REQUEST FOR PROPOSAL (RFP)

From

MeitY Empaneled CSPs or their Authorized Partner for offering Cloud Services

For NATIONAL EDUCATIONAL TECHNOLOGY FORUM (NETF)

RFP No: NETF/CSP/2023/01

NATIONAL EDUCATIONAL TECHNOLOGY FORUM (NETF) Address: - AICTE HQ, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

NATIONAL EDUCATIONAL TECHNOLOGY FORUM (NETF)

Reference no.:	NETF/CSP/2023/01
Name of work	MeitY Empaneled CSPs or their Authorized Partner for offering Cloud Services for NETF
The Currency in which payment shall be made	Indian Rupees (INR)
Start date of issuance/publishing of RFP document	31.05.2023
Date and time of Pre bid Conference and Time	14.06.2023 at 11.00 A.M
Bid queries should reach by	09.06.2023 Bid queries received later than the date and time as mentioned above shall not be entertained. Pre-bid queries should be emailed to <u>tenderegov@aicte-india.org</u>
Venue of Pre-Bid Conference	Member Secretary, AICTE HQ, Nelson Mandela Marg, Vasant Kunj, New Delhi 110070
Last date for Online Submission of e-bids	24.06.2023 by 5.00 P.M
Date and Time of Opening of Technical Bids	29.06.2023 at 11.00 A.M
Date and time for opening of financial bids	To be intimated Later
Estimated Value of the Project	INR 4.00 Crore
EMD	INR 20.00 Lac (5% of the Estimated Value) in the form of DD in favor of NETF Payable at New Delhi
Tender Fees (non-refundable)	Not applicable as per latest Government Notifications (to be downloaded from the Portal)
Bid Validity days	180 days (From last date of opening of tender)

Chairman (NETF),

National Education Technology Forum (NETF), NETF HQ, Nelson Mandela Marg, Vasant Kunj, New Delhi <u>tenderegov@aicte-india.org</u>_011-29581423

DISCLAIMER

The information contained in this Request for Proposal document (the "RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the National Educational Technology Forum (NETF) or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this RFP and such other terms and conditions subject to which suchinformation is provided.

This RFP is not an Agreement and is neither an offer nor invitation by the NETF to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their financial offers (BIDs) pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the NETF in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the NETF, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in the Bidding Documents may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The NETF accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The NETF, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this BID Stage.

The NETF also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. The NETF may in its absolute discretion, but without being under any obligation to do so, update, amend orsupplement the information, assessment or assumptions contained in this RFP.

The issue of this RFP does not imply that the NETF is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the Project and the NETF reserves the right to reject all or any of the Bidders or BIDs without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its BID including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the NETF, site visits, investigations, studies or any other costs incurred in connection with or relating to its BID. All such costs and expenses will remain with the Bidder and the NETF shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the BID, regardless of the conduct or outcome of the Bidding Process.

TABLE OF CONTENT

- 1. General
- 2. Scope of the Project / Services
- 3. Documents required to be submitted along with the technical bid The bidder should submit the following documents as part of bid:
- 4. Responsibilities of Bidder/Cloud Service Provider:
- 5. Role of NETF/ NETF's Systems Integrator
- 6. Pre-Bid Conference
- 7. General Conditions
- 8. Requirements of NETF on cloud
- 9. Service Level Agreement:
- 10. Performance Security Deposit
- 11. Terms of Payment
- 12. Exit Management Clause
- 13. General Instructions/Terms and conditions
- 14. Conflict of Interest
- 15. Code of integrity
- 16. Fraud and Corruption
- 17. Compliant Proposals / Completeness of Response
- 18. Sub-contracting
- 19. Queries / Clarifications on the RFP
- 20. Supplementary Information/Corrigendum/Amendment to the RFP
- 21. Proposal Preparation Costs
- 22. Right to terminate the process
- 23. Modification, Substitution or Withdrawal of Proposals
- 24. Language of Bids
- 25. Ownership of Application / Documents Prepared by the Successful Bidder
- 26. Confidentiality
- 27. Evaluation Process
- 28. Notification of Award of Contract
- 29. Prices
- 30. Additional Services
- 31. Payment Terms
- 32. NETF Contract finalization and Award
- 33. Contract Period
- 34. Performance Bank Guarantee
- 35. Failure to Agree with the Terms and Conditions of the RFP
- 36. Performance Measurements
- 37. Resolution of dispute amicably/through arbitration
- 38. Work Order
- **39.** Escalation Matrix
- 40. Annexures
- 41. Financial Bid (To be submitted in BOQ)

1. General

A. About NETF

National Education Policy 2020 envisage setting up of an Autonomous Body – National Educational Technology Forum (NETF) to provide a platform for free exchange of ideas on the use of technology to enhance learning, assessment, planning, administration and so on, both for School and Higher Education. The aim of the NETF will be to facilitate decision making on the induction, deployment and use of technology by providing to the leadership of education institutions, State and Central Governments and other Stakeholders the latest knowledge and research as well as the opportunity to consult and share best practices.

B. Background

The NETF has following functions: -

- I. To provide independent evidence-based advice to Central and State Government agencies on technology-based interventions;
- II. To build intellectual and institutional capacities in education technology;
- III. To envision strategic thrust areas in this domain;
- IV. To articulate new directions for research and innovation.
- V. To lay down standards of content, technology, and pedagogy for online/digital teachinglearning. These standards will help to formulate guidelines for e-learning by States, Boards, Schools, HEIs etc.
- VI. To maintain regular flow of authentic data from multiple sources including educational technology innovators and will engage with diverse set of researchers to analyze the data.
- VII. To conduct multiple regional and national conferences, workshops etc. to solicit inputs from national and international educational technology researchers, entrepreneurs, and practitioners.
- VIII. To Identify technological interventions for the purpose of improving teaching-learning and evaluation process, supporting teacher preparation and professional development, enhancing educational access, and streamlining educational planning, management, and administration including process related to admissions, attendance, assessments etc.
 - IX. To categories emergent technologies based on their potential and estimated frame for disruption, and periodically present this analysis to MoE.

2. Scope of the Project / Services

NETF has initiated promotional activities related to improvement in Technical Education across the country by way of providing Internship opportunities, industry connect, organizing and various other events of National importance for which web portals are launched.

NEAT (National Education Alliance Technology) for assessment of Students and Industry Institute Collaboration. NETF has currently hosted and is managing its web applications from its own data center. Most applications are developed under Linux/Windows platform with MySQL Database.

As the number of applications are increasing day-by-day NETF plans to host new applications and migrate the existing applications of NETF from current physical servers and azure on cloud in phased manner and use the state-of-art technology to take advantage of upscaling, downscaling and other benefit of cloud technology and operation downtime up to 48 hours may be given. The project to be executed for a period of three years initially that can be extended further for one year on the same terms and conditions on mutual agreement.

- A. NETF has developed some applications using below technology/Services:
 - Node.js, react.js, angular.js, MongoDB, Laravel, Php, mysql and other open source stakes
 - Microsoft Translation services API (Cognitive services)
 - MS Office 365 enterprise
 - CDN (Content Delivery Network) Services
 - Video streaming and storage. The Videos so recorded should be automatically stored on NETF server in sync mode while live-streaming. The Retention period of videos will be 3 years.
 - NEFT existing applications are hosted on Linux, CentOS and Windows 2019 VM platform. With LAMP and MERN stack architecture. On database NEFT is using MySQL and NoSQL MongoDB PaaS service and in future NETF can use Postgresql and other databases on project requirement.
- I. The Supplier shall be responsible for providing the required equivalent* cloud services and optionally other services (mentioned in this document at various clauses) as per the work order placed by the NETF and as per the prices discovered through this RFP or as revised downward from time to time.
- II. The Supplier should provide at least one dedicated technical resource to NETF for preparing the technical solution and proposals based on the NETF requirement. Technical resource must have skillsets of networking, Linux OS management, Managing Virtual Machine, experience in managing and monitoring different cloud platforms, integration of cloud services with applications, Cloud security, Virtual Machine Backup policies, Setup and managing Disaster Recovery services, Upscaling, Downscaling and auto scale of Virtual Machines and Migration of existing infrastructure to different clouds.
- III. NETF requires server, storage, database, network bandwidth, and relevant operating system and other services on fully secured cloud environment designed in such a way that guarantee zero data loss. The servers where applications will be hosted could be anywhere in India but not outside India. This means the data hosted by NETF should never cross the Indian shores.
- IV. Supplier shall provide inter-operability support with regards to available APIs, data portability etc. for the end NETF to utilize in case of change of cloud service provider, migration back to in-house infrastructure, burst to a different cloud service provider for a short duration or availing backup or DR services from a different service provider.
- V. The proposed application cloud environment should provide flexibility to scale the environment horizontally by adding more Virtual Machines of the same configuration to a load balanced pool. It should be possible to scale the solution horizontally at any time, without prior notification to the Supplier or its CSP. It should be possible to automate this process of scaling up and down automatically.
- VI. It should be possible at any time to move the Cloud Virtual Machines to NETF Data Centre if required. The mechanism and technical requirements for achieving this should be well documented.

- VII. The CSP / Supplier should provide all variants of cloud service as mentioned in the Technical Compliance sheet in Annexure N and Annexure O– Infrastructure as a Service (laaS), Platform as a Service (PaaS) and Software as a Service (SaaS).
- VIII. The Supplier must initiate the services within 24 hours of placing of work order.
- IX. The Supplier would be required to create and maintain a Helpdesk / telephonic number and email-based ticketing system that will resolve problems and answer queries related to the work order. The supplier shall provide the single point of contact-for any support request of the NETF on 24 x 7 x 365 basis.
- X. All terms and conditions of the CSP's empanelment with MeitY are automatically applicable to this RFP and contract thereof.
- I. DR site should not be in the same premises as DC site. Both DR and DC sites should lie within India in line with the best Practices as per Meity guidelines. May refer url https://www.meity.gov.in/writereaddata/files/DR%20Best%20Practices.pdf
- XI. The SLAs and Penalties would be applicable as per clause SLA and Penalties.
- XII. The bidder and the CSP (if the bidder is authorized partner of CSP) must provide the technical compliance as per Annexure N and Annexure O. The Self certified document needs to be submitted during the bidding.
- XIII. For all the cloud services being quoted, the bidder has to ensure that all software being offered are genuine and comply to the licensing policy of the software OEM.

Company	Configuration	Justification
Name	Details	of equivalent
		configuration

*Equivalent configuration on Section 8 (Requirement of NETF on Cloud)

B. Scale-up and scale-down of resources

- I. Due care would be taken by the NETF in deciding the resources and services needed for every requirement. However, the need for increasing or decreasing the resources and services cannot be ruled out. Accordingly, the NETF may scale-down the resources or scale-up the resources as per their requirement, subject to below mentioned clauses.
- II. All resources can be scaled up or down without any restrictions except the committed resources. The charges for replaced resource would be paid till they have been used. Similarly, the charges for additional resources also be payable from the time they are put into service as per the rates provided by the Supplier or as revised from time to time
- III. Scale UP and Down of Virtual Machine as per the NETF requirements.
- IV. The invoices by the Supplier should clearly indicate such scaling of resources.

- V. A prior intimation through mail or letter by Client shall be provided to the supplier whenever scale-down or scale-up (including auto scaling) of resources takes place.
- VI. If there is any deviation in the services that are in the work order then the client and the supplier should inform NETF before using any extra services that are nor present in work order.
- VII. The prices with the scaled-up or scaled-down resources would be reflected in all future invoices.
- VIII. The Supplier in consultation with the NETF will strive to optimize the provisioned resources by understanding the usage patterns and recommending termination of the under-utilized instances through continuous optimization. The Supplier

/ CSP is required to give timely suggestions for achieving such optimizations.

IX. NETF may also discuss the possibilities of application re-engineering using advancedcloud features (e.g., auto-scaling, content delivery network) and additional PaaS services where possible to get further cost optimizations (e.g., Move large blob object and media files to Object storage and store a pointer in your existing database; migrate archival data to cold storage, etc)

C. Disaster Recovery Services

The supplier shall provide different type of Disaster Recovery on need basis for business continuity and disaster recovery services to meet the RPO and RTO as per the service levels. In case the primary environment goes down, the Supplier shall scale up the DR environment for the services to be delivered without any effect on the performance. DR should be provided by the CSP. DR Drill may conducted once in a month on need basis .The following should be followed:

Recovery Time Objective (RTO)	Measured during the regular planned or unplanned (outage)	RTO <= 4 hours
	Change over from DC to DR or vice versa.	

Recovery Point Objective (RPO)	Measured during the regular	RPO <= 2 hours
	(outage)	
	changeover from DC to DR or	
	vice versa.	

D. Migration Services

- I. Migration of around 10-15 TB of data from existing cloud services to the quoted cloud services. The technical resources of bidder shall migrate existing data and infrastructure to quoted cloud with help of NETF application team.
- II. Application and Infrastructure Discovery & Portfolio Analysis:
 - i. Formulate a baseline of the NETF technical environment including inventory of both applications and infrastructure. This should also include development/testing environments in addition to the production environment.
 - ii. Document the technical details of the applications including technical architecture, integration with external solutions, underlying technologies / platforms, and underlyingsoftware. For each of the applications, capture the logical and physical deployment architecture providing the details of various architectural components (e.g., load balancer, firewall).
 - iii. Identify the applications and their dependencies on other components and services.
 Create a dependency tree that highlights all the different parts of the applications and identify their upward and downstream dependencies to other applications.
- III. Security Architecture for Cloud
 - i. Estimate the resources required on cloud based on the application, current / anticipatedserver, storage configurations and workloads.
 - ii. Define the indicative or the minimum requirements need to be provided for each kind of environment (Development, QA, Training, Staging, and Production - as applicable for the project) that is planned on cloud.
 - iii. Supplier should propose and, in consultation with the department, finalize the security architecture for the workloads being migrated to cloud.
 - iv. Define the logical architecture indicating the different compute, storage, network, security and monitoring services that will be provisioned for deploying the application on cloud.

E. Cloud Managed Services

I. Selected vendor / service provider should have to configure, manage, secure, maintain theall cloud services except developing the application.

- II. The Exit Management services as defined in the RFP (as per relevant Clause) shall be the responsibility of the supplier.
- III. The scope of Cloud Managed Services includes the following:
 - i. Resource Management: Adequately size the necessary compute, storage and other cloud services required, building the redundancy into the architecture and load balancing to meet the service levels. Based on the growth in the user load (peak and non-peak periods; year-on-year increase), will scale up or scale down the compute and storage asper the performance requirements of the solution. The scaling up / scaling down (beyondthe auto-scaling limits or whenever the auto-scaling limits have to be changed) has to be carried out with prior approval by NETF.
 - ii. Patch & Configuration Management (Remote OS Administration): Manage the instances of compute, storage, and network environments. This includes department-owned & installed operating systems and other system software deployed by the Supplier.
 - iii. User Administration: Implement Identity and Access Management (IAM) that properly separates users by their identified roles and responsibilities, thereby establishing least privilege and ensuring that users have only the permissions necessary to perform their assigned tasks. Implement multi-factor authentication (MFA).
 - iv. Security Administration: Configure, monitor and regularly review the security services /configurations for the workloads deployed on Cloud. Monitor the environment for unauthorized activity / access to the systems and conduct regular vulnerability scanningand penetration testing of the systems.
 - v. Monitoring Performance and Service Levels: Provide and implement tools and processes for monitoring the availability of assigned applications, responding to system outages with troubleshooting activities designed to identify and mitigate operational issues.
 - vi. Backup Bidder will Configure, schedule, monitor and manage backupsofall the data including but not limited to files, images and databases as per the policy (Monthly full backup ,weekly full backup and daily incremental backup with retention period of 1 months) finalized by NETF Restore from the backup where required.
 - vii. Training: Provide training to the officials of the NETF on request. The training may be provided online or offline as per the requirements of the NETF The infrastructure for the offline training will be provided by the NETF.
- viii. Support for third party audits: Enable the logs and monitoring as required to support forthird party audits.
- ix. Miscellaneous: Advise on optimal operational practices, recommend deployment architectures for cloud infrastructures, design and implement automated scaling processes, day-to-day and emergency procedures, deploy and monitor underlying cloudservices, performance reporting and metrics, and ensure the overall reliability and responsive operation of the underlying cloud services through both proactive planning and rapid situational response.
- x. Provide the regular reporting to the NETF Security assessment report with respect to

security configuration gaps and possible improvements to the security and compliance of cloud services on a quarterly basis. In case any gaps / scope for improvement are identified, the same needs to be discussed with the NETF and resolved in mutual consultation with the NETF, either as fixed and hence no longer a gap or acceptable risk and hence no further action required.

F. Cloud Advisory Service

The Bidder have provide following cloud Advisory services :

- i. Cloud Infrastructure Advisory Service: Supplier will examine the different models which can be used within organization for delivery – public, private and hybrid cloud. the current cost of existing environment (status quo) is examined and a total cost of ownership (TCO) calculation for a cloud-first environment is provided. Supplier will provide an in-depth examination of current infrastructure and how current infrastructureneeds to change and develop if it's moved to the cloud. This will allow NETF that whattheir environment will look like when running in the cloud. This service provides a fullROI picture of the impact of a cloud migration for an organization.
- ii. Migration assessment services: Supplier will design a successful migration roadmap based on application dependencies, suitability, and readiness – while ensuring costperformance optimization is considered the moment you are ready to migrate your servers and applications to the cloud.
- iii. Cloud Optimization services: Most public cloud NETF pay more than what they utilize. The cost can be reduced by optimizing the infrastructure utilization. Each component ofCloud server, storage, tools and other services has to be reviewed. Integrating Cloud Optimization services will allow the TCO to be brought down overall. The cost can be reduced without compromising on availability and performance. Supplier will provide cost optimization methods of the solution by studying the current utilization.
- iv. Cloud Security Audit Services: Supplier will Identifying the potential security vulnerabilities. how to prevent future attacks using audit tools. Suggest and develop strategies for protection from attacks and take measures against potential failures, by using trending security and monitoring tools with proficient automation.

G. Cloud Capacity Building Services

- I. Supplier will provide online and offline training on cloud services to technical staff .Training will provided on services mentioned in technicalcompliance of Annexure.
- II. The Supplier will take attendance and feedback after the training.

H. SLA and Penalties

The key service level objectives that relate to the cloud service and the related aspects of the interface between the department and the cloud service provider are indicated below:

I. The SLA parameters shall be monitored on a monthly/quarterly basis as per the individual SLA parameter requirements. However, if the performance of the system/services is degraded significantly at any given point in time during the contract and if the immediate

measures are not implemented and issues are not rectified to the complete satisfaction of NETF, then the NETF will have the right to take appropriate disciplinary actions including termination of the contract.

- II. The full set of service level reports should be available to the NETF on a monthly/quarterly basis or based on the project requirements.
- III. In case these service levels cannot be achieved at service levels defined in the agreement, NETF shall invoke the performance related penalties. Payments to the Supplier will be linked to the compliance with the SLA metrics laid down in the agreement.
- IV. In case multiple SLA violations occur due to the same root cause or incident then the SLA that incurs the maximum penalty may be considered for penalty calculation rather than a sum of penalties for the applicable SLA violations.
- V. GST as applicable shall be charged on the Penalties on SLA's.
- VI. Penalties shall not exceed 100% of the monthly/ quarterly bill. If the penalties exceed more than 50% of the total monthly/quarterly bill, it will result in a material breach. In case of amaterial breach, the Supplier will be given a cure period of one month to rectify the breachfailing which a notice to terminate may be issued by the NETF.

S.No.	Service Level objective	Measurement	Target/Service level	Penalty		
		Methodology				
		Availabil	ity/Uptime			
1.	Availability/Uptime of	Availability (as per	Availability for each	Default on any one or more of the		
	cloud services	the definition in the	of the provisioned	provisioned resources will attract		
		SLA)	resources: >=99.5%	penalty as indicated below.		
				 < 99.5% & >= 99.25% (5% of the Monthly/ quarterly Payment) < 99.25% and >= 99.00% (10% of the Monthly/quarterly Payment) <99.00% (15% of the Monthly/ quarterly Payment) In case the services are not available for a continuous period of 8 Business Hours on any day, penalty shall be 100% of the Monthly/Quarterly Payment of the Project. 		
	Support Channels – Incident and Helpdesk (as per Clause 2.A.11)					

2.	Response time	Average Time taken	95% within 15	< 95% (1% of the Monthly/
		to acknowledge and	minutes	quarterly Payment for each
		respond, once a		percentage drop below 95%)
		ticket/incident is		
		logged		
		through one of the		
		agreed channels. This		
		is calculated for all		
		tickets/incidents		
		reported within the		
		reporting month.		
3.	Time to Resolve -	Time taken to resolve	For Severity 1, 99%	• < 99% & >= 97% (5% of the
	Severity 1	the	of the incidents	Monthly/ quarterly
		reporte	should be resolved	Payment
		d ticket/incident	within 30 minutes of)
		from the time of	problem reporting	• < 97% & >= 95% (10% of
		logging.		the Monthly/
				quarterlyPayment)
				 < 95% (15% plus 1% of the Monthly/ quarterly Payment
				for each percentage drop
				below 95%)
4.	Time to Resolve -	Time taken to resolve	95% of Severity 2	• < 95% & >= 90% (2% of the
	Severity	the	within 4 hours of	Monthly/ quarterly
	2,3	reporte	problem reporting	Payment)
		d ticket/incident	AND 95% of	• < 90% & >= 85% (4% of the
		from the time of	severity 3 within 16	Monthly/ quarterly
		logging.	hours of problem	Payment)
			reporting	• < 85% (6% plus 1% of the
				Monthly/ quarterly
				Payment
				for each percentage drop
				below 85%)

- VII. Maximum cumulative penalty cannot exceed 10% of the work order value after which theNETF may cancel the work order on mutual consent by providing notice period of 30 days and forfeit the Performance Securitysubmitted by the Supplier. This cumulative penalty cap is hit twice against various work orders, then NETF will forfeit all the Performance Security submitted by the Supplier and may also lead to termination of the contract.
- VIII. The above-mentioned SLAs are subject to the NETF requirement. If request for morestringent SLA's, then it is responsibility of the bidder to provide the SLAs at no extra costto NETF.
- IX. Severity Levels
 - i. Below severity definition provide indicative scenarios for defining incidents severity. However, NETF will define / change severity at the time of the incident or any time before the closure of the ticket based on the business and compliance impacts.

Severity Level	Description	Examples
Severity 1	Environment is down or major malfunction resulting in an inoperative condition or disrupts critical business functions and requires immediate attention. A significant number of end users (includes public users) are unable to reasonably perform their normal activities as essential functions and critical programs are either not working or are not available	 Non-availability of VM. No access to Storage,software or application
Severity 2	Loss of performance resulting in users (includes public users) being unable to perform their normal activities as essential functions and critical programs are partially available or severely restricted. Inconvenient workaround or no workaround exists. The environment is usable but severely limited.	Intermittent network connectivity
Severity 3	Moderate loss of performance resulting in multiple users (includes public users) impacted in their normal functions.	

_3. Documents required to be submitted along with the technical bid The bidder should submit the following documents as part of bid:

The bidder is requested to submit the following documents offline to the O/o CCO (NEAT), NETF, AICTE HQ, Nelson Mandela Marg, Vasant Kunj, New Delhi 110070 before the start of Public Online Tender Opening Event in a Sealed Envelope bearing the project name, the tender number and the words 'DO NOT OPENBEFORE' (due date & time).

- a. Original copy of the EMD Security in the form of Demand Draft
- b. Original copy of the power-of-attorney.

Note: The Bidder must also upload the scanned copies of all the above-mentioned original documents as Bid-Annexure during Online Bid-Submission on GeM portal.

The Online Technical Bid (.PDF complete in all respect) must be uploaded online as explained below: -

Annexure A – Declaration Sheet format				
Annexure B – Letter of Undertaking				
Annexure C – Power of Attorney				
Annexure D - Performa for Declaration from bankon Proceedings Under Insolvency and				
Bankruptcy Code, 2016				
Annexure E - Undertaking for Non-Blacklisting				
Annexure F - Technical Bid Submission Letter				
Annexure G - Eligibility Criteria				
Annexure H - MeitY empanelled CSP Authorization Form				
Annexure I - Annual Turn Over Form				
Annexure J - Technical Evaluation Criteria				
Annexure K – Data Centre Location Certificate				
Annexure L – Technical Compliance for CSP Services				
Annexure M – Technical Compliance for other Cloud related services				
Annexure N – Compliance for tendering in india				
Annexure O – Relaxation of EMD for MSME vendors to be substituted by BID Security Declaration				

4. Responsibilities of Bidder/Cloud Service Provider:

- I. Bidder shall be responsible for setting up, installation, configuration, management, upgradation, and migration of application servers, database servers/storage.
- II. Maintain and manage the required network components for the cloud services procured by NETF. Setup and configure the VMs, storage, Network, Database etc. at DR site meeting RPO and RTO (Recovery Time Operations) requirements of NETF Service provider shall provide access to logs for analysis.
- III. Service provider shall not delete any data before without approval of NETF during the period of Contract and will not delete any data after the expiry of Contract without written approval from NETF.
- IV. Service provider shall be responsible for implementation, management and monitoring of DDOS, IPS, IDS Services, etc. as per best practice and industry standards
- V. Service provider will implement anti-malware and conduct regular vulnerability scanning and penetration testing of systems and infrastructure twices in a year.
- VI. Service provider shall have public Services in DMZ zone and High security services in MZ Zone.

- VII. Service Provider shall configure external connections to the hosting infrastructure required to upload database/files etc.
- VIII. Service provider is expected to understand the complete architecture of existing applications and processes necessary for smooth migration of applications and databases including interdependencies between applications and data.
 - IX. Service provider shall be responsible for deployment of Security patches on Hardware and Software.
 - X. Bidder will be responsible for migrating to cloud and managing the cloud services.
- XI. The bidder shall be responsible to monitor the cloud services and ensure 99.9 % uptime of all services as per agreement.
- XII. Establishing VPN Site to Site connectivity between NETF's premises to cloud DC and DR site.
- XIII. Deployment of New Applications on cloud, security administration, planning and implementation of cloud management and monitoring portals for complete infrastructure and services procured.
- XIV. Bidder shall be responsible for monitoring and reporting services.
- XV. Bidder shall provide 2 Cloud engineers/cloud professionals initially for a period of one year on site at NETF Headquarters. Technical resource must have skillsets of networking, Linux OS management, Managing Virtual Machine, experience in managing and monitoring different cloud platforms, integration of cloud services with applications, Cloud security, Virtual Machine Backup policies, Setup and managing Disaster Recovery services, Upscaling, Downscaling and auto scale of Virtual Machines and Migration of existing infrastructure to different clouds.
- XVI. Provide access to NETF for installation/commissioning and management of Virtual Machines.
- XVII. Provisioning of scalable storage capacity as per requirements of NETF and availability of such services as per agreement.
- XVIII. Service provider shall ensure committed time taken for restoration of data from Backup as claimed.
- XIX. Service provider should ensure and meet all standard data formats for data transfer /portability from cloud to NETF machines and vice-versa.
- XX. Service provider shall demonstrate/Submit documentary proof for POC (Proof of Capability) as part of technical evaluation to understand the key features such as AUTO Scale up/down, Security protocols, Denial of Service (DoS, DDoS) attack), management and administration and audit capabilities of offerings, setting up of DR facilities, etc.
- XXI. Service Provider shall provide inter-operability support with regard to APIs and Data Portability.
- XXII. Service provider shall be responsible for security of Facilities, Physical Security of Hardware, Network infrastructure and virtualization Infrastructure.
- XXIII. Service provider shall be responsible for any Risk Management and planning, or issues related to migration of data from DC to DR.
- XXIV. Service Provider shall be responsible for managing services provided by third party vendors.
- XXV. Service provider shall workout migration plan for co-existence of non-cloud and cloudarchitecture during and after the migration period in close coordination with NETF.
- XXVI. Service provider shall provide necessary training to NETF or its Systems Integrator on management of cloud VMs.
- XXVII. Service provider shall provide necessary technical documentations, design documentations, standard Operating Procedures (SOPs) required for operations and management of services.
- XXVIII. All risk management related to migration, migration plan shall be jointly worked out with NETF and Cloud Service Provider.
- XXIX. Service provider shall have provision to provide and support additional VM requirements and related services.

- XXX. Service provider shall assist NETF in planning for capacity building to meet growth and peak load assessment at the end of first year to ensure future requirements of NETF are addressed.
- XXXI. The service provider shall provide necessary details including sizing, current loads, utilization, expected growth/demand and other details for scale up/scale down at the end of first year in close coordination with NETF.
- XXXII. Service provide shall provide Annual Technical Support from OEM under (Software procured as PaaS) during entire period of Contract.
- XXXIII. NETF and Service provider shall jointly workout multi-factor authentication for root account as well as any other privileged identity and access account associated with it.
- XXXIV. Service provider shall be responsible for implementation of tools and processes for monitoring the availability of applications, responding to system troubleshooting.
- XXXV. Monitoring of performance, resource utilization and other events such as failure of services, degradation of services, availability of network, storage, Database systems, OS etc.
- XXXVI. Provide the relevant reports, including real time as well as past data/reports on dashboard.
- XXXVII. Service provider shall be responsible for conduct of DR Drills and follow Standard Operating Procedures (SOP) and inform NETF in advance for such drills conducted twice a year normally, with 15 days' prior notice.
- XXXVIII. There should not be any data loss during backup from DC to DR.
- XXXIX. Service Provider shall monitor Internet Links, MPLS -VPN including bandwidth, data transfer, response time and packet loss and perform corrective measures.
 - XL. After the implementation of exit process, cloud service provider will delete/remove VMs, contents and data with approval of NETF and ensure data cannot be forensically recovered and intimation of compliance thereafter.
 - XLI. The Service Provider will train and transfer the knowledge to the replacement agency or NETFto ensure continuity and performance of services post expiry of Contract.

5. Role of NETF/ NETF's Systems Integrator

- I. NETF/ NETF's System Integrator shall be responsible for management of all NETF webapplications hosted on Service provider's platform/Data Center.
- II. NETF shall be responsible for all web application SLA with systems Integrator.
- III. NETF shall be responsible for design/development and management of all web applications.
- IV. NETF shall be hosting applications on Service provider's platform which include application configuration, addition and deletion of modules and ensure application functionality as per end user's requirements.
- V. NETF shall be responsible for planning and sizing of applications along with its architecture.
- VI. NETF shall be responsible for remote administration of applications on VMs provided by Service provider through VPN.
- VII. NETF will estimate the requirements of Infrastructure resources (like VMs, Storage etc.) for different environments such as production, pre-production (non-live environment), test environment etc.
- VIII. NETF will work out minimum resource requirements as well as indicative requirements of services like IP address/Load/Data transfer in Local and DR site etc.
 - IX. NETF shall also share with service provider the listing of existing Software licenses already procured by NETF (OS/DB...) including its upgrades if any, and if required.
 - X. In case of New Projects NETF will procure academic software licenses for windows and MS SQL and ask the bidder to use the same on quoted cloud services or may procure/ subscribe the minimum required licensees as part of PaaS (Platform as a Service)

- XI. NETF will specify additional Security requirements for some applications like PCI-DSS. Data Encryption, Third Party authentication support (e.g. e-sign/Digital signing Certificates) for Payment gateway requirements.
- XII. NETF shall define the data retention period for all applications as per need basis application- wise.
- XIII. NETF shall define the Log retention policy, application-`wise as per need.
- XIV. NETF shall work out estimated size of data for backup wherever possible.
- XV. NETF shall be responsible to conduct of regular vulnerability scanning and penetration testingof applications and fixing up of such vulnerabilities.

6. Pre-Bid Conference

The queries should necessarily be submitted in the following format:

RFP Description	on		
RFP No.			
Organization			
Address			
Contact Person			
Contact No.			
Mail Id			
S. No.	PageNo	Clause	Clarification
		as perRFP	Sought

7. General Conditions

S. No.	Item Description					
1	Monitoring tools shall not capture or send NETF data to any other establishment					
	over Cloud.					
2	The E-BIDDER shall have to enter in SLA (Service Level Agreement) with NETF. E-BIDDER					
	should have ability to Integrate with Digital Certificate/signature and other similar					
	services like email/SMS obtained by NETF from Third party.					
3	The ownership of Data as well as application shall be of NETF and NETF can ask for					
	fullcopies of Data and applications at any time.					
4	E-BIDDER shall provide complete inter-operability support with regard to available APIs,					
	data Portability, application portability in case NETF decides to Change the cloud service					
	provider including DR or backups.					
5	No data shall be shared with any Third Party without written approval of Competent					
	Authority of NETF unless legally required by Court Orders.					
6	E-BIDDER shall be responsible for managing and controlling the underlying cloud					
	infrastructure including O.S, Storage, network, Security. Deployed Applications shall be					
	managed and controlled by NETF					
7	As part of PaaS the e-Bidder shall provide all necessary technical support for backend					
	infrastructure like O.S, Databases etc.					
8	Prior Intimation (at least 15 days) shall be given to NETF by Service provider for					
	any scheduled maintenance of servers.					

0	The E Bidder shall be responsible for all ungrades of Operating systems. Database and
9	related tools including patch management
10	
10	CSP/E-BIDDER shall have to enter into non-disclosure agreement with NETF for
	data/documents stored on Data Centre.
11	SLA shall have exit Clause based on mutual Terms and conditions.
12	E-BIDDER shall be responsible for Data and Application Migration of existing applications,
	which NETF would like to migrate to new environments of cloud. Necessary requirements
	shall be shared by NETF in phased manner.
13	E-Bidder shall be responsible for deploying new applications on Cloud, user administration,
	security administration, planning and implementation with monitoring tools for
	infrastructure and Services procured.
14	The e-Bidder shall ensure minimum Three years of services extendable with mutual
	consent with exit clause in SLA.
15	The Billing Cycle shall be quarterly and services to be quantified on monthly
	subscription/ utilisation basis.
16	NETF may or may not seek all services in one go, however, E-BIDDER shall provide the
	services on demand basis for which Billing shall be from the date of initiation of such
	services and actual utilization.
17	The E-Bidder shall provide along with Invoices, consumption report to supplement
	the Invoices.
18	Appropriate penalty shall be applied as per Service Level Agreement mutually
	acceptable toNETF and Service provider.
19	The development and testing requirements may be different than production
	requirements, hence upscaling and downscaling should be possible.
20	Service Provider should be able to provide load balancing for proper distribution of
	traffic.
21	The load balancing should be I supporting Database as well.
22	Services providers should be in position to provide DR Services.

8. Requirements of NETF on cloud * (Please Fill equivalent table above)

	laaS services (existing or equivalent configuration) on intel based processor				
S.NO	VM NAME	OPERATING SYSTEM	Existing infra Size	Disk1	DISK2
1	AICTEFIVM	Linux (centos 7.8.2003)	Standard E16s v3 (16 vcpus, 128 GiB memory) 25600Max IOPS	Premium SSD LRS 510 -Size (GiB); 2300-Max IOPS; 150-Max throughput (MBps)	Premium SSD LRS 510 -Size (GiB); 2300 Max IOPS; 150 Max throughput (MBps)
2	AICTEINTVM01	Linux (oracle 8.6)	Standard_E16s_v3(16 vcpus, 128 GiB memory) 25600Max IOPS	Premium SSD LRS 30 -Size (GiB); 120-Max IOPS; 25-Max throughput (MBps)	Premium SSD LRS 2048 -Size (GiB); 7500-Max IOPS; 250-Max throughput (MBps)

3	AICTENATSWEB0 1	Linux -Oracle	Standard_E16s_v3 (16 vcpus, 128 GiB	Standard SSD LRS	Premium SSD LRS
			memory)	1024 -Size (GiB);	5120 -Size (GiB);
			25600Max IOPS	500-Max IOPS;	16000-Max IOPS;
				60-Max	500-Max throughput (MBps
				throughput	
				(MBps)	
4	AICTEIITMD1	Linux (ubuntu	Standard D16s v3 (16	Standard HDD	
		20.04)	vcpus, 64 GiB memory)	LKS 500 Size (GiB):	
			25600Max IOPS	500 - Size (OID), 500 - Max IOPS	
				60-Max	
				throughput	
				(MBps)	
5	AICTEIITMD2	Linux (ubuntu	Standard D16s v3 (16	Standard HDD	
		20.04)	vcpus, 64 GiB memory)	LRS	
			25600Max IOPS	500 -Size (GiB);	
				500-Max IOPS;	
				60-Max	
				throughput	
6		Linux ContOS	Standard D22days (22	(MBps)	
0	AICTERELEVIVIT	Linux-Centos		Premium SSD LKS	FIEIHIUHI SSD LKS
			memory)	250 -5120 (GIB), 1100 May 1005	04 - 5120 (GID),
			51200 Max IOPS	125-Max	150-Max throughout (MBns)
			31200 Max1013	throughput	130-Max throughput (Mbbs)
				(MBps)	
7	NEAT-CELL-DEV-	Linux (centos	Standard E16s v3 (16	Premium SSD LRS	Premium SSD LRS
	VM	7.9.2009)	vcpus, 128 GiB	128 -Size (GiB);	512 -Size (GiB);
			memory) 25600Max	500-Max IOPS;	2300-Max IOPS;
			IOPS	100-Max	150-Max throughput (MBps
				throughput	
				(MBps)	
8	NEAT-CELL-TEST-	Linux (centos	Standard E16s v3 (16	Premium SSD LRS	Premium SSD LRS
	VM	7.8.2003)	vcpus, 128 GiB	30 -Size (GiB);	512 -Size (GiB);
			memory) 25600Max	120-Max IOPS;	2300-Max IOPS;
			IOPS	25-Max	150-Max throughput (MBps
				throughput	
				(IVIBps)	
9	AICTEHELPVM2	Linux (centos	Standard D16s V3 (16	Premium SSD LRS	
		7.7.1908)		30 -SIZE (GIB);	
			23000 Widx IOF 3	120-IVIAX IOPS;	
				throughput	
				(MBps)	
10	debugvmwin-V2	Windows	Standard E16s v3 (16	Premium SSD I RS	Premium SSD LRS
		(Windows	vcpus, 128 GiB	2048 -Size (GiB):	128 -Size (GiB):
		Server 2019	memory)	7500-Max IOPS:	500-Max IOPS:
		Datacenter)	25600 Max IOPS	250-Max	100-Max throughput (MBps
				throughput	
				(MBps)	
11	ONODAPPBE01	Linux (oracle	Standard E16bds v5 (16	Premium SSD LRS	Premium SSD LRS

		8.7)	vcpus, 128 GiB	128 -Size (GiB);	128 -Size (GiB);
			memory)	500-Max IOPS;	500-Max IOPS;
			44000-Max IOPS	100-Max	100-Max throughput (MBps
				throughput	
				(MBps)	
12	ONODAPPFE01	Linux (oracle	Standard E16bds v5 (16	Premium SSD LRS	Premium SSD LRS
		8.7)	vcpus, 128 GiB memory)	128 -Size (GiB);	128 -Size (GiB);
			44000-Max IOPS	500-Max IOPS;	500-Max IOPS;
				100-Max	100-Max throughput (MBps
				throughput	
				(MBps)	
13	ONODDB01	Linux (oracle	Standard E32ds v5 (32	Premium SSD LRS	Premium SSD LRS
		8.7)	vcpus, 256 GiB	128 -Size (GiB);	500 -Size (GiB);
			memory)	500-Max IOPS;	2300-Max IOPS;
			51200-Max IOPS	100-Max	150-Max throughput (MBps
				throughput	
				(MBps	

14	voiceq	abe01	Linux (oracle	Standard D4as v4	Standard SSD LRS	Standard SSD LRS
			8.7)	(4 vcpus, 16 GiB		
				memory) IOPS -	128 -Size (GiB);	256 -Size (GiB);
				6400	500-Max IOPS;	500-Max IOPS;
					60-Max throughput	60-Max throughput
					(MBps)	(MBps)
15	voiceq	adb01	Linux	Standard_D4ds_v5	Standard SSD LRS	Standard SSD LRS
				(4 vcpus, 16 GiB		
				memory) IOPS -	128 -Size (GiB);	256 -Size (GiB);
				6400	500-Max IOPS;	500-Max IOPS;
					60-Max throughput	60-Max throughput
					(MBps)	(MBps)
16	voiceq	afe01	Linux	Standard_D4ds_v5	Standard SSD LRS	Standard SSD LRS
				(4 vcpus, 16 GiB		
				memory) IOPS -	128 -Size (GiB);	256 -Size (GiB);
				6400	500-Max IOPS;	500-Max IOPS;
					60-Max throughput	60-Max throughput
					(MBps)	(MBps)
		PaaS Services (existing or equivale	nt configuration)		
	NAME		RESOURCE TYPE	Existing infra Size		
				General Purpose,		
			Database	64		
1	NETFh	elpdb	for MySQL	vCore(s), 1334		
			single server	GB Storage		
			0	(Auto growth)		
				General Purpose		
				D64ds_v4, 64		
			Database	vCores, 256 GiB		
2	Natsm	ysqldb	for MySQL	RAM, 664		
			flexible	storage		
			server	- 0 -		
L	1					

	SaaS Services (existing or equivalent configuration)					
1 4. T ა §ilio SendGrid - Pro					(Bulk Mail Solution)	
	30 e 0K					
	r	Cognitive servi	ce			
	N ¤ ME		KIND	TIER		
1	Spleech	Services	Speech Services	S0		
2	Tr a nsla	ator	Text Translation	S1		
	е	Application gat	eway (WAF V2) (ex	isting or equivalent of	configuration)	
	NÂME					
1	AHAPP	GTW				
2	NETF_/	AppGW				
	ZSIND-	NETF-PRD-				
3	MOEN	ATS-				
	AĞW					
VM ser	ies (exis	sting or				
equival	lent <mark>u</mark>		Desired			
configu	ration)		Configuration			
V		256 GB RAM, 32				
	L392 (in	itial 20	Core,			
1	quantit	ty	NVMe storage,			
	reauired)		51200			
n		iOPS				
	t					

A. Services required as per best practice and industry standards

- I. VMs as above with Linux/Windows Platform
- II. Linux box with Angular.js, Laravel, Php, mysql, node.js, server with apache/nginix/iis anyversion php version greater than or equal to 7.0.
- III. Database: MYSQL/MONGO DB /Postgre SQL or any other open-source Database
- IV. Backup of Database and applications Locally and on DR
- V. Inter and Intra Region Data Transfer
- VI. Bandwidth
- VII. Log activation
- VIII. Log Analysis
- IX. Disk Read/Write operations
- X. Static and Dynamic IPs
- XI. VPN services
- XII. Dash Board for NETF administrator for Monitoring VMs and reports, Utilisation of resources.
- XIII. Load Balancing
- XIV. Web application Firewall(WAF) Services.
- XV. Anti-Virus and patch management

XVI. Domain URL mapping

XVII. Any other relevant services which may be required in future

Note: *Model to be used: "Pay as You Go" on monthly consumption basis.

B. Basic Service or equivalent services as per best practice and industry standards:

S. No.	Service Category	Minimum Requirement for compliance
1.	Compute	 Must support variety of operating systems including: Linux, Ubuntu, Windows Server, RedHat Enterprise Linux, SUSE Linux Enterprise Server, openSUSE Leap, Fedora, Fedora CoreOS, Debian, CentOS, Gentoo Linux, OracleLinux, and FreeBSD Should be capable to deploy across multiple datacenters Should support autoscaling on the basis of CPUutilization Platform should have capability to spin upthousands of instances in minutes Should provide Intel-based processor Should support block storage and temporary block storage (to store Information that changesfrequently, such as buffers, caches, scratch data, and other temporary content) Also support Block Storage Encryption
2.	Storage	 Block Storage Block Storage must provide 99.9% SLA Block Storage should support volumesnapshot Object storage Object Storage must provide strong readafter write consistency Object Storage should unlimited scalestorage. Object Storage must support intelligent data tier on the basis of data use. Also have built in capability to analyze storage accesspatterns to help you decide when to transition the right data to the right storage class Object Storage should have integration withHSM to provide inherent capability of encryption
		 File Storage File Storage should span across multipleavailability zone Backup Storage Archival Storage Retrieval of Archival Storage All the storage supports Data Encryption
3.	Network	 Isolated Network defined at regional level mustbe able to span to multiple availability zones Private network connectivity between VPCs, services, and on-premises applications Securely deliver data, videos, applications, and APIs to customers globally with low latency, and high transfer speeds Should have capability to communicate withobject storage using private network Also supports private link between on promise tocloud infrastructure Should provide Native Firewall with Stateful andstateless rules along with IPS capability.
4.	Security	 CSP must provide native service for security like Identity & access management Manage user access and encryption keys Single Sign on Service for Cloud Centralize Governance and ComplianceManagement Detection Control

		 Al Powered Threat Detection Service Unified Security and ComplianceDashboard Vulnerability Assessment Record and Evaluate Configuraion Track API and User Activity Infrastructure Protection Network Firewall with IPS capability Web Application Firewall DDoS protection Central Management of Firewall Rules Data Protection: Sensitive Data Discovery and Protection Encryption Key storage and KeyManagement (FIPS compliant) FIPS Compliant Fully managed scalableHardware Security Module Central Store to Encrypt, Rotate, manageand retrieve secrets HSM Should support FIPS 140-2 Level 3 for thestorage of encryption keys ssl certificates etc. as managed service Should provide managed backup service for HSM Cluster to provide ability of restoration of keys in case of any failure ofHSM device
		Fast and Automated Control for DisasterRecovery and Ransomware Recovery
5.	Management andGovernance	 Automate, configure and update your resources Must have capability to enforce organizationlevel security compliance and governance Should have capability to ensure continuouscompliance Should trigger events and alerts on non- conformance on defined organization level governance and should have capability prevent the configuration changes.
6.	Monitoring and	Should provide detail monitoring of resourcesand services
	Alert	Should have capability to define custom alertsand matrices for resources
	Management	 Ability to store log and analyse logs using SQLquery statement.
		 Must have capability to trigger events, alerts andalarm Must provide capability to automate
7.	Migration	 Database Migration Service should supporthomogeneous and heterogeneous database replication Storage Transfer Service should provide capability to extend on premise application to cloud storage, also provide capability for petabyte scale data transfer

C. Advance Services or equivalent services as per best practice and industry standards:

S. No.	Service Category	Minimum Requirement
1.	Containers	 Share and deploy container software, publicly or privately
		 Manage containers withKubernetes
		 Should provide private or publicdedicated container registry to store ,
		deploy and share the containers
		Should also provide platform torun container without managingservers
		 Should also help to containerizeand migrate existing application
		Cloud service should support deployment of Docker containerwith
		orchestration (Kubernetes/any native orchestration System)

2.	Serverless	 Should be managed Platform
		 Should provide capability toscale zero to peak demands
		• Must have built in fault toleranceand support event driven architecture
		 Must have set of native services available to enable communication
		between decoupled components within microservices, distributed
		systems, and serverless applications.
		• Must have serverless backend (compute, integration, and data stores) to
		run serverless workload
3.	Managed Database Services	 It should be cloud managed platform for following database
		 RDBMS (MS SQL server, MySQL, Postgresql, MariaDB)
		Graph Database
		Blockchain Database
		NoSQL Database
		In Memory Database
		 MongoDB CompatibleDatabase
		 All the database platform supports high availability and fault tolerance
		 All these database platformsshould be scalable
		 Must provide auto scalable serverless platform for MySQLand PostgreSQL
		• All these databases must supportencryption for data at rest and data in
		transit.
		 Database platform must supportmulti-region, multi-master replication
		 Database platform must providefull oversight of your data with multiple
		levels of security, including network isolation, andend-to-end encryption
4.	DevOps	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place
4.	DevOps	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run.
4.	DevOps	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline
4.	DevOps	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application
4. 5.	DevOps Analytics & Visualisation	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for
4. 5.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics
4. 5.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning Analytics service should be serverless - No need to provisionor maintain
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning Analytics service should be serverless - No need to provisionor maintain any servers. There isno software or runtime to install,maintain, or administer.
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning Analytics service should be serverless - No need to provisionor maintain any servers. There isno software or runtime to install,maintain, or administer. Should have built-in availabilityand fault tolerance.
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning Analytics service should be serverless - No need to provisionor maintain any servers. There isno software or runtime to install,maintain, or administer. Should have built-in availabilityand fault tolerance. Ingest, buffer, and process streaming data in real-time toderive insights in seconds or minutes
4.	DevOps Analytics & Visualisation Services	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps—all in one place Developers can regularly merge their code changes into a central repository, after which automatedbuilds and tests are run. Must provide fully managed service to implement end to end CICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics andMachine Learning Analytics service should be serverless - No need to provisionor maintain any servers. There isno software or runtime to install,maintain, or administer. Should have built-in availabilityand fault tolerance. Ingest, buffer, and process streaming data in real-time toderive insights in seconds or minutes Handle any amount of streamingdata and process data from hundreds of

		 Securely stream video from connected devices for analytics,machine learning and other processing A built-in suggestion engine thatprovides users with recommended visualizations based on the properties of the underlying datasets. Share business insights by packaging them up as interactivestories that users can share with others.
6.	Al and machine learning	 Cloud service should support provisioning. Managed Service/Notebook for writing/training and support various python/R based ML library like Tensorflow, SCi-Kit,Pytorch, XGBoost Cloud service should support Services for deploy Trained MLalgorithm for inferencing Cloud service should supportmanaged ML API for Translation, Speech, Image/Video Analysis Must have ready-made AI capability which can be easilyintegrated with available appsand workflow for enhance business out come Must provide capability to build,train, and deploy ML models Should provide platform like Tensor Flow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms
7.	Internet of Things	 Should be fully managed nativeservices Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure IoT devices Should Provide facility to easy tocollect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easyto visually connect different devices and web services to build IoT applications
8.	Application integration tools	 Must provide native control andcapabilities to Create, publish, maintain, monitor, and secure APIs atany scale for serverless workloads and web applications Create a flexible API to securely access, manipulate, and combine data from one or more datasources event-driven architecture Reliable high throughputpub/sub

		 Should support No CodeAPI Integration Should provide managed workflow platform like ApacheWorkflow
9.	Hybrid cloud	 Should help to run and manage applications wherever they mayneed to reside It must provide infrastructure, APIs, services, and tools wherever applications may needto reside to meet low latency, local data processing, or data residency requirements. Should have native service available to build secure and compliant hybrid cloud architectures Should also support cloud nativeInfrastructure services, API and tools to work seamlessly on- premise and cloud.
10.	Media	 Fully Managed service which supports transport, prepare, process, and deliver live and on-demand content This CSP should have services that allows the customers to build intelligent video analytics solutions that can be deployed on cloud. Should provide capability to integrate with 3rd Party Platformfor media storage, machine learning, content protection, monetization campaigns etc.
11.	Mobile/Mobile Applicatio nDevelopment Requirement	 It should be fully Managed Services to create, configure, andimplement scalable mobile applications Should supports user sign-up,sign-in, and access control to your web and mobile apps. Must support social identityprovider and custom identityprovider Cloud service should support provisioning of Backend no SQLdatabase for mobile application Cloud service should support provisioning of Object Store to support uploading of binary files Cloud service should support feature of Static Web Contenthosting
12.	Big Data	 Should provide managed platform for processing vast amounts of data using open source tools such as Apache Spark, Hivc, HBase, Flink, Hudi and Presto Should have capability to runpetabyte-scale analysis Should also provide Platform for Data Visualization & Visual Data Preparation , Real Time Data Movement and Machine Learning

D. Specialized Services and Licensing

The cloud services provider/bidder should be capable of providing the following services as NETF has developed some applications using below technology/Services:

- I. Microsoft Translation services API (Cognitive Service)
- II. Bulk email services or equivalent services
- III. MS Office 365 enterprise
- IV. Supports online Video streaming, storage and Archival like PowerApp Studio or similar Tools.

V. CDN (Content Delivery Network) Services

Note: The above requirements are indicative and NETF has the right to increase/decrease during the implementation process as per need. During the Technical Evaluation the vendor shall host one of the above application/services on the cloud and will demonstrate the successful functioning of the application. For example, application having feature of Microsoft cognitive services API like text to speech or vice versa and voice translation of multiple Indian languages. During the technical demonstration bidder should provide the infra to run and test the application functionality provided by the NETF and perform the task like dynamic and autoscaling, load and performance testing. After successful selection after bidding, Person(s) demonstrating during the technical demonstration should be deployed in NETF for working at least for next one year.

9. Service Level Agreement:

The bidder shall be required to enter into SLA (Service Level Agreement) which will clearly define the roles/responsibilities and other clauses as applicable and acceptable by NETF and Bidder.

10. Performance Security Deposit

The successful bidder shall have to deposit a Performance Security Deposit of the 10% of the total amount of work order within **15 days** of the receipt of the LOI/Order. The performance security deposit will be furnished in the form of Demand draft drawn in favor of **NETF.** The performance security deposit should be valid for sixty days beyond the date of completion of all contract obligations/warranty period.

11. Terms of Payment

The payment shall be made on submission of the bills on quarterly basis. The bill submitted by the bidder should be duly certified by the concerned project officer of NETF. No advance payment will be made. Payment shall be made only on the basis of actual consumption of services, duly supported with the requisite details of services and consumption report.

Invoice (i.e. Tax invoice as per Service Tax rules clearly indicating Tax registration number, Service Classification, rate and amount of Tax shown separately). The Service provider will submit a bill, in the name of NETF. No claim for interest will be entertained by the NETF in respect of any payment/deport which will be held with the NETF due to dispute between NETF and Service provider or due to administrative delay for the reasons beyond the control of NETF.

All Taxes as per applicable by Govt. of India from time to time will be deducted from all payments made by NETF. The payment is mandatory through NEFT/RTGS only.

12. Exit Management Clause

- NETF intends to use cloud services provided by the service provider for a period of 3 years and service provider shall enter into a 3-year contract agreement with NETF initially. However, NETF reserves the right to terminate the contract at any point of time without any explanation by giving 3 months' notice.
- II. The bidder shall be responsible for providing the tools for import / export of VMs & content on offline physical storage devices, as agreed by NETF, and shall be responsible for preparation of the Exit Management Plan and carrying out the exit management / transition at no extra cost.
- III. In the event of change of accreditation of bidder (Lower accreditation, losing partnership) NETF reserves the right to terminate the contract.
- IV. The bidder is responsible for both Transitions of the Services as well as Migration of the VMs, Data, Content and other assets to the new environment at no extra cost.
- V. The format of the data transmitted from the cloud service provider to the new environment created by NETF or any other Agency should leverage standard data formats. On expiration / termination of

the contract, Bidder will need to handover complete data in the desired format to NETF which can be easily accessible and readable without any additional cost to NETF. Data so received should be transportable to any other Public/Private cloud.

- VI. The bidder shall carry out the migration of the VMs, data, content and any other assets to the new environment created by NETF or any other Agency (on behalf of NETF) on alternate cloud service provider's offerings to enable successful deployment and running of NETF solution on the new infrastructure including software licenses at no extra cost.
- VII. The bidder shall ensure that all the documentation required by NETF for smooth transition (in addition to the documentation provided by the Cloud Service Provider) are kept up to date and all such documentation is handed over to NETF during regular intervals as well as during the exit management process.
- VIII. If the bidder fails to meet the guidelines & standards as set by Government of India and NETF.

13. General Instructions/Terms and conditions

- I. While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Bidders must form their own conclusions about the solution needed to meet the requirements. Bidders and recipients of this RFP may wish to consult their own legal advisors in relation to this RFP.
- II. All information supplied by Bidders may be treated as contract binding on the Bidders, on successful award of the assignment by NETF on the basis of this RFP.
- III. No commitment of any kind, contract or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of NETF.
- IV. NETF reserves the right to cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of NETF
- V. This RFP super cedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.
- VI. Examination of RFP Documents in preparing the proposal, Bidder is expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested in the RFP documents may result in rejection of a Proposal.

14. Conflict of Interest

NETF requires that Bidder provides professional, objective and impartial advice and at all times hold the NETF interest's paramount, avoid conflicts with other assignments or their own corporate interests and act without any consideration for future work. Bidder shall not be recruited for any assignment that would be in conflict with their prior or current obligations to other clients, or that may place them in a position of not being able to carry out the assignment in the best interest of NETF. Without limitation on the generality of the foregoing, Bidder and any of their associates shall be considered to have a conflict of interest and shall not be recruited under any of the circumstances set forth below:

- I. If there is a conflict among implementation, operation and maintenance of IT Integrated solution assignments, the Bidder (including its personnel and sub-consultants) and any subsidiaries or entities controlled by such Bidder shall not be recruited for the relevant assignment.
- II. A Bidder cannot be recruited to carry out an assignment that, by its nature, will result in conflict with another assignment of such Bidder.

15. Code of integrity

No official of a procuring entity or a bidder shall act in contravention of the codes which includes

A. Prohibition of:

- i. Making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
- ii. Any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
- iii. any collusion, bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.
- iv. improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain.
- v. any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract; which can affect the decision of the procuring entity directly or indirectly.
- vi. any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
- vii. obstruction of any investigation or auditing of a procurement process.
- viii. making false declaration or providing false information for participation in a tender process or to secure a contract;

B. Disclosure of conflict of interest.

Disclosure by the bidder of any previous transgressions made in respect of the provisions of sub-clause (a) with any government entity in India during the last three years or of being debarred by any other government procuring entity.

In case of any reported violations, the procuring entity, after giving a reasonable opportunity of being heard, concludes that a bidder or prospective bidder, as the case may be, has contravened the code of integrity, the Bidder's proposal will be summarily rejected.

16. Fraud and Corruption

The Bidders is required to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the following shall apply:

- a) For the purpose of this provision, the terms are defined and are set forth as follows:
 - i. **"Corrupt Practice"** means behaviour on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the Contract of any such official in the procurement process or in Contract execution.
 - ii. **"Fraudulent Practice"** means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the borrower, and includes collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the borrower of the benefits of free and open competition

- b) NETF will reject Proposal for award if it determines that the bidder recommended for awardhas engaged in corrupt or fraudulent practices in competing for the Contract.
- c) NETF will declare a Company ineligible either indefinitely or for a stated period of time, to be awarded a Contract if it, at any time, determines that the Company has engaged in corrupt or fraudulent practices in competing for, or in executing, and the assignments awarded by NETF.

17. Compliant Proposals / Completeness of Response

- I. Bidder is advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- II. Failure to comply with the requirements of this paragraph may render the Proposal non- compliant and non-responsive and the Proposal may be rejected.
- III. Bidders must:
 - i. Include all documentation specified in this RFP;
 - ii. Follow the format of this RFP and respond to each element in the order as set out in this RFP

18. Sub-contracting

The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. As per Restriction under Rule 144(xi) of GFR 2017 has been imposed by Deptt. of Expenditure. As per Order No. F.7/10/2021-PPD(1) dated 23.02.2023 The Certificate given at Annexure N need to be submitted by bidders.

19. Queries / Clarifications on the RFP

Queries / Request for clarifications on the RFP shall be sent by Bidders through email only in the format specified in the RFP not later than the date and time specified in the 'Bidding Schedule'. All the requests shall be addressed to NETF contact person assigned as mentioned in the 'Bidding Schedule'. No request for clarification from any Bidder shall be entertained after the last date and time mentioned in the 'Bidding Schedule'.

20. Supplementary Information/Corrigendum/Amendment to the RFP

- At any time prior to the deadline (or as extended by NETF) for submission of bids, NETF for any reason, whether at its own initiative or in response to clarifications requested by the Bidder may modify the RFP document by issuing amendment(s) or issue additional data to clarify an interpretation of the provisions of this RFP.
- II. Such supplements / corrigendum to the RFP issued by NETF would be displayed on the e- Tendering
 Portal / Website of NETF and may additionally also be communicated by e-mail to the Bidders.
- III. Any such supplement / corrigendum / amendment shall be deemed to be incorporated by this reference into this RFP.
- IV. Any such supplement / corrigendum / amendment will be binding on all the Bidders.
- V. NETF will not be responsible for any misinterpretation of the provisions of this Tender document on account of the Bidders failure to update the Bid documents based on changes announced through the website.

VI. In order to allow Bidders a reasonable time to take the supplement / corrigendum / amendment(s) into account in preparing their bids, NETF, at its discretion, may extend the deadline for the submission of bids.

21. Proposal Preparation Costs

The Bidder shall be responsible for all costs incurred in connection with participation in the RFP process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of Proposal, in providing any additional information required by NETF to facilitate the evaluation process, and in negotiating a definitive service Agreement all such activities related to the Bid process. This RFP does not commit NETF to award a Contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award of the Contract for implementation of the Project.

22. Right to terminate the process

NETF makes no commitments, explicit or implicit, that this process will result in a business transaction with anyone. Further, this RFP does not constitute an offer by NETF. The RFP does not commit NETF to enter into a binding Agreement in respect of the Project with the Bidders.

23. Modification, Substitution or Withdrawal of Proposals

No Proposal may be withdrawn in the interval between the deadline for submission of Proposals and the expiration of the validity period specified by NETF. Entire Bid Security may be forfeited if any of the Bidders withdraw their Bid during the validity period.

24. Language of Bids

This bid should be submitted in English language only.

25. Ownership of Application / Documents Prepared by the Successful Bidder

All plans, specifications, designs, reports, other documents, patent and software including the all the hardware shall be absolute property of NETF. The Successful Bidder shall transfer to NETF all Intellectual Property rights. The Successful Bidder shall not use anywhere, without taking permission, in writing, from the NETF and NETF reserves right to grant or deny any such request.

26. Confidentiality

- a) The Bidder shall not use Confidential Information, the name or the logo of NETF and NETF except for the purposes of providing the Service as specified under this Contract.
- b) The Bidder may only disclose Confidential Information in the following circumstances:
 - i. with the prior written consent of NETF;
 - ii. to a member of the Bidder's Team ("Authorized Person") if:
 - the Authorized Person needs the Confidential Information for the performance of obligations under this Contract.
 - the Authorized Person is aware of the confidentiality of the Confidential Information and is obliged to use it only for the performance of obligations under this Contract. The Bidder shall

do everything reasonably possible to preserve the confidentiality of the Confidential Information to the satisfaction of NETF.

- c) The Bidder shall notify NETF promptly if it is aware of any disclosure of the Confidential Information otherwise than as permitted by this Contract or with the authority of NETF.
- d) The Bidder shall be liable to fully recompense NETF for any loss of revenue arising from breach of confidentiality. NETF reserves the right to adopt legal proceedings, civil or criminal, against the Bidder in relation to a dispute arising out of breach of obligation by the Bidder under this clause.

27. Evaluation Process

NETF shall evaluate the responses of the bidders to this RFP and scrutinize the supporting documents /documentary evidence. Inability to submit the requisite supporting documents / documentary evidence by the bidders, may lead to rejection. The decision of NETF in the evaluation of proposals shall be final. No correspondence will be entertained outside the processof evaluation with NETF. NETF may ask for meetings with the Bidders or may issue in writing/email to seek clarifications or conformations on their proposals. During the Proposal Evaluation, NETF reserves the right to reject any or all the proposals. Each of the Proposals shall be evaluated as per the criteria and requirements specified in this RFP. The Evaluation Committee (EC) constituted by the NETF shall evaluate the responses to the RFP and all supporting documents & documentary evidence as mentioned in this section of the RFP. NETF reserves the right to check/ validate the authenticity of the information provided in the Pre- qualification criteria and Financial Evaluation and the requisite support must be provided by the Bidder.

The bid evaluation will be carried out in a three-stage process as under:

A. Pre-Qualification/Eligibility Evaluation

- a) Evaluation of Technical bid
- b) Evaluation of Financial bid

Pre-Qualification/Eligibility Evaluation

- I. The evaluation of the bidders will be carried out by the Committee as per the pre- qualification / eligibility criteria defined in the tender document. Only the bidders who fulfil the given pre-qualification / eligibility Criteria shall be eligible for next round of evaluation i.e. Technical evaluation. Nonconforming bids will be rejected and will not be eligible for any -responsive. further processing.
- II. The bidder can be a CSP or an authorized partner of the CSP. In case of an authorized partner, the CSP can authorize any number of bidders for the purpose of this RFP.
- III. Each bidder (in case of authorized partner of any CSP) shall be allowed to submit the bid.
- IV. The eligibility criteria in case the bidder is a CSP empanelled with MeitY or an authorized partner of a CSP empanelled with MeitY is as per Annexure H.
- V. Notwithstanding anything stated above, the Consignee reserves the right to assess bidder's capability and capacity to perform the contract, should

circumstances warrant such an assessment in the overall interest of the NETF or project.

- VI. Technical bids will also be reviewed for compliance with the necessary instructions, terms and conditions, scope of work, formats etc. as outlined in this tender.
- VII. NETF reserves the right to physically verify the office or any document provided by the bidder in the way NETF desires.

a) Evaluation of Technical bid

- I. The evaluation of the bidders will be carried out by the Committee as per the Technical Evaluation criteria defined in the RFP document. Only the bidders who qualify in the technical evaluation round shall be eligible for next round of evaluation i.e. Financial/Financial Bid Opening. Bids of the bidders, who do not qualify in thetechnical evaluations stage, will be rejected and will not be eligible for any further processing.
- II. The technical evaluation of the bidders shall be done as per Annexure J.
- III. Only those bidders who secure a Technical Score of 80% (i.e. minimum 160 out of 200) or more shall be considered for evaluation of their Financial bid.

b) Phase II - Evaluation of Financial bids:

- I. Financial bids would be opened only for those Bidders, who secure the qualifying marks in the Technical Evaluation as explained above, on the prescribed date in the presence of bidder's representatives.
- II. It is mandatory for bidder to quote discount percentage on the CSP List pricing for the CSP services and prices for the services mentioned in financial bid Part B.
- III. The financial evaluation of the bidders will be only on value of " Grand Total discounted value " on the CSP list pricing as per Financial bid.
- IV. It is mandatory that the list price of CSP Services mentioned in the Technical compliance (Annexure L) should be available on the CSP website. The process to get the price from the CSP website (price calculator) should be explained during the presentation by the bidder.
- V. NETF award the bid to The bidder with lowest rates as per Financial Bid BOQ on the CSP List price.
- VI. In case of an abnormally High percentage and low other service prices, i.e. one in which the bid price, in combination with other elements of the bid, appears so low that it raises material concerns as to the capability of the bidder to perform the contract at the offered price. NETF may in such cases seek written clarifications from the bidder or CSP including detailed price analyses of its bid price in relation to scope, schedule, allocation of risks and responsibilities and any other requirements of the bid document. If, after evaluating the price

analyses, NETF determines that the bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, NETF may reject the Bid/Proposal. This applies for financial bid submitted at the time of bid response to be submitted as per the RFP.

- VII. The empanelment of the service providers only for the categories mentioned in Technical Compliance (Annexure L and Annexure M)
- VIII. Failure to abide the RFP conditions may result into forfeiture of EMD & PBG.
- IX. Any conditional financial bid will lead to disqualification of the entire bid and forfeiture of the EMD.
- X. Bidder quoting negative discount percentage or rates will be treated as nonresponsive and will result in forfeiture of the EMD.
- XI. Financial bid will be inspected to ensure conformance to the format provided in the tenderdocument.
- XII. If there is any discrepancy between words and figures in any part of the financial bid, the amount indicated in words will prevail.
- XIII. The bidder shall quote the discount percentage and prices as per the price format given in the BOQ Financial Bid of this RFP.

28. Notification of Award of Contract

I. NETF will notify the successful Bidder in writing or by email, that proposal has been accepted (Letter of Intent).

29. Prices

The discount prices quoted in the Financial bid shall be inclusive of all statutory duties & taxes except GST. Only GST charged in the invoice will be paid other than that no other taxes/duties/levies will be paid.

30. Additional Services

In case NETF determines that there are additional services that are being sought by the NETF, NETF may request the "Empanelled Service Providers" to submit the prices for such additional services at any time during the validity of the contract on same terms and conditions. The rates shall be submitted as per price format provided by NETF.

31. Payment Terms

- I. Payment to the Supplier shall be made in Indian Rupees through account payee cheque / NEFT / RTGS, on quarterly basis.
- II. The invoices shall be raised only using GST No. of NETF.
- III. The invoices must be based on work orders (or any amendments thereof) issued
by the NETF.

- IV. The invoices must be based on resources actually consumed and committed.
- V. The invoices should be separately generated for each work order for the particular payment period.
- VI. NETF may request for below documents (if required):
 - i. Detailed usage report (Utilization Report) providing details of the consumption of theindividual services during the payment period
 - ii. SLA measurement report
- VII. The client should provide the SLA breaches (if any) to deduct the payment against the workorder.
- VIII. Payments shall be subject to deductions / damages / penalties of any amount for which the Supplier is liable under the contract. Further, all payments shall be made subject to deduction of TDS (Tax Deduction at Source) at the rate applicable from time to time as per the Income-Tax Act, 1961 and any other applicable deductions/ taxes.

32. NETF Contract finalization and Award

The NETF shall reserve the right to negotiate with the lowest Bidder–whose Proposal has been ranked best value bid on the basis of Technical and Financial Evaluation to the proposed Project, as per the guidance provided by Central Vigilance Commission (CVC). On this basis the draft Contract agreement would be finalized for award & signing. Subsequent to receipt of valid Performance Guarantee from the successful Bidder, the parties shall enter into, incorporating all clauses, pre-bid clarifications and the Proposal of the Bidder, between the NETF and the successful Bidder. In case of exigency/ non-performance / default, if NETF gets the work done from elsewhere, the difference in the cost of getting the work done will be borne by the successful Bidder.

33. Contract Period:

The contract signed with "Empaneled Service Provider" shall be for a period of three years from the date of its execution, and can be renewed as per relevant clause for a further period of one year on same terms and conditions. NETF reserves the right to curtail or extend the validity of contract based on performance as per SLA.

34. Performance Bank Guarantee

I. On receipt of a letter of intent from the NETF, the successful Bidder will furnish a Performance Bank Guarantee equivalent to 10% per cent of the total Contract value, on or before the signing of the subsequent Contract, within 15 days from notification of award. In case the successful Bidder fails to submit Performance Bank Guarantee within the time stipulated, the NETF may at its sole discretion cancel the letter of intent without giving any notice and encase the EMD furnished by the Bidder, in addition to any other right available to it under this RFP.

- II. The Performance Bank Guarantee furnished by the successful Bidder shall be as prescribed in SLA. The successful Bidder shall ensure, the Performance Guarantee is valid at all times during the Term of the subsequent Contract (including any renewal) and for a period of 60 days beyond all Contractual obligations, including warranty terms.
- III. Performance Bank Guarantee will have to be renewed for such further periods till validity of the Contract and thereafter the Performance Bank Guarantee shall be refunded to the vendor without any interest.
- IV. The vendor should not assign or sublet any activity under the Contract or any part of it to any other agency. Failure to do so shall result in termination of Contract and forfeiture of Performance Bank Guarantee
- V. NETF may, at any time, terminate the Contract by giving written notice to the vendor without any compensation, if the vendor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to NETF.
- VI. In the event the selected bidder's company or the concerned division of the company is taken over / bought over by another company, all the obligations and execution responsibilities under the agreement with NETF, should be passed on for compliance by the new company in the negotiation for their transfer.

35. Failure to Agree with the Terms and Conditions of the RFP

- Failure of the successful Bidder to agree with the Draft Legal Agreement and Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event NETF may award the Contract to the next best value Bidder or call for new proposals from the interested Bidders.
- II. In such a case, the NETF shall invoke the PBG of the most responsive Bidder.

36. Performance Measurements

I. Unless specified by NETF to the contrary, the Bidder shall perform the Services and carry out the scope of work in accordance with the terms of this Contract, Scope of Work, Service Specifications and Service Levels as laid down in this tender.

- II. If the Contract, Scope of Work, Service Specification includes more than one document, then unless NETF specifies to the contrary, the latter in time shall prevail over a document of earlier date to the extent of any inconsistency.
- III. NETF reserves the right to amend any of the terms and conditions in relation to the Contract / Service Specifications upon agreement with the System Integrator/service provider and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfillment of the Schedule of Requirements.
- IV. If any such change causes an increase or decrease in the cost of, or the time required for the Bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Value or time schedule, or both, and the Contract shall accordingly be amended. Any claims by the Bidder for adjustment under this Clause must be asserted within thirty (30) days from the date of the Bidder's receipt of NETF's changed order.

37. Resolution of dispute amicably/through arbitration

The law of the land shall govern this contract. Any dispute between the parties arising in connection with the performance of this contract shall be resolved amicably between the representatives nominated by both the parties through the process of negotiation. In case the dispute is not resolved, then it shall be referred to the Chairman, NETF and the Chief of the opposite party for settlement.

If the dispute is still not resolved, then it shall be referred to the Sole Arbitrator for arbitration proceedings as per the provisions contained in the Indian Arbitration and Conciliation Act, 1996(as amended from time to time and in force at the time when the reference is made). The Sole Arbitrator shall be appointed with the consent of both the parties. The Sole Arbitrator shall be appointed within a period of 60 days from date of receipt of written notice/demand of appointment of arbitrator from either party. The seat and jurisdiction of the arbitration proceedings shall be at New Delhi. The arbitration proceedings shall be in English language. The cost of the arbitration proceedings shall be borne equally by both the parties as per Arbitration rules.

If any dispute remains still unsettled, in that case, the same shall be adjudicated by the Courts of Law at New Delhi.

38. Work Order

I. The work order will be issued to the lowest bidder service provider on the basis

of Technical and Commercial Evaluation.

- II. For Lift-and-Shift workloads, NETF transforms their requirements to cloud based requirements (e.g., right-size instance, right-size storage, right storage class, standard instance size, application services, native security services) based on the utilization, storage use cases and defines its comprehensive cloud requirements (e.g., compute, storage, networking, security, monitoring services).
- III. NETF will provide the indicative & maximum consumption of cloud services (as per the list of line items identified in the Financial bid) during the contract duration to prepare the bill of material and evaluation will be carried out on the Total Cost of Ownership (or whole-life-cost of the contract). NETF may retain the agility to scale-up or scale-down byalso including lower and higher configuration instances in the bill of material prepared forevaluation.
- IV. Indicative Guidelines: For lift-and-shift workload migrations, NETFshould consider thecurrent utilizations and start small and scale up/down as per the requirements.
 - a) Right Size instances and start with smaller instances based on the current utilizations
 - b) Start with fewer instances and avail Auto-scaling Feature; don't start with peak load
 - c) Identify the pre-production environments and use scheduling to shut-down whenenvironment is not required to be running use on-demand pricing
 - d) Right size storage and start with smaller storage capacity based on the utilizations
 - e) Use the appropriate storage service based on the storage use case- SSD, HDD, File, Object Storage, and Archival
 - f) Leverage fully-managed services (e.g., DNS Service, Load Balancer) where there's norequirement for additional Virtual Machines
- V. Failure to provide services as per requirement by bidder may result into forfeiture of EMD, PBG & termination of the contract.
- VI. The NETF reserves the right to place a work order of any time duration.
- VII. For large scale project or for extra educational discount, CSP can offer the Extra discount (over the discount price quoted by L1 bidder) through it's authorized partner to NETF onwork orders.
- VIII. NETF will intimate the Supplier in writing regarding any extension in the work order. Extension in the contract would not lead to extension of any of the in-force work orders.
- IX. The contract between Client and NETF will adopt the following cloud aligned principles
 - a) Retain operational agility to scale up / scale down resources; add / remove services; within the maximum value of the contract.
 - b) The maximum contract value is not any commitment by the client. Client will only payfor the resources that are consumed or committed (e.g., reserve instances) in that payment period and the payments may vary from one payment period to the other basedon the consumption.
 - c) A prior intimation through mail or letter shall be provided to NETF whenever

scale-down or scale-up (including auto scaling) of resources and add or remove of services takes place.

- X. Contract termination shall automatically lead to termination or expiry of all work orderswhich were issued based on the contract.
- XI. The supplier must complete the obligation of the work order as per the signed contractuntil the time duration which will be mention in the work order.

39. Escalation Matrix

The "Empanelled Service Providers" / Supplier(s) should provide at-least 3 level escalation matrix for providing resolution of the complaints at local level.

Annexure A – Declaration Sheet format

<< Organization Letter Head >>

DECLARATION SHEET

We, _____hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, we will support on regular basis with technology / product updates and extend support for the warranty.

Name Bidding Company/Vendor/ Manufacturer/ Agent	
Address	
Incorporation status of the firm (public limited / private limited, etc.)	
Date of registration	
Phone	
Contact Person Name with (Email-Id and Contact number)	
GST Number	
PAN Number	
DD Bank Name and No (For EMD)	
Please mention that the bidder is CSP or Authorized Partner of CSP	
Name of CSP (If Bidder is Authorized Partner of CSP)	
Kindly provide bank details of the bidder in the following format:	
a) Name of the Bank	
b) Account Number	
c) IFSC Code	
d) Kindly attach scanned copy of cancelled Cheque book page to	
enable us to return the EMD to unsuccessful bidder	

Name:_____

Signature and Seal of the Bidder

LETTER OF UNDERTAKING

(ON THE LETTER HEAD OF THE BIDDER)

To Chairman, NETF, New Delhi 110070

Sir,

SUBJECT- Letter of undertaking

This bears reference to NETF Bid No._____Dated_____We, hereby, accept all the terms and conditions for submitting bid as mentioned in this Bid Document.

We hereby certify that no terms and conditions have been stipulated by us in the Financial Bid.

We warrant that the services do not violate or infringe upon any patent, copyright, trade secret or other property right of any other person or other entity. We agree that we shall not prevent NETF from any claim or demand, action or proceeding, directly or indirectly resulting from or arising outof any breach or alleged breach of any of the terms & conditions of bid document and contract. we submit that the cloud services or any third party application provided to the standard terms and conditions of service and end user licenses terms as applicable.

The above document is executed on at (place) _____and we accept that if anything out of the information provided by us is found wrong, our bid/ work order shall be liable for rejection.

Thanking you,

Yours faithfully,

Name:_____

Signature and Seal of the Bidder

Date:

Place:

Annexure C – Power Of Attorney

Know all men by these presents, we (name of firm and address of the registered office) do hereby constitute, nominate appoint and authorize Mr./Ms.....son/daughter/wife ofand presently residing at............, who is presently employed with /retained by us and holding position of as our true and lawful attorney (hereinafter referred to as the "Authorized Representative") to do in our name and on our behalf, all such acts, deeds and things are as necessary or required in connection with or incidental to submission of our proposal for and selection as the <project title> for the <name of the client>... project, proposed to be developed by the...... (the "client") including but not limited to signing and submission of allapplications, proposals and other documents and writings, participating in pre bid and other conferences and providing information /responses to the client, representing us in all matters before the Client, signing and execution of all contracts and undertakings consequent to acceptance of ourproposal and generally dealing with the client in all matter in connection with or relating to or arising out of our Proposal for the said project /or upon award thereof to us till the entering into of the Agreement with the client.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawful done or caused tobe done by our said Authorized Representative pursuant to and in exercise of the powers conferredby this power and Attorney and that all acts, and things done by our said Authorized Representative exercise of the powers hereby conferred shall and shall always be deemed to have been done byus.

[IN WITNESS WHEREOF WE	THE ABOVE NA	AMED PRINCIPAL	HAVE EXECUTED	THIS
POWER OF ATTORNEY ON				

THIS DAY OF 2021.

For(Name and registered address of client)

(Signature, name, designation, and address)

Witness

- 1. (Signature, name and address)
- 2. (Signature, name and address)

Notarized

Accepted

.....

(Signature, name, designation, and address of the attorney)

Notes:

- 1. The mode of the execution of the power of Attorney shall be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants (s) and when it is so required the same should beunder seal affixed in accordance with the required procedure.
- 2. Wherever required, the applicant should submit for verification the extract of the charter documents and other documents such as a resolution/Power of Attorney in favor of the person executing this Power of Attorney for delegation of power hereunder on behalf of theapplicant.

For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power and Attorney is being issued. However, the Power of Attorney provided by the applicants fromcountries that have signed The Hague Legislation Convention, 1961 are not required to be legalized by the Indian Embassy it is carries a conforming Apostle certificate

Annexure D - Performa For Declaration from bank on Proceedings UnderInsolvency And Bankruptcy Code, 2016

Tender No.:....

Name of Work:..... Bidder 's Name :

I/ We, M/s._____declare that:-

- a) I /We am / are not undergoing insolvency resolution Process or liquidation or bankruptcy proceeding as on date.
- b) I /We am / are undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date as per Details mentioned below. (Attached detail with technical bid)

Note: Strike out one of above which is not applicable.

It is understood that if this declaration is found to be false, NETF shall have the right to reject my / our bid, and forfeit the EMD, if the bid has resulted in a contract, the contractwill be liable for termination without prejudice to any other right or remedy (including holidaylisting) available to NETF.

Place:

Date:

Signature of Bidder

Name of Signatory

Signature of the authorized bank Official

Name of the Bank

Seal of the bank

Annexure E - Undertaking For Non-Blacklisting

This is to confirm that we M/s______(give full address) have not been declared neither failed to perform on any Agreement, nor have been expelled from any project or Agreement nor any Agreement terminated for breach by the us (Agency) in any of the government department and public sector undertaking /enterprise or by any other Client in India, in last five year before release of advertisement.

If the above information found false at any stage after the placement of Work Order / Agreement, NETF will have full right to cancel the Contactand forfeit the Performance Guarantee. All the direct and indirect cost related to the cancellation of the order will be borne by us besides any legal action by NETF which shall be deemed fit at that point of time.

Authorized Signatory

Note: The undertaking regarding the non-blacklisting of firm is to be submitted on a non-judicial stamp paper of Rs. 100/- (Rupees Hundred only).

To:

Chairman

NETF, New Delhi 110070

Subject: Submission of the Technical bid for Empanelment of MeitY Empaneled CSPs ortheir Authorized Partner for offering Cloud Services

Dated:___/__/2023

Dear Sir,

We, the undersigned, offer to provide cloud services to NETF and NETF's end Client.

We hereby declare that all the information and statements made in this technical bid are trueand accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the services related to the assignment notlater than the date indicated in the contract agreement.

We agree to abide by all the terms and conditions of the RFP document. We would hold theterms of our bid valid for 180 days as stipulated in the RFP document.

We understand you are not bound to accept any Proposal you receive.We

remain,

Yours sincerely,

Authorized Signature {In full and initials}: Name and Title of Signatory: In the capacity of: Address: E-mail:

Annexure G - Eligibility Criteria

The compliance against each of the particulars provided under Clause 27.A.4 (irrespective of whether the bidder is a CSP empanelled with MeitY or its authorized partner) is to be submitted asper below format:

S. No.	PQ criteria	Documents Required	Supporting Document	Page No./File	Compliance (Yes/No)
				Name	
1.	The bidder must submit	Authorization Certificate			
	Declaration Sheet	from as per Annexure A			
2.	The bidder must submit	Authorization			
	Letterof undertaking	Certificate from as			
		per Annexure B			
3.	The bidder should have valid	Self-attested copy of			
	GST and PAN number.	the GST certificate			
		and PAN card.			
4.	The bidder should be either:	a. Certificate of			
	I. A company registered	Incorporation/			
	under the Indian Companies	Certificate of			
	Act, 2013 OR	Registration			
	II. A partnership firm	b. Memorandum			
	registered under the Limited	and Articles of			
	Liability Partnerships (LLP)	Association/			
	Act, 2008 OR	Partnership deed.			
	III. A partnership firm				
	registered under the Indian				
	Partnership Act, 1932.				
5.	The bidder must submit	Authorization			
	Powerof Attorney	Certificate from as			
		perAnnexure C			
6.	The bidder must ensure to	Submission of DD/			
	deposit EMD	OR			
		Submission of MSME			
	OR	Certificate and			
		'ANNEXURE O' for			
	The bidder must ensure to	Relaxation of EMD for			
	submit NSIC/MSME certificate	MSME vendors to be			
		Substituted by Bid			
		and Performa			

		Declaration from bank on Proceedings Under Insolvency And Bankruptcy Code, 2016 as per Annexure D and financial solvency certificate of issued not earlier than 3 months from the last		
7.	Biddershouldnot beblacklistedbyany stategovernment,CentralGovernment/StateCentralGovernment/PSU/Governmenttbodies/AutonomousBodies/Private Sector orcourt of law in the last 5 years.TechnicalBidSubmission	The bidder shallfurnish an undertaking duly attested by notaryin a non-judicial stamp paper of value INR 100/- (Rupees One Hundred Only) as per Annexure E.		
	Letter	Annexure F		
9.	The bidder or the CSP of which the bidder is an authorized partner should be empaneled with MeitY for providing cloud services.	Self-certified copy of MeitY, Gol empanelment as CSP.		
10.	If the bidder is an authorized partner of a CSP empaneled with MeitY, the eligibility criteria shall provide an Authorization Certificate from a MeitY empaneled CSP which states clearly that the bidder has been authorized to participate in this bid.	Authorization Certificate from as per Annexure H		

11.	The Bidder (in case bidder is	A certificate from		
	the CSP) or the CSP of which	Statutory Auditor/Chartered		
	the bidder is an authorized	Accountant clearly		
	partner should have minimum	specifying the turnover		
	Average Annual turnover of at	during the last		
	least Rs. 400 Cr from Cloud	threefinancial years		
	Services for last three financial	as per		
	years i.e., 2019-20, 2020-21 &	Annexure I Part A (i.e.		
	2021-22.	2019-20, 2020-21 &		
		2021-22).		
12.	The Bidder (in case bidder is	A certificate		
	the authorize partner of CSP)	fromStatutory		
	should have minimum Average	Auditor/Chartered Accountant		
	Annual turnover of at least Rs.	clearlyspecifying		
	50 Cr for last three financial	the turnoveralong		
	years i.e., 2019-20, 2020-21 &	with net worth andprofit		
	2021-22. For MSME, The	during the last threefinancial		
	Bidder (in case bidder is the	years as		
	authorize partner of CSP)	(i.e.2019-20, 2020-21 &		
	should have minimum Average	2021-22).		
	Annual turnover of at least Rs.			
	30 Cr for last three financial			
	years i.e., 2019-20, 2020-21 &			
13.	The Bidder (in case bidder is	A certificate		
	the authorize partner of CSP)	fromStatutory		
	should have positive net worth	Auditor/Chartered Accountant		
	for last three financial years i.e.,	clearlycnocifying		
	2019-20, 2020-21 &	the turnoveralong		
		with net worth andprofit		
		during the last threefinancial		
		years as		
		perAnnexure I Part B		
		2021-22).		
		, ,		
14.	The bidder should be ISO	Self-certified copy of		
	9001:2015 certified and ISO	certification which is valid		
	27001:2013	on date of bid submission.		

Note: All the above mentioned documents have to be scanned and uploaded.

Name:_____

Signature and Seal of the Bidder

Annexure H - MeitY empanelled CSP Authorization Form

No._____dated_____ To

Dear Sir:

Bid No.

CSP <<NAME OF THE CSP>> (hereafter "CSP") is pleased to support <<PARTNER NAME>>for the pursuit of the Tender for <<TENDER REFERENCE NUMBER>>.

I/We confirm that as on the date of this letter << PARTNER NAME AND ADDRESS is authorized by CSP to use our cloud services for the purposes of the above referenced tender. Should << PARTNER>> be awarded the contract resultant from the above referenced tender, CSP will support << PARTNER>> with our commercially available cloud services in accordance with the prevailing commercial terms and agreements.

Yours faithfully,

(Name and signature of Authorized Person):

(Name of MeitY empaneled CSP):_____

Note: This letter of authority should be on the letterhead of the manufacturer or OEM and shouldbe signed by a person competent and having the power of attorney to legally bind the manufacturer

Part A

Name of the Organization:

SI. No.	Financial Year	Annual Turnover From Cloud Service
1.	2019-20	
2.	2020-21	
3.	2021-22	
	Total	
	Total in Words	
	Average	
	Average in Words	

Note:

• Values entered in words will be treated as final.

Signature with Seal of the Chartered Accountant

Name of Chartered Accountant

Signature of Authorize person with Seal of the Bidder

Part B

Name of the Organization:

	Annual Turnover	Net Worth	
51. NO.	Finalicial feat	(In Rs.)	(In Rs.)
1.	2019-20		
2.	2020-21		
3.	2021-22		
	Total		
Total in Words			
Average			
Average in Words			

Note:

- Certificate from Statutory Auditor certifying Balance sheet and P&L statement only for all three years to be attached with signature and seal of chartered accountant.
- Values entered in words will be treated as final.

Signature with Seal of the Chartered Accountant

Name of Chartered Accountant

Signature of Authorize person with Seal of the Bidder

Annexure J - Technical Evaluation Criteria:

The compliance against the particulars mentioned from SI. No. 1 to 6 of Clause 27.A.2 Part A isto be submitted as per below format: -

S.No.	Evaluation Criteria	Maxim	Documentary Evidence to	Supporting	Page
		um	be submitted	Document	no./File
		Marks			name
		Weight			
		age			
1.	CSP average annual turnover from cloud services for last three financial yearsi.e., 2019- 20, 2020-21 & 2021-22 •>= 400Cr and < 500Cr.:5 marks •>= 5 0 0 Cr a n d < 600Cr.: 10 Marks •>=600Cr: 20	20	A certificate from Statutory Auditor/Chartered Accountant clearly specifying the turnover along with net worth and profit during the last threefinancial years as per Annexure I Part A (i.e2019-20, 2020-21 & 2021-22).		
2.	Marks The Bidder (in case bidder is authorized partner of CSP) have Average Annual turnover for last three financialyearsi.e., 2019-20, 2020-21 &2021-22. >=50Cr and < 60Cr.: 2 marks >= 6 0 Cr a n d <75Cr.: 5 Marks >= 75Cr: 10 Marks For MSME, >=30Cr and <40Cr.: 2 marks >=4 0 Cr a n d <50Cr.: 5 Marks >= 50 Cr: 10 Marks >= 50 Cr: 10 Marks	10	A certificate from Statutory Auditor/Chartered Accountant clearly specifying the turnoveralong with net worth andprofit during the last threefinancial years as perAnnexure I Part B (i.e2019-20, 2020-21 & 2021-22).		
3.	The Bidder have Average Annual net worth for last	10	A certificate from Statutory Auditor/Chartered		

	three financial years i.e., 2019-20, 2020-21 & 2021-22 •>=4 Cr and <10 Cr.: 2 marks		Accountant clearly specifying the turnover along with net worth and profit during the last three financial years as per Annexure I Part B (i.e. 2019- 20, 2020-21 &	
	 >=10 Cr and <16 Cr.: 5 Marks >=16 Cr: 10 Marks 		2021-22).	
4.	The Bidder should have Cloud Service Projects of Central Government/ State Government/ PSUs in the last three financial years. (i.e., from 01.04.2019 to the bid submission date) • 0 Projects: No Marks • >=0 projects and <3 projects.: 2 Marks • >=3 projects and <7 projects.: 5 Marks • >=7 projects: 10 Marks	10	Work Orders containing relevant details as desired for evaluation	

5.	The Bidder should have Cloud Service Project of more than 1 Cr project value in last 3 years (i.e., from 01.04.2019 to the bid submission date) from a single project:		Work Orders containing relevant details as desired for evaluation	
	 O Projects: No Marks >=1 project: 2 Marks >=2 projects: 5 Marks >=3 projects: 10 Marks 	10		
6.	The Bidder should have Cloud service Projects from State or Centre Govt. university or Govt. aided Institutions in the last three financial years. (i.e., from 01.04.2019 to the bid submission date) • 0 Projects: No Marks • >=1 project: 2 Marks • >=2 projects: 5 Marks • >=3 projects: 10 Marks	10	Work Orders containing relevant details as desired for evaluation	

7. Number of Data Self-certified copy from CSP	
Centers in India for different data centers as	
from where the per Annexure K.	
MeitY empaneled	
Cloud Services are	
offered (The data	
centers should be	
in distinct physical	
locations)	
• One location -0 10	
marks	
•Two locations –5	
marks	
•Three locations	
ar more = 10	
marks	
9. SOC Certifications Bidder should provide the	
for Cloud services report for the SOC	
offered by the certification. Also, the	
CSPs: 10 bidder (CSP) will provide the	
Not certified for URL for the SOC Report	
SOC1, SOC2,	
and SOC3: 0	
marks	
•Certified for any	
one of SOC1,	
SOC2,	
andSOC3: 2 mark	
•Certified for any	
two of SOC1,	
SOC2,	
and SOC3: 5	
marks	
●Certified for	
SOC1, SOC2, and	
SOC3: 10	

10.	The Bidder (in case of		Documentary evidence for	
	CSP) or CSP of which		the same should be	
	the bidder is an		provided.	
	authorized partner			
	should be in leader's			
	guadrant for Cloud	10		
	Infrastructure as a			
	Service, worldwide as			
	per latest Gartner			
	Report.			
11.	Technical Compliance		As per Annexure N and	
	• 2 Marks each for		Annexure M	
	Basic CSP			
	Services as per			
	Annexure L			
	• 3 Marks each for			
	Advance Services	60		
	of CSP as per			
	Annexure L			
	• 2 Marks for other			
	Cloud related			
	services as per			
12	Technical presentation		Time Date and place will be	
12.	reennearpresentation		informed later	
			informed later.	
	Demonstration of the	40		
	nosting one of the			
	above NEIF			
	application/services			
	demonstrating the			
	successful functioning			
	of the annlication			
	including application			
	having feature of			
	Microsoft cognitive			
	services APIs like text			
	to speech or vice versa			
	and voice translation			
	of multiple Indian			
	language where the			
	bidder would be			
	provided the infra to			

run and test the		
application		
functionality to		
perform the task like		
dvnamic and		
autoscaling load and		
nerformance testing		
performance testing.		
During the Technical		
Evaluation the		
vendor shall host		
one of the above		
application/services		
on the cloud and will		
demonstrate the		
successful		
functioning of the		
application. For		
example,		
application having		
feature of Microsoft		
cognitive services		
API liketext to		
and voice		
translation of		
multiple Indian		
languages. During		
the technical		
demonstration		
bidder should		
provide the infra to		
run and test the		
application		
functionality		
provided by the		
the task like		
dynamic and		
autoscaling load		
and performance		
testing. After		
successful selection		
after bidding,		
Person(s)		
demonstrating		
during the technical		
demonstration		

should be deployed in NETF for working at least for next one year.		
1) Auto scale-10 marks		
2) Load Testing – 5 marks		
 Successfully deployment and running of application – 25 marks 		

Note: All the above-mentioned documents have to be scanned and uploaded. Signature with Seal of the Bidder

<u>Annexure K – Data Centre Location Certificate</u>

Dated:__/__/2023

Chairman NETF, New Delhi-110070

Subject: Submission of the Technical Compliance for location of CSP data center

Dear Sir,

То

I/We am/are the Cloud Service Provider, we have_____no. of different data centers in India which are located in different physical locations.

Signature of the CSP

Signature with Seal of the Bidder

<u>Annexure L – Technical Compliance for CSP Services</u>

Dated:__/__/2023

Chairman NETF, New Delhi-110070

Subject: Submission of the Technical Compliance of CSP servicesDear

Sir,

То

I/We am/are the Cloud Service Provider and all of our offered Cloud Service Offerings areas below is available in India Data Centers:

Basic Service or equivalent services as per best practice and industry standards:

S. No.	Service Category	Minimum Requirement for compliance	Compliance Yes/ No	Service Names and URL of the services for Description	CSP Website Pricing URL ofthe Service
1.	Compute	 Must support variety of operating systems including: Linux, Ubuntu, Windows Server, RedHat Enterprise Linux, SUSE Linux Enterprise Server, openSUSE Leap, Fedora, Fedora CoreOS, Debian, CentOS, Gentoo Linux, OracleLinux, and FreeBSD Should be capable to deploy across multiple data centers Should support autoscaling on the basis of CPU utilization Platform should have capability to spin up thousands of instances in minutes Should provide Intel based processor Should support block storage and temporary block storage (to store Information that changes frequently, such as buffers, caches, scratch data, and other temporary content) Also support Block Storage Encryption 			
2.	Storage	 Block Storage Block Storage must provide 99.9% SLA Block Storage should support volume snapshot Object storage Object Storage must provide strong read after write consistency Object Storage should unlimited scale storage. Object Storage must support intelligent data tier on the basis of data use. Also havebuilt in capability to analyze storage accesspatterns to help you decide when to transition the right data to the right storage class Object Storage supports versioning and MFA for deletion. Object storage should have integration with HSM to provide inherent capability of Encryption 			

		 File Storage File Storage should span across multiple availability zone Backup Storage Archival Storage Retrieval of Archival Storage All the storage supports Data Encryption 		
3.	Network	 Isolated Network defined at regional level mustbe able to span to multiple availability zones Private network connectivity between VPCs, services, and on-premises applications Securely deliver data, videos, applications, and APIs to customers globally with low latency, andhigh transfer speeds Should have capability to communicate with object storage using private network Also supports private link between on promise to cloud infrastructure Should provide Native Firewall with Stateful and stateless rules along with IPS capability. 		

4.	Security	CSP must provide native service for security like
		Identity & access management
		Manage user access and encryption keys
		• Single Sign on Service for Cloud
		Centralize Governance and Compliance
		Management
		Detection Control
		Al Powered Threat Detection Service
		Unified Security and Compliance
		Dashboard
		Vulnerability Assessment
		 Record and Evaluate Configuration
		• Track API and User Activity
		Infrastructure Protection
		 Network Firewall with IPS capability
		Web Application Firewall
		DDoS protection
		 Central Management of Firewall Rules
		Data Protection:
		Sensitive Data Discovery and Protection
		 Encryption Key storage and Key
		Management (FIPS compliant)
		 FIPS Compliant Fully managed scalable
		Hardware Security Module
		 Centralize Provision, manage, and deploy
		public and private SSL/TLS certificates
		 Central Store to Encrypt, Rotate, manage
		and retrieve secrets
		• HSM
		 Should support FIPS 140-2 Level 3 for the
		storage of encryption keys ssl certificates etc.
		as managed service
		 Should provide managed backup service for
		HSM Cluster to provide ability of restoration
		of keys in case of any failure of HSM device
		Incidence response
		 Potential Security Threat Investigating
		Control
		 Fast and Automated Control for Disaster
		Recovery and Ransomware Recovery

5.	Management andGovernance	 Automate, configure and update your resources Must have capability to enforce organizationlevel security compliance and governance Should have capability to ensure continuouscompliance Should trigger events and alerts on non- conformance on defined organization level governance and should have capability preventthe configuration changes. 		
6.	Monitoring and Alert Management	 Should provide detail monitoring of resources and services Should have capability to define custom alertsand matrices for resources Ability to store log and analyze logs using SQL query statement. Must have capability to trigger events, alerts andalarm Must provide capability to automate 		
7.	Migration	 Database Migration Service should supporthomogeneous and heterogeneous database replication Storage Transfer Service should provide capability to extend on premise application tocloud storage, also provide capability for petabyte scale data transfer 		

Advance Services or equivalent services as per best practice and industry standards:

S. No.	Service Category	Minimum Requirement	Compliance Yes/ No	Service Names and Description of the services URL	CSP Website Pricing URL of the Service
1.	Containers	 Share and deploy container software, publicly or privately Manage containers withKubernetes Should provide private or public dedicated container registry to store , deploy and share the containers Should also provide platform to run container without managingservers Should also help to containerize and migrate existing application Cloud service should support deployment of Docker containerwith orchestration (Kubernetes/any native orchestration System) 			

2.	Serverless	 Should be managed Platform Should provide capability to scale zero to peak demands 		
		Must have built in fault		
		toleranceand support event		
		driven architecture		
		 Must have set of native 		
		servicesavailable to enable		
		communication between		
		distributedsystems and		
		serverless applications		
		Must have serverless backend		
		(compute, integration, and data		
		stores) to run serverless		
		workload		
3.	Managed Database Services	 It should be cloud managed 		
	-	platform for following		
		database		
		 RDBMS (MS SQL server, 		
		MySQL, Postgresql, Maria		
		DB)		
		Graph Database		
		Blockchain Database		
		NoSQL Database		
		In Memory Database Mongo DB Compatible		
		• Mongood compatible		
		• All the database platform		
		supports high availability and		
		fault tolerance		
		• All these database		
		platformsshould be		
		scalable		
		 Must provide auto scalable 		
		serverless platform for MySQL		
		and PostgreSQL		
		All these databases must		
		supportencryption for data at		
		rest and data in transit.		
		• Database plation multi		
		master renlication		
		Database platform must		
		providefull oversight of your		
		data with multiple levels of		
		security, including network		
		isolation, andend-to-end		
		encryption		

4.	DevOps	 Automatically build, test, distribute, deploy and monitoriOS, Android, Windows and macOS apps— all in one place Developers can regularly merge their code changes into a central repository, after which automated builds and tests are 		
		 Must provide fully managed service to implement end to endCICD pipeline Should securely store and versionapplication's source code and automatically build, test, and deploy the application 		
5.	Analytics & Visualization Services	 Should provide managed andnative service platform for Interactive Analytics Big Data Processing Real time analytics Operational Analytics Data Visualization & Visual Data Preparation Real Time Data Movement Predictive analytics and Machine Learning 		
		 Machine Learning Analytics service should be serverless - No need to provisionor maintain any servers. There isno software or runtime to install,maintain, or administer. Should have built-in availability and fault tolerance. Ingest, buffer, and process streaming data in real-time toderive insights in seconds or minutes Handle any amount of streaming data and process data from hundreds of thousands of sourceswith very low latencies Securely stream video from connected devices for analytics,machine learning and other processing A built-in suggestion engine thatprovides users with recommended visualizations based on the properties of the underlying datasets. Share business insights by packaging them up as interactivestories that users can share with others. 		

7. Internet of Things envirous devices and training and support worting Varianity and Support Managed Support Managed ML API for Transition, Speech Pior Transition, Pior Pior Pior Pior Pior Pior Pior Pior	6.	AI and machine learning	Cloud service should support		
Service/Natebook for write/Training al support various python/R based ML libray like Tensor (low, SC)-Kit, Pytorb, X68post - Cloud service should support Immediate ML algorithm for inferencing - Cloud service should support Must have ready made AI capability which can be easily image/Video Analysis - Must have ready made AI capability which can be easily image/Video Analysis - Should provide platform like Tensor Flow, SPTOCH, Apache Mixt provide capability to build, train, and deploy MI models - Should provide platform like Tensor Flow, SPTOCH, Apache Mixt have ready MI. and customize machine - Should provide platform like Tensor Flow, SPTOCH, Apache mixterest of Things - Should provide platform like Tensor Flow, SPTOCH, Apache mixterest of messages and can process and rout whiche ready and securely - Connected devices can trigger - Connected devices can trigger - Support billions of devices and trigger <			provisioning . Managed		
Image: construct of thingsImage: construct of thingsImage: construct of thingsImage: construct of things7.Internet of ThingsShould perform inferencing and exploit (not one basis) integrated with available appand workflow for enhance business out comeImage: construct of things7.Internet of ThingsShould perform inferencing and exploit (not one basis) integrated with available appand workflow for enhance business out comeImage: construct one manys integrated with available appand workflow for enhance business out come7.Internet of ThingsShould be fully managed netweet work in the early integrated with available appand workflow for enhance business out come8.Internet of ThingsShould be fully managed netweet work in and customize machine enventse in services in the early integrated with available appand workflow for enhance business out come9.Internet of ThingsShould be fully managed netweet workes relabily work in and customize machine early integrated with available appand workflow for enhance business out come9.Internet of ThingsShould be fully managed netweet workes relabily and securely events, execute predictions abaed9.Internet of ThingsShould provide pass relabily to run and operationalize sophisticated analytics on massive volumes of in drata in drata in drata from equipment's the of dwices secure appaliting to run and operationalize sophisticated analytics on massive volumes of in drata in drata from equipment's the of dwices sofhuid provide facility to easy to origination in drata from equipment's the of dwices in sofhuid provide			Service/Notebook for		
various python/N based ML lineary like Tensorious, SCI-Kit, Pytorch, XGBoot eCoud service should support Services for deploy Trained ML algorithm for inferencing eCoud service should support managed ML API for Translation, Speech, Image/Video Analysis must have ready made AI capability which can be easily integrated with available appsand workflow for enhance business out come - Must provide capability to build, train, and deploy ML models 7. Internet of Things and customize machine learning/apport ready business out come - Must provide capability to build, train, and deploy ML models should provide propular frameworks to experiment with and customize machine learning/apport billions of devices and process and route those strengt of Things on machine learning models, keep device data in sync, and communicate with other devices and route those reliably and securely on machine learning models, keep device data in sync, and communicate with other devicesscarely even when not connected devices on trigger events, execute predictions analytics on massive volumes of ioT data should provide facility to easy to collect, store, or ganze and monitor data from equipment's thoil provide rapability to easy to collect, store, or ganze and monitor data from equipment's to visually connect different devices and web services to brouding provide rapability to easy to collect, store, or ganze and monitor data from equipment's to visually connect different devices and web services to			writing/training and support		
Ibray like Tensorflow, SCI-RL, Pytoch, XB0035 - Claud service should support - Claud service should support - Services for deploy limited NL, algorithm for inferencing - Claud service should support - Service should support - Must have ready made AI or Translation, Speech, Image/Video Aulysis - Must have ready made AI or Capability with not inferencing - Must have ready made AI or Capability with not soluble append workflow for enhance business out come - Must have ready made AI or Capability with not soluble append workflow for enhance business out come - Must have ready made AI capability to huild, train, and deploy ML models - Should provide propular frameworks to experiment with and customize machine earningalgorithms 7. Intermet of Things - Should be fully managed new proves and route those messagesto other devices and trillons of devices and trillons devices and trillons of device			various python/R based ML		
Proton, X6Boost - Couds service should support Couds service should support algorithm for inferencing Clouds service should supportmanaged ML API for Transiton, Speech, Image/Video Analysis Must have ready-made AI capability which can be easily integrated with available appsand workflow for enhance business out come • Must provide capability to build, train, and deploy ML models • Should provide patform like TensorFlow, PyTorch, Apache MNNet, and therp popular frameworks to experiment with and customize machine learning algorithms 7. Internet of Things • Should provide capability on build, train, and deploy ML models • Should provide machine machine learning algorithms • Connected devices can trigger events, execute predictions • Should provide capability to build, train, and deploy ML models • Should provide data in sync, and constructives reliably and securely • Connected data in sync, and constructives and trillions of fewices and trillions of devices and trillions of loid data in sync, and communicate with other • Should provide facility to secure the for devices • Should provide regarding to secure the for devices • Should provide facility to seasy to collect, store, organize and monitor data from equipment's tothely in data driven decisions. • Should provide facility to seasy to visually contened difformed leaven decisions.			library like Tensorflow, SCi-Kit,		
 -Cioud service should support Services for depoly Trained ML algorithm for inferencing -Cioud service should supportmanaged ML API for Translation, Speech, Image/Video Analysis - Must have ready-made AI capability which can be easily integrated with available appartand worth available appartand worth available - Should provide platform like Tensorfilew, PTOrch, Apathe MNNEL, and other popular frameworks to experiment with and customize machine learning/approvides - Should be fully managed nativeservices - Should be fully managed - Connected devices and trillions of messages, and can process and route those messages, and can process and route those messages and can process and route those messages do ther devices - Should be fully managed - Connected devices can trigger - Connected to the internet - Also have capability to mand - Should provide facility to easy to collect, store, organize and monitor data from equipment's - Should provide capability to casy to collect, store, organize and monitor data from equipment's - Should provide capability to casy to collect, store, organize and monitor data from equipment's - Should provide capability to easy to collect, store, organize and monitor data from equipment's - Should provide capability to easy to collect, store, organize and monitor data from equipment's - Should provide capability to easy to collect, store, organize and monitor data from equipment's - Should provide capability to - Should provide capability to - Should provide capability to - Should			Pytorch, XGBoost		
Services for deploy Trained ML algorithm for inferencing - Cloud service should supportmanaged ML API for Translation, Speech, Image/Video Analysis - Must have ready-made A1 capability which can be easily integrated with available appsand workflow for enhance business out come - Must provide capability to build, train, and deploy ML models - Should provide platform like TensorFlow, PyTorch, Apache MXNEt, and other popular frameworks to experiment with and sustomize machine learning/agorithms Internet of Things 7. Internet of Things - Should provide platform like TensorFlow, PyTorch, Apache MXNEt, and other popular frameworks to experiment with and sustomize machine learning/agorithms Internet of Things 8. - Should provide fully managed nativeservices - Support billions of devices and trillions of messages, and can process and route those messagesto other devices and route who ther devices renet trings - Connected devices renet trings - Connected devices renet trings - Should provide renet who ther devices renet who ther devices renet trings - Should provide facility to secure the for devices - Should provide facility to secure the for devices - Should provide facility to secure the for devices - Should provide facility to secure the tor devices and monitor data from equipment's - Should provide facility to secure the tor devices and monitor data from equipment's - Should provide facility to secure the tor devices and monitor data from equipment's - Should provide facility to secure the tor devices and web services to - should provide capability to usay - should provide capability to mach - should provide capability to secure the tor devices and web services to - should provide capability to mach - should provide capability to mach - s			• Cloud service should support		
algorithm for inferencing Cloud service should supportmanaged MLAPI for Translation, Speech, Image/Vide Analysis • Must have ready-made Al capability with can be easily integrated with available appoard workfow for enhance business out come • Must provide capability to build, train, and deploy ML models • Should provide patform like TensorFilew, PyTocrh, Apache MXNet, and other popular frameworks to experiment with and customize machine learning/gettores and custome enhance to support the second the s			Services for deploy Trained ML		
• Could service should supportmanaged ML API for Translation, Speech, Image/Vide Analysis • Capability which can be easily integrated with available appsand workflow for enhance business out come • Must have ready-made AI capability to build, train, and deploy ML models • Should provide capability to build, train, and deploy ML models 7. Internet of Things • Should be fully managed • Should provide patform like Tennet of Things • Should provide patform like • Should provide patform like Tennet of Things • Should be fully managed • Should provide patform like Tennet of Things • Should provide spatiant must be asset and the popular frameworks to experiment with and customize machine learning algorithms • Support billinos of devices and trillinos of newsages, and can process and route those messages and can process and route those messages and can process and route these messages to ther devices reliably and securely • On machine learning models, keep device data in sync, and communicate with other devices can trigger events, execute predictions based • On machine learning models, lead execute prodictions • Should provide facility to seave the Internet • Also have capability to run and operationalize sophistuated analytics on massive volumes of loT data • Should provide facility to easy to callect, store, organize and monitor data from equipment's tohelp in data drive decisions. • Should provide facility to easy to value in the devices and we services to the lifterent devices and we services to value in thorige analytics on the lifterent devices an			algorithm for inferencing		
supportmanaged ML API for Translation, Speech, image/Yudo Analysis • Must have ready-made AI capability with can be easily integrated with available appsand workflow for enhance business out come • Must provide capability to build, train, and deploy ML models • should provide pathtrom like rensorflow, PyTorch, Apache MMNet, and other popular frameworks to experiment with and customize machine learningligorithmsImage Yudo should provide pathtrom like • Should befully managed nativeservices • Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connect ded devices on trigger events, execute predictions basedImage Yudo should provide facility to seave to connect ded route sensitive to analytics on massive volumes of of data • Should forwide facility to seave to or connect defacility to seave to or context defacility to seave to context defacility to seave to condefacility to seave to condect defacility to seave to voide facility to			Cloud service should		
Translation, Speech, Image/Vide Analysis Translation, Speech, Image/Vide Analysis Must have ready-made AI capability which can be easily integrated with available appsand workflow for enhance business out come Image: Comparison of the capability to build, train, and deploy ML models Should provide pathorm like TessorFlow, PyTorch, Apache MXNET, and other popular frameworks to experiment with and customize machine learningalgorithms Image: Comparison of the capability to build, train, and deploy ML models Internet of Things Should be fully managed nativeservices Image: Comparison of the capability to build, train works to experiment with and customize machine learningalgorithms Image: Comparison of the capability to run and communicate with other devicessecurely even when not connected to the Internet -Isohould provide facility to seave to collect, store, organize and monitor data from equipment's to help in data-driven decisions. -Should provide facility to easy to collect, store, organize and monitor data from equipment's to help in data-driven decisions. -Should provide facility to easy to collect, store, organize and monitor data from equipment's to help in data-driven decisions.			supportmanaged ML API for		
Image/Vide Analysis •Nust have ready-made AI capability with can be easily integrated with available appsand workflow for enhance business out come •Nust have ready-made AI capability with can be easily integrated with available appsand workflow for enhance business out come •Must provide pathfrom like •Nould provide pathfrom like Tomage/Vide Analysis •Nust provide opathfrom like •Nust provide pathfrom like •Nould provide pathfrom like Tomage/Vide Analysis •Nould provide pathfrom like •Should be fully managed •Nould provide pathfrom soft devices and trillions of devices and trillions of devices and trillions of devices and trillions of devices reliably and securely •Connected devices there events, execute predictions based •Nould be found the learning models, keep device data in sync, and communicate with other devices capability to run and operationalize sophisticated analytics on massive volumes of lot data •Should be founde facility to secure the lot devices in drive decisions. •Nould provide facility to easy to collect, store, organize and montor data from equipment's tohelp in data-driven decisions. •Should provide facility to easy to volumes of lot data •Nould provide facility to easy to collect, store, organize and montor data from equipment's tohelp in data-driven decisions.			Translation, Speech.		
• Must have ready-made Al capability which can be easily integrated with available appsand workflow for enhance business out come • Must provide capability to build, train, and depioy NL models • Should provide patform like TensorFlow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learning/gorithms • Should perform like TensorFlow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learning/gorithms 7. Internet of Things • Should be fully managed nativeservices • Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions based V On machine learning models, keep devices data in sync, and communicate with other devicessecurely even when not connected to the internet • Also have capability to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices • Should provide facility to secure the IoT devices to based			Image/Video Analysis		
Internet of Things capability which can be easily integrated with available appsand workflow for enhance business out come Must provide capability to build, train, and deptoy ML models Should provide platform like TensorFlow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms Internet of Things Internet of Things Internet of Things Should brould provide platform like resources or machine learning algorithms stansaged nativeservices Support billions of devices and trillions of devices and trillions of devices and trillions of devices and trillions of devices and restages ot other devices reliably and securely on machine learning models, keep device data in sync, and commachine learning models, keep device data in sync, and commachine learning models, keep device data in sync, and commachine learning models, should provide facility to secure the loT devices Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data Should Provide facility to secure the loT devices Should Provide facility to secure the loT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions.			Must have ready-made Al		
7. Interret of Things •Should provide apability to build, train, and deploy ML models •Should provide platform like TensorFlow, PyTorth, Apache MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms 7. Internet of Things •Should be fully managed native machine learningalgorithms 8. •Should securely •Should securely •Onomected devices and trutter those messages, and can process and route those messages to other devices reliably and securely •Onomected devices can trigger events, wecure predictions based 9. •Should provide capability to run and operationalize sphere with other devices and to the Internet •Also have capability to secure the IoT devices (and analytics on massive volumes of IoT data 9. •Should provide facility to secure the IoT devices (and analytics on massive volumes of IoT data) •Should provide facility to secure the IoT devices (and appendix on the data in synce (add analytics on againe and monor data from equipment's to hole) in data-driven decisions. 9. •Should provide facility to secure the IoT devices (add fifterent devices and medica from equipment's to hole) in data-driven decisions.			capability which can be easily		
appsand workflow for enhance business out come • Must provide apability to build, train, and deploy ML models • Should provide platform like Tensorfiow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms 7. Internet of Things • Should be fully managed nativeservices vesses and route those messages, and can process and route those messages, and can process and route those messages to other devices reliably and securely • Connected devices can trigger events, secure predictions based Internet of Things on machine learning models, keep device data in sync, and communicate with other devices securely even when not connected to the Internet • Also have capability to un and operationalize sophisticated analytics on massive volumes of lolf data • Should provide facility to secure the lot devices • Should provide facility to seasy to visually connect different devices and whe decisions. • Should provide facility to seasy to to isually connect different devices and web services to build(from data form equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to			integrated with available		
enhance business out come Must provide capability to build, train, and deploy ML models Should provide platform like TensorFlow, P/Torch, Apache MXNet, and other popular frameworks to experiment with and customize machine learning algorithms 7. Internet of Things Should be fully managed nativeservices Should be fully managed nativeservices and tribles and route tobse messages, and can process and route tobse messages, and can process and route tobse messages on the tobse messages on the devices and tribles on mascine learning models, keep device data in sync, and communicate with other devices connected to the Internet devices is obsolved to the devices Internet of Toing biological and the internet tobola we capability to run and operationalize sophisticated analytics on massive volumes of Iof data Should Provide facility to secure the lot devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tobelp in data-driven decisions. Should Provide facility to easy to visually connect different devices and we services to buildit on and rome provide capability to easy to visually connect different devices			appsand workflow for		
• Must provide capability to build, train, and deploy ML models • Should provide platform like TensorFlow, PyTorch, Apache MXNet, and other popular 7. Internet of Things • Should be fully managed nativeservices • Should be fully managed nativeservices • Should be fully managed nativeservices • Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions based • Managesto ther devicessecurely even when not conmunicate with other devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data • Should provide facility to secure the IoT devices • Should provide facility to secure the loT devices • Should provide facility to easy to collect, store, organize and monitor data from equipment's to help in data-driven decisions.			enhance business out come		
Train and depicy ML models Should provide platform like Train and depicy ML models Should provide platform like Train and depicy ML models MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms Internet of Things Should be fully managed nativeservices Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely Concreted devices can trigger events, execute predictions based On machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should provide facility to seasy to collect, store, organize and monitor data from equipment's to hisually connect different devices and web services to building and internet			Must provide capability to build		
• Should provide platform like • Should provide platform like Tensorflow, PyTorch, Apache MNNet, and other popular frameworks to experiment with and customize machine • Should be fully managed nativeservices • Should be fully managed support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions • Should period be fully managed • Connected devices can trigger events, execute predictions • Should provide facility to securely • Connected devices can trigger • Connected devices can trigger • Connected devices can trigger • Should provide facility to securely • Connected devices can trigger • Connected devices can trigger • Should provide facility to secure • Should provide facility to secure • Should provide facility to secure • Also have capability to run and operationalize sophisticated analytics on massive volumes of lof data • Should provide facility to secure • Should provide facility to seasy to collect, store, organize and monitor data from equipment's to thelp in data-driven decisions. • Should provide capability to easy to visually connect different devices to building an objective so to building and services to building andingervice trigger </th <th></th> <th></th> <th>train and deploy MI models</th> <th></th> <th></th>			train and deploy MI models		
TensorFlow, PyTorch, Apache MXNet, and other popular frameworks to experiment with and customize machine learningalgorithms 7. Internet of Things * Should be fully managed nativeservices • Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet • Also have capability to secure the IoT data • Should provide facility to secure the IoT devices • Should provide facility to easy to colled provide facility to easy to visually connect different devices and monitor data from equipment's to help in data-driven decisions.			• Should provide platform like		
Internet of Things •Should be fully managed nativeservices Internet of Things •Should be curely •Connected devices and trigger events, execute predictions based Internet of things •Connected devices can trigger events, execute predictions based Internet of things •Connected to the internet •Also have capability tor un and operationalitie capability tor un and operationalitie capability to casy to coll derivide facility to secure the loT devices Internet the lot devices and monitor data from equipment's to bluid provide facility to easy to coll derivide capability to easy to visually connect different devices and web services to builditor annitications			TensorFlow PyTorch Anache		
7. Internet of Things • Should be fully managed nativeservices 7. Internet of Things • Should be fully managed nativeservices 9. • Support billions of devices and trillions of messages, and can process and route those messages other devices reliably and securely • Connected devices can trigger events, execute predictions based 9. • On machine learning models, keep device data in sync, and communicate with other devicesscurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data 9. • Should provide facility to secure the loT devices • Should provide facility to easy to collect, store, organize and monitor data from equipment's to belog now into the devices to build provide facility to easy to visually connect different devices and web services to build provide stores to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to easy to visually connect different devices to build provide facility to ea			MXNet and other popular		
Internet of Things Should be fully managed nativeservices Support billions of devices and trillions of messages, and can process and route those messages to other devices reliably and securely Connected devices can trigger events, execute predictions based Image: Support billions of messages, and can process and route those messages to other devices reliably and securely Connected devices can trigger events, execute predictions based Image: Support billions of devices and trillions of messages or matching models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Isolud provide facility to seave the IoT devices Should provide facility to easy to collect, store, organize and monitor data from equipment's to thelp in data-driven decisions. Should provide capability to neasy to visually connect different devices to builder and lexices to builderevices to builderevices to builderevices to			frameworks to experiment with		
Internet of Things Should be fully managed nativeservices 7. Internet of Things Should be fully managed nativeservices and trillions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely Connected devices (an trigger events, execute predictions based 8 on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data 9 Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should Provide capability to easy to volumes of lot deta for equipment's tohelp in data-driven decisions.			and customize machine		
7. Internet of Things • Should be fully managed nativeservices • Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions based • on machine learning models, keep device data in sync, and communicate with other devicesscurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions.			learningalgorithms		
 Interfector hings Interfector hings Interfector hings Interfector hings Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely Connected devices can trigger events, execute predictions based On machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data Should provide facility to secure the loT devices Should provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIOT amings 	7	Internet of Things	Should be fully managed		
Support billions of devices and trillions of messages, and can process and route those messagesto other devices reliably and securely • Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to secure the loT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIOT andirationes	<i>.</i>	internet of mings	nativeservices		
 Support training of devices trillions of messages, and can process and route those messages to other devices reliably and securely Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to build/0T andications 			• Support billions of devices and		
 a construction of those in the set of the set			trillions of messages and can		
 messagesto other devices reliably and securely Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data form equipment's to help in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildfind anglications 			process and route those		
Image: Second			messagesto other devices		
Connected devices can trigger events, execute predictions based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to secure the loT devices • Should provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices to buildT anolications			reliably and securely		
events, execute predictions based on machine learning models, keep device data in syne, and communicate with other devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to secure the loT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildOT annications			Connected devices can trigger		
based on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT annitrations			events, execute predictions		
on machine learning models, keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data • Should provide facility to secure the IoT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to			based		
keep device data in sync, and communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices to buildIoT annitizet sorts			on machine learning models,		
communicate with other devicessecurely even when not connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT applications			keep device data in sync, and		
devicessecurely even when not connected to the Internet • Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to secure the IoT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			communicate with other		
connected to the Internet Also have capability to run and operationalize sophisticated analytics on massive volumes of IoT data Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT anplications			devicessecurely even when not		
 Also have capability to run and operationalize sophisticated analytics on massive volumes of loT data Should provide facility to secure the loT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT applications 			connected to the Internet		
operationalize sophisticated analytics on massive volumes of loT data • Should provide facility to secure the loT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			 Also have capability to run and 		
analytics on massive volumes of IoT data IoT data • Should provide facility to secure the IoT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy Should provide capability to easy to visually connect different devices and web services to buildIoT applications			operationalize sophisticated		
IoT data • Should provide facility to secure the IoT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			analytics on massive volumes of		
 Should provide facility to secure the IoT devices Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT applications 			IoT data		
the IoT devices • Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			 Should provide facility to secure 		
Should Provide facility to easy to collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. Should provide capability to easy to visually connect different devices and web services to buildIoT applications			the IoT devices		
collect, store, organize and monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			 Should Provide facility to easy to 		
monitor data from equipment's tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			collect, store, organize and		
tohelp in data-driven decisions. • Should provide capability to easy to visually connect different devices and web services to buildIoT applications			monitor data from equipment's		
Should provide capability to easy to visually connect different devices and web services to buildIoT applications			tohelp in data-driven decisions.		
to visually connect different devices and web services to buildIoT applications			 Should provide capability to easy 		
devices and web services to buildIoT applications			to visually connect different		
huildloT applications			devices and web services to		
			buildIoT applications		
			Should provide capability to easy to visually connect different devices and web services to buildloT applications		

8.	Application integration tools	 Must provide native control and 		
		capabilities to		
		 Create, publish, maintain, 		
		monitor, and secure APIs		
		atany scale for serverless		
		workloads and web		
		applications		
		 Create a flexible API to 		
		securely access,		
		manipulate, and combine		
		data from one or more		
		datasources		
		 event-driven architecture 		
		 Reliable high 		
		throughputpub/sub		
		 Should support No Code 		
		API Integration		
		Should provide managed		
		workflow platform like Apache		
		Workflow		
9.	Hybrid cloud	 Should help to run and manage 		
		applications wherever they		
		mayneed to reside		
		 It must provide infrastructure, 		
		APIs, services, and tools		
		wherever applications may		
		needto reside to meet low		
		latency, local data processing,		
		or data residency		
		requirements.		
		 Should have native service 		
		available to build secure		
		andcompliant hybrid cloud		
		architectures		
		 Should also support cloud 		
		nativeInfrastructure services,		
		API and tools to work		
		seamlessly on- premise and		
		cloud.		
10.	Media	 Fully Managed service which 		
		supports transport, prepare,		
		process, and deliver live and		
		on-demand content		
		• This CSP should have services		
		that allows the customers to		
		solutions that can be deployed		
		oncloud		
		Should provide capability to		
		integrate with 2rd Party		
		Platformfor media storage		
		machine learning content		
		protection monetization		
		campaigns etc		
		campaigns etc.		

11.	Mobile/Mobile Application Development Requirement	 It should be fully Managed Services to create, configure, andimplement scalable mobile applications Should supports user sign-up, sign-in, and access control to your web and mobile apps. Must support social identity provider and custom identityprovider Cloud service should support provisioning of Backend no SQL database for mobile application Cloud service should support provisioning of Object Store to support uploading of binary files 		
		feature of Static Web Content hosting		
12.	Big Data	 Should provide managed platform for processing vast amounts of data using open source tools such as Apache Spark, Hivc, HBase, Flink, Hudi and Presto Should have capability to run petabyte-scale analysis Should also provide Platform for Data Visualization & Visual Data Preparation, Real Time Data Movement and Machine Learning 		

Signature of the CSP (in case bidder is authorized partner of CSP or the bidder isCSP)

<u>Annexure M – Technical Compliance for other Cloud related services</u>

To Chairman NETF, New Delhi-110070

Subject: Submission of the Technical Compliance of other cloud related services

Dated:___/_/2023

Dear Sir,

I/We am/are the Cloud Service Provider or Authorized partner of CSP and all of our offered other Cloud Related Service Offerings are as below:

S. No.	Service Category	Minimum Requirement	Compliance Yes/ No	Description of the services
1.	Disaster Recovery Services	As per relevant Clause (s)		
2.	Migration Services	As per relevant Clause (s)		
3.	Cloud Manage Services	As per relevant Clause (s)		
4.	Advisory Services	As per relevant Clause (s)		
5.	Capacity Building Services	As per relevant Clause (s)		

Signature with Seal of the Bidder
Annexure N – compliance for tendering in india

To Chairman NETF, New Delhi-110070

Subject: Submission of the compliance for tendering in India

Dated:____/2023

Dear Sir,

Model Certificate for tenders:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by Competent Authority shall be attached].

Model Certificate for Works involving possibility of sub-contracting:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if fromsuch a country, has been registered with the Competent Authority and will not sub- contract any work to a contractor from such countries unless such contractor isregistered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached].

Model additional certificate by Bidders in the cases of specified ToT:

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that this bidder does not have any ToT arrangement requiring registration with the competent authority"

OR

" I have read the clause regarding restriction on procurement from a bidder having Transfer of Technology(ToT) arrangement. I certify that this bidder has valid registration to participate in this procurement.

Signature with Seal of the Bidder

<u>Annexure O – Relaxation of EMD for MSME vendors</u> to be substituted by BID Security Declaration

To Chairman NETF, New Delhi-110070

Subject: Proforma for earnest Money Deposit Declaration

Dated:___/__/2023

Dear Sir,

 Whereas, I /we (name of agency)
 have submitted bids for

 (name of Goods/Work/Service) for tender no:
 dated

I/We hereby submit following declaration in lieu of submitting Earnest Money Deposit.

1. If after the opening of tender ,I/We withdraw and/or modify my/our bid during the period of validity of tender (including extended validity of tender) as specified in the tender documents

Or

2. If, after the award of work, I/we fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents.

I/we shall be suspended for one year and shall not be eligible to bid for NETF tenders from the date of issue of suspension order.

Signature with Seal of the Bidder

41. Financial Bid (To be submitted in BOQ)

Instructions to Bidders

- 1. Financial Bid shall be submitted with full price details. Financial Bid shall contain the Rate (CSP), discount, Cost per entity, Total Discounted Cost duly filled in as per the format given in BOQ
- 2. The Rate(CSP), discount, Cost per entity, Total Discounted Cost and prices must be quoted, failing which the Bid would be treated as unresponsive.
- 3. Price quoted by the bidder is including all transportation and installation etc. cost (if any)

NOTE:

- The bidder shall quote the price including all duties as applicable except GST. GST shall be paidextra as per applicable rates. NETF shall only make payment towards the GST charged in the invoice other than no other taxes/duties/charges will be paid.
- The costs quoted above shall be inclusive of costs pertaining to travel/stay and any other allowance/incidentals payable to the staff deployed by the bidder for the assignment.
- If there is any discrepancy in price quoted in figures and words, the price quoted in words shall be considered for evaluation