



SOUTH AFRICA

Electoral Commission

Bid Specifications

Auction 0010451975

Public Website Hosting

IMPORTANT NOTICE

Failure to comply with the completion of the auction conditions and the required information or submission of the required stipulated documents indicated above (i.e. non submission of the required reseller authorisation details and maintenance stipulations) shall invalidate a bid.

1 Introduction

The Electoral Commission (IEC) is seeking a website hosting partner to host its website for a period not exceeding 12 months from July 2021 and terminate within three (3) months after Local Government Elections (LGE) 2021.

The service provider will provide a number of Virtual Machines for the Web, Application Program Interface (API), Maps, Databases and other Utilities servers. The service provider will also provide data storage facility. The IEC will provide security infrastructure in the form of Fortinet equipment and licenses, it is required of the service provider to configure these to secure the IEC website over and above at their own hosting security environment. The service provider will also provide redundant connectivity to the Internet with bandwidth ranging from 100 Mbps up to 10 Gbps. The line should be scalable up and down at a moment's notice to meet the demands at that time. The service provider is to also provide services including configuration and daily database backups. The IEC also requires a data line between the hosting partner and their Internet Service Provider (ISP). This is a consumption based requirement where the IEC will only pay for the infrastructure and services utilized during the hosting period.

The IEC has invested extensively in ICT technologies, which provide a platform to effectively support and enable its business processes and to meet its goal of providing a free and fair election process in an open and transparent environment. The Electoral Commission's ICT Department intends to continue running a highly efficient and stable ICT environment making full use of industry standards, best practices and disciplines based upon stable and reliable technologies.

2 Background

During elections, the IEC prefers to host the public website at an Internet Service Provider, away from its data centre mainly for the following reasons:

- 2.1 Being at an ISP means that Internet Access is not limited to the physical line capacity between the ISP and the IEC. The Internet Connectivity can be scaled up/down at request to allow good response times as and when needed.
- 2.2 Being at an ISP, other infrastructure elements such as servers and storage can be increased much quicker and easier as the need arises than at IEC's data centre.

This request is to host the public website of the IEC for a period not exceeding 12 months starting in July 2021 and terminate within three (3) months after LGE 2021.

3 Bid Requirements

The IEC seeks a hosting solution on an Infrastructure as a Service (IaaS) mechanism for a period not exceeding 12 months at a hosting facility that includes the following:

	Category	Description	Quantity
1.	Data Centre	Racks to house the equipment and storage	2
2.		Structured Cabling for the equipment, Storage etc.	1
3.		Provision of redundant 10 GB switch(es) for the environment	
4.	Infrastructure as a Service (IaaS)	Provision of Maps (8 VSFinder) and Atlas (4) Virtual Servers	12
5.		Provision of Application Programme Interface (API) Virtual Servers	4
6.		Provision of Website Virtual Servers	12
7.		Provision of Utilities Physical Servers (Active Directory (AD), Antivirus (AV) and Domain Name Servers (DNS))	3
8.		Provision of Security Operations Centre (SOC) Virtual Servers	2
9.		Provision of Database (DB) Physical Servers.	2
10.		Provision of 1 TB Storage with an option to scale up to 10 TB.	1
11.		Installation and configuration service of the servers with an image supplied by the IEC including patching to the latest level of Operating System	1
12.		All Windows servers must be installed with the latest patches before being handed over to the IEC	1
13.		Connection of all equipment on the Network including hooking up DB Servers to the Storage	1
14.	Security	Deployment and configuration of Fortinet Distributed Denial of Service (DDoS) appliance at the perimeter of the hosted platform	1
15.		Deployment and configuration of the Fortigate Firewalls	2
16.		Deployment and configuration of the FortiWeb	2

		Web Application Firewalls	
17.		Deployment and configuration of the FortiADC Load balancers	2
18.		Deployment and configuration of the FortiAnalyzer for log collection on the firewall environment	1
19.		Availability of a security resource at IEC's disposal that can install, configure, support and maintain the Fortinet equipment above. This availability will be for 1 month. During election week, the resource is to be stationed at the IEC's National Office	1
20.	Wide Area Network	Redundant Internet Line with capacity that ranges from 100 Mbps – 10 Gbps, i.e. that can be scaled up to 10 Gbps at a moment's notice	1
21.		Redundant Connectivity Line to the IEC (or IEC's ISP) of at least 30 Mbps from the Hosting Facility	1
22.		Redundant Connectivity Line from the Results Operation Centre to the Hosting of at least 30 Mbps	1
23.	Support and Maintenance	Remote access for IEC staff for management purposes	1
24.		First Level Monitoring, Management, Backups and other operational requirements for the deployed equipment	1
25.		The IEC will provide second level support to all deployed equipment save the Fortinet equipment which shall be supported by the security resource provided by the bidder	1
26.		The servers must be self-managed with the IEC having full remote access to the server environment	1

The IEC will procure Remote Distributed Denial of Service (DDoS) and Caching facility separate from this contract. The IEC will also be responsible to install the applications running on the environment including the database structures and the data itself. The bidder must however understand that this is a consumption based service and the capacity will be adjusted up or down from time-to-time based on consumer demands.

4 Technical Specifications

It must be noted that the technical specifications below are the minimum requirements; the only deviation that may be accepted will be in case where the bidder's specification is better. Anything below specification will be disqualified.

4.1 Data Centre

- 4.1.1 The bidder must provide racks for the computer and storage equipment to be provisioned. The bidder to indicate the number of racks to be provided
- 4.1.2 The bidder must install the structured cabling necessary to connect the equipment, storage and WAN links
- 4.1.3 The bidder must provide redundant 10 GB switches or better for the environment (2 x 48 port switches)

4.2 Infrastructure as a Service (IaaS)

- 4.2.1 The IEC uses VMware virtual platform and will provide VMware based ghost images
- 4.2.2 The bidder must provide, install and configure the 18 virtual servers that have the following specification at a minimum:

	Item	Value
1.	Operating System	The IEC will provide an image with an Operating System
2.	Processor	16 vCPU
3.	Memory	64 GB
4.	Hard Disk Space	500 GB
5.	Number of Servers	18

- 4.2.3 The bidder must provide, install and configure the 12 virtual servers that have the following specification at a minimum:

	Item	Value
6.	Operating System	Windows Server 2016
7.	Processor	16 vCPU

8.	Memory	64 GB
9.	Hard Disk Space	500 GB
10.	Number of Servers	12

4.2.4 The bidder must provide, install and configure 3 x physical servers that have the following specifications at a minimum

	Item	Value
1.	Operating System	The IEC will provide an image with an Operating System
2.	Processor	16 vCPU
3.	Memory	128 GB
4.	Hard Disk Space	500 GB
5.	Number of Servers	3

4.2.5 The bidder must provide, install and configure 2 Database physical servers that have following specifications at a minimum:

	Item	Value
1.	Operating System	Windows Server 2016
2.	Processor	32 vCPU
3.	Memory	256 GB
4.	Internal Hard Disk Space	500 GB
5.	SAN Storage	Usable minimum Raid 5 Storage of capacity 1 TB. The storage capacity must range up to 10 TB
6.	Number of Servers	2
7.	Database Server	IEC to provide a license

4.2.6 The bidder must provide, install and configure Storage and connect them to the servers in a redundant mode. The IEC will provide the LUN sizes configuration requirements during implementation

4.2.7 The design below was implemented during the previous elections. The bidder must be able to implement the design below or suggest a much better, secure and more efficient design and implement. The implementation includes the setup different Virtual Local Area Networks (VLANs), connection of the servers to the network and deployment in the different Virtual Local Area Networks (VLANs):

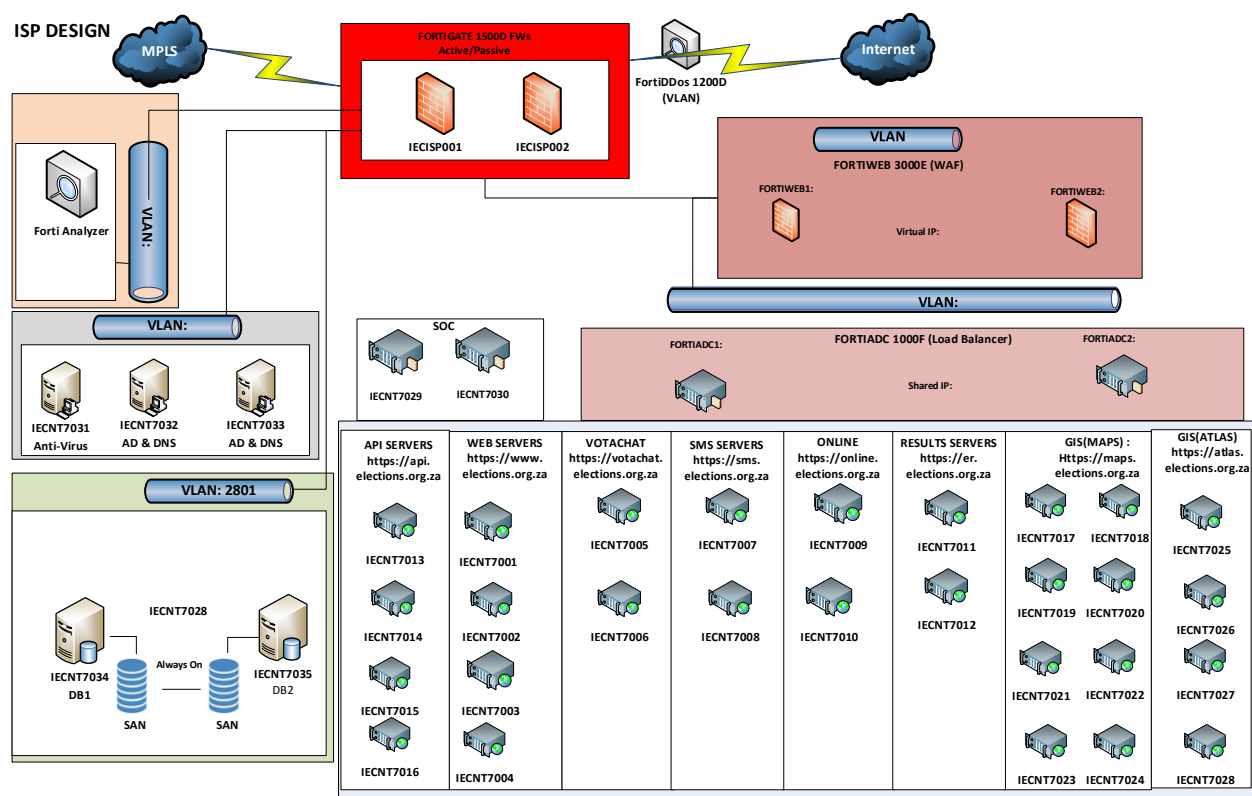


Figure 1 High Level Deployment Diagram

4.2.8 The bidder must provide a solution design that shows how the IaaS components fit into the Data Centre, Wide Area Network and Security. Included in the design should be such information as Virtualization platform, Storage information, network switches and server information

4.2.9 The IEC National Office Public Website will act as a failover / Disaster Recovery environment for the hosted public website.

4.3 Wide Area Network

4.3.1 The bidder must provide a redundant internet line of minimum 100 Megabit per second (Mbps). This line must be scalable at a moment notice up to 10 Gigabit per second (Gbps).

4.3.2 The bidder must provide a redundant connectivity line of at least 30 Mbps between the IEC's Internet Service Provider (ISP) and the hosting facility. This line must be scalable to about 140 Mbps.

- 4.3.3 The bidder must provide a redundant connectivity line of at least 30 Mbps between the IEC's Internet Service Provider (ISP) and the Results Operations Centre. This line must be scalable to about 140 Mbps

4.3.4 Security

- 4.3.5 The bidder must deploy and configure (including patching) the Fortigate 1500D Firewalls.
- 4.3.6 The bidder must deploy and configure (including patching) the FortiWeb 3000E Web Application Firewalls as per IEC requirements.
- 4.3.7 The bidder must deploy and configure (including patching) the FortiADC 1000F Application Delivery Controllers (ADC) or commonly known as Load Balancers
- 4.3.8 The bidder must deploy and configure (including patching) the FortiDDoS 1200D Appliances on the perimeter
- 4.3.9 The bidder must deploy and configure (including patching) the FortiAnalyzer Appliances to collect logs in the environment

4.4 Support and Maintenance

- 4.4.1 The bidder must provide remote access (Remote Desktop Support, SSH etc.) for the IEC staff to connect to the server environment over the connectivity provided.
- 4.4.2 The bidder must provide support and maintenance during the duration of the hosting that includes daily, weekly and monthly backups of the configuration and database excluding the SOC servers. The bidder is to describe support service levels
- 4.4.3 The bidder must provide monitoring of the environment during the duration of the hosting to ensure that 99.99% uptime is achieved especially during a few weeks leading to and including Election Day and about two weeks after Election Day. Thereafter normal uptime as provided by the hosting partner will apply.
- 4.4.4 The bidder must provide a 24 x 7 support service for about 1 week during Election Week. The service must include a Security resource that will be stationed at the IEC National Office and/or Results Operations Centre (ROC) during the election week. There should also be a single point of contact with the bidder in case other support services are required during this week.

4.5 General Requirements

- 4.5.1 The bidder must provide a flexible environment that allows the IEC to adjust up or down the hosting capacity in the form of deploying more / removing servers, or increasing / decreasing the

capacities of the individual servers when the need arises. The same applies to the sizes of the data lines as well.

4.5.2 The IEC requires hosting for a period not exceeding 12 months starting in July 2021 and terminate within 3 months of LGE 2021.

4.5.3 The hosting facility must be within a radius of 100 km from the IEC National Office in Centurion. The bidder must confirm in writing that the hosting facility is within a radius of 100 km from IEC National Office in Centurion. IEC's National office is at 1303 Heuwel Road, Centurion.

5 General Auction Conditions

The following standard auction conditions must be adhered to and complied with, failing of which the bid will be disqualified.

Bidders must place bids online on the Electoral Commission's eProcurement website by not later than the stipulated closing date and time on the auction.

- 5.1 Bids must be placed online on Votaquotes website
- 5.2 The bidder must provide detailed technical specifications in accordance with the technical requirements to demonstrate compliance by completing and submitting Annexure A
- 5.3 The bidder must host the IEC website locally in South Africa at one data center. The IEC will provide a failover facility
- 5.4 The bidder must be an Internet Service Provider registered with ISPA. Proof of registration in the form of a copy of registration certificate is to be supplied.
- 5.5 The bidder is required to provide proof of available local (South African) support for the Fortinet security infrastructure in the form of supplying at least two (2) Fortinet qualified CVs of Engineers covering the Fortinet products to be used: Fortigate, FortiWeb, FortiADC, FortiAnalyzer, FortiDDoS.
- 5.6 The Electoral Commission will issue a formal purchase order to the successful bidder before any services can be delivered.
- 5.7 Delivery of the required products and services shall only be accepted by the Electoral Commission on the basis of presentation of the service provider's own delivery note. Such notes shall not be substituted by another service provider's delivery notes.
- 5.8 Delivery of all the services to be made no later than two (2) months after the issuing of the purchase order.
- 5.9 Awarding of the auction to any successful bidder shall be subject to the Electoral Commission's due diligence audit requirements, where applicable.
- 5.10 No payment shall be made until full and final delivery has taken place and the product has been confirmed and delivered in accordance with the specifications.
- 5.11 The bidder must provide at least three (3) contactable references of past services of a similar nature that the bidder provided or was involved in. Reference details must include the following: customer name, contact person, contact details (telephone, email, physical address) and service description and value of services offered, per annum.

Some guideline definitions:

- a) Service value defined in terms of budget, personnel resources and duration.
- b) Similar service value are those services of comparative value and not less than 50% of this bid's bid price.
- c) Similar services are those services, which include supply of similar services as per the technical requirements stated in 3 above and of comparative value.

- 5.12 Bidder must have at least three-year's experience in providing the services required.
- 5.13 The bidder understands that this is a consumption based service and capacity will be adjusted up or down from time-to-time depending on consumer demands. The IEC will pay only for the capacity consumed.

6 Quality Control

The following quality control conditions must be adhered to and complied with, failing of which the bid will be disqualified.

- 6.1 The successful bidder will have the primary responsibility of ensuring that the proposed product complies with the required specifications in terms of functionality and technical specification including quantity and quality.
- 6.2 The proposed product must be complete, fully functional and ready for deployment without dependencies on additional equipment, software or components that may be required to make it work.
- 6.3 It must be noted that the Electoral Commission seeks to gain the best product technically, functionally and financially, and will select the product that it deems to give the best investment.
- 6.4 Preference will be given to solutions that are based on a standard existing product in the market and not products specifically designed and/or cloned for this bid. The Electoral Commission may require market penetration indicators and references.
- 6.5 Upon a successful bid being accepted, the Electoral Commission reserves the right to request an inspection of the preferred service provider's facilities.
- 6.6 The successful service provider has the primary responsibility to ensure that quantity and quality are in accordance with the bid specifications.

In addition, the Electoral Commission may also call on bidders to make further submissions and/or presentations in order for the Electoral Commission to ensure full compliance with all its requirements and as part of the bid evaluation process prior to the conclusion of the adjudication of the auction.

7 Pricing Requirements

When pricing bid proposals, service providers are advised to take into account that the following issues are factored into the price. The Electoral Commission will not entertain additional charges on these items.

- 7.1 Hardware and Software costs.
- 7.2 Bidder must complete and submit the Pricing Annexures: B, B1 and B2
- 7.3 Configuration and/or customization services costs.
- 7.4 Hosting, support and maintenance costs
- 7.5 For bid evaluation purposes, bid pricing must be based on 300 Mbps Internet line
- 7.6 For bid evaluation purposes, bid pricing must be on 1 TB usable minimum Raid 5 Storage Capacity
- 7.7 Bid prices must be firm for a period of one hundred and eighty (180) days and must be inclusive of VAT
- 7.8 Bid price must be submitted online on the eProcurement (Votaquotes) portal.
- 7.9 In the event that the price has FOREX dependencies, the bidder must state the portion of the price that has FOREX dependency and state the exchange rate that the price is based on. Where applicable FOREX based up or down adjustments will be allowed in subsequent years to account for the movement of the value of the Rand. The exchange rate must be based on a specified Bank Selling Rate on a given date. Likewise, subsequent adjustments will be based on the Bank Selling Rate applicable at that time.

8 Award of Order

- 8.1 The selection process may include short-listing, presentation and demonstration of the products by short-listed potential service providers.
- 8.2 A contract/purchase order will be awarded to a bidder whose bid complies with these specifications and in accordance with the terms of the provisions of the Preferential Procurement Policy Framework Act, 2000 and more specifically the Preferential Procurement Regulations, 2017.
- 8.3 The Electoral Commission will issue a formal order before any services or products can be delivered.
- 8.4 It should be noted that the Electoral Commission seeks to gain the best product technically and financially and will select from the results of the auction a solution it deems to give the best investment.

9 Delivery and Implementation Timeframe

- 9.1 The successful bidder will be required to complete delivery within two (2) months from receipt of an order for these services. The bidder is to confirm in writing that they can deliver the solution within 2 months of receipt of an order from the IEC

- 9.2 If that is not possible, the bidder must state in the bid conditions and in its written submission the reasons and the earliest date that implementation may start and be completed.

10 Written Submissions

All submissions must be received before the closing date and time for submissions as stipulated on the eProcurement website <https://votaquotes.elections.org.za>. Submissions received after the final date and time will lead to bids being disqualified and not considered.

All bids must be placed online on eProcurement website <https://votaquotes.elections.org.za>. Supporting documentation can be submitted in any or both of the following options:

- Upload to the auction site.
- Place in the Electoral Commission tender box situated in the foyer of the Electoral Commission National Office in Centurion at the following address before the closing date and time of this auction

**Election House
Riverside Office Park,
1303 Heuwel Avenue,
Centurion,
0157**

Note: Clearly mark your submission: For the attention of Procurement and Asset Management Department – Auction 0010451975

Failure to submit all of the required documentation before the closing date and time shall invalidate the bid. It remains the responsibility of the bidder to confirm receipt of the required documentation with the Electoral Commission Procurement and Asset Management Department.

11 Summary of Submission Requirements

- 11.1 A solution design that shows how the IaaS fits into the Data Centre, Wide Area Network and Security. Included in the design should be such information as Virtualization platform, Storage information, and network switches and servers information.
- 11.2 Detailed technical specifications in accordance with the technical requirements to demonstrate compliance by completing and submitting Annexure A;
- 11.3 Detailed pricing by completing and submitting Annexures B, B1 and B2
- 11.4 Proof of registration with ISPA in the form of a copy of the registration certificate.

- 11.5 At least three (3) contactable references of past services of a similar nature that the bidder provided or was involved in.
- 11.6 At least two (2) Fortinet qualified CVs of Engineers covering the Fortinet products to be used: Fortigate, FortiWeb, FortiADC, FortiAnalyzer, FortiDDoS.
- 11.7 Confirmation in the form of a letter that the bidder will be able to deliver solution and the required services within a period of 2 months.
- 11.8 Confirmation that the hosting facility is within a radius of 100 km from the IEC's National Office in Centurion.

12 Closing Date

The closing date and time of this auction will be specified on the eProcurement (Votaquotes) website in accordance the bidding requirements. The closing date and time is determined by the clock on the Electoral Commission's servers and is not negotiable. Bidders must also take note supporting documentation must be delivered before closing date and time.

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
1.	Data Centre	The bidder must provide racks for the computer and storage equipment to be provisioned. The bidder to indicate the number of racks to be provided			
2.		The bidder must install the structured cabling necessary to connect the equipment, storage and WAN links			
3.		The bidder must provide redundant 10 GB switches or better for the environment (2 x 48 port switches)			
4.	Infrastructure as a Service (IaaS)	The bidder must provide, install and configure the 18 virtual servers (not including Database Servers) that have the following specification at a minimum: a) Image to be provided b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB			
5.		The bidder must provide, install and configure the 12 virtual servers (not including Database Servers) that have the following specification at a minimum: a) Windows Server 2016 b) CPU: 16 vCPU c) RAM: 64 GB			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		Hard Disk Drive: 500 GB			
6.		The bidder must provide, install and configure 3 x physical servers that have the following specifications at a minimum a) Image to be provided by the IEC b) CPU: 16 vCPU c) RAM: 128 GB d) Hard Disk Drive: 500 GB			
7.		The bidder must provide, install and configure 2 Database physical servers that have following specifications at a minimum: a) Windows Server 2016 b) CPU: 32 vCPU c) RAM: 256 GB d) Hard Disk Drive: 500 GB e) IEC will install and configure SQL Server			
8.		The bidder must provide, install and configure 1 TB usable minimum Raid 5 Storage and connect it to the servers. The			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		IEC will configure SQL Always-On. The size of the LUNS will be provided by the IEC			
9.		The bidder must provide 2 virtual servers for the Security Operations Centre (SOC) that have the following specification at a minimum: a) IEC to provide the image b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB			
10		All Windows servers must be installed with the latest patches before being handed over to the IEC			
11		The design in Figure 1 was implemented during the previous elections. The bidder must be able to implement a similar design or suggest a much better, secure and more efficient design and implement. The implementation includes the setup of different Virtual Local Area Networks (VLANs)			
12		The bidder must provide a solution design that shows how the IaaS components fit into the Data Centre, Wide Area Network			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		and Security. Included in the design should be such information as Virtualization platform, Storage information, network switches and server information			
13	Wide Area Network (WAN)	The bidder must provide a redundant internet line of at least 100 Megabit per second (Mbps). This line must be scalable at a moment notice up to 10 Gigabit per second (Gbps).			
14		The bidder must provide a redundant connectivity line of at least 30 Mbps between the IEC's Internet Service Provider (ISP) and the hosting facility. This line must be scalable to about 140 Mbps			
15		The bidder must provide a redundant connectivity line of at least 30 Mbps between the IEC's Internet Service Provider (ISP) and the Results Operations Centre. This line must be scalable to about 140 Mbps			
16	SECURITY	The bidder must deploy and configure (including patching) the Fortigate 1500D Firewalls.			
17		The bidder must deploy and configure (including patching) the			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		FortiWeb 3000E Web Application Firewalls as per IEC requirements.			
18		The bidder must deploy and configure (including patching) the FortiADC 1000F Application Delivery Controllers (ADC) or commonly known as Load Balancers			
19		The bidder must deploy and configure (including patching) the FortiDDoS 1200D Appliances on the perimeter			
20		The bidder must deploy and configure (including patching) the FortiAnalyzer Appliances to collect logs in the environment			
21		The bidder must be able to provide a Fortinet resource to be stationed at the IEC for the week of the elections.			
22	SUPPORT AND MAINTENANCE	The bidder must provide remote access (Remote Desktop Support, SSH etc.) for the IEC staff to connect to the server environment over the connectivity provided			
23		The bidder must provide support and maintenance during the duration of the hosting that includes daily, weekly and monthly			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		backups of the configuration and database excluding the SOC servers. The bidder is to describe support service levels			
24		The bidder must provide monitoring of the environment during the duration of the hosting to ensure that 99.99% uptime is achieved especially during a few weeks leading to and including Election Day and about two weeks after Election Day. Thereafter normal uptime as provided by the hosting partner will apply			
25		The bidder must provide a 24 x 7 support service for about 1 week during Election Week			
26	GENERAL REQUIREMENTS	The bidder must provide a flexible environment that allows the IEC to adjust up or down the hosting capacity in the form of deploying more / removing servers, or increasing / decreasing the capacities of the individual servers when the need arises. The same applies to the sizes of the data lines as well			
27		The IEC requires hosting for a period not exceeding 12			

Annexure A – Technical Bid Response

Completion of this technical response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		months starting on July 2021.			

Annexure B – Price Breakdown Response

Completion of this Price Breakdown response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
1.	Data Center	Provision of Rack1 including a top 2K switches	1	R.....	R.....	R.....

Annexure B – Price Breakdown Response

Completion of this Price Breakdown response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
2.		Provision of Rack2 for SAN Storage	1	R.....	R.....	R.....
3.		10 GB Switches	2	R.....	R.....	R.....
4.		Structured Cabling	1	R.....	R.....	R.....
5.	INFRASTRUCTURE AS A SERVICE (IaaS)	Virtual Servers with the following: a) Image to be provided by IEC b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB	18	R.....	R.....	R.....
6.		Virtual Servers with the following: a) Windows Server 2016 b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB	12	R.....	R.....	R.....

Annexure B – Price Breakdown Response

Completion of this Price Breakdown response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
7.		Database Physical Servers with the following: a) Image to be provided by IEC b) CPU: 32 vCPU c) RAM: 256 GB d) Hard Disk Drive: 500 GB	2	R.....	R.....	R.....
8.		Utilities Physical Servers with the following: a) Image to be provided by IEC b) CPU: 16 vCPU c) RAM: 128 GB d) Hard Disk Drive: 500 GB:	3	R.....	R.....	R.....
9.		SOC Virtual Servers with the following: a) No Operating System b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB	2	R.....	R.....	R.....
10		1 TB usable Storage (minimum Raid 5)	1	R.....	R.....	R.....

Annexure B – Price Breakdown Response

Completion of this Price Breakdown response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
11	WIDE AREA NETWORK	A redundant (Primary and Secondary) internet line of at 300 Megabit per second (Mbps). This line must be scalable at a moment notice up to 10 Gigabit per second (Gbps).	1	R.....	R.....	R.....
12		A redundant (Primary and Secondary) 30 Mbps between the IEC's Internet Service Provider (ISP) and the hosting facility. This line must be scalable to about 140 Mbps	1	R.....	R.....	R.....
13		30 Mbps between the IEC's Internet Service Provider (ISP) and the Results Operations Centre. This line must be scalable to about 140 Mbps	1	R.....	R.....	R.....
14	SECURITY	Deploy and configure (including patching) the Fortigate 1500D Firewalls.	2	R.....	R.....	R.....
15		Deploy and configure (including patching) the ForWeb 300E Web Application Firewalls as per IEC requirements.	2	R.....	R.....	R.....
16		Deploy and configure (including patching) the FortiADC 1000F Application Delivery Controllers (ADC) or commonly known as Load Balancers	2	R.....	R.....	R.....

Annexure B – Price Breakdown Response

Completion of this Price Breakdown response sheet by the bidder is compulsory.

Bidder must respond to each and every item in the response sheet.

Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.

	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
17		Deploy and configure (including patching) the FortiDDoS 1200D Appliances on the perimeter	1	R.....	R.....	R.....
18		Deploy and configure (including patching) the FortiAnalyzer Appliances to collect logs in the environment	1	R.....	R.....	R.....
19		Security Resource stationed at the IEC during election week	1	R.....	R.....	R.....
20	SUPPORT AND MAINTENANCE	Support and Maintenance during the duration of the hosting that includes daily, weekly and monthly backups of the configuration and database excluding the SOC servers.	1	R.....	R.....	R.....
21		Monitoring of the environment during the duration of the hosting to ensure that 99.99% uptime is achieved especially during a few weeks leading to and including Election Day and about two weeks after Election Day (a total of 4 weeks). Thereafter normal uptime as provided by the hosting partner will apply	1	R.....	R.....	R.....
22		A 24 x 7 support service for 1 week during Election	1			

Annexure B – Price Breakdown Response Completion of this Price Breakdown response sheet by the bidder is compulsory. Bidder must respond to each and every item in the response sheet. Failure to complete and submit this technical bid response sheet as part of the bid submission shall lead to disqualification.						
	Category	Description	Quantity	Once Off Costs	Monthly Unit Costs	Total Monthly Costs
		Week		R.....	R.....	R.....
SUB-TOTALS				R.....	R.....	R.....
TOTAL BID PRICE (ONCE OFF COSTS + MONTHLY COSTS OVER 12 MONTHS)						R.....

*The total bid price is the bid price that must be placed on eProcurement (auction). No any other additional costs will be accepted for bid evaluation and adjudication purposes. The total duration may be less than 12 months. The IEC will pay only for the capacity, infrastructure and services used.

13 ANNEXURE B1: PRICING – INTERNET BANDWIDTH TABLE

13.1 The IEC requires a solution that can scale its internet bandwidth from around 100 Mbps.

<u>ANNEXURE B1: PRICING – INTERNET BANDWIDTH TABLE</u>			
	BANDWIDTH (Mbps)	Total Monthly Costs	Comments / Descriptions
1	100	R.....	
2	200	R.....	
3	300	R.....	
4	400	R.....	
5	500	R.....	
6	750	R.....	
7	1000	R.....	
8	2000	R.....	
9	5000	R.....	
10	10000	R.....	

14 ANNEXURE B2: PRICING – DATABASE STORAGE (SAN) TABLE

14.1 The IEC requires a solution that increase / decrease the storage allocated with due notification. Storage should be minimum Raid 5
Storage

<u>ANNEXURE B2: PRICING – DATABASE STORAGE (SAN) CAPACITY TABLE</u>			
	STORAGE (GB)	Total Monthly Costs	Comments / Descriptions
1	500	R.....	
2	1000	R.....	
3	2000	R.....	
4	3000	R.....	
5	4000	R.....	
6	5000	R.....	
7	7500	R.....	
8	10000	R.....	
9	20000	R.....	

Annexure C – Guideline Reference Table

Bidder must provide 3 References as per Section 5

EACH REFERENCE MUST CONTAIN THE FOLLOWING DETAILS AT THE LEAST

Customer name		
Contact Person		
Contact Details	Email	
	Telephone	
	Physical address	
Service Description	Product	
	Services Provided	
Services Provided	Budget (indicative)	
	Was this service provided in the last 12 months? (Y/N)	

Annexure D – CV Guideline

The Bidder must provide at least 2 Fortinet Engineers CVs with the necessary qualifications as per section 5. Bidders to make sure that the CVs supplied cover all the Fortinet products to be used

Please use the guideline below to provide the details of the resource(s) to be utilized to do the installation and configuration: Provision of the resource(s) details is compulsory. Failure to complete and submit shall lead to disqualification

Resource Name		
Number of Years' Experience on the products	Fortigate Firewalls	
	FortiWeb Web Application Servers	
	FortiDDoS	
	FortiADC	
Qualifications	Post Matric	
	Product Specific Qualifications	
Number of Installations and Configurations done	Fortigate Firewalls	
	FortiWeb Web Application Servers	
	FortiDDoS	
	FortiADC	

Annexure E – Bid Evaluation Criteria

Phase 1 – Key Qualifying Criteria

Company Name (Bidder):

Failure to comply with any of the requirements below will result in the bid being disqualified

No.	Description	Yes	No	Comments
1.	Bidder completed and submitted technical specification as per section 5.2 - Annexure A?			
2.	Bidder completed and submitted detailed pricing schedules as per section 7.2 - Annexure B, B1 and B2?			
3.	Bidder submitted three (3) contactable references as per section 5.11 - Annexure C?			
4.	Bidder completed and submitted relevant implementation resources experience as per section 5.5 - Annexure D?			
5.	The CVs provided cover all the Fortinet areas identified: Fortigate Firewalls, FortiWeb, FortiDDoS and FortiADC as per section 5.5?			
6.	Bidder submitted confirmation in the form of a letter that the bidder will be able to deliver solution and the required services within a period of 2 months as per section 9.1			
7.	Bidder submitted formal proof of ISPA registration in the form of a copy of a certificate of registration as per section 5.4			

Annexure E – Bid Evaluation Criteria

Phase 1 – Key Qualifying Criteria

Company Name (Bidder):

Failure to comply with any of the requirements below will result in the bid being disqualified

No.	Description	Yes	No	Comments
8.	Bidder provided a solution design detailing how the components fit together as per section 4.2.6			
9.	Bidder provided confirmation that the hosting facility is within a radius of 100 km from the IEC's National Office			
	Overall Phase 1 Outcomes:	<u>Assessment Comments:</u>		
		Bid qualifies for further consideration: (YES/NO):		

Annexure E – Technical Bid Evaluation Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
1.	Data Centre	Did the bidder provide racks for the computer and storage equipment to be provisioned? Has the bidder indicated the number of racks to be provided?			
2.		Has the bidder provided to install the structured cabling necessary to connect the equipment, storage and WAN links?			
3.		Has the bidder provided for redundant 10 GB switches or better for the environment?			
4.	Infrastructure as a Service (IaaS)	Has the bidder provided for installation and configuration of the 18 virtual servers (not including Database Servers) that have the following specification at a minimum? a) IEC to provide the image b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB			
5.		Has the bidder provided for installation and configuration of the 12 virtual servers (not including Database Servers) that have the following specification at a minimum?			

Annexure E – Technical Bid Evaluation					
Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		a) Windows Server 2016 b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB			
6.		Has the bidder provided for the installation and configuration of 3 x physical servers that have the following specifications at a minimum a) Image to be provided by the IEC b) CPU: 16 vCPU c) RAM: 128 GB d) Hard Disk Drive: 500 GB			
7.		Has the bidder provided for the installation and configuration of 2 Database physical servers that have following specifications at a minimum? a) Windows Server 2016 b) CPU: 32 vCPU c) RAM: 256 GB d) Hard Disk Drive: 500 GB			

Annexure E – Technical Bid Evaluation					
Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		e) Windows 2016 SQL Server Enterprise (IEC will provide the license)			
8.		Has the bidder provided for the installation and configuration of 1 TB usable minimum Raid 5 Storage? The IEC will configure SQL Always-On			
9.		Has the bidder provided for 2 virtual servers for the Security Operations Centre (SOC) that have the following specification at a minimum? a) IEC to provide image b) CPU: 16 vCPU c) RAM: 64 GB d) Hard Disk Drive: 500 GB			
10		Has the bidder committed to patching with the latest patches all Windows servers before being handed over to the IEC?			
11		Has the bidder provided a solution design that shows how the IaaS components fit into the Data Centre, Wide Area Network and Security? Included in the design should be such information as Virtualization platform, Storage information, network switches and server information			

Annexure E – Technical Bid Evaluation					
Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
12	Wide Area Network (WAN)	Has the bidder provided for a redundant internet line of at least 100 Megabit per second (Mbps)? Is the line scalable at a moment notice up to 10 Gigabit per second (Gbps).			
13		Has the bidder provided for a redundant connectivity line of at least 20 Mbps between the IEC's Internet Service Provider (ISP) and the hosting facility? Is the line scalable to about 140 Mbps?			
14		Has the bidder provided for a redundant connectivity line of at least 20 Mbps between the IEC's Internet Service Provider (ISP) and the hosting facility? Is this line scalable to about 140 Mbps?			
15		Has the bidder provided for a redundant connectivity line of at least 20 Mbps between the IEC's Internet Service Provider (ISP) and the Results Operations Centre? Is this line scalable to about 140 Mbps?			
16	SECURITY	Has the bidder provided for the deployment and configuration (including patching) of the Fortigate 1500D Firewalls?			
17		Has the bidder provided for the deployment and configuration			

Annexure E – Technical Bid Evaluation Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		of (including patching) the FortiWeb 300E Web Application Firewalls as per IEC requirements.			
18		Has the bidder provided for the deployment and configuration of (including patching) the FortiADC 1000F Application Delivery Controllers (ADC) or commonly known as Load Balancers?			
19		Has the bidder provided for the deployment and configuration (including patching) the FortiDDoS 1200D Appliances on the perimeter?			
20		Has the bidder provided for the deployment and configuration of (including patching) the FortiAnalyzer Appliances to collect logs in the environment?			
21		Has the bidder provided for a Fortinet resource to be stationed at the IEC for the week of the elections?			
22	SUPPORT MAINTENANCE	AND Has the bidder provided for remote access (Remote Desktop Support, SSH etc.) for the IEC staff to connect to the server environment over the connectivity provided?			
23		Has the bidder provided for support and maintenance during the duration of the hosting that includes daily, weekly and monthly backups of the configuration and database excluding			

Annexure E – Technical Bid Evaluation					
Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
		the SOC server? Has the bidder described support service levels?			
24		Has the bidder provided for monitoring of the environment during the duration of the hosting to ensure that 99.99% uptime is achieved especially during a few weeks leading to and including Election Day and about two weeks after Election Day? Thereafter normal uptime as provided by the hosting partner will apply			
25		Has the bidder provided for a 24 x 7 support service for about 1 week during Election Week			
26	GENERAL REQUIREMENTS	Is the environment proposed by the bidder providing for a flexible environment that allows the IEC to adjust up or down the hosting capacity in the form of deploying more / removing servers, or increasing / decreasing the capacities of the individual servers when the need arises? The same applies to the sizes of the data lines as well			
27		Is the hosting for a period not exceeding 12 months?			

Annexure E – Technical Bid Evaluation					
Phase 2 – Technical Qualifying Criteria					
	Category	Compliance Minimum Requirements	Bidder must indicate whichever is applicable		Bidder's response/technical specification for proposed solution – more details
			Yes	No	
	Overall Phase2 Outcomes:	<u>Assessment Comments:</u>			
		Bid qualifies for further consideration: (YES/NO):			

Phase 3 - Evaluation Based on the 80/20 Preference Point System (PPPFA Scoring)
Only bids that comply with the requirements and conditions of the tender and that meet the minimum criteria in the bid evaluation process as stipulated above will be considered for bid adjudication purposes. Adjudication of qualifying bids will be done in accordance with the 80/20 preference point system provided for in the Preferential Procurement Regulations, 2017. Pre-scoring of bids on the eProcurement system is illustrative only in respect of the potential outcome of the tender and serves to enhance transparency in the bidding process as well as to encourage competitive bidding and B-BBEE compliance. Qualifying bids will be scored in the final PPPFA scoring to conclude the bid evaluation process and final price and total bid points may change accordingly. The ranking of the qualifying bids in terms of the scoring will be confirmed. The order of ranking of the qualifying bids will, however, remain the same since price, B-BBEE status levels and preference points claimed will not change once the tender has closed.

Bid Evaluation Committee

	Name	Signature
1		
2		
3		
4		
5		