



ISO 9001 Company

Heavy Engineering Corporation Limited
(A Govt. of India Enterprise)
Heavy Machine Building Plant
Central Purchase Department

Tender Notice

Tender No. HMB/PUR/CP/20/220077/OM-6033, dtd: 02-06-2020 is available on our website in e-procurement section i.e. <https://etenders.gov.in/eprocure/app> and in Open tender section. Aspiring bidders may go through the tender document.

Interested bidders are requested to submit their most competitive offer through e-procurement mode only. Offer submitted through offline mode will not be considered. For more information please visit our website <https://etenders.gov.in/eprocure/app>.

Bid submission end date	22-06-2020	01:00 PM
Technical Bid Opening date	23-06-2020	03:00 PM

Prospective Tenderers are advised to get register themselves only on at NIC e-tender portal i.e. <https://etenders.gov.in/eprocure/app>, obtain 'User ID' & 'Password' and go through the 'Self Help files' available in the Home Page after log in to the portal <http://etenders.gov.in>. They should also obtain Class III Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. Detailed instructions for online bid submission are attached in **annexure-O**. No registration fee would be charged from the bidders.

Bidders are required to upload the bid along with all supporting documents including priced part (BoQ) only on the e-tendering website (<https://etenders.gov.in/eprocure/app>), on or before the due date and time for submission of bid.

NOTE:

- 1. Any Future changes/notifications including extension of bid due date, pertaining to this tender will be published/hosted only on website & CPP Portal only.**



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Submission of tender

The Following 2 covers shall be submitted through online CPP - portal by the bidders. Last date and time of submission of bids (cover 1, 2) is as per given dates.

Cover – I: - Containing techno-commercial bid

Cover – I containing

- i. Duly Filled Annexure-J
- ii. All documents as per Annexure-J

Cover - II: Price Bid (BoQ)

a) The tenderer shall upload the digitally signed Schedule of price bid in the form of BOQ.xls

Bidders may please note, the schedule of quantities is attached in the portal. The same (BOQ) shall be downloaded and be filled in the editable (un protected) cells only and they should necessarily submit their financial bids in the format provided after entering the financial quotes, name of the bidder etc.

Bid Opening Process is as below:-

Cover-I: Technical bid opening date will be as per given dates. If any clarification is needed from the bidder about the deficiency in his uploaded documents in Cover-I, he will be asked to provide it through Short fall documents folder in e-tendering portal one time only or through mail. The bidder shall upload the requisite clarification / documents within time specified by HEC, failing which tender will be liable for rejection.

Cover-II: The financial bids of the contractors / firms found to be meeting the qualifying requirements and technical criteria shall be intimated through portal. (Depending on Cover-I evaluation any changes in the date shall be intimated through e-tendering portal).



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dtd: 02.06.2020

HEC intends to procure the following item. Interested firms are requested to submit their most competitive offer for supply of following item as per the technical Instructions and the terms & conditions given below.

Sl. No.	Description	UoM	Qty
1	Server with 3 years OEM Premium Support (as per Annexure – A)	No.	1
2	Backup Software 3 years OEM Support (as per Annexure – B)	No.	1
3	Storage Devices 3 years OEM Support (as per Annexure – C)	No.	1
4	Desktop Computer 3 years OEM Support (as per Annexure – D)	Nos	2
4.1	Addl. Desktop RAM 8GB	No.	1
5	Oracle Database Standard Edition 2 - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – E)	Nos.	2
5.1	Oracle WebLogic Suite - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – F)	Nos.	2
6	A. Re-engineering of the old system and develop / migrate in Oracle.	LS	1
6.1	B. Trainings • Oracle Database Administration • PHP Application Connectivity • Oracle Apps and Cobol environment setup	LS	1



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Eligibility Criteria / Pre-Qualification

Sl	Description	Remarks	Compliance
Technical Prequalification /Eligibility Criteria			
1	Project is to be done on Turnkey basis from A SINGLE SOURCE ONLY. i.e. Design, Engineering / Re-Engineering, Supply, Commissioning & Maintenance etc. from a Single source.		
2	The bidder should have successfully executed the implementation of similar application software(s) using Oracle as database during the last seven years as on date of NIT and should have following : a) Should have completed 1 similar project costing not less than 1.5 Crore in any Govt. Sector / PSUs.	a) Copy of work order or contract agreement in support of this must be submitted. b) Copy of Successful completion or commissioning certificate from the end user/client in support of this must be submitted.	
3	The annual average financial turnover in the last 3 years should be at least 10 Crore.	a) Copy of audited profit and loss account/ Income tax return filed must be submitted.	
4	The bidder should have at least Capability Maturity Model Integration (CMMI) Level-3 certification for software development and implementation.	a) Copy of valid certificate needs to be submitted.	
5	The bidder must be authorized by Oracle Corporation for having technical support.	a) Copy of authorization letter needs to be submitted.	
6	The bidder must be authorized by Server, Storage, Data Base Software, Backup Software etc. Manufacturer for having technical support.	a) Copy of authorization letter needs to be submitted.	
7	The bidder should have at least Two Oracle Certified DBA with Min. 3yrs. Experience and at least Three Numbers Oracle/ Sun Solaris Certified engineer with Min. 3yrs.	a) Copy of Certificates. b) Proof of Employment	
8	The bidder must have ISO/IEC 20000-1:2011, ISO/IEC 27001:2013 & ISO 9001 : 2015 or latest	Copy of valid certificate needs to be submitted.	



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General Requirements

1. **Tenderer shall study the relevant specifications and shall visit site before quoting for system.** The tenderer should acquaint oneself with HEC's existing servers and software and the requirements of the proposed system before quoting for the system during the site visit. The tenderer shall be deemed to have studied the complete tender specification and made themselves familiar with the requirements before quoting. **Submission of site visit report as per Annexure III duly signed by the executing authority is to be attached with the offer without which the offer will be rejected.**
2. All the components, tools and tackles, material and accessories that are not specifically specified but required for the project shall be included in the scope of project.
3. All the application routine tests as per standards shall be conducted.
4. All establishment charges like posting of personnel, accommodation, transportation etc. during the commissioning period and handholding period, is to be borne by the tenderer.
5. Accommodation and transport of the personnel posted by the tenderers is their sole responsibility. All tools and tackles required for maintenance is the responsibility of the tenderer.
6. There will be weekly project status meeting to assess the existing situation and plan for next course of action. HEC representatives and development team will jointly review proceedings of the project.
7. No additional cost should be claimed by the contractor for any changes required for project implementation not exclusively covered in Annexure I.
8. The Workforce earmarked for the current Project should be exclusively working on the same and should not be engaged in any other Project/ Contract.
9. Final acceptance will be issued by Assigned Authority on system readiness



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Terms & conditions

1. The rate quoted shall be Inclusive of all packing & forwarding, Freight charges & insurance on F.O.R HMBP Stores.
2. The Price quoted by the tenderer should be exclusive of GST. The rate and nature of GST applicable should be shown separately. GST will be paid to the seller at the rate at which it is liable to be assessed or has actually been assessed on the date of supply provided the transaction of sale is legally liable to GST and within the delivery period.
3. **Validity of offer** - The rates quoted must be firm and the offer made must remain valid for acceptance up to **three months** from the date of opening of the tender. The rate quoted must be in word and figure as well. In case any discrepancy in rate given in figures and word, the rate given in words will prevail.
4. **Payment terms:** Payment will be made within 30 days after submission of appropriate invoice along with all other required supporting documents to HECL and upon receipt of work completion certificate form user deptt. The payment schedule shall be as following-

		Description	Payment Milestone
i	Supply	On supply and installation of Server, Storage and other Hardware Components	100%of the hardware value
ii	Supply	on Supply of Oracle SW Licenses	100% of the software license value
iii	Re-engineering	On Submission of SRS (software requirement specification) document	15% of the re-engineering value
iv	Re-engineering	on completion of Development	25% of the re-engineering value
v	Re-engineering	On completion of migration	25% of the re-engineering value
vi	Re-engineering	On Go Live	30% of the re-engineering value
vii	Re-engineering	Training	5% on completion of training

5. **Delivery Schedule** – The supplier(s)/contractor(s) shall comply the following:
 - a) Supply of all Hardware and Software items covered in Work Order is completed within 60 days from the date of issue of Work Order.
 - a) Installation and commissioning of work inclusive of establishment of Hardware infrastructure, migration of application software along with data transfer mentioned in the scope of work is completed within 120days from the date of issue of Work Order.



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6. Full particular i.e. specification, literature and or drawing wherever applicable should be submitted along with the quotation.
7. The Corporation does not pledge itself to accept the lowest or any tender and reserve to itself the right of accepting the whole or any part of tender or portion of the quantity offered and you shall supply the same at the rate quoted.
8. Inspection of the items will be done by QCA/HMBP, I/c System/HQ or his authorized representative at supplier's works, Necessary tools and measuring instruments to be provided by the supplier.
9. Corporation reserves the right to call for and examine at any time the books of accounts and other document and papers of the firm for the purpose of ascertaining whether any excess payment has been made or the firm likely to be received / received undue benefit out of execution of the particular contract.
10. **Earnest Money Deposit** –Rs 3,00,000.00/- will have to be deposited by demand draft on any of the nationalized banks in favor of "Heavy Engineering Corporation Limited, payable at Ranchi" or in the form of Bank Guarantee as per annexure-L. The EMD in form of DD/BG/Receipt of NEFT/RTGS to be send at our office address and the copy of same shall be enclosed in the Techno- Commercial bid (Part 1) only. Exemption of EMD shall be applicable on submission of valid SSI/NSIC/MSME certificate and as per prevailing govt guidelines. SSI/NSIC/MSME Certificate to be enclosed in Techno Commercial Bid Part 1.
11. **Tender Fee** –Rs 1500.00/- will have to be deposited by demand draft on any of the nationalized banks in favor of "Heavy Engineering Corporation Limited, payable at Ranchi. The Tender fee in form of DD/BG/Receipt of NEFT/RTGS to be send at our office address and the copy of same shall be enclosed in the Techno- Commercial bid (Part 1) only. Exemption of Tender Fee shall be applicable on submission of valid SSI/NSIC/MSME certificate and as per Govt rules. SSI/NSIC/MSME Certificate to be enclosed in Techno Commercial Bid Part 1.
12. **Security deposit (SD)** – Successful tenderers will have to deposit security equal to 5 % of the value of the contract within the desired period i.e. within 21 days of PO date. Failing this, the contract will be cancelled at the risk and expenses of the suppliers. SD will have to be deposited by demand draft on any of the nationalized banks in favor of "Heavy Engineering Corporation Limited, payable at Ranchi" or in the form of Bank Guarantee as per format at annexure-M or by NEFT/RTGS to HEC's A/c. Exemption of SD shall be applicable as per prevailing govt guidelines.
13. **Delivery** : The time for and the date of delivery of the Stores stipulated in the acceptance of tender shall be deemed to be the essence of the Contract and delivery must be completed not later that the dates specified therein. Otherwise:



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- a. The purchaser to recover from the Contractor a sum of 0.5% per week (Completed week) of the price of the Stores (upto maximum 10%) as liquidated damages, which the contractor has failed to deliver as a foresaid or
 - b. The purchaser may procure the undelivered stores/ similar items from elsewhere, without notice to the contractor at the risk of the contractor without canceling the contract in respect of the consignment not yet due for delivery or
 - c. To cancel the contract or a portion thereof.
- 14.** There is no obligation on our part to accept delayed / late tenders. Tenders received after the due date of opening are liable to be summarily rejected.
 - 15.** The corporation reserves the right to reject any / all tender partly / fully and no tenderer can ask any explanation anywhere in this regard.
 - 16. Performance Bank Guarantee:** The successful tenderer will have to submit performance bank guarantee amounting 10% of the contract price valid till guarantee period in HEC's format enclosed as annexure-N after supply of material.
 - 17. Guarantee clause-** Guarantee of 12 months will be applicable from the date of issuance of Final Acceptance Certificate. Warranty will also include changes in the software as and when required. During the warranty period they will have to attend the breakdown within 48 hours on call basis.
 - 18.** The total Tendered Quantity of all Item will be awarded on package basis on Successful technical suitable firm at L-1 Landed Price.
 - 19.** Order placed as a result of this tender will be governed by the Corporation's General Terms and Conditions of Contract which can be referred in HEC's website www.hecltd.com

(Sunil Kumar Singh)
DGM (CP)/HMBP



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1.0 Scope of work

The project is to be done on Turnkey basis from A SINGLE SOURCE ONLY. i.e. Design , Engineering / RE-Engineering ,Supply ,Commissioning & Maintenance etc. from a Single source.

1.1 The scope of work

- Detailed analysis of the existing systems will be the foremost task to be carried out by the Contractor. This will include analysis of documentation in use, detailed information requirements, reporting procedures & formats, reporting levels coding and classification being followed. The following Broad scope is outlined for reference.

- **Database Server Provisioning**

Which includes installation and configuration of newly supplied Server Hardware, Oracle Software platform to be readied for migration from existing platform.

- **Database Migration**

Migration of Database from old platform and also from MySQL and to ensure the PHP application also shall connect to New Oracle Database 12c instance.

- **Provisioning of Oracle WebLogic Application Server with Forms and Reports and Migration the Forms and Reports from old platform.**

The already developed applications (in Form-6) are to be migrated to Form 12c with web-logic and Oracle Developer suite , ensuring seamless form building, running and report generation & printing.

- **Setting up Open COBOL Environment for running existing COBOL Applications and Conversion of Existing COBOL Programs to Open COBOL Environment**

The present COBOL programs to be made running with OpenCOBOL. (50 programs approximately). Environment for editing, compiling and running of the programs are to be created. The output reports of the programs are to be printed in the existing Line Printers with proper format.

- **Training**

On DBA, Oracle Forms & reports 12c, PHP and application connectivity. Guidance about conversion of the existing COBOL programs to Open COBOL environment



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1.2 Bill of Materials and Required Technical Specifications

SCHEDULE OF EQUIPEMNTS

Sl. No.	Description	UoM	Qty
1	Server with 3 years OEM Premium Support (as per Annexure – A)	No.	1
2	Backup Software 3 years OEM Support (as per Annexure – B)	No.	1
3	Storage Devices 3 years OEM Support (as per Annexure – C)	No.	1
4	Desktop Computer 3 years OEM Support (as per Annexure – D)	Nos	2
4.1	Addl. Desktop RAM 8GB	No.	1
5	Oracle Database Standard Edition 2 - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – E)	Nos.	2
5.1	Oracle WebLogic Suite - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – F)	Nos.	2
6	A. Re-engineering of the old system and develop / migrate in Oracle.	LS	1
6.1	B. Trainings <ul style="list-style-type: none">• Oracle Database Administration• PHP Application Connectivity• Oracle Apps and Cobol environment setup	LS	1



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TECHNICAL SPECIFICATIONS

Server: Qty. 01 No.

(Annexure – A)

S. No	Description	Technical Specification	Compliance (Yes / No)	Remarks
Make & Model		To be Mentioned		
1	Form Factor	Rack Mountable - Maximum 2 RU Form Factor		
2	Processor and Architecture	2 * Eight Core 64-bit RISC processor with 4.2 GHz or Higher		
3	Processor Features	Should have integrated features or hardware to support security and analytics acceleration through Software in Silicon technology.		
4	Cache Memory	Level 1: 16 KB instruction and 16 KB data per core Level 2: 256 KB L2 I\$ per four cores, 256 KB L2 D\$ per core pair Level 3: 16 MB L3\$ on chip		
5	Memory	512 GB ECC DDR4 2400 MHz RAM or higher.		
6	HDD Controller	Integrated /Internal SAS-3 12 Gbps controller		
7	RAID Support	The Server should support RAID 0,1,1+0 and 5.		
8	Hard Disk Drive	4 * 1.2 TB 10000 RPM Hot pluggable SAS-3 12 Gbps Hard Disk Drives		
9	Network Card	Should quote minimum of 4 * 1/10 Gbps Base-T Ethernet Ports, 2*Dual Port FC HBA.		
10	Ports	Minimum 2 USB 2.0 Ports, 1 * RJ45 serial management port, 1 * console 100 Mb/1 Gbps network port		
11	RAS Features	* Hot-pluggable disk drives * Redundant, hot-swappable power supplies and fans * Environmental monitoring * Message retry, cache, and memory error correction * Fault Management Architecture including Predictive Self Healing		



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12	System Management	Proposed Server should have systems management tool (Enterprise or Top Edition) which should support below: * Lifecycle Management of Physical and Virtual Machines, Hypervisor/Virtualization Layer, Operating Systems, OS Clustering Mechanism etc, * Discovery and Topology Management * Virtual Datacenters and Server Pool Architectures * Fault Monitoring, Automatic Support Requests * Enhanced BIOS tooling & Firmware Automation at system and FRU level * Operating System Bare Metal Provisioning * Operating System Performance Monitoring * Patch Automation * Energy Awareness and Management		
13	Operating System	Should support Latest Enterprise Version of Unix Operating system 64 bit Edition with unlimited user licenses.		
14	OS Virtualisation	1. Built-in, no-cost virtualization which should provide the flexibility and power of running multiple logical servers in a single server with independent operating system and/or independent operating system environments. 2. Server should support to create atleast 5 Virtual Machines (Each with its own independent OS instance) in each of these proposed servers		
15	Software Utilities	SUN STUDIO with C/C++ compilers, Java ES to be installed		
16	Certification	Proposed Virtualization Solution, Operating System should be certified to run Oracle Database 11g and above. Necessary documentation / certification should be submitted.		
17	Remote Management	Should be possible to manage the servers through Integrated Lights Out Manager and industry-standard protocols to provide secure and comprehensive local and remote management, including power management and monitoring, fault detection, and notification		



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18	Warranty / Support	<p>1. Proposed Server should be quoted with 3 Years Enterprise Grade / Premium Level support for quoted Hardware, OS and Software bundles. Also 4th & 5th year additional support should be available from OEM</p> <p>2. Bidder should provide support for entire proposed solution including hardware, operating system and clustering mechanism.</p> <p>3. Bidder must back-align support for the entire proposed solution with respective OEM mandatorily during warranty period and also during AMC period. Bidder must provide documentary proof</p>		
19	End of Life	<p>All the products quoted should be of the latest generation and End of Life should not be announced for the products and components being quoted.</p>		



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Backup Software : License for 1TB

(Annexure – B)

S. No	Technical Specification	Compliance (Yes / No)	Remarks
	Backup Management Software		
Make & Model	To be Mentioned		
1	It should provide a user-friendly enterprise console that enables the administrator to manage the complete backup and recovery environment via a Web-based interface with Active Directory or LDAP Integrated Authentication. This should allow the administrator to navigate, logon and perform functions at ease even from remote		
2	The master system must support the following systems: Windows 2008/2012/2012R2/2016 & Linux (x8664) 5.x/6.x/7.x		
3	Backup software must support client systems include: Windows, Linux, AIX, Solaris, HP-UNIX and Mac OS X Platform		
4	Proposed backup solution shall have Web Based GUI which provides intuitive workflows and efficient navigation without traveling across several pages, so most operations can be performed from a single screen		
5	The backup software should have application awareness for software like Databases and Messaging solution like Exchange/Lotus Notes		
6	Full backup of data base systems shall be possible to be taken without bringing the production system down, with full data base consistency and without affecting the performance of production		
7	Solution System should be configured with minimum 9TB Usable capacity post RAID 6. Upgradable to 500 TB		
8	Solution Should support minimum 2 TB/hr of transfer rate (data ingest speed) with scalability for Higher performance in excess of 30 TB/Hr based on easily configurable generic hardware available from technology vendors such as Dell, lenovo, supermicro, HP or equivalent.		
9	Solution should support SQL Server on Linux, SQL Server 2019 on Windows OS & Windows Server 2019		
10	Solution should allow to use of needed hardware resource either on Physical Machine or Virtual Machine or Public/Private Hosted Cloud VM Instance depends on backup policy without limitation to data ingest or total usable capacity caused by deployment choice of a VM, private/public cloud or physical hardware.		



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11	Solution provided should compatible to use any relevant x86 Compute hardware & Storage which meet the performance, also should allow using existing hardware or relevant hardware need to be supplied		
12	Solution Should support SMB, CIFS, NFS protocol, OST & VTL functions along with Built-in protocol accelerators which provide High Speed Data Ingest functionality without any addl cost		
13	Solution should Ensure that restoration speed capability is maintained by automated constant internal testing of data structure		
14	The Backup software should use the RDBMS to store the catalogue and configuration information.		
15	The proposed backup solution should allow state-of-the-art search capability enables fast and granular searches of its backup index for backup and restore. Include fast-search capabilities for metadata (name, mod date, type, etc.) and save-sets with offline indexes in your search results. detailed catalog searching for FileSystem, VMware and Hyper-V backups.		
16	Backup Solution must have Single sign-on (SSO) features to Log into Backup Software using your AD logon credentials along with Role-based access control to regulates operations administrators including capture User parameters from AD Userlist		
17	Backup Solution must have Client package push install functions and Take advantage of AD/LDAP authentication to enable “push install” for backup agent on clients machines		
18	Proposed solution should also support complete BMR backup with incremental/differential snapshots for virtual machines running on Hyper-V 2008/2008R2/2012/2012R2/2016 and VMware ESX Version 5.X/6.5		
19	Must be capable of “block level” backups for Bare Metal Recovery of Physical servers		
20	Network bandwidth compression for management of network utilization to reduce loads when backup occurs during production time		
21	Support for leading connectivity protocols :-		
	a. SAN iSCSI / FC		
	b. NAS		
	c. Ethernet Technologies 10/100/1000/10000 BaseT		
22	Should have specific agents to perform “hot” backups on the following databases, applications and Bare Metal Recovery such as:		
	a) Oracle /Oracle RAC Database on Windows/Linux and Unix		
	b) MicrosoftSQL Database on Window and Linux		
	c) MySQL Database on Linux and Windows		



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23	The Backup software shall have the following features for Oracle database backup and restore:		
	User Managed full database backups while data is online and accessible		
	• Protection for single-instance, multi-instance RAC, and Data Guard environments		
	• RMAN-based Full, Differential, or Cumulative Incremental Backups while data is online and accessible		
	• Support for Oracle Multitenant Architecture with Oracle Database 12c or later. In a Container Database (CDB), you can create one or more Pluggable Databases (PDBs) or you can opt not to create any. You can also create non-CDB databases, which was the standard prior to Oracle Database 12c. For more information, see the Oracle 12c Multitenant Architecture documentation.		
	• Backup Parameter, Control File, Archived Redo Log Files, and External Configuration Files		
	• Duplicate Database backups to create local or remote duplicate databases		
	• Protection down to the datafile level and Protect datafiles stored in Oracle's ASM File System or on raw devices		
	• Protection of backup recovery files in the Flash Recovery Area (FRA) and Parallel backup support		
	• Automatic instance configuration, Flashback Database integration, Validate and perform trial restores		
	Restore complete databases, individual tablespaces, individual datafiles, or only the corrupted data blocks		
	• Restore read-only files when needed, Rename of datafiles and Point-and-click Complete Recovery and PIT Recovery based on time, SCN, and log sequence number		
24	Postgres SQL Database on Linux and Windows		
25	MS Exchange Database on Windows with item level restoration, including restoration of a single mail, calendar item or notes for a MS Exchange environment.		
26	SAP HANA for Windows & Linux, SAP with ASE for Windows, Linux & Unix and SAP with Oracle Online Database Backup for Windows, Linux & Unix		
27	Shall support Office365 Online Backup with item level restoration, including granular restoration		
28	Shall Support Sybase and Teradata database Online Backup		
29	Should meet the following Media Management capabilities		
	a. Allow Backup Disk Storage and Tape Library sharing among Client servers without additional license		



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	b. Allow individual Tape Storage sharing among media servers and allow for reconfiguration without rebooting media servers		
	c. Tape drive support should be for SAS, iSCSI and Fiber based connections.		
30	The software should be capable of performing of Restart able backup.		
31	The software inbuilt reporting tool must has the ability to create customize reports without any additional purchase of another reporting module or 3 rd party reporting module		
32	The size of index or catalogue file must be less than 100 bytes per files/folder/directories that are being backed up.		
33	Ability to integrate with Storage for off-host snapshot-based protection Integrated SAN Snapshot functions over WEBGUI Based control including Explore Snapshots, mount and unmount snapshots with expire change based on retention policy		
34	Ability to support and manage snap shot based backup, and file based backup “ under one roof “ while maintaining granular file level recovery.		
35	The size of index or catalogue file must be less than 100 bytes per files/folder/directories that are being backed up.		
36	Ability to integrate with storage NAS snapshot based protection mechanisms by providing control GUI module		
	a) Should have Integration with NAS Storage SnapMirror® to Tape		
	b) Should have Integration with NAS Storage SnapVault® Manager		
	c) Should have Integration with NAS Storage Snapshot™ Manager		
37	Ability to support and manage snap shot based backup, and file based backup “ under one roof “ while maintaining granular file level recovery.		
38	Must support storage protocols such NDMP (version 3 & above). Please provide interoperability matrix with storage appliance firmware/OS release compliance. Specify specific features advantages aligned with the storage vendors		
39	Must be able to utilize Direct Access Restore for NDMP technologies to facilitate single file level restore.		
40	Should support all five ways of NDMP data transfer methods and provides support for advanced NDMP features such as browsable volume.		
41	Must be integrated with VMware VADP with D2D2T layout. Must be synchronized with VMware VADP for data integrity.		
42	Allows full VMware VADP backup by utilizing LAN, SAN and HotAdd advanced transport mechanisms to optimize data transfer of virtual machine backups.		



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43	The proposed Backup solution should support scheduled automated restore of the backup tapes on a test server to perform Restore Test Drills.		
44	Encryption should have the ability to be enhanced with a 'no-knowledge' automated rotation for enhanced security		
45	Should support encrypted replication using AES 128 bit and AES 256 bit and comply with FIPS 140-2		
46	The backup clients license policy should be truly heterogeneous and must not have any price implication for Linux or Windows based clients (physical and virtual). The backup solution shall include license for 300TB Capacity License for Backup Data & 500TB of De-Dupe Storage License for the backup running from physical servers, Virtual machines(Hyper-V & VMWARE) and DB Agents along included along with required BMR Agent , Encryption , Inline-Source-Target De-Duplication & DR Site Replication License. Any Additional incremental client/plugin license cost shall be given separately for each physical,virtualmachine,DBAgent,NDMPAgent,ClusterAgent,TapeDrive,VTL, LAN/SAN Agent, Bare Metal Recovery Agent for Windows & Linux if the same not part of Capacity License Quoted. Also, the solution should clearly specify the no. of clients that are default included with the base configuration and all licensing should be independent of CPU so that in future it will not have cost impact for increase in CPU.		
47	Solution Should also should have capability to integrate with centralized monitoring tools for multiple location backup server management and alerting either with needed plugins or REST API		
48	GUI,Replication and Integration		
	Solution should have Web-based GUI for remote management & monitoring purpose. Also solution should have inbuilt centralized monitoring functionality either from HeadOffice or Cloud without addtl cost		
49	Centralised management must have role bases access and if needed enable no resource location for remote support		
50	Solution Should have a remote management port to manage the system in case system is down.		
51	Solution support data integrity check inbuilt to validate any data corruptions		
52	Solution Should be able to generate Email alerts in case of any information, Warning & Error.		
53	Solution Should be able to send system reports and logs via emails.		
54	Solution must enable flexible licensing where licensed capacity can be migrated between instances or to a new instance where required		
55	Solution must support any and all public cloud providers without limitation to AWS and Azure		



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56	solution must be scalable to operate in remote batch locations and provide built-in resiliency to overcome unstable LAN/WAN connectivity that may impact data transfer		
57	solution must provide an accessible and user configurable Operating System that allows the user to patch critical security vulnerabilities at their discretion		
58	system should enable remote troubleshooting whereby the supporting vendor can remotely, on time limited invitation, access and diagnose support cases without interaction or required presence of the end-user		
59	Reporting Features:		
60	a) Backup Software shall offer Extensive reporting capabilities to monitor the health of Backups. Shall support HTML, TEXT, PDF and CSV outputs. It shall support scheduled automated generation of the report on a daily basis.		
61	b) The backup software must provide near real time monitoring and reporting of the backup environment. It should provide a graphical representation and monitoring of trends and current status.		
62	c) Software shall support event notification to notify backup administrator about events like Job Failed or Job aborted etc.		

Storage Devices: Qty. 01No. (Annexure –C)

S No.	Item	Specification	Compliance (Yes/No)	Remarks
1	Controller	Dual active controller with automated I/O path failover		
2	Front end Ports	Should have minimum of 4x10Gb ethernet/16GB FC Host ports across dual controller.		
3	Back end Ports	The storage system should have minimum 2x12Gbps backend ports per controller.		
4	Management Software	Must include Storage Manager software, to centrally manage all Storage subsystems, Multi-path (Load Balancing & Failover), LUN masking and should Support RAID migration on to the vacant space available		
5	O/S Support	Apple Mac OS, CentOSLinux, IBMAIX, Microsoft Windows Server Novell SUSE Linux Enterprise Server, Oracle Enterprise Linux Oracle Solaris, Red Hat Enterprise Linux ,Ubuntu Linux, VMware ESX		



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6	Scalability	It Should be scalable upto 180 no of HDD in same storage or expendable upto 200TB usable capacity.		
7	Capacity	Offered SAN Array shall be configured for 5TB usable using 10K RPM SAS HDD on RAID 5 . Hot spare drive will be extra. Hot Spare should be one per 30 Drives.		
8	Raid Controllers	Dual, both Active, minimum 16 GB cache across the two Controllers (8 GB per Controller).		
9	Protocol Support	FC, iSCSI		
10	Cache Safety	Cache should be mirrored and battery-backed-up /disk-destaged to provide protection of data for 72 hours or more.		
11	Drive Interface	The storage should have 12Gbps Drive interface		
12	Supported Drives, Mixed Drives	Should support SSD, SAS, NL-SAS, 12 GBPs Drives in same enclosure.		
13	RAID levels	The storage should support 0, 1, 5, 6 and 10 RAID levels.		
14	Fans and power Supplies	Redundant, hot-swappable power supplies and fans		
15	Rack Support	Suitable for industry-standard Racks and PDUs		
16	Data Services	Should include data Snapshot, Thin provisioning, Volume cloning or equivalent features for the offered capacity of the storage array. The proposed system should also include storage based replication software		
17	Alerts	Automated alerts for Improving service response times.		
18	Others	All required cable and connectors to be supplied		
19	Certification	OEM should be in leader of Gartner Magic Quadrant from last 3 years.		

Desktop Computer: Qty. 02 Nos.,

(Annexure –D)

S. No	Technical Specification	Compliance (Yes / No)	Remarks
1	Processor - Intel i5-9500 or latest / Q370 Chipset/ Memory - 8 GB RAM (Expandable up to 64GB RAM) / HDD - 1 TB SATA HDD / Operating System - Windows 10 Professional / Monitor - 19.5" Display / Optical Drive - DVD - RW/ Warranty - 3 Years Onsite Warranty		



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Oracle Database Licenses: Qty. 02 Nos. (Annexure – E)

S. No	Technical Specification	Compliance (Yes / No)	Remarks
1	Oracle Database Standard Edition 2 - Processor Perpetual with 1 year Software Update & Product support.		

Oracle Weblogic Licenses: Qty. 02 Nos. (Annexure – F)

S. No	Technical Specification	Compliance (Yes / No)	Remarks
1	Oracle WebLogic Suite - Processor Perpetual with 1 year Software Update & Product support.		

Re-engineering of the old system and develop / migrate in Oracle (As per SOW) : Qty. 01 Nos.

S. No	Technical Specification	Compliance (Yes / No)	Remarks
1	A. Re-engineering of the old system and develop / migrate in Oracle. B. Trainings • Oracle Database Administration • PHP application connectivity • Oracle Apps and Cobol Development environment setup		

2.0 Training

For all the systems included in the scope of work, necessary training for operation, maintenance and troubleshooting to be provided at HEC.



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Annexure-G

1. Existing System

- a) The existing F&A system of HEC runs on Oracle 8i as backend and COBOL 4.0.with Front end FORMs 6.
- b) The proposed F&A system will have to be developed in-line with the new modules and have to be integrated with them wherever required.
- c) The process of development will involve creation of a separate development environment which will be a replica of the proposed system. All development activities will be performed on this new environment. Only after complete testing and user acceptance test is done, this system will be published to the Production environment.

2. Vendor responsibility

- a. Identify changes needed in existing database structure.
- b. Creation of new database structures and design wherever required.
- c. Get the design changes in database and application approved from HEC representatives.
- d. Create a parallel environment for development and testing.
- e. Create the change scripts to accommodate the new requirements at the database level.
- f. Make corresponding design changes to accommodate the new requirements.
- g. Develop all the codes required to incorporate the use cases.
- h. Deploy the up-graded application to the new test environment for functional testing.
- i. Final deployment of the application in production environment.



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Annexure-H

Specification of existing server at HEC

Application server / Database Server

Model: SUN Fire V440

Processor: 2xUltraSPARC® IIIi @1.593 GHz

RAM: 4 GB

OS: SUN Solaris 9



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ANNEXURE-I

Tender No. HMB/PUR/CP/20/220077/OM-6033

dtd: 02.06.2020

DECLARATION FOR SITE VISIT

(To be filled up by the Tenderer)

We, hereby, declare that we have visited the site for the proposed Installation & Commissioning of F&A system, HEC, Ranchi, Jharkhand, INDIA to understand the site conditions and acquainted ourselves with the extent of total works involved for proposed job. We have also acquainted ourselves with the existing database and application server and the overall requirements of the proposed system.

Signature of HEC representative

Signature of the Tenderer

Name:

Name:

Designation:

Designation:

(Seal)

Seal of company



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Annexure-J

Tender No. HMB/PUR/CP/20/220077/OM-6033

dtd: 02.06.2020

PART – I (Techno - Commercial Bid)

No.

Date:

Sl.No.	Description		Remark
1	Weather scope of work , and all other terms and condition mentioned is NIT acceptable or not	Yes / No	
2	Whether SSI/NSIC/MSME (For exemption of EMD and Tender Fee only), Also mention UAN No.....	Yes / No	(If Yes, enclose certificate)
3	Duly filled all annexure	Yes / No	
4	Whether EMD deposited (As per Terms & Condition)	Yes / No	
5	Whether Tender Fee deposited (As per Terms & Condition)	Yes / No	
6	F.O.R. HMBP (As per Terms & Condition)	Yes / No	
7	Payment Term(As per Terms & Condition)	Yes / No	
8	Delivery Term(As per Terms & Condition)	Yes / No	
9	Validity(As per Terms & Condition)	Yes / No	
10	L.D. Clause(As per Terms & Condition)	Yes / No	
11	Guarantee Clause(As per Terms & Condition)	Yes / No	
12	PBG(As per Terms & Condition)	Yes / No	
13	Security Deposit(As per Terms & Condition)	Yes / No	
14	GST	Yes / No	GST rate.....
15	Inspection(As per Terms & Condition)	Yes / No	
16	Contact person Name: Email: Contact number:		

Note : In case of non-submission / submission of incomplete documents in terms of proofs duly notarized/self attested as per above details, your offer may not be considered for the said Enquiry.

(Signature of Tenderer)

With official Seal

Central Purchase Department, Ground Floor Administrative Building, HMBP, HEC, Ranchi
834004, Jharkhand, Phone: 0651 2400935,2400987 Fax: 0651 2401166, email:
sunilksingh@hecltd.com/ anjanibhagat@hecltd.com/ alok.singh@hecltd.com



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Annexure- K
PART-II (Price Bid)

The tenderer shall upload the digitally signed Schedule of price bid in the form of BOQ.xls

Bidders may please note, the schedule of quantities is attached in the portal. The same (BOQ) shall be downloaded and be filled in the editable (un protected) cells only and they should necessarily submit their financial bids in the format provided after entering the financial quotes, name of the bidder etc.

Sl. No.	Description	UoM	Qty	Rate
1	Server with 3 years OEM Premium Support (as per Annexure – A)	No.	1	
2	Backup Software 3 years OEM Support (as per Annexure – B)	No.	1	
3	Storage Devices 3 years OEM Support (as per Annexure – C)	No.	1	
4	Desktop Computer 3 years OEM Support (as per Annexure – D)	No.	2	
5	Addl. Desktop RAM 8GB	No.	1	
6	Oracle Database 12C Standard Edition 2 - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – E)	No.	2	
7	Oracle WebLogic Suite - Processor Perpetual with 1 year Software Update & Product support. (as per Annexure – F)	No.	2	
8	Installation Cost			
9	Re-engineering of the old system and develop / migrate in Oracle & training	No.	1	
10	3 yrs premium support for Server	No.	1	



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Annexure-L

Format for
BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(to be issued by any Nationalized bank preferably State bank of India negotiable at their counters in Ranchi)

NO.

Dated:

TO
ANCILLARY & CONTRACT DEPARTMENT
MATERIAL MANAGEMENT DIVISION
HEAVY MACHINE BUILDING PLANT
HEAVY ENGINEERING CORPORATION LTD.
RANCHI-834004, JHARKHAND
INDIA

Dear Sirs,

In consideration of your agreeing to accept the Earnest money deposit of Rs.-----
------(Rs-----) furnishable to you by M/s-----
------(Hereinafter Referred to As Contractor) In terms of the Enquiry No. -----
-----Dtd. ----- for Supply of -----
----- (Hereinafter Referred to as the Contract) in the form of a Bank
Guarantee in the Manner hereinafter contained we -----
-----, having registered office at -----
--do hereby covenant and agree with you as follows.

1. We hereby undertake to indemnify you up to a sum of Rs. ----- (Rs.
----- only) against any loss or damage caused to or
suffered by you or that may be caused to or suffered by you by reason of any
breach or breaches on the part of the contractor of any of the terms and
conditions contained in the said contract and in the event the Contractor shall
make any default or defaults in carrying out any of the works under the said



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contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand and without any protest or demur pay to you such sum or sums not exceeding in total the said sum of Rs.-----
(Rs. -----*amount*-----only) as may be claimed by you as your losses and/or damages, costs, charges or expenses by reason of such default or defaults on the part of the contractor.

2. Notwithstanding anything to the contrary contained in this guarantee your decision as to whether the contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims or damages or losses suffered by you but will pay the amount demanded by you under this guarantee forthwith on your demand without any protest or demur.

3. This guarantee shall continue and hold good until it is released by you on the application by the contractor after expiry of the related warranty period of the said contract and after the contractor have discharged all their obligations under the said contract and produced a certificate of due completion of the work under the said contract and submitted a "NO Demand Certificate" provided always that this guarantee shall in no event remain in force after the date of-----
without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.

4. We-----, further undertake to extend the validity of this beyond the period prescribed in clause 3 or as extended from time to time for such further period as may be required in writing before the Expiry of this and upon such extension(s), all terms and conditions of this shall remain in full force till the expiry of this extended period(s).

5. You will have the fullest liberty without affecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the contractor or to postpone for any time or from time to time any of your rights or powers against the contractor and either to enforce or forbear to enforce any of the terms and conditions of the said contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the contractor or any other forbearance, act or omission on your part or any indulgence by you to the contractor or by any other variation or modification



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of the said contract or any other act, matter or things whatsoever, which, under the law relating to sureties, would but for the provisions hereof, have the effect of so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of Rs. ----- (Rs.-----) as aforesaid or extend the period of the guarantee beyond the said Date of -----unless expressly agreed to by us in writing in terms of clause 4 hereof.

6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the contractor or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be of the contractor.

7. In order to give full effect to the guarantee herein contained, you shall be entitled to act as if we are your principal debtors in respect of all your claims against the contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of suretyship and other rights, if any, which are in any ways inconsistent with any of the provisions of this guarantee.

8. Subject to the maximum limit of our liability as aforesaid this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.

9. Any notice by way of demand or otherwise hereunder shall be in writing and may be sent by special Courier or Telefax to us or our Local Address as aforesaid.

10. This guarantee and the powers & provisions herein contained are in addition to and not by way of limitation or substitution for any other guarantee or guarantees heretofore given to you by us whether jointly with others or alone and now existing uncanceled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.

11. This guarantee shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in your constitution or by any Amalgamation or absorption thereof or therewith but will ensure for the benefit or and be available to and enforceable by the absorbing or amalgamated company or concern.

12. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.

13. We further agree and undertake to pay you the amount demanded by you in writing irrespective of any dispute or controversy between you and the contractor or any reference to arbitration of the said dispute/controversy pending or a civil suit filed by the contract or in respect of the dispute or controversy.



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14. Notwithstanding anything contained herein above our liability under this guarantee is restricted to Rs.----- (Rs. ----- --only) and this guarantee shall remain in force until -----unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry of this guarantee . i.e. On or before-----all your rights under this guarantee shall be forfeited and we shall be deemed to have released and discharged from all liabilities there under, irrespective of whether or not the original guarantee is returned to us.

15. We have power to issue this guarantee in your favour under the memorandum and articles of association of the bank and the undersigned has full power to execute this guarantee under the power of Attorney Granted to them by the Bank.

FOR AND ON BEHALF OF



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Annexure-M

**Format for
BANK GUARANTEE FOR SECURITY DEPOSIT**

(to be issued by any Nationalized bank preferably State bank of India
negotiable at their counters in Ranchi)

TO,

M/S HEAVY ENGINEERING CORPORATION LIMITED
PLANT PLAZA ROAD,
DHURWA,
RANCHI – 4

Dear sir,

In consideration of your agreeing to accept the security deposit of rs.
.....'amount'..... furnishable to you by m/s
.....'firms name'..... (hereinafter referred to as
contractor) in terms of the contract no.'hec's purchase order
no'.....for supply of 'details of
items'.....(hereinafter referred to as the 'contract') in the form
of a bank guarantee in the manner hereinafter contained we.....'bank
details'..... branch, having registered office at 'place'..... do
hereby covenant and agree with you as follows:

1. We hereby undertake to indemnify you up to a sum of rs.
.....'amount'.....(rupees 'amount in words'.....)
against any loss or damage caused to or suffered by you or that
may caused to or suffered by you by reason of any breach or



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breaches on the part of the contractor of any of the terms and conditions contained in the said contract and in the event the contractor shall make any default or defaults in carrying out any of the works under the said contract or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand and without any protest or demur pay to you such sum or sums not exceeding in total the said sum of rs.'amount'.....(rupees 'amount in words'.....) as may be claimed by you as your losses and / or damages, costs, charges or expenses by reason of such default or defaults on the part of the contractor.

2. Notwithstanding anything to the contrary contained in this guarantee your decision as to whether the contractor has made any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims or damages or losses suffered by you but will pay the amount demanded by you under this guarantee forthwith on your demand without any protest or demur.
3. This guarantee shall continue and hold good until it is released by you on the application by the contractor after expiry of the related warranty period of the said contract and after the contractor have discharged all their obligations under the said contract and produced a certificate of due completion of the work under the said contract and submitted a 'no demand certificate' provided always that this guarantee shall in no event remain in force after the date of ...'date'..... without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of six months from the said date which will be enforceable



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against us notwithstanding that the same is or are enforced after the said date.

4. We 'bank name', further undertake to extend the validity of this beyond the period prescribed in clause 3 or as extended from time to time, for such further period as may be required in writing before the expiry of this and upon such extension(s), all terms and conditions of this shall remain in full force till the expiry of this extended period(s).
5. You will have the fullest liberty without affecting this guarantee from time to time to vary any of the terms and conditions of the said contract or extend the time of performance of the contractor or to postpone for any time or from time to time any of your rights or powers against the contractor and either to enforce or forebear to enforce any of the terms and conditions of the said contract and we shall not be released from our liability under this guarantee by the exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the contractor or any other forbearance, act or omission on your part or any indulgence by you to the contractor or by any other variation or modification of the said contract or any other act, matter or things whatsoever, which, under the law relating to sureties, would but for the provisions hereof, have the effect or so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of rs. 'amount' (rupees 'amount in words') as aforesaid or extend the period of the guarantee beyond the said date of ... 'date' unless expressly agreed to by us in writing in terms of clause 4 hereof.
6. This guarantee shall not in any way be affected by your taking or varying or giving up any securities from the contractor or any other person, firm or company on its behalf or by the winding up,



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dissolution, insolvency or death as the case may be of the contractor.

7. In order to give full effect to the guarantee herein contained, you shall be entitled to act as if we are your principal debtors in respect of all your claims against the contractor hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of suretyship and other rights, if any, which are in any way inconsistent with any of the provisions of this guarantee.
8. Subject to the maximum limit of our liability as aforesaid this guarantee will cover all your claim or claims against the contractor from time to time arising out of or in relation to the said contract and in respect of which your claim in writing is lodged on us before expiry of six months from the date of expiry of this guarantee.
9. Any notice by way of demand or otherwise hereunder shall be in writing and may be sent by special courier, speed post or telefax to us at our local address as aforesaid.
10. This guarantee and the powers & provisions herein contained are in addition to and not by way of limitation of or substitution for any other guarantee or guarantees heretofore given to you by us whether jointly with others or alone and now existing uncanceled and that this guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.
11. This guarantee shall not be affected by any change in the constitution of the contractor or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure for the benefit of and be available to and enforceable by the absorbing or amalgamated company or concern.
12. This guarantee is irrevocable during the period of its currency and shall not be revoked without your previous consent in writing.



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13. We further agree and undertake to pay you the amount demanded by you in writing irrespective of any dispute or controversy between you and the contractor or any reference to arbitration of the said dispute / controversy pending or a civil suit filed by the contractor in respect of the dispute or controversy.
14. Notwithstanding anything contained herein above our liability under this guarantee is restricted to rs.'amount'.....(rupees 'amount in words'.....) and this gurantee shall remain in force untill 'date'.... unless a written claim is lodged on us for payment under this guarantee within six months from the date of expiry of this guarantee i.e. on or before ... 'date' + '6 month'..... all your rights under this guarantee shall be forfeited and we shall be deemed to have released and discharged from all liabilities thereunder. irrespective of whether or not the original guarantee is returned to us.
15. We have power to issue this guarantee in your favour under the memorandum and articles of association of the bank and the undersigned has full power to execute this guarantee under the power of attorney granted to them by the bank.

FOR AND ON BEHALF
OF
'name of bank'

'signature with seal'



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Annexure -N

FORMAT OF PERFORMANCE BANK GURANTEE

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT & TO BE ISSUED BY ANY NATIONALISED /SCHEDULED BANK AUTHORISED BY RBI TO ISSUE A BANK GUARANTEE)

Name of Equipment: ----- Guarantee NO-----

Purchase Order No.:----- dated: ----- Date:-----
--

Validity -----

Claim period-----

To:

M/s Heavy Engineering Corporation Ltd.
Heavy Machine Building Plant
Ranchi-834004 Jharkhand

In consideration of your having placed an order bearing Purchase Order No.----
-----dated:----- with-----

------(hereinafter referred to as Supplier) for the supply of-----

------(hereinafter referred to as the-----

We ----- do hereby agree with you irrevocably that, should the machinery and equipment fail to give the guarantee performance and achieve the efficiency as stipulated in the Purchase Order within the period of guarantee or should the material and/or workmanship of the machinery and equipment supplied or any part thereof be found defective and/or fully, as per the purchase order, we undertake to pay without any demur merely on demand a sum of Rs. -----
-----being 20% of the value of



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Rs. -----for the supply of -----

Your decision whether the supplier have made any such defaults and the amount to which you are entitled by reasons thereof shall be conclusive and bind on us, subject to maximum of Rs. -----
----- as aforesaid.

We-----further guarantee that the machinery and equipment manufactured and supplied by the supplier shall be new, of good quality materials and of the first class workmanship as specified in the Purchase order and should the machinery and equipment supplied or any part thereof be found defective and that should the defect as pointed out in inspection note be not made good and/or in case of failure within guarantee period same shall be replaced on free of cost or repaired on free of cost to the entire satisfaction of Heavy Engineering Corporation Ltd.

We -----agree that the guarantee herein contained shall remain in full force and effect till the machinery and equipment give the desired performance and it shall continue to be enforceable till your dues have been fully paid and claims satisfied or discharged subject to a period not later than----- . In the event of any extension granted for commissioning/dispatch suitable extension shall be given on your request.

We-----, further agree that any neglect, omission or forbearance or indulgence in enforcing any claim as per the terms and conditions of your purchase order or performance guarantee or any of them or any extension of the time granted for the performance or payment of penalty under the guarantee or any dispute between the supplier and yourselves as regard performance of machinery and equipment supplied or issued related to your Purchase order, shall not effect in any way our liability under this guarantee until the full payment, but in any case, shall not extend beyond-----.

This guarantee is in addition and not substitution for guarantee given to you by the seller or by their bankers on their behalf.

We----- lastly undertake not to revoke this bank guarantee during its currency except with the previous consent of the corporation in writing.

Notwithstanding anything to contrary stated above, our liability under this guarantee will be restricted to Rs.----- and shall



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remain in force up to -----, unless a demand or claim under this
guarantee is made from the date i.e. on or before-----all
your rights under the said guarantee shall be forfeited and we shall be
released and discharged from all liabilities thereunder.

Dated at ----- day of -----

Seal of the Bank



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Annexure-O

Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- (i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrollment" on the CPP Portal which is free of charge.
- (ii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (iii) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- (iv) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- (v) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- (vi) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.



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SEARCHING FOR TENDER DOCUMENTS

- i) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- ii) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- iii) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

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



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

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

- i) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- ii) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- iii) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- iv) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by as specified in the tender documents. The details of the DD / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- v) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document,



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then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

- vi) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- vii) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- viii) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- ix) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- x) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.



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ASSISTANCE TO BIDDERS

- i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 **CPP Portal** Helpdesk.

Note: For any query related to registration and processing on the Portal please visit FAQ available at

<https://etenders.gov.in/eprocure/app?page=FAQFrontEnd&service=page>

You may call the Helpdesk. The 24 x 7 Help Desk Numbers are
0120-4200462, 0120-4001002, 0120-4001005, 0120-6277787

E-Mail: support-eproc@nic.in

Or

You may call to our service provider, Mr.Kushal (7903884318)

E-Mail: kushalniccl@gmail.com