



Indian Institute of Technology Bhilai (IIT Bhilai)
GEC Campus, Old Dhamtari Road, Sejbahar, Raipur, Chhattisgarh, India – 492015
www.iitbhilai.ac.in

NOTICE INVITING TENDER

Indian Institute of Technology Bhilai (IIT Bhilai), an autonomous body under the Ministry of Human Resource Development, Govt of India invites e-bid for **“Providing Web services for DSAI Courses at IIT Bhilai”**. Tender Documents may be downloaded from Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). Bidders are advised to submit duly filled bids as per the following schedule:

Invitation for Bids (IFB) No & date	IITBh/Goods/EECS/2021-22/143 Dated: 14/10/2021
Place of Supply etc.	Indian Institute of Technology Bhilai GEC Campus, Old Dhamtari Road, Sejbahar, Raipur-492015, Chhattisgarh
Bid Submission Start date	October 20, 2021, 1100 Hrs
Last Date of Submission of Bids	November 2, 2021, 1500 Hrs
Date of Opening of Technical Bids	November 03, 2021, 1515 Hrs
Tender Fee & EMD	Tender Fee - Rs. 500/- to be payable through SBI i-collect Link https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=646425 Step1. Click Check Box to proceed for payment. Step2. Select S and P Tender Fee and EMD. Step3. Fill all Details and Submit (This online payment receipt may be provided in the on line Technical e-bid) MSE's and other bidders are exempted from the payment of EMD, in place of EMD, Bid Security Declaration (in Annexure-H) should be submitted.
Place of Opening of Technical Bids	Online - E-procurement Portal
Contact information (Tender Inviting Authority)	Special Administrative Officer Indian Institute of Technology Bhilai, GEC Campus, Old Dhamtari Road, Sejbahar, Raipur 492015, Chhattisgarh Phone: +91-771-2973622, Email: sp@iitbhilai.ac.in For technical enquiries: Email: naveenkr@iitbhilai.ac.in

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CALL INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit their bids electronically on the CPP Portal using valid Digital Signature Certificates. Certain instructions are given below to guide the bidders for registration on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

Registration Process

- 1) If a bidder is not registered at the eProcurement portal, such bidder should enrol/register on the e-Procurement module of the portal <http://eprocure.gov.in/eprocure/app> by clicking on the link "Click here to Enrol". Enrolment on the CPP Portal is free of charge.
- 2) The bidders to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 3) Bidders to register upon enrolment their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India with their profile.
- 4) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. *Foreign bidders are advised to refer "DSC details for Foreign Bidders" for Digital Signature requirements on the portal.*
- 5) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

Tender Documents Search

- 1) Various built in options are available in the CPP Portal to facilitate bidders to search active tenders by several parameters. These parameters include Tender ID, organization, location, date, value, etc.
- 2) There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 3) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 4) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

Bid Preparation

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 3) Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 4) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with **100 dpi with black and white option**.

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- 5) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for the bid submission process.

Bid Submission

- 1) Bidder to log into the site well in advance for bid submission so that he/she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder to select the payment option as “Off-line” to pay the tender fee/ EMD wherever applicable and enter details of the instrument in SBI i-collect.
- 4) A standard BoQ format has been also uploaded along with the tender document to be filled by all the bidders. Bidders to note that they should necessarily submit their financial bids in the prescribed format and no other format is acceptable.
- 5) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data, which cannot be viewed by unauthorized persons until the time of bid opening.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

Assistance to Bidders

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **0120-4200462, 0120-4001002, 0120-4001005**.

General Instructions to the Bidders

- The tenders will be received online through the portal <https://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- Possession of Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/ e-Token in the company’s name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://eprocure.gov.in/eprocure/app> under the link ‘Information about DSC’.

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Tenderers are advised to follow the instructions provided in the `Instructions to the Tenderers for the e-Submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

LIST OF DOCUMENTS TO BE UPLOADED IN E-PROCUREMENT PORTAL

- 1) Bidder should take into account notifications, corrigendum published, if any on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Any deviations from these may lead to rejection of the bid.
- 3) The two-bid system will be followed for this tender. In this system, online offer should be submitted under **TWO-BID System** in two separate e-packets i.e. **“Technical eBid”** and **“Commercial eBid”**.

Online Envelope No. 1: "Technical Bid" shall contain (Pdf format only)

- 1) Scanned copy of Payment Advice (with DU number) for **Tender Fee of Rs. 500/- (Rupees Five hundred only)** and **EMD of Rs. 14,000/- (Rupees Fourteen Thousand only)**

Payment Instructions:

Tender fee and EMD should be paid through SBI i-collect Link given below:

<https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=646425>

Step1. Click Check Box to proceed for payment.

Step2. Select S and P Tender Fee and EMD.

Step3. Fill all Details and Submit

(This online payment receipt may be provided in the online Technical e-bid).

MSME Exemption:

- **If an MSME is authorised by MSME/NSIC/DIC to manufacture the item/equipment in a specific category as per the tender requirement, those MSMEs are exempted from payment of EMD, subject to the submission of valid MSME/NSIC/DIC certificate.**
 - **MSMEs should submit the Bid Security Declaration (As per the Annexure- H) in place of EMD.**
 - **If a bidder fails to upload a valid MSME certificate/ EMD payment advice, their bid maybe summarily rejected.**
- 2) A scanned copy of Authorization letter with proper seal and signature of the authorised person (with name, designation, email id & contact no.), as per the format attached at Annexure – C.
 - 3) A scanned copy of Certificate of Incorporation, Partnership Deed/ Memorandum and Articles of Association/ any other equivalent document showing date and place of incorporation, as applicable.
 - 4) A scanned copy of the commercial bid without prices (prices blocked) and copy of commercial terms & conditions (in details) as included in the commercial bid. IIT Bhilai reserves the right to reject the bid in case of discrepancy observed in the unpriced commercial bid and the actual commercial bid.
 - 5) A scanned copy of audited balance sheet or the certificate from a Chartered Accountant for the financial year 2020-21, 2019-20 and 2018-19 indicating the annual sales turnover of the bidder. Bidder firm should not have suffered any financial loss for more than one year during the last three years, ending on 'The Relevant Date'.

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- 6) The detailed technical specification, make, model, part number & compliance of each item offered supported by the printed catalogue/ leaflet published by the Principal Manufacturer.
- 7) Undertaking to the effect that a Performance Guarantee of 3% of the order value will be submitted in case IIT Bhilai decides to place the Purchase Order.
- 8) Undertaking to the effect that the terms and conditions, clauses etc. stipulated in this tender are acceptable.
- 9) Other documents necessary in support of eligibility criteria (as per Section-II - Instructions to Bidders-ITB), product catalogues, brochures etc.

IIT Bhilai reserves the right to reject the bid if any of the above listed document/s is not submitted.

Online Envelope 2: "Commercial Bid" shall contain

- 1) The Commercial Bid should be filled properly in the .xls uploaded in eProcurement portal
- 2) In case the bidder requires any clarifications/ information, they may write to sp@iitbhilai.ac.in.
- 3) Commercial bids of the technically qualified bidders only will be opened in the eProcurement portal.
- 4) Commercial bids must be offered in the format attached.
- 5) The applicable exact rates of Taxes will be added as per the format attached.
- 6) In case of any mistake or error in calculations or any discrepancy in price quoted in words and figures, the LOWEST amount will be considered for comparison. If this lowest price is not acceptable to the bidder, their bid will be rejected. In this case, IIT Bhilai reserves the right to forfeit their EMD.
- 7) IIT Bhilai reserves the right to place part orders.

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SECTION-I: INSTRUCTIONS TO BIDDERS (ITB)

1. Locations for the Supply of Web Services

The entire products as described in Schedule of Requirements at **Section - V** must be supplied & supported at Indian Institute of Technology, Bhilai.

2. Period of Services:

All the items covered in the Schedule of Requirements at Section – V must be supplied within 4 weeks from the date of placement of work/ purchase order.

3. Amendment to Bidding Documents

3.1 At any time prior to the deadline for submission of bids, IIT Bhilai may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.

3.2 The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice on the institute website against this tender. The amendments/ modifications will be binding on the bidders.

3.3 IIT Bhilai at its discretion may extend the deadline for the submission of bids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.

4. Preparation of Bids

Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. In case however, any corrections, overwriting, erasures or postscripts have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. However, bidder shall not be entitled to amend/ add/ delete/ correct the clauses mentioned in the entire tender document.

5. Forfeiture of EMD

5.1 In case of the bidder whose offer is accepted, the EMD will be returned on submission of Security Deposit. However, if the return of EMD is delayed for any reason, no interest/ penalty shall be payable to the bidder.

5.2 The successful bidder, on award of contract/ order, must send the contract/ order acceptance in writing, within 15 days of award of contract/ order, failing which the EMD will be forfeited and the order will be cancelled.

5.3 If the bidder withdraws the bid during the period of bid validity specified in the tender.

6. Period of validity of bids

6.1 Bids shall be valid for minimum 180 days from the date of submission. A bid valid for a shorter period shall stand rejected.

6.2 IIT Bhilai may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such requests without forfeiting the EMD/ BG. A bidder agreeing to the request for extension will not be permitted to modify his bid.

7. Deadline for Submission of Bids – online only

7.1 The Bid documents shall be neatly arranged. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. *The conditional bid will be summarily rejected.*

7.2 Bids must be received by IIT Bhilai before the due date and time at the address specified in the tender document.

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7.3 IIT Bhilai may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified on its website.

7.4 IIT Bhilai shall not be responsible and liable for **the delay in receiving the bid** for whatsoever reason.

8. Bid Opening & Evaluation of Bids

8.1 The technical bids will be evaluated in two steps.

- a. The bids of eligibility bidders only will be evaluable based on eligibility criteria mentioned in Section III of the tender documents.
- b. The technical bids of only the shortlisted eligible bidders shall be evaluated based on technical specifications stipulated at Section – V

8.2 The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the commercial bid.

8.3 The duly constituted Tender Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to take appropriate decisions on minor deviations, if any.

8.4 The bidder's name, bid prices, discounts and such other details considered as appropriate by IIT Bhilai, will be announced at the time of opening of the commercial bids.

9. Comparison of Bids

9.1 Only the short-listed bids from the technical evaluation shall be considered for commercial comparison.

9.2 The bids shall be evaluated on the basis of the total prices including all taxes (GST) and duties as per the details mentioned in section I (10.2) and section VI (8).

10. Purchase Order

10.1 IIT Bhilai shall issue purchase order to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid based on the Grand Total calculated of all items as mentioned in section VI(8) + taxes of the Commercial Bids. However, IIT Bhilai reserves the right and has sole discretion to reject the lowest evaluated bid.

10.2 If more than one bidder happens to quote the same lowest price, IIT Bhilai reserves the right to decide the criteria and further process for awarding the contract, decision of IIT Bhilai shall be final for awarding the contract.

11. End User Certificate (if applicable)

IIT Bhilai can provide end user certificate in advance in order to save on time/ delivery period. However, this does not mean that the order shall be placed on the same bidder. The bidder may submit the format of end user certificate at the earliest, preferably along with the technical bid.

12. Purchaser's Right to amend / cancel

12.1 IIT Bhilai reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, technical specifications etc.

12.2 IIT Bhilai reserves the right to cancel the entire tender without assigning any reasons thereof.

12.3 IIT Bhilai reserves the right to place part orders.

13. Corrupt or Fraudulent Practices

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- 13.1 It is expected that the bidders who wish to bid for this project have the highest standards of ethics.
- 13.2 IIT Bhilai will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract.
- 13.3 IIT Bhilai may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award / execution of contract.

14. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director, IIT Bhilai shall be final and binding on all parties.

***** (END OF SECTION I) *****

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SECTION-II: ADDITIONAL INSTRUCTIONS TO BIDDERS (AITBs)

- (a) Delivery: The items be supplied within 4 weeks from the date of receipt of the Purchase Order.
- (b) Authorization certificate from all the original equipment manufacturers stating their support for the vendor during the equipment warranty period. Warranty of each component should be mentioned separately, if applicable.
- (c) **The Competent Authority reserves the right to reject any or all bids, amend/withdraw any terms and conditions in the Tender document or to cancel the Tender at any stage without assigning any reason.**

*****(END OF SECTION II)*****

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SECTION-III: ELIGIBILITY AND QUALIFICATION CRITERIA

1. The bidder must be either OEM or authorized dealer of the original manufacturer of the proposed equipment in India. In case of an authorized dealer, the technical quote should contain a valid original certificate provided by the original manufacturer in the name of IIT Bhilai.
2. The bidder should have experience on Data Centre technologies (Server/ storage/ Hyper converged) in any other IIT's / IIM's / NIT's. And executed minimum one order in any education institute of the same OEM being quoted. The institute may ask for feedback from the supplied organization and the feedback received shall be part of the technical evaluation.
3. Valid and Duly Authorised Manufacturer Authorization Form (MAF) to be submitted along with Tender.
4. Service should have public pricing and should be publicly listed on CSP website.

If in the view of bidder, any exemption/ relaxation is applicable to them from any of the eligibility requirements, under any Rules/ process/ Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption/ relaxation, quoting the valid Rule/ process/ Guidelines/ Directives. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of his claim. The applicability of exemptions and /or validity of documents submitted by the bidders will be evaluated by the bid evaluation committee during technical evaluation of bids.

Note: *The bidders should provide sufficient documentary evidence to support the eligibility Criteria. IIT Bhilai reserves the right to reject any bid not fulfilling the eligibility criteria.*

*****(END OF SECTION III)*****

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SECTION-IV: GENERAL CONDITIONS OF CONTRACT (GCC)

1. Prices

- 1.1 Prices should be quoted preferably in FOR and should be inclusive of all taxes and duties.
- 1.2 Unit rates for respective services cannot be increased by more than 5% of the quoted amount during a calendar year.
- 1.3 The statutory taxes and duties applicable at the time of supply of material shall be applicable and will be reimbursed on submission of requisite documents/ proofs as the relevant Government Notification.
- 1.4 **IIT Bhilai is eligible for concessional rate of GST i.e. @ 5% under the Notification No. 45/2017, Central Tax (Rate), State Tax (Rate) and/or 47/2017, Integrated Tax (Rate), dated 14.11.2017 subject to applicability of the cited clause of GST on items based on directives of DSIR.**
- 1.5 In case due to any error/ oversight, the GST quoted by the bidder is less than the actual rate as per tariff, the bidder will not be permitted to rectify the error/oversight. The orders/ contract will be placed for the total amount including the (lower) rate/s quoted by the bidder, with reduced basic amount to the extent of difference in tax/duty amount, so that the total amount (basic + actual rate as per tariff), remains same(quoted basic + quoted rate). The difference amount payable, if any, between the quoted rate and actual rate as per tariff (without exemption) shall be borne by the bidder. The exemption certificate, if applicable, will be issued for the reduced basic amount only.

2. Software Licenses

The software licenses, if any, shall be required in the name of the user. The licenses shall contain paper licenses and at least one set of media (CDs) – wherever applicable. All software licenses quoted should be of perpetual.

3. Performance Bank Guarantee (PBG)

The successful bidder has to submit performance security for an amount of 3% of the order value in the form of BG from any nationalized bank within 14 (Fourteen) days from the date of award of contract and should be valid for 60 days beyond the date of completion of all contractual obligation including warranty obligation. And it will be returned after 60 days beyond the warranty period.

4. Period of Contract:

Initially for a period of 1 year and may be extended for a period of another two years based on the mutual consent.

5. Warranty

Technical support should be provided during the entire contract period.

6. Training:

Suppliers need to provide Free of Charge onsite training on applications and maintenance should be provided to at least five persons for a minimum of two days by the certified company engineers. IIT Bhilai will not bear any training or living expenditure in this regard. The Supplier should arrange for regular visits to the IIT Bhilai campus by its technical team and assist in the maintenance of the item/equipment within warranty period.

7. Payments

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- 7.1. Payment will be made on a monthly basis as per the usage of cloud resources. Monthly payment based on the invoice raised by the supplier and satisfactory recommendation of the end-user.

8. Ship/Invoice to

The Director,
Indian Institute of Technology Bhilai,
GEC Campus, Sejbahar
Raipur – 492 015 Chhattisgarh, INDIA

9. Liquidated Damage

IIT Bhilai reserves the right to levy penalty @ of 0.5 % of order value per week of delay in supply and /or installation, beyond the schedule as mentioned in this tender document subject to maximum of 10% of the order value. IIT BHILAI reserves the right to cancel the order in case the delay is more than 06 weeks. The delay in delivery and/or installation not attributed to supplier viz. delay in site preparation, delay in submission of required documents etc. and the conditions arising out of Force Majeure will not be considered for the purpose of calculating penalties.

10. Force Majeure

IIT Bhilai may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.

11. Arbitration

All disputes/claims of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. under this Contract, shall be referred by either party (IIT Bhilai or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to the Sole Arbitrator appointed by IIT Bhilai. The venue for arbitration shall be specified in the purchase order/agreement. The arbitration proceedings shall be conducted in English and as per the provisions of Indian Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

12. Jurisdiction

The disputes, legal matters, court matters, if any shall be subject to Raipur jurisdiction only.

13. Assignment

Selected bidder/ Party shall not assign, delegate or otherwise deal with any of its rights or obligations under this Contract without prior written permission of IIT Bhilai.

***** (END OF SECTION IV) *****

SECTION – V: SCHEDULE OF REQUIREMENTS

S.No.	Service	Component	Quantity	# of Units	Unit
1	Cloud Native fully managed Hadoop as a service	Master Node - 4 vCPU, 16 GB RAM	100	1	Hours
2	Cloud Native fully managed Hadoop as a service	Worker Node - 4 vCPU, 16 GB RAM	500	1	Hours
3	Cloud Native fully managed notebook	2 vCPU - 4 GB RAM	20	10	Hours
4	Cloud Native fully managed Training, Processing and Inference VM With Intel Cascade Lake Processors, Nvidia T4 GPU	4 vCPU - 16 GB RAM - 1 T4 GPU - 125 GB Instance Storage	5	10	Hours
5	Cloud Native Fully Managed ML Storage		5	1	GB
6	Cloud Native fully managed Feature Store - Storage		1	1	GB
7	Cloud Native fully managed Feature Store - Read Requests		1	1	Thousands
8	Cloud Native fully managed Feature Store - Write Requests		1	1	Thousands
9	Cloud Native Object Storage		1	20	GB
10	Virtual Machine	4 vCPU - 16 GB RAM	30	10	Hours
11	Cloud Native Fully Managed Load Balancer		10	10	Hours
12	Cloud Native Fully Managed Database (postgres)	4 vCPU - 16 GB RAM	30	10	Hours
13	Cloud Native Block Storage (Each Volume with 3000 IOPS)		12	10	GB

Note:

1. Unit rates for respective services cannot be increased by more than 5% of the quoted amount during a calendar year.
2. Payment will be made on a monthly basis as per the usage of cloud resources. Monthly payment based on the invoice raised by the supplier and satisfactory recommendation of the end-user.

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Technical Specification for Web services for DSAI Courses

S.No.	Requirements	Bidder Compliance Yes/No.
Overall Key Requirements		
	Bidder should provide compliance to all the requirements as specified below along with public url for each of requirement/services.	
1	System should be able to provide ability to automatically increase/scale the number of Instances/VMs during demand spikes for few hours /days to maintain performance	
2	No prior intimation or buffer will be given, as increase/decrease number of instances should happen automatically based on the controls/parameters set up for maximum/minimum usage of VMs.	
3	System should be able to provide metering and billing of services like VMs, storage, Managed Databases including Mysql, Postgres licenses at hourly basis	
4	In case hourly prices are not available, the same will be paid based on the pro-rata basis the monthly rate and actual usage of the service.	
5	The solution should be architected in a way to ensure no data loss.	
Compute Services		
1	Schedule events for VMs, such as a reboot, stop/start, or retirement	
2	Ability to automatically increase/scale the number of Instances/VMs during demand spikes to maintain performance	
3	Pause and Resume VMs (hibernate your instances, and resume them from this state at a later time)	
4	Ability to place instances in multiple data centers / separate availability zones to protect applications from failure of a single location	
5	Compute services should offer 99.99% uptime SLA	
6	Self-service provisioning of multiple VMs concurrently either through a programmatic interface or Web Portal	
7	Architected in such a way to automatically restart VMs on a healthy host if the original physical host fails and avoid VM outages or downtime when the provider is performing any kind of hardware or service maintenance at the host level	
8	CSP Provided single Block storage volume, attached with instance, should have capability to increase size in 1Gb increment without any downtime & Block storage pricing should be based on actual provisioned storage only.	
9	Compute services should allow for Active-Active setup in two physically separate and distant data centers.	
10	CSP block storage should provide minimum baseline performance of 3000 IOPS	
Managed Database & Hadoop Service		
1	Database services should offer 99.9% uptime SLA	

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2	Database instances should provide capability to start , stop any time when its required	
3	Mechanism to users to utilize their current database licenses in the cloud if required	
4	Ability to quickly move a database to a prior point in time without needing to restore data from a backup	
5	Database should function in an auto-scaling manner . Database should automatically (without manual intervention or scheduled scripts) start-up, shut down, and scale up or down capacity (vCPU and memory) based on workload from application	
6	Database service to have the ability to automatically (without manual intervention or scheduled scripts) grow the size of your database volume as your database storage needs grow.	
7	Automatically replaces the underlying compute instance in the event of a hardware failure	
8	Should allow creation of Read Replicas under certain circumstances	
9	Self-service provisioning either through a programmatic interface or Web Portal4	
10	Stays up-to-date with the latest patches. Customer can exert optional control over when and if your database instance is patched.	
11	Integrated with IAM and provides you the ability to control the actions that IAM users and groups can take on specific resources, from database instances through snapshots, parameter groups, and option groups	
12	Push-button vertical scaling up/down of database instances.	
Object Storage		
1	Proposed cloud object storage solution should support server-side encryption (SSE) of data 'at-rest', with the cloud provider managing the encryption keys or customer provided cryptographic keys	
2	Support read-after-write consistency for addition any object (PUT operations)	
3	Support multi-factor authentication (MFA) for delete operations as an additional security option	
4	It should provide high redundancy, durability and storage of data across a minimum of three distinct Data centres	
5	Storage Services should offer 99.9% uptime SLA	
Object Storage as a Service - Archival Storage		
1	Proposed archival object storage should be designed to provide average annual durability of 99.999999999% to ensure availability of data during all times.	
2	Proposed archival solution should support storage of data across multiple data centers before confirming a successful upload to provide redundancy.	
3	Proposed solution should allow expedite retrieval within 1minute, the cost of the same should be factored for 10% of archive data	

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Web Application Firewall (WAF)		
1	The service should be completely administered via API to provide developers create a security rule as part of the deployment process	
2	It should be deployed on CDN, Load Balancer, REST APIs and also extend capability to be mapped with centralized firewall management capabilities to automate audits and notify security team for incident response	
Application Load Balancer (ALB)		
1	It should support slow start mode with the round-robin algorithm to handle a flood of requests	
2	It should support Source IP address CIDR-based routing	
3	The service should be able to integrate with Authentication services to handle user authentication	
MFA based Service Access		
1	The Service should be able to provide cloud and service access (API and Console) with MFA and Short Term Credentials	
2	It should provide directory to create users, organize them in groups, and set permissions across those groups	
3	It should be SAML compatible to be integrated with other IDP	
DDoS Protection		
1	The Service should be capable to provide Protection for Layer 3 and Layer 4 DDoS attack that target to web applications	
2	CSP should also offer Layer-1 DDoS Protection	
Backup		
1	CSP provided backup solution should have capability to take incremental snapshot and store data in multi zone/multi region	
2	CSP should provide service that helps in managing backups from one single console.	
Machine Learning		
1	CSP should have native Fully-managed service to handle all the phases of machine learning project cycle.	
2	Native fully managed ML service should provide IDE for ML team with features of accessing notebooks, graphs, shell etc. from same IDE.	
3	Native fully managed ML service should provide IDE feature to share the notebook and the environment with team members to collaborate ML development	
4	Native fully managed ML service should provide Hosted Jupyter Notebook and Jupyter Lab instances.	
5	Native fully managed ML service should provide Support of multiple frameworks e.g., MXNet, TensorFlow, Caffe, PyTorch, Keras	
6	Native service/feature to create feature store to keep record of and share processed features	
7	Native service/feature to create processing pipeline	

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8	Native fully managed ML service should provide feature to select data from multiple sources including feature store	
9	Native fully managed ML service should provide support for pre-configured transformations without writing code	
10	Native fully managed ML service should provide support for visualizations (and visualization templates) without writing code	
11	Native fully managed ML service should provide support for identifying imbalances in data and checking model for bias	
12	Native fully managed ML service should provide support for training supervised, unsupervised and reinforcement learning models.	
13	Native fully managed ML service should provide support for parallel training on clusters. (Training clusters should be created for training and should terminate automatically after training)	
14	Native fully managed ML service should provide service native algorithms for regression, classification, time series, text modelling, image classification	
15	Native fully managed ML service should provide support for bringing external algorithms for training	
16	Native fully managed ML service should provide support for automatic model tuning for both native and external algorithms	
17	Native fully managed ML service should provide support for automatic and managed deployment of trained model.	
18	Native fully managed ML service should provide support for auto scaling of instances of deployed model.	
19	Native fully managed ML service should provide support for batch inference	
20	Native fully managed ML service should provide support for deploying multiple models together and distribute the inference traffic between multiple models to support A/B testing	
21	Native fully managed ML service should provide support for integration with big data framework e.g. spark to aid data pre-processing	
22	Native Service/Feature that provide support in labelling datasets	
23	Native fully managed ML service should provide support for integration with other cloud services to make use of them	
24	Native fully managed ML service should provide support for deploying models on edge devices e.g. cameras	
25	Native fully managed ML service should provide support for compilation of models to run directly on edge processors e.g. intel, NVidia, ARM, QUALCOMM etc.	
26	Native fully managed ML service feature to support for managing models deployed on edge (i.e. easy integration with devices application at edge, edge fleet management, edge fleet dash boarding, cryptographic lock of model)	

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27	Native fully managed ML service to support creation of workflow for human review of ML inferences before passing on to consuming application/system	
28	Native fully managed ML service/feature to create processing pipeline	
29	Native fully managed ML service/feature to aggregate and prepare data	
30	CSP should provide ready and published solutions for common use cases to give a quick start	
31	The customer should list AI ML services what he needs in RFP and ask the bidder to provide following proof against those: Service should be on pay as you go model	
32	Native services only, no third party allowed	
33	Service should have public pricing and should be publicly listed on CSP website	

Note: Bidder must submit a technical compliance sheet (with bidder specification, deviation & justification) and all the relevant documents to ensure that the technical specifications are compiled & all the conditions are fulfilled.

Note: For Technical Queries contact: naveenkr@iitbhilai.ac.in

Authorized Signatory:
(Signature of the Bidder, with Official Seal)

*** (END OF SECTION V) ***

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SECTION – VI PRICE BID

PRICE BID -Schedule of price bid in the form of BOQ format:

1. Financial Proposal/Commercial bid format is provided as BoQ along with this tender document at <https://eprocure.gov.in/eprocure/app>
2. Bidders are advised to download this BoQ.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. **Any element of cost, taxes, duties levies etc. not specifically indicated in the BOQ, shall not be paid by the purchaser. If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST. No further communication will be entertained later or else the EMD will be forfeited.**
5. The tender shall remain valid for acceptance for 180 days, from the date of tender opening.

OTHER CONDITIONS FOR PRICE BIDS

1. No unilateral revision in price will be admissible.
2. Rates should be quoted in the accounting units (A/U) mentioned in this tender. Rates must be quoted clearly on a free delivery basis at IIT Bhilai and total value is also indicated in words.
3. Any optional indicated in techno-commercial bids must be priced separately.
4. In case spares/accessories are applicable, their list and price should be clearly indicated separately.
5. The price must be stated for each item separately. The percentage of reduction, in the unit price should also be quoted, should an order to that extent be placed with you.
6. The bids shall be evaluated on the basis of price quoted (Including GST) for Sl. No. 1 to 13 i.e. Basic components and Accessories in the Commercial bid.
7. Any information related to essential accessories or optional accessories should be mentioned in the remarks column.

Signature of the Tenderer

Seal:

(END OF SECTION VI)

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SECTION –VII ANNEXURES (STANDARD FORMATS)

ANNEXURE A

TENDER ACCEPTANCE LETTER

(To be submitted on Company Letter Head)

Date: _____

To,

**The Director
Indian Institute of Technology Bhilai,
GEC Campus Sejbahar,
Raipur 492015 Chhattisgarh**

SUB: Acceptance of Terms & Conditions of Tender.

Tender Reference No./ Date:

Name of Tender / Work:

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: www.iitbhilai.ac.in, <http://eprocure.gov.in/eprocure/app> as per your NIT / advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / We have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedules(s), etc.), which form part of the contract agreement and I / We shall abide hereby by the terms / conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the fully said earnest money deposit absolutely.

Yours Faithfully,

Authorized Signatory:
(Signature of the Bidder, with Official Seal)

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ANNEXURE B

AUTHORITY LETTER

AUTHORIZATION

We _____(name of the bidder) hereby authorise Shri / Smt. _____ (name of the authorised person) to sign and submit the bid to IIT Bhilai against their Tender No. _____ dated _____. Shri / Smt. _____ (name) is also authorised to negotiate the terms and conditions pertaining to the said tender on behalf of M/s _____ (name of bidder). The specimen signature of Shri / Smt. _____ (name) is appended below.

Specimen Signature:

Name:

The undersigned is authorised to delegate the authority on behalf of M/s _____ (name of bidder), as stipulated above

For _____
(name of bidder)

Signature & Company Seal:

Name:

Designation:

Email:

Mobile No.:

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ANNEXURE C

SUMMARY INFORMATION SHEET

Sr. No.	Information heading	Details
1	Name of the Vendor	
2	Name of the person(s) to whom, all references shall be made, regarding this TENDER/PROJECT (Authorized Signatory)	
3	Address of the Contact Person	
4	Designation of the Contact Person	
5	Telephone number(s) of the Contact Person.	
6	Mobile number of the Contact Person	
7	Fax number of the Contact Person	
8	Email ID(s) of the Contact Person	
9	Annual Turnover (in Lakhs): Last three Years (In INR)	1) 2) 3)
10	Years of Operation (in Years):	
11	PAN Number	
12	GSTN	
13	Bank Name and Account No.	
14	IFS Code	

Authorized Signatory:
(Signature of the Bidder, with Official Seal)

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ANNEXURE D

PROFORMA OF BANK GUARANTEE

(on non-judicial paper of appropriate value)

To,

**The Director
Indian Institute of Technology Bhilai,
GEC Campus, Old Dhamtari Road
Sejbahar, Raipur 492015 Chhattisgarh**

BANKS GUARANTEE NO:

DATE:

Dear Sir(S)

This has reference to the Purchase Order No. _____ Dated _____ been placed by Indian Institute of Technology Bhilai (IIT Bhilai), Raipur on M/s _____ (Name & Address of Bidder) for supply, installation, commissioning and warranty of _____ (description of items) at client's site.

The conditions of this order provide that the Bidder shall,

1. Arrange to deliver the items listed in the said order to the consignee, as per details given in said order, and
2. Arrange to install and commission the items listed in said order at client's site, to the entire satisfaction of IIT Bhilai and
3. Arrange for the comprehensive warranty service support towards the items supplied by Bidder on site as per the warranty clause in said purchase order.

M/s (Name of bidder) has accepted the said purchase order with the terms and conditions stipulated therein and have agreed to issue the performance bank guarantee on their part, towards promises and assurance of their contractual obligations vide the Supply Order No. _____ M/s. ___ (name of vendor) holds an account with us and has approached us and at their request and in consideration of the promises, we hereby furnish such guarantees as mentioned hereinafter.

IIT Bhilai shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other undertaking of security in respect of the suppliers obligations and / or liabilities under or in connection with the said contract or to vary the terms vis-a – vis the supplier or the said contract or to grant time and or indulgence to the supplier or to reduce or to increase or otherwise vary the prices or the total contract value or to forebear from enforcement of all or any of the obligations of the supplier under the said contract and/or the remedies of IIT Bhilai under any security now, or hereafter held by IIT Bhilai and no such dealing(s) with the supplier or release or forbearance whatsoever shall have the effect of releasing the bank from its full liability of IIT Bhilai hereunder or of prejudicing right of IIT Bhilai against the bank.

This undertaking guarantee shall be a continuing undertaking guarantee and shall remain valid and irrevocable for all claims of IIT Bhilai and liabilities of the supplier arising up to and until _____ (date).

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This undertaking guarantee shall be in addition to any other undertaking or guarantee or security whatsoever that IIT Bhilai may now or at any time have in relation to its claims or the supplier's obligations/ liabilities under and / or in connection with the said contract and IIT Bhilai shall have the full authority to take recourse to or enforce this undertaking guarantee in preference to the other undertaking or security(ies) at its sole discretion and no failure on the part of IIT Bhilai in enforcing or requiring enforcement of any other undertaking or security shall have the effect of releasing the bank from its full liability hereunder.

We____(Name of Bank) hereby agree and irrevocably undertake and promise that if in your (IIT Bhilai's) opinion any default is made by M/s_(Name of bidder) in performing any of the terms and /or conditions of the agreement or if in your opinion they commit any breach of the contract or there is any demand by you against M/s____(Name of bidder), then on notice to us by you, we shall on demand and without demur and without reference to M/s_____(Name of bidder), pay you, in any manner in which you may direct, the amount of Rs. _____/-

(Rupees _____
_____ Only) or such portion thereof as may be demanded by you not exceeding the said sum and as you may from time to time require. Our liability to pay is not dependent or conditional on your proceeding against M/s_(Name of bidder) and we shall be liable & obligated to pay the aforesaid amount as and when demanded by you merely on an intimation being given by you and even before any legal proceedings, if any, are taken against M/s_____(Name of bidder)

The Bank hereby waives all rights at any time inconsistent with the terms of this undertaking guarantee and the obligations of the bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the supplier (whether or not pending before any arbitrator, Tribunal or Court) or any denial of liability by the supplier or any order or any order or communication whatsoever by the supplier stopping or preventing or purporting to stop or prevent payment by the Bank to IIT Bhilai hereunder.

The amount stated in any notice of demand addressed by IIT Bhilai to the Bank as claimed by IIT Bhilai from the supplier or as suffered or incurred by IIT Bhilai on the account of any losses or damages or costs, charges and/or expenses shall as between the Bank and IIT Bhilai be conclusive of the amount so claimed or liable to be paid to IIT Bhilai or suffered or incurred by IIT Bhilai, as the case may be and payable by the Bank to IIT Bhilai in terms hereof.

You (IIT Bhilai's) shall full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s_(Name of bidder) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s__(name of bidder) which under law relating to the sureties would but for the provisions have the effect of releasing us.

You will have full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s_(Name of bidder) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s__(Name of bidder) which under law relating to the sureties would but for the provisions have the effect of releasing us.

Your right to recover the said sum of Rs._____-/- (Rupees____only) from us in manner aforesaid will not be affected/ or suspended by reason of the fact that any dispute or disputes have been

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raised the said M/s _____ (Name of bidder) and/ or that any dispute or disputes are pending before any officer, tribunal or court or Arbitrator.

The guarantee herein contained shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the said M/s _____ (Name of bidder) but shall in all respects and for all purposes be binding and operative until payment of all dues to IIT Bhilai in respect of such liability or liabilities.

Our liability under this guarantee is restricted to Rs. _____/- (Rupees _____ Only). Our guarantee shall remain in force until unless a suit action to enforce a claim under guarantee is filed against us within six months from (which is date of expiry of guarantee) all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

We have power to issue this guarantee in your favour under Memorandum and Articles of Association of our Bank and the undersigned has full power to do under the power of Attorney dated.

Notwithstanding anything contained herein:

- a) Our liability under this guarantee shall not exceed Rs _____ (in words)
- b) This bank guarantee shall be valid up to _____ & unless a suit for action to enforce a claim under guarantee is filed against us within six months from the date of expiry of guarantee. All your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there after i.e. after six months from the date of expiry of this Bank guarantee
- c) We are liable to pay the guaranteed amount or any parts thereof under this bank guarantee only and only if you serve upon us a written claim or demand or before _____
- d) The Bank guarantee will expire on (Min 14 months from the date of successful installations of the items in the order) _____ Granted by the Bank

Signature of the authorized officer of the bank
Name of the officer _____
Designation of the officer _____
Seal, name, email and address of the Bank and
address of the Branch.

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ANNEXURE E

PREVIOUS WORK ORDER DETAILS

(To be submitted on Company Letter Head)

Evaluation Criteria	Name of the Client	Order No. & Date	Amount	Remark
List of Purchase Order / Work Orders where the similar systems (as per the technical specifications mentioned in the present tender) as per the Section-III	1.			Supporting document are to be attached
	2.			
	3.			
	4.			
	5.			

Date:

Place:

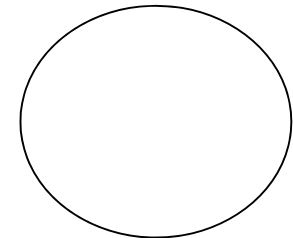
Authorized Signatory

Seal

Name:

Designation:

Contact No:



ANNEXURE H

Bid-Security Declaration Form

(To be submitted on Company Letter Head)

Date: _____

To:
The Director,
Indian Institute of Technology Bhilai,
GEC Campus Sejbahar,
Raipur 492015 Chhattisgarh

Tender Reference No./ Date:

Name of Tender / Work:

Dear Sir,

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Security Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the **Indian Institute of Technology (IIT) Bhilai** for the period of time of **3 years** starting from the date of publishing the tender , if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the **Indian Institute of Technology (IIT) Bhilai** during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the terms and conditions mentioned in the tender document .

We understand this Bid-Security Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Authorized Signatory:
(Signature of the Bidder, with Official Seal)

CHECK LIST - UNDERTAKING

S.NO	Document Description	Enclosed (Yes/No)	Page No.	Remarks
1	Scanned copy of Tender fee payment advice of Rs. 500/- showing DU number clearly or <i>valid MSME/NSIC Exemption certificate.</i>			
2	<i>Bid Security declaration</i>			
3	Scanned copy of OEM/ Authorized dealer certificate			
4	Details of Similar setups supplied as per Pre-eligibility			
5	Detailed Price bid			
6	Annual turnover details for last three years			
7	Scanned signed copies of Annexures from A to G, whichever is applicable			
8	Scanned copy of Technical Compliance			

I / We do hereby declare that all the above mentioned documents are enclosed as per the tender document.

Authorized Signatory:
(Signature of the Bidder, with Official Seal)