



## DIRECTORATE GENERAL OF HYDROCARBONS

(Ministry of Petroleum & Natural Gas, Government of India)

### **Corrigendum No. 1 to GeM Tender No. GEM/2022/B/2488003 for Procurement of IT Hardware for Disaster Recovery Datacentre at STPI, Bhubaneswar**

In respect of GeM E-Tender No. GEM/2022/B/2488003 for Procurement of IT hardware for Disaster Recovery Datacentre at STPI, Bhubaneswar, amendment to tender clauses and replies of pre-bid queries raised by the bidders, are attached herewith.

#### **The bid closing/opening date has been extended as under:**

	In lieu of	Revised
Bid Closing Date	23.09.2022 (17:00)	07.10.2022 (17:00)
Bid Opening Date	23.09.2022 (17:30)	07.10.2022 (17:30)

Addendum/ Corrigendum / Bid Due Date Extensions, if any, to the Bid Document shall be uploaded on DGH's website [www.dghindia.gov.in](http://www.dghindia.gov.in) and National e-Procurement Portal <http://gem.gov.in>. Hence, bidders are advised to visit the said websites regularly.

**HOD (MM)**  
**For Directorate General of Hydrocarbons**

### A. Amendment to tender clauses (GEM/2022/B/2488003)

Sl no.	Ref. Clause no. /page no. of bid document	In lieu of	To be read as under
1	<b>Server for Database Application</b>  Pg 4: Buyer Specification Document	<b>15. OS:</b> Windows Server 2022 Data Center Edition	<b>15. OS:</b> Windows Server 2019 Standard Edition
2	<b>UTM Firewall Solution</b>  Pg 4: Buyer Specification Document:	<b>3. Number of 1G SFP Ports:</b> 2 (All the ports should be populated with the 1 G SFP Modules)	<b>3. Number of 1G SFP/10 G SFP+ Ports:</b> 2 or more (At least 2 ports must be populated with the 1 G SFP/10G SFP+ RJ45 Transceiver Modules).
3	<b>Replication Software</b>  Pg 7: Buyer Specification Document:	8. The software must have an ability to selectively restore individual Hyper-V VMs from snapshots. 9. The software must have an ability to selectively restore individual Oracle instances/schema	8. The software must have an ability to restore Hyper-V VMs from backup.  9. The software must have an ability to restore Oracle Database.
4	<b>H. 1. Training</b>  Annexure -I: Additional Scope of Work	Bidder shall provide training for 1 week on installation, configuration, commissioning, monitoring, and troubleshooting of various equipment like servers, storage, UTM solution, replication software & other associated components to 3 nominated engineers at DGH, Noida premises.	Bidder shall provide training for 3 days on installation, configuration, commissioning, monitoring, and troubleshooting of various equipment like servers, storage, UTM solution, replication software & other associated components to 3 nominated engineers at DGH, Noida premises.
5	<b>I.1 Delivery Timeline</b>  Annexure -I: Additional Scope of Work	<b>I.1 Delivery Time:</b> The bidder will be required to supply the hardware within 90 days and complete necessary installation within 105 days from the date of award of order by DGH.	<b>I.1 Delivery Time:</b> The bidder will be required to supply the hardware within 150 days and complete necessary installation within 165 days from the date of award of order by DGH.
6	<b>K. Payment Schedule</b>	<b><u>K. Payment Schedule</u></b> 1. DGH will release 70 % payment on delivery of supplied hardware, software after acceptance of	<b><u>K. Payment Schedule</u></b> 1. DGH will release 80 % payment on delivery of supplied hardware, software

	Annexure -I: Additional Scope of Work	<p>delivery by DGH as per the terms and conditions of the supply order.</p> <p>2. The remaining 20% payment will be released after a) successful completion of installation, commissioning, configuration and training b) completion of the one week testing period after installation date as per the scope of work above &amp; c) submission of all relevant documents specified under "Documentation".</p> <p>3. The remaining 10% payment will be released @ 2% per annum after successful completion of warranty services at the end of each year.</p>	<p>after acceptance of delivery by DGH as per the terms and conditions of the supply order.</p> <p>2. The remaining 20% payment will be released after a) successful completion of installation, commissioning, configuration and training b) completion of the one week testing period after installation date as per the scope of work above &amp; c) submission of all relevant documents specified under "Documentation".</p>
7	<b>Delivery Days</b> Pg. 4, 5 & 7	90 Days	150 Days
8	2. <b>Payment Schedule</b> Pg. 8: Buyer Added Bid Specific ATC	<p><b><u>2. Payment Schedule</u></b></p> <p>(i) DGH will release 70 % payment on delivery of supplied hardware, software after acceptance of delivery by DGH as per the terms and conditions of the supply order.</p> <p>(ii) The remaining 20% payment will be released after a) successful completion of installation, commissioning, configuration and training b) completion of the one week testing period after installation date as per the scope of work above &amp; c) submission of all relevant documents specified under "Documentation".</p> <p>(iii) The remaining 10% payment will be released @ 2% per annum after successful completion of warranty services at the end of each year.</p>	<p><b><u>2. Payment Schedule</u></b></p> <p>(i) DGH will release 80 % payment on delivery of supplied hardware, software after acceptance of delivery by DGH as per the terms and conditions of the supply order.</p> <p>(ii) The remaining 20% payment will be released after a) successful completion of installation, commissioning, configuration and training b) completion of the one week testing period after installation date as per the scope of work above &amp; c) submission of all relevant documents specified under "Documentation".</p>

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## B. Reply to pre-bid queries against Bid No. GEM/2022/B/2488003

### 1. M/s Bharti Airtel Ltd.

Sl. No	ITEMS / REFERENCE	REQUEST	DGH Reply
1.	<p>Additional Scope of Work, Clause no. C.5, Pg. 3:</p> <p>Comprehensive warranty to be provided for minimum 5 (five) years on the entire infrastructure after successful installation.</p>	We request to please ask warranty from the hardware delivery date or 63 months from the hardware delivery date	<b>No Change</b>
2	<p>Additional Scope of Work, Clause no. I.1, Pg. 6</p> <p>The bidder will be required to supply the hardware within 90 days and complete necessary installation within 105 days from the date of award of order by DGH.</p>	Request to kindly extend the delivery timelines of Hardware from 90 days to 24 weeks.	Clause Amended. Refer to Sl.no. #5 at A. Amendments above
3.	<p>Additional Scope of Work, Clause no. H.1, Pg. 6</p> <p>Bidder shall provide training for 1 week on installation, configuration, commissioning, monitoring, and troubleshooting of various equipment like servers, storage, UTM solution, replication software &amp; other associated components to 3 nominated engineers at DGH, Noida premises.</p>	Request to kindly reduce training period from 1 week to 2 days.	Clause Amended. Refer to Sl.no. #4 at A. Amendments above
4.	<p>Annexure II: BID EVALUATION CRITERIA, Clause 2.3, Pg. 2</p> <p>The bidder should have experience in providing warranty/ annual maintenance support services for similar hardware for at least one year as on original bid closing date.</p>	<p>Request to remove the word 'Similar' from similar hardware.</p> <p>Hardware differs from one configuration to another and no one particular configuration is applicable for every customer.</p>	<p><b>No Change</b></p> <p>Refer to Annexure II: BID EVALUATION CRITERIA, Clause 2.2, Pg. 2 for definition of "Similar Work"</p>

Sl. No	ITEMS / REFERENCE	REQUEST	DGH Reply
5	<b>Bid submission date</b>	Requesting you to provide us 15 days extension	Date extended up to 07.10.2022.

## 2. M/s C.I. Infotech Pvt. Ltd.

Sl. No.	Tender Clause	Query	DGH Reply
1	UTM Firewall Solution:  Terms of Warranty	Below detail is required for BOM: Number of Year support.	<b>5 Years</b>  Refer to Additional Scope of Work, Clause no. G.1 & G.5, Pg. 7 <b>“Terms of Warranty”</b>
2	UTM Firewall Solution, Technical  Specifications Clause 10, Pg. 1  <b>Internal Storage:</b> Must have minimum 250 GB HDD	Do we have any provision to proposed cloud-based reporting to meet the 250 GB Storage requirement	<b>No Change</b>  Refer to Technical Specifications clause 10, Pg. 1 Must have minimum 250 GB HDD as <b><u>internal storage</u></b>
3	UTM Firewall Solution, Technical Specifications Clause 23, Pg. 2  <b>Power Supply:</b> Redundant Power Supply	We are quoting external power supply to meet the redundant power support requirement.	In case of external redundant power supply, <b>the external power supply and UTM solution must be from the <u>same OEM</u></b>
4	Replication Software, Technical Specifications Clause 4, Pg. 1  The software must provide continuous real-time replication between primary and remote sites of  a. Hyper-V VMs running on physical servers  b. Oracle 19c (Standard Edition) database running on the physical server	Please remove this point and you may get it done through your DB vendor.  Oracle Replication is Done by Oracle ODG = Real time	<b>No Change</b>
5	Replication Software, Technical  Specifications Clause 8, Pg. 1	Use Hyper-V native replication for VMs hosted on Hyper-V. Vendor scope should be setup Hyper-V replication for required VMs	Clause Amended.  Refer to Sl.no. #3 at A. Amendments above

	The software must have an ability to selectively restore individual Hyper-V VMs from snapshots.	Technical Specification of the Replication software needs amendment as ORACLE does not allow replication. There is no single pan management solution which fulfils all replication software requirement.	
5	Replication Software, Technical Specifications Clause 9, Pg. 1  The software must have an ability to selectively restore individual Oracle instances/schema	For Oracle, backup on primary site and replicate backup to DR site. Vendor scope can be setup time-based backup jobs at primary and setup replication to DR site  As 2nd option for Oracle replication, setup Oracle Data Guard for Oracle replication to DR  Technical Specification of the Replication software needs amendment as ORACLE does not allow replication. There is no single pan management solution which fulfils all replication software requirement.	Clause Amended. Refer to Sl.no. #3 at A. Amendments above
6	Additional Scope of Work, Clause no. I.1, Pg. 6 The bidder will be required to supply the hardware within 90 days and complete necessary installation within 105 days from the date of award of order by DGH.	Delivery Timeline needs to be extended to minimum 180 days due to shortage of Supply	Clause Amended. Refer to Sl.no. #5 at A. Amendments above
7	Bid End Date/Time, Pg. 1  23-09-2022 17:00:00	Extension of bidding timeline for minimum fifteen days post corrigendum	Date extended up to 07.10.2022.

### 3. M/s Corporate Infotech Pvt. Ltd.

Sl. No.	Tender Clause	Query	DGH Reply
1	Replication Software, Technical Specifications Clause 13, Pg. 1  Licenses must be provided to support replication of minimum 20 hosts (virtual/physical) along	As per our understanding, additional licenses of Oracle databases would be required for new nodes. Kindly clarify if that will be provided by you or we need to factor it in our solution.	The primary site is running <b><u>Oracle Database Standard Edition 2 - Processor Perpetual licence.</u></b>  Refer to Additional Scope of Work, Clause no. C.2, Pg. 3 <b><u>“Deliverables”</u></b> and Clause no. E.9, Pg. 4 <b><u>“General Requirements”</u></b> for

	with Oracle Database for 5 years		requirement of additional licenses.
2	Additional Scope of Work, Clause no. I.1, Pg. 6  The bidder will be required to supply the hardware within 90 days and complete necessary installation within 105 days from the date of award of order by DGH.	Request to please amend delivery period as:  Delivery period 20 weeks from the receipt date of P.O	Clause Amended. Refer to Sl.no. #5 at A. Amendments above
3		Request to please clarify if sufficient rack space is available for deploying server, Firewall, Switch and KVM	42U Rack Space would be provided by DGH
4	Bid End Date/Time, Pg. 1  23-09-2022 17:00:00	We would like to humbly request for the Corrigendum to extend the tender submission date at least 15 days from the publish of final Corrigendum  We as well as the OEMs need a little more time to prepare the feasible solution which will also impact commercials in a positive manner.	Date extended up to 07.10.2022.

#### **4. M/s Orbit Techsol India Pvt. Ltd.**

<b>Sl. No.</b>	<b>Tender Clause</b>	<b>Query</b>	<b>DGH Reply</b>
1	Replication Software, Technical Specifications Clause 8, Pg. 1  The software must have an ability to selectively restore individual Hyper-V VMs from snapshots.	Our recommendation is that to take job level snapshot of target to ensure recovery in case of cyber event.  (As the tool does real time replication hence RTO will be in minutes and RPO will be near zero)  The Carbonite Availability is host based real time byte level replication. It doesn't do or support replication of hyper v snapshots or restoration to it. Instead target will be ready for failover post initial sync at anytime. And also target will be in continuous sync with source	Clause Amended. Refer to Sl.no. #3 at A. Amendments above

		because of real time replication. Hence giving RTO of minutes and RPO of sub seconds	
2	<p>Replication Software, Technical Specifications Clause 9, Pg. 1</p> <p>The software must have an ability to selectively restore individual Oracle instances/schema</p>	<p>Our recommendation is to do full server failover as to do selective instance/schema restore you would need a target machine already running with Oracle DB</p> <p>(Considering it as a replication requirement, It would require a prebuilt target to do individual instance/schema restore which adds on to required licenses at target)</p> <p>The Carbonite Availability tool only have option of complete full server failover as it doesn't work on Oracle DB level</p>	<p>Clause Amended.</p> <p>Refer to Sl.no. #3 at A. Amendments above</p>
3	<p>Additional Scope of Work, Clause no. I.1, Pg. 6</p> <p>The bidder will be required to supply the hardware within 90 days and complete necessary installation within 105 days from the date of award of order by DGH.</p>	<p>We request to amend the delivery time lines with 20 weeks.</p>	<p>Clause Amended.</p> <p>Refer to Sl.no. #5 at A. Amendments above</p>

#### 5. M/s ResseauxTech Private Limited

Sl. No.	Tender Clause	Query	DGH Reply
1	Replication Software, Technical Specifications Clause, Pg. 1	<p>Additional Technical Specifications suggested</p> <p>After gone through the technical specifications by technical team, we have some challenge to comply in the specifications.</p> <p>Request you to kindly look into this attachment and consider our request to incorporate these and add as amendment.</p>	<b>No Change</b>
2	UTM Firewall Solution, Technical Specifications Clause 3, Pg. 1	<p>Please remove the clause as the port I/O in a small box is an OEM specific. 8*1G copper is enough to achieve the connectivity consideration</p>	<p>Clause Amended.</p> <p>Refer to Sl.no. #2 at A. Amendments above</p>



	<b>Number of 1G SFP Ports:</b> 2 (All the ports should be populated with the 1 G SFP Modules)		
3	UTM Firewall Solution, Technical Specifications Clause 5, Pg. 1 <b>IPSec VPN throughput:</b> 2 Gbps	Please change this to minimum 1.5 Gbps considering 64KB HTTP transaction size	<b>No Change</b>  Throughput to be measured using industry standard performance test tools & OEM best practices.
4	UTM Firewall Solution, Technical Specifications Clause 7, Pg. 1 <b>IPSec VPN throughput:</b> 2 Gbps	Please change this to minimum 1.5 Gbps considering 64KB HTTP transaction size	<b>No Change</b>  Throughput to be measured using industry standard performance test tools & OEM best practices.
5	UTM Firewall Solution, Technical Specifications Clause 8, Pg. 1 <b>Minimum New connections/sec (TCP):</b> 50000	Please change this to minimum 35000 Layer 7 HTTP sessions considering size of 1 Byte	<b>No Change</b>  Parameter to be measured using industry standards & OEM best practices.
6	UTM Firewall Solution, Technical Specifications Clause 10, Pg. 1 <b>Internal Storage:</b> Must have minimum 250 GB HDD	Please change this to 128GB	<b>No Change</b>
	UTM Firewall Solution, Technical Specifications Clause 23, Pg. 2 <b>Power Supply:</b> Redundant Power Supply	External Redundant Power Source Inputs are available on the box	In case of external redundant power supply, <b>the external power supply and UTM solution must be from the same OEM</b>

**6. M/s Sara Infoway ITES India Pvt. Ltd.**

Sl. No.	Tender Clause	Query	DGH Reply
1.	Replication Software, Technical Specifications Clause 4, Pg. 1  The software must provide continuous real-time replication	Real time is considered as synchronous replication. However, as per RFP, RPO is 4 hours. Hence shall we consider data copy at secondary site every 4 hours?	The software must have the ability to support real-time replication as per the clause. The actual configuration on site will be according to RTO & RPO

	between primary and remote sites of a. Hyper-V VMs running on physical servers b. Oracle 19c (Standard Edition) database running on the physical server		specifications given in clause 14 & 15 respectively.
2.	Replication Software, Technical Specifications Clause 6, Pg. 1  The software should support planned failovers and failover orchestration tests without any disruption to the primary Data centre setup (sandboxing)	Sandboxing has few pre-requisites. We believe, DGH will provide resources to spin up the windows/Linux instances?	Refer to Additional Scope of Work, Clause no. C.2, Pg. 3 <b>“Deliverables”</b> and Clause no. E.9, Pg. 4 <b>“General Requirements.”</b> Any resources required for compliance to specifications may be assessed by the bidder and the same may be incorporated in the offer.

#### **7. M/s Yajat Sinhayna Pvt. Ltd.**

<b>Sl. No.</b>	<b>Tender Clause</b>	<b>Query</b>	<b>DGH Reply</b>
1.	UTM Firewall Solution, Technical Specifications Clause 3, Pg. 1  <b>Number of 1G SFP Ports:</b> 2 (All the ports should be populated with the 1 G SFP Modules)	1 G speed support by copper port also, hence we recommend you to opt for 10 G SFP+ ports. Or clause has been amended as 2 (All the ports should be populated with the 1 G SFP/10G SFP+ Modules)  Single OEM Specific Model selected with Combination of Ports has been mentioned. 1G Ports has been already taken in Ethernet port. Multiple OEM offerings have with 10G SFP/SFP+ Port which is technically higher.	Clause Amended. Refer to Sl.no. #2 at A. Amendments above
2.	UTM Firewall Solution, Technical Specifications Clause 19, Pg. 1  <b>Web Application Firewall:</b> Must have feature of Web Application Firewall	The clause should be amended as Solution optional have feature of Web Application Firewall This is not the feature of next generation firewall/UTM.	<b>No Change</b> Refer to Additional Scope of Work, Clause no. C.2, Pg. 3 <b>“Deliverables”</b> and Clause no. E.9, Pg. 4 <b>“General Requirements.”</b> If Web Application Firewall is not a standard feature, the <b>same must be provided and integrated by the bidder as</b>

			<b>an additional component of the solution</b>
3.	<p>Replication Software, Technical Specifications Clause 8, Pg. 1</p> <p>The software must have an ability to selectively restore individual Hyper-V VMs from snapshots.</p>	<p>Our recommendation is that to take job level snapshot of target to ensure recovery in case of cyber event.</p> <p>(As the tool does real time replication hence RTO will be in minutes and RPO will be near zero)</p> <p>The Carbonite Availability is host based real time byte level replication. It doesn't do or support replication of hyper v snapshots or restoration to it. Instead target will be ready for failover post initial sync at anytime. And also target will be in continuous sync with source because of real time replication. Hence giving RTO of minutes and RPO of sub seconds</p>	<p>Clause Amended. Refer to Sl.no. #3 at A. Amendments above</p>
4.	<p>Replication Software, Technical Specifications Clause 9, Pg. 1</p> <p>The software must have an ability to selectively restore individual Oracle instances/schema</p>	<p>Our recommendation is to do full server failover as to do selective instance/schema restore you would need a target machine already running with Oracle DB</p> <p>(Considering it as a replication requirement, It would require a prebuilt target to do individual instance/schema restore which adds on to required licenses at target)</p> <p>The Carbonite Availability tool only have option of complete full server failover as it doesn't work on Oracle DB level</p>	<p>Clause Amended. Refer to Sl.no. #3 at A. Amendments above</p>
5.	<p>Buyer Added Bid Specific ATC, Clause 2, Pg. 8</p> <p><b>2. Payment Schedule</b> (i) DGH will release 70 % payment on delivery of supplied hardware, software after acceptance of delivery by DGH as per the terms and conditions of the supply order. (ii) The remaining 20% payment will be released after a) successful completion</p>	<p>We request kindly amend the clause as the Payment would be released 90% against the Delivery and rest 10% after successful Installation and Commissioning.</p> <p>The Mentioned Clause not as per the GFR Rule, Not as per the Procurement manuals of the Goods. The Payment Terms Should be as per the GFR Rules. L-1 Bidder will be submitting the PBG for the Warranty period. Buyer may claim the PBG in case of non-availability of Services during Warranty Period. Buyer may refer the OM No. DPE-7(4)/2007-Fin issued by</p>	<p>Clause Amended. Refer to Sl.no. #6 &amp; 8 at A. Amendments above</p>

	<p>of installation, commissioning, configuration and training b) completion of the one week testing period after installation date as per the scope of work above &amp; c) submission of all relevant documents specified under "Documentation".</p> <p>(iii) The remaining 10% payment will be released @ 2% per annum after successful completion of warranty services at the end of each year.</p> <p>3. The PBG as referred under Pg. 2 of this tender document must be valid for 02 months beyond the duration of contract (including warranty and other contractual obligations)</p>	<p>Department of Public Enterprises dated: 12/02/2020 or OM No. F.6/18/2019. PPD issued by Ministry of Finance (Procurement Policy Division) Dated: 23/01/2020</p>	
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