
	Interface	USB 2.0 or better
	WDR	Should be available
J	Android based Digital Multimedia Content	
	Course/Digital Content	Android Platform / Digital board should have preloaded high quality 2D/3D based educational content for all Classes with Voice Over in Hindi/English Language. The digital content should have Animations, Experiments, Key Points, Live Videos, Interactive Simulations & Work Sheets.
	Content	Subjects Coverage: Math, EVS, Science, Physics, Chemistry, Biology, Social Science (History, Civics, Geography, Political Science), Commerce (Economics, Accounts, Business Studies, Statistics) Computers, English Grammar, Hindi Vyakaran
	Medium	All content should be in both English and Hindi medium with transliteration of content text in Hindi for classes 1st to 8th
	Additional features required	Additional Content: Practice Assessments and Tests with instant feedback for Maths, Science and English for classes 1st to 8 th.
		A digital book library with different category of books and can also include state board or NCERT digital books as per requirement of the project.

2. Technical Specification of Student Response System:

Technical Specifications of Student Response System (SRS)		
S. No.	Parameter	Specification
1	Student's Clicker	
	RFID Module	2.4 GHz
	Power Function	Power button for Power ON/OFF
	Response Function	0-9, A-F, Yes/No Input and automatic switching
	Material	ABS with Polycarbonate
	Display	ID, Signal Intensity, Battery, Operation Instructions
	Backup	More than 60,000 of Answering or up to 12 months or more
	Communication Range	Upto 100 meters or more
	No. of clickers	50
2	Teacher's Clicker	
	Material	ABS+ Polycarbonate
	Response function	Page up/down, A-D, OK
	Display	ID, Signal Intensity, Battery, Operation Instructions
	RFID Module	2.4 GHz
	Communication Distance	Minimum 30 meters or better
	Next and Back Question change Support	Yes
	Lifeline Option Support	Yes
	Question Start and End Support	Yes
No. of Clickers	1	
3	Wireless Receiver Module	
	RFID Module	2.4 GHz
	Antenna	Dual Omnidirectional External Antenna
	Indicator Light	Red and Green indicator Lights
	Wireless Range	Minimum 30 meters or more
	Material	ABS
	Data Interface	USB Type B
Power	USB Power supply	
4	Required Operational features	
	General Features	SRS should be Integrated with Microsoft powerpoint
		User should be able to upload excel sheet for large no. users binding/ pairing at once
	SRS should support configurable binding/ unbinding of keypads as per user with Participants ID and name	

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	System should support Offline only Mode
	User should be able to Add/ Edit/ Delete Questions
	System should support Single Choice and Multiple Choice Questions
	System should support Yes/No Questions
	System should support Audience Polling (Yes/ No)
	SRS should support Voting Response
	SRS should Support Lifeline Response features
	Preset controlled participation Time
	Support quiz in powerpoint/slide-show related softwares
	Competition mode
	Team Leader Board
	Fatest responder with correct Answer
	Negative marking for questions
	Option to set time & marks for each question
	Report generation within software
Reports	Report question-wise
	Report participant-wise
	Report Summary
	Report Availability on Bar-chart format
	Report Availability in Pie- chart format
	Report availability in spread-sheet format
Compatibility	Compatible with Windows App
	Cross-compatibility with any desktop/laptop systems

3. Technical Specification of Digital Language Lab:

Technical Specifications for Digital Language Lab (Software and Hardware Setup)			
S. No.	Feature	Description/Specifications	Quantity
1	Student AIO Computer		20
	Display	21.5" or Higher LED Backlight IPS Panel	
	Native Resolution	Resolution of 1920x1080 or higher.	
	Contrast ratio	1000:1	
	Aspect Ratio	16: 09	
	Brightness	250 nits (cd/m2)	
	Audio	High Definition Audio	
	Webcam	2.0 MP Full HD Webcam with Pop-up privacy feature/Full HD Infrared Webcam (with Windows® Hello support)	
	CPU	Intel Core i3 Intel (10th gen or better) with minimum 3.0 Ghz base frequency	
	RAM	4 GB RAM or better	
	Hard Disk	1 TB or better	
	In-Built Wi-Fi / Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card	
	Ports (Minimum)	DP/HDMI x 1, USB 2.0 ports x 2, USB 3 ports x 2, LAN Port x 1	
	Standard Keyboard	Wired Keyboard	
	Optical Mouse	Wired Mouse	
	Operating System	Windows 10	
	Power supply unit	130 watts or better Internal Power Supply	
2	Furniture		
A	Modular Workstation - Students	<p>Frame Type- Free Standing SIZE : 750 L x 540 W x 750 H (mm) minimum Table top - 25mm thick pre-laminated particle board finished with 2mm PVC edge banding. Partition - 18mm thick pre-laminated particle board. Under-structure - 18mm thick pre-laminated particle board. Wire Management - Wire manager hole per workstation. The Booths should be in configuration of One Student Desk / Tables.</p>	20

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B	Chairs Students -	<p>Medium Back Chair, PU Molded Seat & Back Cushion, Fabric Tapestry in blue/ black colour, with PP/PU Arms & no wheels. Chair Height Overall- 825mm ± 10mm Backrest Height - 480mm ± 5mm Backrest Width - 415mm ± 5mm Seat Width - 440mm ± 5mm Seat depth - 450mm ± 5mm Frame Material - CRCA 25.4 x 1.8mm Powder Coated (minimum 40 micron) Plywood in seat & backrest minimum 12mm thick Density of PU Foam in Seat & Backrest 32 ± 5 Kg/Cu. Mtr.</p>	20
3	Online UPS		1 No.
	Phase	Single Phase with Ground	
	Capacity	6000 VA / 4800 W	
	Input		
	Nominal Voltage	200 / 208 / 220 / 230 VAC	
	Input Voltage Range	160-300	
	Frequency Range	50-60 Hz +/- 5%	
	Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)	
	Output		
	Output Voltage	220 / 230/240 VAC	
	Voltage Regulation	± 1%	
	Frequency Range (Synchronized Range)	47.5~ 52.5 Hz	
	Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz	
	Overload	105% - 110% 10 min., 110% - 130% 2 min., >130% 2 sec	
	Current Crest Ratio	3:1 Max	
	Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-Linear Load)	
	Transfer Time AC Mode to Battery Model	0 ms.	
	Transfer Time Inverter to Bypass	0 ms.	
	Waveform (Batt. Mode)	Pure Sinewave	
	Efficiency		

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	AC Mode (Overall)	88% or better	
	Battery Mode (Inverter)	83% or better	
	Battery		
	Battery Type	12 V / 26 AH	
	Numbers	16	
	Typical Recharge Time	8-9 Hours Recover to 90% Capacity	
	Charging Current (max.)	10% of Battery AH	
	Charging Voltage	216 VDC \pm 1%	
	Environment		
	Operation Temp	0 - 40°C (Battery Life Cycle will be Shorten When Temperature is Above 25°C)	
	Operation Humidity	<95 and Condensing	
	Noise Level	Less than 55 dB @ 1 meter	
	Management		
	Smart RS-232/USB	Supports Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8, Linux, Unix and MAC	
	Optional SNMP	Power Management from SNMP Manager and Web Browser	
4	Network Switch	24-Port 10/100MBPS, RJ45 Ports Auto Negotiation, Auto MDI/MDIX eliminates the need for crossover cables, Switching Capacity 4.8 GBPS, Packet forwarding rate 3.57 MBPS, MAC address Table: 8k, Jumbo Frame 2KB, Green Technology: Yes; Standards and Protocols: IEEE 802.3x	1 No.
5	Network Rack with electrical connectivity	19" Wall mount 4u rack, 400mm depth, single section with front toughened glass door, strong steel end, frame embedded at top and bottom with cable entry provisions, with lock & key, PDU 19" horizontal 6 way, universal socket 5 amp with on/off switch and indicator and 2.5 mtr cable and 3 pin plug.	1 lot
6	Cat6 23AWG UTP Cable	4 Pairs Unshielded Twisted Pair (UTP) Cable Solid Bare Copper Conductor Metal, Conductor Diameter: 0.560mm (23 AWG), Insulation: 0.970mm Diameter in HDPE, Cable Diameter: 6mm, with PE Central Cross separator.	1 Lot
7	Accessories for installation	Solution shall be provided with all cables, screws, fasteners, switch board, sockets, I/O face plates, connectors, electrical accessories, conduit, baton, flexible pipes, etc. as required for installation & optimum functioning of the Digital Lab.	2 Lot
8	Touch Display		
	Technology	DLED Backlight (IPS)	
	Display size (Diagonal)	65 inches or higher	

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Aspect Ratio	16:9 or better
Resolution	3840 X 2160 or higher
Contrast Ratio	5000:1 or higher
Brightness	600 cd/m ² or higher
Display colour	8 bit-16 million colours or better
Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1
Output Ports (Minimum)	HDMI x 1, Audio x 1, SPDIF(optical)x1
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Camera Port	Dedicated USB Based Camera Port
Camera Plate	Camera Plate on top for screw-in Camera installation
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Built In Speakers	2.1 Stereo Sound with in-built 20 Watt x 2 speakers and 15 Watt x 1 Sub-Woofer or better
Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better
Touch Technology	IR Recognition or better
Touch Resolution	32767 x 32767 or better
Touch Points	20 Points or Higher
Writing Points	10 Points with automatically detect pen diameter (8mm & 2mm) and write simultaneously with different colours and thicknesses.
Pen Recognition	Dual Pen recognition with 2mm tipped pens at real-time lag free response rate.
Split Screen	4 Way Split Screen content sharing software
Touch on/Off	Should have touch on/off functionality
Touch Response Time	15 ms or better
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Stylus/Pen Holder	Frame/Structure of IFPD should have inbuilt magnetic mechanism to hold upto two numbers of Stylus/Pen
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti Glare	Minimum 7 H hardness, scratch resistant, anti glare,anti-crack resistant

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Software Features	Marker, Paint Brush, Highlighter, Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Different sizes available with Region eraser, Shapes,,Text, Generic consist of (shapes,3DShapes, Arrows & Tables), Integrated image serach from internet, Search Light, Screen Curtain, inbuilt browser, screenshot, magnifier, calculator, soft keyboard, Clock, Stop Watch, Geometry Tools, Screen recording, integrated webcam, Desktop Annotation, White board with different backgrounds and colors, Cloud storage, Cloud Download,Page management system. Multiple numbers of images available with internet like nature, sport, Daily necessity, animals. ort documents/contents. Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone, New, Open, Save, Save as, Import & Export (PNG,JPG,PDF,PPTX,IWB), Print,Youtube Drag & Drop, Magnifier, Youtube integration, Canvas moving, Inbuilt Animation libraries, Follow me AI, Complete Ecosystem om mobile, web & PC, Google for Education partner, Casting in & Casting out from Remote locations via browser, Android &iOSApps,Multitouch enable or Disable, Switching between presentation &Prepration modes.
Save Option	Should have option to save directly to Google Drive and One Drive
Screen Mirroring, Wireless content sharing	Data from should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement. IFPD should allow user to share/mirror the content of Laptop/Desktop (Mac, Windows) and mobile device(ios,Android) wirelessly, Wireless presentation should allow user to access their Laptop/Desktop through IFPD.
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	Certifications	BIS,CE,RoHS	
	Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Two Stylus, Wall mount bracket	
	Power supply requirement	230V AC +/- 10%, 50 Hz	
	Max Power consumption	Maximum 105 Watts	
	InBuilt Android Hardware		
	CPU	Dual Core 1.2 GHz or Higher	
	Memory	2 GB or Higher Storage	
	Storage	16 GB or Higher	
	Android Version	7 or higher	
	Mini PC		
	Form Factor	Mini PC should be of 2 litres Volume or less	
	CPU	Intel Core i7 (9th Gen or better processor) with minimum 1.5 Ghz Base frequency	
	RAM	8 GB RAM	
	Hard Disk	1 TB or better	
	In-Built Wi-Fi / Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card	
	Ports (Minimum)	HDMI x 1, DP(Display Port) x 2, USB ports x 6, LAN Port x 1	
	Operating System	Windows 10	
9	SPECIFICATIONS OF DIGITAL LANGUAGE LAB PLATFORM WITH ENGLISH HINDI & SANSKRIT LANGUAGE CONTENT		
	Intercom	Two way intercom communication between Teacher & student. The communication should be through text, audio & Video.	
	Broadcast	Provision for teacher to broadcast text message to one student or to a group of selected students.	
	Audio Supervision	Provision for teacher to listen to any students recording & check their progress.	1
	Chat	Provision for teacher to send alerts to student through Text Chat or Audio Chat.	No.
	Assignments	Provision for Teacher to create assignments & broadcast to the class. Provision should be there to assign same/separate tasks to different group of students. There should also be provision to assign task to students with a start and expiry date.	

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Reports & Analysis	<p>The Teacher's Dashboard should have the following features:</p> <p>Details about all the classes assigned to the teacher's, Students performance report both in text as well as Graphical for various tasks assigned to various classes. Provision for generating various reports to check & analyse progress of students. The language lab software should automatically generate reports giving details about each individual learner's activities performed in terms of no. of exercises attempted, time spent on each such activity on a day-to-day basis. Each student's individual report should be available to the student as well as the teacher.</p> <p>The language lab software should also have reports that show the usage of the software by each of the instructor/faculty/teacher.</p> <p>The teachers should be able to view all the answers given (both correct and incorrect) given by the students during the practice sessions at any given time. They should also be able to listen to the recorded exercises of the students. Teacher should be able to give remarks to students on their audio recorded exercises both in text & audio formats.</p> <p>A centralized report should be available to the Administrators/Governing Bodies on the usage of content by both the instructors and students for all the language lab software licenses procured under this project. This should be web based and available to various stakeholders of the project. Provide Management with password protected login, should have the option to view the reports of both teachers and students in terms of scores, grades, graph/Bar/Pie in exercises.</p>	
AV Lessons	Provision for teacher to create personal audio video lesson contents. Provision for teacher to assign the pre-recorded lesson for future dates.	
E-exam	Paperless e-exam with automatic submission of answer sheets on completion of timelines.	
Audio modulation	Provision to automatically generate graphical representation on the recorded audio of the learner as against the originals for self assessment and evaluation.	
Multi Languages	The system should be compatible with multiple Languages, as content of multiple languages could be fed in to the platform. The content for all the languages English, Hindi & Sanskrit should be made available from the same dashboard and combined usage reports should be made available for all the three languages. Student should be able to use content of all the three languages from a single login ID. Enough exercises for practice should be available for all the three languages to the students.	

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Accent	The entire teaching - learning content should be in neutral accent.
License	The proposed software should have Life Time Perpetual License.
Secured Login	The main interface of the teacher with password protected login should have different options to teach effectively in a lively manner.
Management Login	Provide Management with password protected login, should have the option to monitor the real-time activities of both teachers and students and view various reports of scores, grades, performance graph/Bar/Pie in exercises, answer sheets, teacher and student attendance reports.
E-Books	The teacher should be able to upload PDF files (e-books) for the students to read and able to provide writing assignments to the students.
External Media	Provision for teacher to use any external storage device (USB, CD/DVD) to play or display the content files.
OS & Hardware Support	The Software should support on Windows, Linux, IOS & Android. The software should seamlessly work on Desktop/Thin/Zero Client System.
Mobile Apps	The software should have Android & IOS supported Mobile App where Teacher can assign activities, Student can do the assignments and Teacher can evaluate it.
English Multimedia Content Learning Levels	<p>The Language Lab Software should take into account the following features: -</p> <p>It should enhance the Communicative English skills of the students of class III to X. It should have 8 levels of learning:</p> <p>Ranging from Basic to Intermediate and Advanced with substantial content to hone the learner skills. The content should be as per the Common European Framework of Reference i.e. CEFR and should cater to all the 6 levels of CEFR viz. A1, A2, B1, B2, C1 & C2.</p> <p>CEFR Levels:</p> <ol style="list-style-type: none"> i. A1 Beginner ii. A2 Elementary iii. B1 Intermediate iv. B2 Upper Intermediate v. C1 Advanced vi. C2 Mastery <p>Content should purely be multimedia based and comprise of graphics, audio, video and should be highly interactive in nature.</p>
	<p>It should have content for strengthening all the four language skills: -</p> <p>Listening , Speaking, Reading & Writing</p> <p>It should have Model Imitation that should facilitate the student to listen to the exact pronunciation of a word and then record one's own and then compare both of them, thereby helping the student to recognize</p>

	<p>the error and amend the differences.</p> <p>The software should have capabilities of Listening, Recording and Comparing of Speech patterns both via audio and visual. The software should have speech spectrograph for graphical visualization.</p> <p>The software should be based on neutral (Indian) accent and should not use foreign accent.</p> <p>It should have jaw and tongue movement animations for all the sounds to facilitate learning of proper articulation of sounds.</p>
	<p>The software should consist of a glossary of words with correct pronunciation in the Indian context.</p> <p>The English language lab software should have components to work on</p> <ul style="list-style-type: none"> • Intonation • Word stress • Syllables <p>The English language lab software should cater to the basics of English grammar using animated situations and related practice exercises.</p> <p>It should be user friendly so that faculty can take classes with minimal of technical knowledge.</p>
Teaching Pedagogy (Methodology)	<p>The English language lab software should have the following features for proper teaching – learning of English language skills by both the faculty and the students.</p> <p>It should be based on the ‘Blended Learning’ mechanism, i.e. It should have Instructor Lead Teaching (ILT/ Classroom teaching) content as well as Computer Based Training (CBT/Lab practice) content.</p> <p>The software should have predefined lesson plans with detailed breakup of each session of approximately 30 minutes each.</p> <p>The Instructor/ Faculty / Teacher should be able to create tasks for students to perform in the language lab at a later time which can be pre-defined. The Instructor / Faculty / Teacher should have the option to assign the same task to all the students and/or different tasks to different students of the same batch.</p>
Sounds	The language software should provide proper articulation for all 44 sounds of English using animation.
MTI	Should have a Mother Tongue Influence (MTI) removal tool
Self Assessment	Provision for self assessment& send the exercise to teacher for evaluation at conclusion of every module / lesson plan.
Pronunciation	Provide sample lessons, words, pronunciation sounds, videos, comparison& assessment tools for proficiency in English pronunciation.

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Comprehension	Provide lesson plan with focus on expressions, situational dialogues, comprehension, exercises with comparisons & assessment.
Resource Material & Training	Training should be imparted for one day (6 hours) and training modules should include: - <ul style="list-style-type: none"> • Training on usage of all the features of the language lab software • Training on the various aspects of language on its teaching pedagogy Proper detailed trainer manuals to be provided for each level on the delivery mechanism. It should be in depth with minute to minute description of the teaching procedures. Classroom reference material in the form of Flash/ Cue Cards too should be made available for each session. In depth trainer videos should be made available in the software for the teacher to refer to. These videos should also be made available to the teachers using a mobile app which should be compatible with Android and IOS smart phones. Students reference material / workbooks in accordance to the software should be made available
Student Material	Students material in the form work books for each level should be available. This material should be integrated with the content.
Pre Recorded media	Provide Audio / Video recorded files from Poetry Masters, Writers, Speeches, Lectures, Documentary, Movies, News, etc. to improve comprehension of language.
Hindi Multimedia Content	Multimedia content covering Hindi Vowels and Consonants, Combination of letters, Commonly used Words, Greetings, etc.
Hindi through English	Content for learning Hindi Alphabets, Pronunciation, Anuswara& Nasalization, Accent, Pronouns & Nouns, Adjectives & Verbs, Tenses, Adverbs, Conjunctions, Voice & Construction, Order of Words, Standard Devanagari Script, Standardisation of Hindi Spelling
Hindi Literature	Content with reference to Hindi literature, poetry, poems, etc.
Hindi Grammar	Content for covering all components of Hindi grammar like: Alankar, Chand, Pad Parichay, Vachay, Idioms, Synonyms, etc.
Picture Gallery	Multimedia gallery in hindi for relating to day to day things like: Animals, Body Parts, Colours, Communications, Costumes, Festivals, Muscial Instruments, Religious, Professionals, Relations, Sports, Stationary, Trees, Universe, Week, etc.
Knowledge bank on Indian Culture & Heritage	Knowledge bank having details on Indian culture & heritage, sharing knowledge about: Indian Geography, Economy, Vedas, Upanishad, Ramayana, Mahabharata, ShrimadBhagvataGeeta, other Literatures, Dance, Music, Ayurveda, Yoga, Spirituality, Food, etc.

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Sanskrit language content concept	Software to help in learning Sanskrit from basics and go on to making simple sentences. Introduction to concepts, skills and a section to self - assess your learning. Self-paced, activity based learning software, contains 250+ activities.
Vocabulary Builder	Provide flash card based learning Should have multiple categories with 200+ words and synonyms. Provide meanings for words in English and Hindi. Categories should include Sanskrit words for Gods, Animals, Birds, Fruits, Vegetables, Parts of the body, Colours, Food, Relations, Professions, Emotions, Public Places, Sports, Grains, Computer, Musical Instruments, Time, Natural Occurrences and many more. Provide Brain Games for exercising Sanskrit.
Sanskrit Language Lesson Plan	Lesson plan covering noun forms, 200+ sanskrit words, Learning mode and the Practice mode. Covering Sanskrit Sandhis through animations, charts, tables, interactive exercises, examples and games. Practice the language skills (LSRW) Build your Vocabulary for using the language. Master your communication skills. Build and Re-inforce Foundation in grammar. Apply Language skills + Grammar through simple text and for school.
Licensed User Terminals	License to be provided for 20 terminals

4. Technical Specifications of BYOD Technology Lab:

Technical Specification of BYOD Mobile Technology Lab			
	Parameters	Specifications	Qty.
1	Student Tablet		20
	Processor	2.0 GHz or better	
	Operating System	Android 9.0 or better	
	Memory	2 GB LPDDR3 or better	
	Battery	Up to 8.5 hours or more	
	Display	10 " HD (1280 x 800) IPS display or better	
	Storage	16 GB internal storage	
	Connectivity	IEEE 802.11a/b/g/n/ac	
	Cameras	2 MP front and 2 MP rear cameras	
	Audio	Should have front-facing speaker with Dolby Audio or better	
	Ports	Micro SD slot, combo audio jack	
	Accessories:		
	Storage	Should have minimum 64 GB Micro SD Card or more	
	Ear Phone	Should be supplied with Earphone	
Screen protection	Should be supplied with Screen Guard / Tempered Glass		
Cover	Protective book cover for Tablet should be supplied		
2	Auto Charging Trolley		1
	Capacity	Minimum 20 Tablet	
	Charging & safety	Multiple Tablets should be charged simultaneously and should be locked together safely in a charging cart	
	Power stabilizing	Charging cart should have power stabilizing facility	
	Accessories Storage	Charging cart should have space to keep the accessories including headphones	
Portability	Charging Trolley should have movable castor wheels		
3	Android Based Digital Multimedia Content		20
	Content	Should have integrated Educational content	
	Offline working	Education content should be available offline on SD Card placed inside the Tab	
	Reports	Report generation feature should be available	
	Password	User password option must be available	

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Content integration	Content should be integrated with different categories of learning content including videos, projects, a digital book library and practice assessments, tests with student wise reports in offline mode
Offline Learning Management System	Multi category platform bringing together different types of content on the same dashboard. Enables students to access content of junior classes Auto sync to reporting dashboard with offline reports on the tablets
Reporting	Student wise usage and learning reports saved offline Sync to a cloud based reporting dashboard Easily downloadable reports with graphical analytics
Course/Digital Content	Android Platform / Digital board should have preloaded high quality 2D/3D based educational content for all Classes with Voice Over in Hindi/English Language. The digital content should have Animations, Experiments, Key Points, Live Videos, Interactive Simulations & Work Sheets.
Content	Subjects Coverage: Math, EVS, Science, Physics, Chemistry, Biology, Social Science (History, Civics, Geography, Political Science), Commerce (Economics, Accounts, Business Studies, Statistics) Computers, English Grammar, Hindi Vyakaran
Medium	All content should be in both English and Hindi medium with transliteration of content text in Hindi
Additional features required	Additional Content: Practice Assessments and Tests with instant feedback for Maths, Science and English for classes 1st to 8th.
	A digital book library with different category of books and can also include state board or NCERT digital books as per requirement of the project.
Reporting Platform	Integrated usage reports on each device with auto sync to a central project reporting dashboard.
	The usage reports should sync to a central dashboard whenever the devices connect to internet. It ensures all usage data to periodically be auto collected to a central database and reports can be made available to project monitoring team regularly via web-based dashboard.
4	Furniture

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5	Modular Workstation - Students	<p>Frame Type- Free Standing SIZE : 750 L x 540 W x 750 H (mm) minimum Table top - 25mm thick pre-laminated particle board finished with 2mm PVC edge banding. Partition - 18mm thick pre-laminated particle board. Under-structure - 18mm thick pre-laminated particle board. Wire Management - Wire manager hole per workstation. The Booths should be in configuration of One Student Desk / Tables.</p>	20
	Chairs - Students	<p>Medium Back Chair, PU Moulded Seat & Back Cushion, Fabric Tapestry in blue/ black colour, with PP/PU Arms & no wheels. Chair Height Overall- 825mm ± 10mm Backrest Height - 480mm ± 5mm Backrest Width - 415mm ± 5mm Seat Width - 440mm ± 5mm Seat depth - 450mm ± 5mm Frame Material - CRCA 25.4 x 1.8mm Powder Coated (minimum 40 micron) Plywood in seat & backrest minimum 12mm thick Density of PU Foam in Seat & Backrest 32 ± 5 Kg/Cu. Mtr.</p>	20
	Touch Display		
	Technology	DLED Backlight (IPS)	
	Display size (Diagonal)	65 inches or higher	
	Aspect Ratio	16:9 or better	
	Resolution	3840 X 2160 or higher	
	Contrast Ratio	5000:1 or higher	
	Brightness	600 cd/m ² or higher	
	Display colour	8 bit-16 million colours or better	
	Input Ports (Minimum)	HDMI x 3, RGB/VGA x 1, Audio x 1, PC slot x 1, RS232x1	
	Output Ports (Minimum)	HDMI x 1, Audio x 1, SPDIF(optical)x1	
	USB Ports (Minimum)	USB 2.0 Type A x 3, USB 3.0 Type A x 4, USB Type B for Touch x 2	
	Camera Port	Dedicated USB Based Camera Port	
	Camera Plate	Camera Plate on top for screw-in Camera installation	
	Communication port	RJ45 x 1 Giga LAN Port	
	Built In Speakers	2.1 Stereo Sound with in-built 20 Watt x 2 speakers and 15 Watt x 1 Sub-Woofer or better	
	Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees or better	
	Touch Technology	IR Recognition or better	
	Touch Resolution	32767 x 32767 or better	

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Touch Points	20 Points or Higher
Writing Points	10 Points with automatically detect pen diameter (8mm & 2mm) and write simentanously with different colours and thiknesses.
Pen Recognition	Dual Pen recognition with 2mm tipped pens at real-time lag free response rate.
Split Screen	4 Way Split Screen content sharing software
Touch on/Off	Should have touch on/off functionality
Touch Response Time	15 ms or better
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Stylus/Pen Holder	Frame/Structure of IFPD should have inbuilt magnetic mechanishm to hold upto two numbers of Stylus/Pen
Networking	DHCP (Auto identification) and Static IP supported
Hardness, Anti Scratch, Anti Glare	Minimum 7 H hardness, scratch resistant, anti glare,anti-crack resistant
Software Features	Marker, Paint Brush, Highlighter, Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Different sizes available with Region eraser, Shapes,,Text, Generic consist of (shapes,3DShapes, Arrows & Tables), Integrated image serach from internet, Search Light, Screen Curtain, inbuilt browser, screenshot, magnifier, calculator, soft keyboard, Clock, Stop Watch, Geometry Tools, Screen recording, integrated webcam, Desktop Annotation, White board with different backgrounds and colors, Cloud storage, Cloud Download,Page management system. Multiple numbers of images available with internet like nature, sport, Daily necessity, animals. ort documents/contents. Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone, New, Open, Save, Save as, Import & Export (PNG,JPG,PDF,PPTX,IWB), Print,Youtube Drag & Drop, Magnifier, Youtube integration, Canvas moving, Inbuilt Animation libraries, Follow me AI, Complete Ecosystem om mobile, web & PC, Google for Education partner, Casting in & Casting out from Remote locations via browser, Android &iOSApps,Multitouch enable or Disable, Switching between presentation &Prepration modes.
Save Option	Should have option to save directly to Google Drive and One Drive

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Screen Mirroring, Wireless content sharing	Data from should be shared wirelessly on multiple Phones/Tablets without any other hardware requirement. IFPD should allow user to share/mirror the content of Laptop/Desktop (Mac, Windows) and mobile device(ios,Android) wirelessly, Wireless presentation should allow user to access their Laptop/Desktop through IFPD.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
QR Code Scan	Should have file download feature in smart phone just by scanning the QR code
Video Conferencing Interface	Should support USB based PTZ cameras allowing Software based Video Conferencing
HDMI Out Mirroring (Extended Display)	Mirroring Capabilities deliver group discussion and spatial arrangement flexibility by allowing content to be mirrored on to two IFPD's simultaneously
Integrated Wireless and Bluetooth Module	It should be dual band (2.4Ghz and 5Ghz). It should deliver fast wireless internet connection for interactive displays. It should supports dual frequency of 2.4GHz and 5.0GHz bandwidth, along with the newest 802.11AC standard to provide up to 433Mbps transmission. It should also fast Bluetooth 4.0 connection with BLE (Bluetooth Low Energy) which saves power for one-to-one file and data transferring.
Certifications	BIS,CE,RoHS
Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Two Stylus, Wall mount bracket
Power supply requirement	230V AC +/- 10%, 50 Hz
Max Power consumption	Maximum 105 Watts
InBuilt Android Hardware	
CPU	Dual Core 1.2 GHz or Higher
Memory	2 GB or Higher Storage
Storage	16 GB or Higher
Android Version	7 or higher
Android based Digital Multimedia Content & Platform	
Course/Digital Content	Android Platform / Digital board should have preloaded high quality 2D/3D based educational content for all Classes with Voice Over in Hindi/English Language. The digital content should have Animations, Experiments, Key Points, Live Videos, Interactive Simulations & Work Sheets.

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Content	Subjects Coverage: Math, EVS, Science, Physics, Chemistry, Biology, Social Science (History, Civics, Geography, Political Science), Commerce (Economics, Accounts, Business Studies, Statistics) Computers, English Grammar, Hindi Vyakaran
Medium	All content should be in both English and Hindi medium with transliteration of content text in Hindi for classes 1st to 8th
Additional features required	Additional Content: Practice Assessments and Tests with instant feedback for Maths, Science and English for classes 1st to 8th.
	A digital book library with different category of books and can also include state board or NCERT digital books as per requirement of the project.
Reporting Platform	Integrated usage reports on each device with auto sync to a central project reporting dashboard.
	The usage reports should sync to a central dashboard whenever the devices connect to internet. It ensures all usage data to periodically be auto collected to a central database and reports can be made available to project monitoring team regularly via web-based dashboard.

5. Technical Specifications of Audio Rostrum:

Technical specifications of Audio Rostrum	
Parameters	Specifications
Construction	Wooden Top Assembly should be available with 1 Gooseneck Phantom Powered Microphone and 1 LED Lamp. It should have Metallic Base supporting the whole system and balancing the overall weight uniformly.
Speaker Stand	Should have inbuilt Speaker Stand consists of minimum 3 Speakers on front side.
VHF Wireless Mic	Two VHF wireless handheld microphones of 10 Metres range
Gooseneck Microphone	Available
Gooseneck Lamp	Available
In-Built Speakers	Two speakers of 40 watt each with 20 watt sub-woofer
Output Wattage	100W
Input/ Output	One Line RCA input, One Microphone Input, 1 Line RCA Output.
Input Sensitivity	Microphone1: 10MV/680Ω, Microphone2: 10MV/600Ω, Aux: 350MV/10KΩ
Pre-Output	1V/0dB
Digital Amplifier	Class-D
Audio Format Support	Mp3
Maximum Support Capacity	Dedicated USB port and Micro SD slot with minimum 32GB drive capacity support
Sound Quality Control	Bass 10dB/Treble 10dB
Frequency Response	100-16KHz(+1dB,-3dB)
Wireless Transmission Distance	10-15 Meter or better
Antenna Integration	Support for two Dedicated Wireless UHF high gain antennas
Power Supply	AC 220V / 50Hz
Power Consumption	140W or better
Logo	Should available proper space to fix the department/school logo on Front side.
Audio Receiver Functionality	Support to play loss less audio, LCD screen, support to display Audio track name -Minimum function modes: USB / PLAYING / Bluetooth / FM -Should have options for playback and recording -Should have LCD screen - Should have wireless remote control - Long press mode selection button to automatically switch on and off - Support USB disk, Mico SD card function, read storage media below 32G, support MP3/WAV/ WMA/ AEC/FLAC format decoding - With USB disk / Micro SD card to play the current track memory function and the current function mode two kinds of memory - Support mobile phone Bluetooth function, can play audio from mobile wirelessly

6. Technical Specifications of Smart Podium:

Technical Specification of Smart Podium		
S. No.	Parameters	Specifications
1	Type/Mounting	Free Standing
2	Construction	The enclosure should be made of Polycarbonate/Metal Body and Steel Frame with Soft wheels. The Top sliding(Opening/Closing) cover should be made of Polycarbonate Body. The construction of the podium should be such that, while the podium is locked and not in use, there should not be any port exposed on the outer body for breakage/mishandling.
3	Display	Built-in highly sensitive Interactive Panel with adjustable Motorized tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -
(a)	Technology	Interactive Panel should have both EMR (Electro magnetic resonance) & P-CAP touch technologies to have finger and 2 mm thick touch stylus
(b)	Screen Type	LED
(c)	Size	53.0 cm (21 inches) or higher
(d)	Resolution	1920 x 1080 or higher
(e)	Aspect ratio	16:09
(f)	Computer interface	One USB, One VGA/DVI/HDMI Port
(g)	Interactive Resolution	4000 Lpi (lines per inch)
(h)	Response Time	5ms
(i)	Viewing Angles	170(H) ; 160(V)
(j)	Touch	Finger and Stylus
(k)	Reading accuracy	±0.5 mm (center)
(l)	Tracking speed	Approximately 200 points per second
(m)	Pen Pressure sensitivity	1024 Levels
4	System Details	
(a)	Processor	Intel Core i3 (8th Gen or better processor) with minimum 3.0 Ghz Base frequency
(b)	Small Form Factor	Computer should be of 2 liters Volume or less
(c)	In-Built Wi-Fi /Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card
(d)	RAM	4 GB
(e)	Hard Disk	1 TB or better
(f)	Ports (Min.)	HDMI x 1, DP(Display Port) x 2, USB ports x 6, LAN Port x 1

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(g)	Keyboard & Mouse	Wireless
(h)	Operating System	Windows 10
(i)	Antivirus	Norton Anti Virus/Mcafee or equivalent with 1 year license
5	Multimedia Controller	
(a)	Ports on front Panel of Controller (Minimum)	VGA,HDMI,USB3.0x2,Audio IN, Input Power Point or more
(b)	Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up&Down,Volume Mute and to switch sources of HDMI Visual Presenter,VGA Visual Presenter,HDMI Laptop,PC HDMI,VGA Laptop,VGA PC and Power On/Off or more
(c)	Ports on Rear Panel of Controller (Minimum)	USB 3.0 X 2,VGA Input x 2, VGA Output x 2, RCA Audio IN X 1,RCA Audio Output x 2,HDMI Inputx2,HDMI Outputx2 or more
(d)	Power	5 V DC (Suitable Adaptor should be supplied with controller)
6	Built in devices	
(a)	Gooseneck Microphone	Gooseneck Microphone with XLR output.It should be Phantom powered so that there is no requirement of batteries thereby eliminating consumable cost.The gooseneck length should be atleast 21.5cm with ON/OFF switch and with LED light indicating ON/OFF status.The gooseneck microphone shall be permanently polarisedcondensor,highly directional featuring hypercardioid /lobar directivity.
(b)	Amplifier	250 Watts minimum
(c)	Speakers	Two speakers of Minimum 100 W each shall be a part of standard supply.
(d)	Wireless Microphone Units	One handheld Microphone and One Lapel Microphone with single receiver should be supplied with a range of 10 meters.
7	Sliding Trays	Provision for keeping Keyboard & Mouse
8	Power Supply	180 -240V, 50Hz, AC Supply

Annexure-IA

Technical Bid format/ Index for the Technical Bid documents

Sr. No.	Name of the document	Status of submission (Yes/ No)	Page Number as per numbering given to the technical bid documents uploaded on the portal
1	Submission of online payments i.e Earnest Money Deposit, Tender Document Fee & e - Service Fee and scanned copies of supporting documents.	Yes/ No	
2	All the documents submitted by the bidder as part of its Technical Bid are attested by the signing authority of the bidder	Yes/ No	
3	Submit an undertaking by the bidding firm in reference to acceptance of all the terms & conditions of the Schedule-A/ DNIT	Yes/ No	
4	Submit a signed copy of DNIT	Yes/ No	
5	Valid ISO 9001 & 14001 Certificate	Yes/ No	
6	Bidder should have Ink Signed and Stamped Authorization in Original from the OEM and shall be submitted along with the Technical Bid. Original hard copy should be submitted before the due date and time of tender opening	Yes/ No	
7	Submit a sample of all the quoted models before the due date and time of tender opening.	Yes/ No	
8	Submit Technical Catalogue of quoted product with the technical bid and same should be available on OEM website.	Yes/ No	
9	Bidder should have minimum average annual turnover of Rupees Forty Crore in the last three financial years. Submit turnover Certificate of last three financial years duly certified by CA along with copies of Audited Balance sheets.	Yes/ No	
10	Submit undertaking that the goods supplied will be with one year onsite warranty and include delivery, onsite installation and onsite trainings.	Yes/ No	
11	Undertaking that delivery & Installation of complete material needs to be completed at all locations strictly within 120 days of order.	Yes/ No	
12	Submit undertaking that 90% of Payment shall be made within 15 days of delivery of ordered stores & remaining balance 10% payment will be made within 15 days of successful	Yes/ No	

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	installation.		
13	The bidder should be at least 3 years old, relevant certificate / document must be submitted by the bidder.	Yes/ No	
14	Submit a notarized Affidavit that the Organization has not been black listed by any institution of the Central/ State government / PSU/ University/ Institute etc. in the past three years.	Yes/ No	
15	The bidder should be a Proprietorship Firm/Partnership firm/Company. Submit documentary proof .	Yes/ No	
16	Undertaking that Bidder have quoted for all components/ products as asked in the tender.	Yes/ No	
17	Bidder will provide instruction manual of all equipment mentioning list of functions & features as per technical specifications on or before bid submission date.	Yes/ No	
18	Bidder will provide Video Manual of explaining technical specification on or before bid submission date.	Yes/ No	

Important:- * In case the Technical Documents are uploaded on the portal without proper page numbering, the Tendering Department will be within its right to cancel the bid of the said firm.