

Corrigendum I

माझगांव डॉक शिपबिल्डर्स लिमिटेड/ MAZAGON DOCK SHIPBUILDERS LIMITED

(भारत सरकार का उपक्रम)/ A Government of India Undertaking

डॉकयार्ड रोड, माझगांव, मुंबई 400 010/ Dockyard Road, Mazagon, Mumbai 400 010.

Certified – ISO 9001/EN ISO 9001 for Shipbuilding Division

Tel. No. 2376 2149 / 2240 Fax No (022) 23721551

वेब निविदा सूचना (२ भागोमे) / WEB TENDER ENQUIRY (Two Bid System)

ई पोर्टल | E-Procurement Portal :- <https://eprocuremdl.nic.in>

वेबसाईट | Website : <https://mazagondock.in>

विभाग/DEPARTMENT: सीआईटी/CIT

अनुभाग/SECTION: सीआईटी-वाणिज्य/CIT-COMMERCIAL

ई-निविदा|E-TENDER NO: 3000000408

बयाना जमा | EMD: Rs. 15,00,000/-

Amendment : No EMD Required.

Bid /EMD Bond to be submitted along with the bid as per the format attached.

निविदा दिनांक TENDER DATE	04.01.2021
निविदा बंद होनेका समय TENDER CLOSING DATE & TIME	27.01.2021 at 14.00 Hrs.
संशोधित निविदा बंद होनेका समय : Amended TENDER CLOSING DATE & TIME	11.02.2021 at 14.00 Hrs
निविदा खुलनेका समय TENDER OPENING DATE & TIME	28.01.2021 at 11:00 Hrs.
संशोधित निविदा खुलनेका समय Amended TENDER OPENING DATE & TIME	12.02.2021 at 11:00 Hrs
1. कार्य का विवरण -Description of Work / Supplies:	
SUPPLY, INSTALLTION, IMPLEMENTATION, CONFIGURATION AND COMMISSIONING OF LINUX BASED VIRTUAL DESKTOP INFRASTRUCTURE (VDI) FOR INTERNET LAN.	

Corrigendum I

1. Amended TENDER CLOSING DATE & TIME : 11.02.2021 at 14.00 Hrs.
2. Amended TENDER OPENING DATE & TIME: 12.02.2021 at 11:00 Hrs.

3. Amendment in tender clauses.

TENDER PARA	ORIGINAL TENDER CLAUSE	AMENDMENT
4	<p>EARNEST MONEY DEPOSIT (EMD) Indigenous bidders shall furnish EMD of Rs. 15,00,000/- (Rs. Fifteen Lakhs only) in the form of Direct Electronic transfer to MDL's bank account or in the form of Bank Guarantee drawn in favour of MAZAGON DOCK SHIPBUILDERS LIMITED or bid bond/SWIFT Message of equivalent foreign currency for foreign bidders shall be forwarded to GM (CIT) / HOD (CIT) in sealed envelope super scribing Tender Enquiry No. and Due date, so as to reach us within 7 MDL working days from the tender closing date.</p>	<p>BID / EMD Bond to be submitted as per the format attached along the Part I (Technical Bid) instead of EMD Rs. 15,00,000/-</p> <p>Non submission of EMD Bond along with the Part I (Technical Bid), the bid will be rejected as per Bid Rejection Criteria.</p>
15	<p>SECURITY DEPOSIT. 15.1 After placement of Order. The successful bidder shall have to submit Security Deposit for an amount of <u>5%</u> of the total value of Order excluding taxes, duties etc, in the form of NEFT / DD / Pay Order / Bank Guarantee on Rs. 500 stamp paper from the list of banks approved by SBI / Canara bank published on MDL website within 25 days from the date of Contract valid upto entire period of contract plus additional 4 weeks (for claim period). No interest will be paid on Security Deposit.</p>	<p>SECURITY DEPOSIT. 15.1 After placement of Order. The successful bidder shall have to submit Security Deposit for an amount of 3% of the total value of Order excluding taxes, duties etc, in the form of NEFT / DD / Pay Order / Bank Guarantee on Rs. 500 stamp paper from the list of banks approved by SBI / Canara bank published on MDL website within 25 days from the date of Contract valid upto entire period of contract plus additional 4 weeks (for claim period). No interest will be paid on Security Deposit.</p>
16	<p>PERFORMANCE BANK GUARANTEE (PBG) The successful bidder shall submit the performance bank guarantee (PBG) for the <u>5%</u> of the total order value of supply excluding GST in the form of DD /Pay Order/ Bank Guarantee on Rs. 500 stamp paper in favour of Mazagon Dock Shipbuilders Ltd, Mumbai valid up to end of contract period plus additional 4 weeks.(for claim Period) from the date of satisfactory commissioning/sign off by MDL</p>	<p>PERFORMANCE BANK GUARANTEE (PBG) The successful bidder shall submit the performance bank guarantee (PBG) for the 3% of the total order value of supply excluding GST in the form of DD /Pay Order/ Bank Guarantee on Rs. 500 stamp paper in favour of Mazagon Dock Shipbuilders Ltd, Mumbai valid up to end of contract period plus additional 4 weeks.(for claim Period) from the date of satisfactory commissioning/sign off by MDL</p>
29	<p>FREAK LOW RATES: In case after opening of price bid of technically cleared firms, it is noted that L-1 firm has quoted very low rates and indicates to withdraw from the tender then EMD shall be forfeited and firm may be given tender holiday including intimation to other PSUs. If the rates quoted are less than MDL estimates by 40% or so and if the difference in rate between L1 and L2 is 30% or more then the firm will have to give additional</p>	<p>NOT APPLICABLE</p>

	BG of 20% of the PO value as additional security. Additional BG charges shall be reimbursed by MDL at actual (against proof of payment) subject to maximum of @ 0.125% of BG value per quarter (@0.5% p.a) as per required validity period	
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4. Amendment in Tender Pre- Qualification, Item Specifications and Scope of Work as below

Tender – Pre-Qualification Criteria clause nos.	Tender Specification	Corrigendum – 1
3.2.x		Added – The bidder should comply to Department of Expenditure (Ministry of Finance) F.No. 6/18/2019-PPD of 23.07.2020 with subject “Restriction under Rule 144 (xi) of the General Financial Rules (GFRs)” and subsequent amendment clarifications there to, having guidelines regarding procurement from bidders from a country / countries sharing border with India. The bidder shall submit certificate of compliance as per prescribed format at Annexure-XVI on its letter head.
Tender – SOW clause nos.	Tender Specification	Corrigendum – 1
5.1.13	Bureau of Indian Standard (BIS) complaint, ACPI 6.1 Compliant, PCIe 3.0 Compliant, PXE Support, Energy Star, ASHRAE A3/A4, UEFI 2.6, SMBIOS, Redfish API, SNMP v3, TLS 1.2, DMTF Systems Management Architecture	Changed - Bureau of Indian Standard (BIS) complaint, ACPI 6.1 Compliant, PCIe 3.0 Compliant, PXE Support, Energy Star, ASHRAE A3/A4, UEFI, SMBIOS, Redfish API, SNMP v3, TLS 1.2, DMTF Systems Management Architecture
5.1.21.1	For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable	Changed - For firmware security, system should support remote management chip creating a fingerprint in the silicon / creating an authentication , preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable
5.2.c	Disk used should be between 3TB - 4 TB self-encrypting disks	Changed - Disk used should be between 3TB - 4 TB self-encrypting disks or controller level encryption without losing performance
5.2 g		Added – Min 30 TB usable storage with NL SAS with 4 TB disks, 7.2 K RPM after RAID 6 with 2 hot spare

5.2.1.1	Offered Storage array shall be a true converge / unified storage with a single Microcode / operating system instead of running different Microcode / Operating system, for File, block and object services respectively.	Changed - Offered Storage array shall be a true converge / unified storage with a single Microcode / operating system instead of running different Microcode / Operating system, for File, block services respectively.
5.2.4.4	Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache. Minimum of 1TB Flash cache shall be supported.	Changed - Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache. Minimum of 800GB Flash cache shall be supported.
5.2.6.a	Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion , while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.	Changed - Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.
5.2.6.b	Offered Storage shall be supplied with at-least Dual Active/Active controllers and shall be scalable to at-least Quad Active/Active Controllers. Vendor shall ensure that all controllers, with and without scalability, shall not use any loosely connected architecture like through SAN Switches, Ethernet Switches, InfiniBand switches or federation technologies for clustering of Controllers.	Changed - Offered Storage shall be supplied with at-least Dual Active/Active controllers and shall be scalable to at-least Quad Controllers.
5.2.6.c	A single volume (LUN) shall be striped across at-least 2 controllers automatically and shall be visible from all the controllers. The same should hold true when storage is scaled to Quad Controllers wherein a single volume (LUN) shall be striped across all the Quad controller automatically and shall be visible from all the Quad controllers.	Optional - A single volume (LUN) shall be striped across at-least 2 controllers automatically and shall be visible from all the controllers. The same should hold true when storage is scaled to Quad Controllers wherein a single volume (LUN) shall be striped across all the Quad controller automatically and shall be visible from all the Quad controllers.
5.2.8	Offered Storage Array shall support dual-ported 300 / 600 / 1200 /1800GB hot-pluggable Enterprise SAS hard drives, Minimum of 400GB SSD Drives along with near line SAS 2TB / 4TB / 6TB / 8TB drives.	Changed - Offered Storage Array shall support multi capacity drive for SAS, NL SAS, SSD drives.
5.2.12	Offered Storage array shall support all well-known protocols like FC, ISCSI, FCOE , SMB 3.0, NFS V4, FTP/FTPS etc.	Changed - Offered Storage array shall support all well-known protocols like FC, ISCSI, SMB 3.0, NFS V4, FTP/FTPS etc.

5.2.29.3	Should deliver 32 Gbit/Sec Non-blocking architectures with 1:1 performance for up to 24 ports in a energy-efficient fashion	Changed - Should deliver 16 Gbit/Sec Non-blocking architectures with 1:1 performance for up to 24 ports in a energy-efficient fashion
5.2.29.4	Should protect existing device investments with autosensing 8, 16, and 32 Gbit/sec capabilities.	Changed - Should protect existing device investments with autosensing 8, 16 Gbit/sec capabilities.
5.2.29.5	The switch shall support different port types such as F_Port, E_Port, M_Port, D_Port.	Changed - The switch shall support different port types such as F_Port, E_Port, M_Port/ SD_Port , D_Port. D_Port is optional.
5.2.29.7	Offered SAN Switch shall support less than 900 nanosecond for port to port latency with no contention.	Changed - Offered SAN Switch shall support less than 3.04 µsec for port to port latency with no contention.
5.2.29.19		Added – All the features asked above must have necessary licenses on SAN switches from day one Licenses must be perpetual.
5.2.29.11	Offered SAN switches shall be highly efficient in power consumption. Bidder shall ensure that each offered SAN switch shall consume less than 80 Watt of power.	Changed - Offered SAN switches shall be highly efficient in power consumption.
5.2.15.4	It shall be possible to change the quality of service Response time (In both milliseconds as well as Sub milliseconds), IOPS, bandwidth specification on basis of real time.	Removed
5.2.24.2	The Storage array shall also support three ways (3 Data Centers) replication to ensure zero RPO in native fashion without using any additional replication appliance.	Changed - The Storage array shall also support three ways (3 Data Centers) replication to ensure zero RPO in native / using any additional replication appliance.
5.2.27	Investment Protection Offered storage array shall support data in place upgrade for higher models within the same offered series. Data in place shall also allow addition of more controller in the given array without any federation technology.	Removed
5.3.c	Disk used should be between 3TB - 4 TB self-encrypting disks	Changed - Disk used should be between 3TB - 4 TB self-encrypting disks. If the normal disk are provided and encryption is handled by the controller then additional 6 CPU cores per controller to be provided to balance the performance.

5.3.6	Offered tape library shall have flexibility to configure each offered drive into a separate partition. Offered tape library shall have support for 21 partition when fully populated.	Changed - Offered tape library shall have flexibility to configure each offered drive into a separate partition. Offered tape library shall have support for 10 partition when fully populated.
5.5.1	The proposed backup solution should be available on various OS platforms such as Windows, Linux and UNIX platforms	Changed - The proposed backup solution should support to run on both Windows & Linux OS.
5.5.9	The proposed backup solution has in-built media management and supports cross platform device and media sharing in SAN environment. It provides a centralized scratched pool thus ensuring backups never fail for media. The backup should also support simultaneous backup of data from the source to Disk device and to Tape Media	Changed - The proposed backup solution has in-built media management and supports cross platform device and media sharing in SAN environment. It provides a centralized scratched pool / Auto media ensuring backups never fail for media. The backup should also support simultaneous backup of data from the source to Disk device and to Tape Media
5.5.16	The backup software should be capable to supporting 99,999 backup sessions in day	Changed - The backup software should be capable to supporting 99,999 backup sessions in day or should support the backup of proposed VDI infra in 8 Hours of backup window
5.5.18	The backup software should be able to support maximum of 40 Million files per directory	Changed - The backup software should be able to support maximum of 40 Million files per directory or should support the backup of proposed VDI infra in 8 Hours of backup window
5.6	Optical Devices: Internal, DVD +/- RW	Changed - Optical Devices: Internal/ external , DVD +/- RW
5.7.22	The Router should support FTP, TFTP, and SFTP support	Changed - The Router should support FTP, TFTP, and SFTP/ STP support
5.7.38	The Router should support sFlow	Changed - The Router should support sFlow/ Netflow
5.7.57	The Router should support Application layer protocol inspection, Transport layer protocol inspection, ICMP error message check, and TCP SYN check. Support more L4 and L7 protocols like TCP, UDP, UDP-Lite, ICMPv4/ICMPv6, SCTP, DCCP, RAWIP, HTTP, FTP, SMTP, DNS, SIP, H.323, SSCP.	Changed - The Router should support Application layer protocol inspection, Transport layer protocol inspection, ICMP error message check, and TCP SYN check. Support more L4 and L7 protocols like TCP, UDP, UDP-Lite, ICMPv4/ICMPv6, SCTP, DCCP/ equivalent , RAWIP/ equivalent , HTTP, FTP, SMTP, DNS, SIP, H.323, SSCP.
5.8.8	The switch shall have switching throughput of atleast 9002024 million pps	Changed - The switch shall have switching throughput of atleast 900 million pps

5.8.9	MAC Address table size of 288K entries	Changed - MAC Address table size of 256K entries
5.8.10	Switch should at least support 324K 128K routing entries IPv4, 162K 64K entries (IPv6)	Changed - Switch should at least support 128K routing entries IPv4; 64K entries (IPv6)
5.8.14	The switch should support min six switches that can be combined/stacked to deliver unmatched scalability with single IP Management	Changed - The switch should support min two switches that can be combined/stacked to deliver unmatched scalability with single IP Management/central Management
5.8.32	The Switch should support Hitless patch upgrades	Changed - The Switch should support Hitless patch upgrades or equivalent
5.8.34	The Switch should support Graceful restart for OSPF, BGP, and IS-IS	Changed - The Switch should support Graceful restart for OSPF, BGP, and IS-IS. IS-IS is optional.
5.8.46	The Switch should support for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that can be used for fast fault detection and recovery	Changed - The Switch should support for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that can be used for fast fault detection and recovery or equivalent
5.8.50	The Switch should support static routes, RIP and RIPv2, OSPF, BGP, and IS-IS	Changed - The Switch should support static routes, RIP and RIPv2, OSPF, BGP, and IS-IS. RIP, RIPv2, IS-IS is optional.
5.8.52	Intermediate system to intermediate system (IS-IS)	Changed - Intermediate system to intermediate system (IS-IS). IS-IS is optional.
5.8.55	The Switch should support Routing Information Protocol next generation (RIPng) extends RIPv2 to support IPv6 addressing	Changed - The Switch should support Routing Information Protocol next generation (RIPng) extends RIPv2 to support IPv6 addressing. RIPv2 is optional.
5.8.56	The Switch should support OSPF support for IPv6, BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing, IS-IS for IPv6	Changed - The Switch should support OSPF support for IPv6, BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing, IS-IS for IPv6. IS-IS is optional.
5.8.57	The Switch should allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet; supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels/ GRE Tunnels	Changed - The Switch should allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet.

5.8.59	The Switch should enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP,	Changed - The Switch should enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP. RIP, IS-IS is optional.
5.8.60	The Switch should Multicast Routing PIM Dense and Sparse modes	Changed - The Switch should Multicast Routing PIM Dense / Sparse modes
5.8.61	The Switch should static routing, RIPng, OSPFv3, BGP4+ for IPv6, and IS-ISv6	Changed - The Switch should static routing, RIPng, OSPFv3, BGP4+ for IPv6, and IS-ISv6. RIP, IS-IS is optional.
5.8.87		Added – All the features asked above must have necessary licenses on TOR switches from day one Licenses must be perpetual.

5. Self-Certification of the bidder on their letterhead as per the circular of Department of Expenditure (Ministry of Finance) vide REF.No. 6/18/2019-PPD of 23.07.2020 with subject "Restriction under Rule 144 (xi) of the General Financial Rules (GFRs)" in Pre-qualification criteria. Format is attached.

Note:

1. Other than the above mentioned amendment , all contents of the Tender are unchanged.

Annexure –XVI

Certificate by the bidder

(This Certificate should be submitted on the letterhead of the bidder duly signed by an authorized signatory)

To,
Mazagon Dock Shipbuilders Ltd,
Dockyard Road, Mumbai -10.

Dear Sir,

Ref.: Tender No.: _____ Dated: _____

1. We have read Office Memorandum F.No.6/18/2019-PPD dated 23.07.2020 issued by the Ministry of Finance, Department of Expenditure, Public Procurement Division Inserting Rule 144 (xi) in GFRs 2017 which defines clauses regarding restrictions on procurement from a bidder of a country which shares a land border with India.
2. "We have read the all the clauses regarding restrictions on procurement from a bidder of a country which shares a land border with India and certify that we _____ (Name of Bidder) are not from such a country or, if from such a country, have been registered with the Competent Authority.
3. We further certify that, I/We will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.
4. We hereby certify that, We fulfil all requirements in this regard and are eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)"

Authorized Signatory Name:
Designation:
Vendor's Corporate Name
Address
Email and Phone

Bid Security Declaration Format

(On Bidders Letterhead)

Date:

Tender No: _____

To

Mazagon Dock Shipbuilders Limited
Dockyard Road,
Mumbai : 400 010

I/We the undersigned declare that:

- 1) I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.
- 2) I/We accept that I/We may be disqualified / debarred from bidding against Mazagon Dock Shipbuilders Limited tenders for a period of one year from the date of notification if I/We are in a breach of any obligation under the bid conditions, because I/We
 - a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our bid during the period of bid validity specified in the form of Bid; or
 - b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security within the timeline, in accordance with the instructions to Bidders & as per tender terms & conditions.
- 3) I/We understand this Bid Securing Declaration shall cease to be valid on the Thirty First day from following,
 - a) if I am/we are not the successful Bidder, the receipt of your notification of the name of the successful Bidder; or
 - b) the expiration of the validity of my/our Bid or any extension thereof.

Signed: (insert signature of person whose name and capacity are shown)

In the capacity of (insert legal capacity of person signing the Bid Security Declaration)

Name: (insert complete name of person signing the Bid Security Declaration)

Duly authorised to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: in case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)