

TWO PARTS TENDER ITEM

Technical specifications for High Performance Computing Workstations

Design

Item	Type	Quantity
A	Login node	1
B	High Performance Compute node	4

Detailed specifications

A. Login node (Qty.: 1 No.)

Component	Specifications
Processor	2 x 8 core Intel Xeon Silver 4108 processor (skylake), 1.80 GHz or higher base clock speed, 11 MB (or higher) L3 Cache, Turbo-boost (max Turbo frequency – 3.0 GHz), minimum two UPI links and 85W TDP.
Motherboard	Original Intel / OEM motherboard suitable for the above processor with Intel 621 or higher chipset, 16 or more DIMM slots.
Memory	64 GB, DDR4 - 2400 MHz or higher frequency, Registered DIMMs of low voltage (1.2 V or less) with advanced ECC and online spare support. Should be populated in balanced configuration.
Storage	2 x 600 GB or higher Enterprise class SAS HDD 10k RPM or NL-SAS or SSD in RAID-1 setting with Dedicated H/W RAID controller for OS. 10 x 4 TB Enterprise class SATA HDD 7.2k or better RPM in RAID-6 setting for Storage with Dedicated N+N redundant RAID controller with at least 2GB battery backed cache.
Network	Atleast 3 x 1Gbps ethernet network adaptor and one remote management port
Interconnect	EDR InfiniBand 100Gbps Adapter using PCI-E 3.0 x16
Expansion slots	Minimum one available PCI-E 3.0 x16 and two available PCI-E 3.0 x8
Interface	3 or more USB 3.0 ports.

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Power supply	N+N redundant Hot plug power supplies with 80PLUS Platinum standard.
Fans	N+N Redundant Hot plug fans
Indicators	Health/Activity Indicators for power, network, Memory failure and drives.
Operating system	64 bit CentOS Linux 7.6 or latest with necessary parallel libraries setup in HPC configuration
Remote management	Integrated remote management module with remote KVM Support. OEM Server Management Suite, Integrated remote management controller with dedicated 1GbE port, should support graphical console redirection and remote media redirection. Any license for server management and KVM redirection should be included for 3 years. Management & monitoring should have agentless monitoring using out of band management.
Warranty	3 years Comprehensive on-site replacement warranty
Firmware	Recent stable version for all hardware and free upgradation support for Warranty period.

B. Compute nodes (Qty.: 4 Nos.)

Component	Specifications
Processor	2 x 20 core Intel Xeon Gold 6230 processor (skylake), 2.1 GHz or higher base clock speed, 27.5 MB (or higher) L3 Cache, Turbo-boost (max Turbo frequency – 3.9 GHz), minimum three UPI links and 125W TDP.
Motherboard	Original Intel /OEM motherboard suitable for the above processor with Intel 621 or higher chipset, 16 or more DIMM slots
Memory	128 GB DDR4-2933 MHz or higher frequency, Registered DIMMs of low voltage (1.2 V or less) with advanced ECC and online spare support. Should be populated in balanced configuration
Storage	2 x 4TB hot-swap Enterprise class SATA HDD 7.2 kRPM in RAID-1 setting using dedicated H/W RAID controller.
Network	Atleast 2 x 1Gbps ethernet network adaptor and one remote management port
Interconnect	EDR InfiniBand 100Gbps Adapter using PCI-E 3.0 x16
Expansion slots	Minimum two available PCI-E 3.0 x8 and one available PCI-E 3.0 x16 slots

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Interface	3 or more USB 3.0 ports.
Power supply	N+N redundant Hot plug power supplies with 80PLUS Platinum standard.
Fans	N+N Redundant Hot plug fans
Indicators	Health/Activity Indicators for power, network, Memory failure and drives.
Operating system	64 bit CentOS Linux 7.6 or latest with necessary parallel libraries setup in HPC configuration
Remote management	Integrated remote management module with remote KVM Support. OEM Server Management Suite, Integrated remote management controller with dedicated 1GbE port, should support graphical console redirection and remote media redirection. Any license for server management and KVM redirection should be included for 3 years. Management & monitoring should have agentless monitoring using out of band management.
Warranty	3 years Comprehensive on-site replacement warranty
Firmware	Recent stable version for all hardware and free upgradation support for Warranty period.

Storage

Overall at least 32 TB of raw file system under RAID-6 (8D+2P configuration) to be provided with enterprise level SATA or equivalent disks mounted on the login node. Set up through NFS.

1. **Home Space:** 28 TB usable capacity.
3. **/opt space:** 4 TB usable capacity

All these volumes should be visible from login and compute nodes within LAN.

Network Interconnect

x86 based 100% Non-blocking 100Gb/s managed EDR Infiniband switch (including connector cables), should cover the entire solution of login and compute nodes with following specifications.

Components	Specifications
Port	100% non-blocking ports

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Aggregate Switching Capacity	7.2 Tb/s
Link Speed	100Gb/s
Interface Type	QSFP28
Management Port	One (RJ45), System reset button
Standard	Compliant with IBTA 1.21 and 1.3
Supported Features	256 to 4Kbyte MTU Adaptive Routing Congestion control VL2VL mapping 4x48K entry linear forwarding database
Connectors and Cabling	QSFP28 connectors active fibre cables Optical modules
Management software	Suitable management software to manage the switch including firmware, power supplies, fans, ports and other interfaces Unified Fabric Manager (UFM) or equivalent software with full working license for entire solution On-board Subnet Manager for fabric management for entire solution
License	Fully working license copy should be provided for management software
Indicators	Per port status LED Link, Activity System LEDs: System, fans, power supplies Unit ID LED
Power Supply	N+N redundant power supply Hot plug operation Input : 200-240VAC Frequency: 50-60Hz
Cooling	Front-to-rear cooling option Hot-swappable fan unit
Form Factor	19" rack mountable 1U chassis with rack mounting kit
Warranty	three year on-site comprehensive warranty

LAN and Management switches

- 1.10/100/1000 Mbps managed switch for LAN connectivity (Connector cables included) - 8 ports or more.
- 2.Managed GE Management switch (Connector cables included) - 8 ports or higher.
- 3.Network should be MPI compatible

- All Network/Interconnect cabling must be structured and adhere to ANSI/TIA – 568 standard.

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- The network should cover entire solution.
 - Necessary software (fully licensed and supported) to monitor and manage the network.
4. KVM Console with monitor, slidable enclosure with appropriate KVM switch for entire solution.

Operating System

1. All nodes should be configured with the latest 64 bit CentOS Linux suitable for HPC, with necessary parallel libraries.
2. X-window login for master and only text login for compute nodes.
3. All updates must be installed/patched for all installed packages.

Rack Assembly

1. All hardware should be properly mounted on Rack fitted with rollers.
2. Efficient heat mitigation system with hot-swap blowers or active cool fan.
3. N+N redundant Power distribution systems with necessary cabling.
4. Hot-pluggable, full power redundant, 230 Volts AC power supply
5. Single phase and N+N power supply redundancy
6. Features to monitor overall system health like power consumption/temperature etc.

Accessories

24" LED monitor, USB Keyboard and USB optical Mouse should be provided with the solution.

General Instructions

1. All components provided in the solution must be brand new.
2. All nodes should have I/O expansion slots.
3. All powering and network cables should be structured.
4. Form factor for compute nodes: 1U rackmount.
5. Installation and on-site Support services for 3 years.
6. All hardware should be installed with recent stable version of firmware.
7. Computing nodes should be able to run scientific codes like Quantum Espresso, VASP, LAMMPS.
8. Benchmarking of nodes should be done with Quantum Espresso and LAMMPS inputs

Cluster Management

1. The entire cluster should be streamlined with a cluster management software like Rocks cluster management or an equivalent software that is customised/optimised for high performance computing (eg. HPE Insight cluster management software).
2. User account management from master node.
3. Monitoring tool Nagios/Ganglia or better, integrated with Environment values, Load, Resource status, syslog status, system environment status, Hard Disk usage status and hardware configuration.
4. PDSH, Generating Host Keys for users and PDCP should be configured.
5. Users 'home directory should be in HOME file system with quota enabled.
6. Re-imaging new nodes from master nodes.
7. Integration of all software components so as to make the system fully functional and usable (e.g., integration of the scheduler with MPI, any license managers, etc.).
8. Access to be limited to campus network through SSH with provision to allow access to specific IP addresses outside the campus LAN.
9. User home directories should be mounted through sshfs at the time of login.
10. Remote halt, boot, reboot, power-off, broadcast commands.

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11. Featuring tools to issue commands to all or a chosen set of nodes

Job Management

1. Jobs can be submitted only from the master node.
2. Jobs have to be scheduled based on Fair share calculation (i.e., Historical usage of CPU) using MAUI/SLURM/PBS or equivalent open-source level jobs scheduler.
3. CPU enabled scheduling with checkpoint and restart.
4. Job scheduler configuration including new/delete/disable queues.
5. Dynamic Resource Management and Resource balancing.
6. Policy based resource allocation.
7. Configure job scheduler so that it is integrated with all installed MPI/Compiler/Application combinations.
8. Configure job scheduler for script less (short command line) submission of jobs.
9. Modules support for maintaining multiple version of software's.
10. Job status monitoring, Job history
11. Usage accounting & reporting with total utilization of resource.
12. Check runaway process before entering new jobs.
13. Restricting user login to compute nodes.
14. Yearly quota for CPU time for users.

Compilers/Softwares/Libraries:

Open source

1. OpenMPI, MVAPICH2 MPI Libraries
2. gcc and fortran compilers
3. Math and Engineering libraries, Octave, LAPACK, SCALAPACK, BLAS, BLACS, PARPACK, FFTw2 and FFTw3 etc.
4. Scripting languages: Perl, Python, Numpy, SciPy, MDAnalysis, Setuptools, IPython, pythondev, pythonnumpy, pythonmatplotlib, pythontk, pythonxml, PyReadline

Latest stable version of all the above compilers, softwares and libraries should be installed by the OEM. Must be supported and upgradable for 5 years.

Documentation

1. User Creation/Deletion/Modification.
2. Bringing up and shutting down the cluster.
3. Disk status monitoring of Master/IO nodes and storage enclosure.
4. Basic troubleshooting for storage and job scheduler.
5. Step by step installation guide for node configuration from scratch.

Benchmark

The following benchmarks are to be submitted for the system on the proposed configuration or closest available configuration at the time of the bid. OEM will have to reproduce the submitted benchmark results on site (within 5% accuracy) after installation.

- LINPACK benchmark for peak performance.

Acceptance criteria

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OEM will have to reproduce the submitted benchmark results on site (within 5% accuracy) after installation.

Warranty and Support

- The vendor should provide complete solution with h/w and s/w components, validated and certified by the OEM.
- The OEM shall be responsible for round-the-clock operation and comprehensive time-bound maintenance for three years (extendable up to five years) from date of start of operation and shall provide an undertaking for the same at the time of submitting the tender.
- The OEM shall commit in writing that hardware failures will be resolved within 48 hours (Turn Around Time - TAT) from the time of receiving the complaint from the end user. Incase the OEM wants the complaint routed through a SI/Channel partner, the TAT of 48 hours starts from the time the complaint is brought to the notice of such SI/Channel partner.
- All components of HPC should carry an onsite replacement warranty of three years.
- All server components such as CPUs, fans, power supplies, memories and hard disks should have pre-failure warranties.
- All servers should be UL / FCC certified.
- The installation should be done by certified and trained engineers followed by comprehensive user training.
- All technical personnel deployed for the project should be employees of the OEM and with at least 1 year experience on HPC. Documents undertaking the same should be produced by the vendor at the time of submitting the tender.
- The bidder (if different from the OEM) should ensure prompt communication with the OEM and facilitate at least next business day response from the OEM through complete back to back SLA with the HPC OEM. The OEM is entirely responsible for the resolution of hardware failures within 48 hours (Turn Around Time - TAT) from the time of receiving the complaint from the end user either through the SI partner who is bidding or by direct communication from the user.
- The OEM shall preferably undertake to provide any software assistance to the users of the HPC clusters including installations of the requested softwares, libraries, tools etc, as and when required during the period of the contract.
- The vendor shall ensure access to 24 x 7 online support for 3 years from Technical Assistance Centre of OEM/bidder for resolution of problems with the help of online tools and technical assistance.

HPC Original Equipment Manufacturer (OEM) Eligibility Criteria

S.No.	Criteria	Documentation
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Item No.*1- High Performance Computing Workstations
NIT . 04/2020-21 dt 27-01-21 due on 18-02-2021.

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1	The OEM should have successfully installed infiniband based HPC clusters of total theoretical performance* 40 TFLOPS or higher in the last 5 years including at least 1 installation of more than 15 TFLOPS (in a single order), in Indian educational/academic/Govt. Research institutions (like IITs, IISERs, IISc, TIFR, RRCAT, SNBCBS, BARC, IUAC etc.) or reputed national organization, in the last 5 years. At least 1 such installation must be in a GoI organisation <i>*Performance refers to CPU only performance and does not include GPU/Coprocessor performance</i>	Copy of Purchase order Completion certificates Certificates of satisfactory services. (work executed by the the bidder)
2	Each OEM is allowed to bid directly or through at most one authorised Systems Integrators for this tender. However, bidding should be for the entire solution.	Undertaking by the OEM
3	OEM shall provide factory integration of the hardware and software including appropriately documented factory testing before delivery.	Undertaking by OEM
4	The OEM should have been in the business of HPC continuously since year 2013.	Documentary proof from OEM
5	The OEM should have a valid ISO certification for quality management	Copy of the certification
6	The OEM should have successfully supplied and installed parallel file system based storage solution totalling 40 TB or more in the last three years including at least 1 PFS of 20 TB or more (in a single order) in an Indian educational/academic/Govt. Research institutions (like IITs, IISERs, IISc, TIFR, RRCAT, SNBCBS, BARC, IUAC etc.) or a reputed national organisation. Atleast 1 such installation must be in a GoI organisation. The OEM should also have provided maintenance and support for the installation for at least one year.	Copy of work order / client certificates for work executed by the the bidder. Completion certificates. Certificates of satisfactory services.
7	The OEM should have proven experience in installing scientific applications/software on HPC clusters in Indian educational/academic/Govt. Research institutions (like IITs, IISERs, IISc, TIFR, RRCAT, SNBCBS, BARC, IUAC etc.).	Certificates from customers/ clients.

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8	<p>The OEM must have on its roll sufficient technically qualified professionals in systems integration, product installation / commissioning and related services to be deployed for the project at UGC-DAE CSR Indore.</p> <p>The OEM should also have adequate facilities, manpower and staff for installation, testing, commissioning and for providing after sales service.</p>	<p>Certificate from OEM’s HR department for number of technically certified data centre professionals employed by the company.</p> <p>Details of engineers such as engineer name, employee code, total years of experience in HPC and the number of HPC installations carried out by that particular engineer on their letter head.</p> <p>A copy of installation report must be enclosed with the technical bid.</p>
9	<p>The OEM shall commit that the key personnel to be employed for the project will not be moved out of it except for reasons beyond their control. In case the assigned personnel leaves the project a replacement with equal qualification will be provided by the OEM and that UGC-DAE CSR, Indore will be duly informed of such changes as and when they occur.</p>	<p>OEM certification</p>
10	<p>The OEM should not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted with any of the government agencies or PSUs at the time of bidding.</p>	<p>Declaration in this regard by the authorized signatory</p>
11	<p>The OEM should clearly indicate along with their bids any legal matters / issues / disputes pending / settled with GOI institutions / department, if any.</p>	<p>Undertaking from OEM</p>
12	<p>If the OEM is bidding through a SI/channel partner, then the OEM should provide the details/list of HPC as well as storage solutions executed through the said SI/channel partner in the last 5 years.</p>	<p>Details should be provided on OEM letter-head</p>

Vendor/bidder Eligibility Criteria

- A. Bids can be submitted preferably by the OEMs.
- B. In case the OEM due to their SOP cannot quote directly, the same may be submitted by their authorised channel partner who satisfies the vendor eligibility criteria listed below. However, the OEM will be responsible for installation, time-bound maintenance during warranty period (TAT - 48 hours), after sales support and post-

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warranty AMC service of the entire HPC solution. An undertaking to this effect must be submitted by the OEM at the time of bidding.

- C. An OEM shall submit only one bid either directly or through their channel partner. Similarly, an authorised channel partner shall submit only one bid.
- D. The bidder must possess the requisite experience, strength and capabilities in providing the services necessary to meet the requirements as described in the bid document for the entire period of the contract.
- E. The bids must be complete in all respects and should cover the entire scope of work as stipulated in the bid document.

S.No.	Criteria	Documentation
1	The vendor shall be HPC OEM or an authorised Systems Integrator (SI) partner of the HPC OEM (being quoted in the solution) only.	Authorization from OEM (in case of SI)
2	The vendor should also be an authorised partner of OEMs of all major components in the proposed solution.	Certification from OEM(s)
3	The vendor should be a private/public limited company registered under the Companies Act, 1956.	Certificate of incorporation. C.A. Certificate
4	The vendor should have a positive net worth and a combined turnover of more than Rs. 4 Crores for the last three financial years ending on 31.03.2018	Certified copy of the audited profit and loss account of the company showing the turnover of the company for last three years.
5	The vendor shall organize the responses in accordance with the format specified in the tender and under no circumstance shall leave any response item unanswered. If any row or column does not contain the response then the entire response may not be taken up for consideration. Any response not as per the format may not be included for any further consideration.	Self-certification
6	The vendor should submit valid certification from all the OEMs (whose products are being quoted) confirming the following 1. The products / technologies / components / services quoted are not at end of life. 2. Undertake that the support including the spares, patches for the quoted products shall be available for next 6 years. Here OEMs refers to manufactures of one/more of the following : • Servers and all HPC components including memories, hard-disks, network switches, etc. • Storage infrastructure	Certificate from OEM

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7	The vendor should ensure access to online support for 3 years from Technical Assistance Centre of OEM/bidder for prompt resolution of problems with the help of online tools and technical assistance.	Undertaking from bidder
8	<ul style="list-style-type: none"> · The vendor should have back to back SLA for this contract with OEM(s) for ensuring services for all components of the proposed HPC cluster including any software updates and maintenance releases. · OEM should guarantee to facilitate the vendor on a regular basis with technology/product updates and extend support for the warranty as well. 	<p>Copy Scope of work sign with OEM(s) or certified statement with details of agreement.</p> <p>Undertaking from OEM.</p>
9	The bidder should not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted with any of the government agencies or PSUs at the time of bidding.	Declaration in this regard by the authorized signatory
10	The bidder should clearly indicate along with their bids any legal matters / issues / disputes pending / settled with GOI institutions / department, if any.	Undertaking from the bidder

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 (An Autonomous Institution under University Grants Commission)
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NOTICE INVITING TENDER No. 04/2020-21 dt 27-01-21 due on 18-02-2021 at 16.00 hrs.

Director, UGC-DAE Consortium for Scientific Research, Indore invites separately sealed bids from eligible bidders for supply of the following:

Sl. No.	Description of Item <u>Two Parts Tender Items</u>
*1.	High Performance Computing work station
*2.	Turbo pump
*3.	Water Chiller
a.	Cost of the Tender Document: Rs.200/- (Non-Refundable) for each item, payable by demand draft in favour of "UGC-DAE CSR" payable at Indore,
b.	Detailed tender document can be obtained in person, by post from Administrative Officer-I (Purchase & Stores Section), UGC-DAE CSR, Indore (address given above) after paying the cost of the tender document. The details of the tenders are also available on our website www.csr.res.in .
c.	The Tender Document can also be downloaded from our website www.csr.res.in . In case the Tender Document is downloaded from the website, the cost of Tender Document is Rs. 200/- for each item shall be payable by Demand Draft in favour of "UGC-DAE CSR" payable at Indore in separate envelope along with the tender. The tenderer must submit the tender cost along with the tender. The tenders, if received without tender cost, will not be considered.
d.	If any overseas suppliers participate in the tender directly (Who does not have Indian Agent or Branch Office in India), then the cost of the tender documents may be waived.
e.	Starred (*) Items must be quoted in two separate sealed parts (Part A-Technical and Part B-Financial).
f.	Tender document will be available from 28-01-2021 to 17-02-2021 on all working days - Monday to Friday (10.00 AM to 4.00 PM).
g.	These items can be shifted in any laboratory of the consortium in the country.
	Administrative Officer-I (Purchase & Stores Section)

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Terms and Conditions

1.	Tender in sealed cover duly superscribed "Tender No. dt.... due onfor item "complete with all details, otherwise tender may not be opened/considered. If you are interested to quote more than one items, you shall submit the quotations in sealed cover separately. (*) items as mentioned in the Tender No. <u>04/2020-21 dt 27-01-21 due on 18-02-2021 at 16.00 hrs.</u> must be quoted in two parts (Part A-Technical and Part B-Financial). The two parts show separate sealed covers.
2.	Price should be quoted CIP Mumbai & Insurance up to Indore separately (As per INCOTERMS 2010). In case of local firms they should quote for delivery in premises of this office.
3.	Director, UGC-DAE CSR, Indore, reserves the rights of accepting in full or part /not accepting the tenders without assigning any reasons.
4.	The acceptance of tender, will rest with the Director, UGC-DAE CSR, Indore, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assignment of any reason.
5.	Delivery and Installation period must be mentioned. (if Installation required)
6.	Liquidated Damages: The penalty for late delivery will be imposed @ 2% per month or a part there of, subject to a maximum of 10% of the total value of the order.
7.	The tender shall remain open for acceptance for a period of 90 days from the date of receipt.
8.	The decision of the Director, UGC-DAE CSR, Indore, shall be final in all the cases.
9.	Director, UGC-DAE CSR, Indore, shall not be liable for postal delays. The incomplete tenders or the tenders received after due date will not be considered.
9.	Quote your offer along with literatures/catalogues, if any.
10.	We are exempted from the custom duty. The custom duty exemption certificate is issued by Department of Science & Industrial Research (DSIR), Govt. of India, New Delhi. Customs duty exemption in terms of Government Notifications No. 51/96-Customs dated 23.07.1996; No. 24/2007-Customs dated 01.03.2007; No. 43/2017-Customs dated 30.06.2017; No. 45/2017 Central Tax (Rate) & 47/2017-Integrated Tax (Rate) dated 14.11.2017; No. 9/2018-Central Tax (Rate), No. 09/2018-Union Territory Tax (Rate) & No.10/2018-Integrated Tax (Rate) dated 25.01.2018; and State Tax (Rate). Our Registration No. is F.No.11/375/99-TU-V dtd. 18-03-2019 & valid up to 31-03-2022.
11.	Price should be quoted in Indian rupees only.
12.	GST must be quoted separately , GST will be applicable as per the Notification No. 47/2017- Integrated Tax and 45/2017- Central Tax dated 14-11-2017 for Scientific and Technical Equipment.
13.	No claim for any tax or duty, not stipulated in the tender will be admitted at any stage.
14.	The tenderer should furnish the users list where similar equipment has been supplied recently.
15.	Special care should be taken to write the rates in figures as well as in words. No overwriting be done on the rates and units.
16.	Arbitration: "in connection with the present contract shall be finally settled under the Rules of conciliation and arbitration of the International Chamber of Commerce" should be replaced by "between both parties in connection with the CONTRACT which cannot be settled amicably shall be exclusively & finally settled by Arbitration under the rules of conciliation and arbitration of the International Chamber of Commerce, Mumbai " by one or more Arbitrators appointed in accordance with the said Rules.
17.	No deviation from the stipulated terms and conditions will be allowed. Tenders should be unconditional.
18.	The warranty of the equipment should be for 12 months from the date of commissioning / installation.
19.	It will be obligatory on the part of the tenderer to sign on your offer.
20.	Subject to Indore Jurisdiction.
21.	The bidder should fully comply with the OM no. F.No. 6/18/2019-PPD dated 23-07-2020 inserting rule 144 (xi) in GFR 2017 by the Ministry of Finance, Department of Expenditure, Public Procurement Division.
22.	For Indigenous goods no advance payment will be made.
23.	The Performance bank guarantee must be provided till the warranty period.
24.	The last date for submission of the tender documents is 18-02-2021 up to 16.00 hrs. Tender will be opened on 19-02-2021-at 11.30 hrs. Tenderer (s) / authorized representative(s) may attend on the opening of the tender bids.