

Independent Communications Authority of South Africa

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APPOINTMENT OF A SUITABLE SERVICE PROVIDER TO SUPPLY, INSTALL, COMMISSION, CUSTOMISE AND MAINTAIN THE NUMBERING SYSTEM FOR A PERIOD OF FIVE YEARS FOR ICASA.ON AN 80/20 PPPFA 2000, PREFERENTIAL PROCUREMENT REGULATION: 2017.

The Independent Communications Authority of South Africa (ICASA) invites suitably qualified service providers to bid to supply, install, commission, customise and maintain the numbering system for a period of five years.

1.BACKGROUND

ICASA has legislative mandate to maintain and manage a Central Numbering Database System ("CNDB") in terms of section 68(5) of the Electronic Communications Act, Act 36 of 2005 ("the ECA") and the South Africa's Numbering Plan Regulations, Government Gazette No. 39861 ("the Regulations") dated 24 March 2016. The purpose of CNDB is to assist the Authority in the effective and efficient management of number resources to make allocations, assignments, reservations, reclamations, receiving returned numbering resources, assessment on number resource applications, analysis of the current usage patterns, forecast future demands, numbering resource audit, including Maritime Mobile Service Identity (MMSI).



2. SCOPE OF WORK

To supply, install, commission, customise and maintain the numbering system for a period of 5 years.

3. BID SPECIAL CONDITIONS AND TECHNICAL REQUIREMENTS

- 3.1. The terms of reference for this bid will be evaluated on three levels, which are:
 - 3.1.1 Level 1: Mandatory special conditions.
 - 3.1.2 Level 2: Functionality; and
 - 3.1.3 Level 3: Price and BBBEE Level.

3.2. Mandatory SPECIAL Conditions:

The table below lists special mandatory conditions that the Bidder must cover:

1.	Special Condition				
	Bidders Capacity to Develop the Numbering Sy	ystem			
	The Bidder must provide a written undertaking on their letterhead that they have capability to develop, supply, install, commission, customise and maintain the numbering resource system for a period of 5 years in terms of South Africa's	Comply	Not Compliant		
	Numbering Plan Regulation and that the bidder has provided or is currently providing similar services for the past 8 years. The undertaking must be signed by the Bidder's senior official authorised to commit the Bidder on such matters.				
2.	Special Condition				
	System Blueprints and User Manual				
	The Bidder must provide a written undertaking on their letterhead to provide the developed	Comply	Not Compliant		



The	1	
system's blueprints and user manual. The		
undertaking must be signed by the Bidder's		
senior official authorised to commit the Bidder on		
such matters.		
Special Condition		
System Acceptance		
The bidder must provide a written undertaking	Comply	Not
they will ensure acceptance signoff of each		Complian
module supplied, installed, customised, and		
commissioned during the project, including all		
completed modules are working at the time when		
the whole system is accepted for duration of the		
contract. The undertaking must be signed by the		
Bidder's senior official authorised to commit the		
Bidder on such matters.		
Special Condition		
Quality Management System (QMS)	Committee	Not
Quality Management System (QMS) The Bidder must provide a written undertaking on	Comply	Not
Quality Management System (QMS) The Bidder must provide a written undertaking on their letterhead that the numbering system they	Comply	
Quality Management System (QMS) The Bidder must provide a written undertaking on their letterhead that the numbering system they provide is designed, developed, and implemented	Comply	
Quality Management System (QMS) The Bidder must provide a written undertaking on their letterhead that the numbering system they provide is designed, developed, and implemented according to software development standards	Comply	
Quality Management System (QMS) The Bidder must provide a written undertaking on their letterhead that the numbering system they provide is designed, developed, and implemented according to software development standards such as the ISO 9001/ IEC 12207. The	Comply	
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ICASA as the sole owner of the system and its	
functions and capabilities upon expiry of the	
contract. The successful bidder will provide	
information and all related documentation pertaining to the system and its functions.	

3.3 Numbering System Functional Requirements

The table below lists Numbering System Functional Requirements that the bidder must cover:

1.	Functional Requirement		
	Application for Number Resources		
	Licensees will be able to apply online for the number resource and returns via web facing portal for licensees – enablement of self-service.	Comply	Not Compliant
2.	Functional Requirement		
	Application for Number Resources		
	Allocations of numbering resources to licensees individually or in blocks including conditions attached to the Assignment and activation dates.	Comply	Not Compliant
3.	Functional Requirement		
	Application for Number Resources		
	Tracking of submitted numbering applications by licensees, and the status of active numbers on	Comply	Not Compliant
		I	



7.	Functional Requirement		
	assignments, reservations, reclamations, and activations.		
	Assignment and indicating to whom the resources are allocated, times, dates and history of		
	reservation, withdrawals, or reclamations.		
	Provide the status of primary assignment,		
	Historical Data for the Number Resources		
6.	Functional Requirement		
	applications via the ICASA Public Website.		
	licensees will be able to view number resources allocated to them and the status of their		
	through a public portal to allow licensees to check the status of numbering records. The		Complian
	Access to query available number resource	Comply	Not
	Application for Number Resources		
5.	Functional Requirement		
	validation/ approval of applications on different levels of the workflow;		Complian
	Managed process-driven evaluation and	Comply	Not
	Application for Number Resources		
4.	Functional Requirement		



	licensees no longer need or use.		Compliant
	Internal Application Workflow for Number Re Capability to return number resource that the	1	Not
10.	Functional Requirement		
	of the number resources on the numbering system.		
	Capability to allow users to analyse and process number resource application, to search for free numbers, register or reserve or make allocations	Comply	Not Compliant
	Internal Application Workflow for Number Re	sources	
9.	Functional Requirement		
	process.		
	Notifications when applications are received, assigned to the users, and submitted for approval process.	Comply	Not Compliant
	Internal Application Workflow for Number Re	T	Not
8.	Functional Requirement		
			,
	and annually.		
	all the above number resource reports periodically, e.g., Weekly, Monthly, Quarterly,		
	current usage patterns, forecast future demands, number resource audit, and capability to perform		
	national destinations codes, assessment on number resource applications, analysis of the		
	Utilisation levels of number resource, analysis of number resource usage, nationally and as per		Compliant



11.	Functional Requirement			
	Internal Application Workflow for Number Resources			
	Capability to decline, approve or communicate additional information to licensees.	Comply	Not Complian	
12.	Functional Requirement			
	External Access to the Number System			
	The Web Service Server will be configured within the ICASA demilitarized zone (DMZ) to enable licensees' access to the public facing component	Comply	Not Complian	
	of the system while the back-end component of the system remains secured within ICASA's private internal network.			
13.	Functional Requirement			
	Enquiries on for Number Resources			
	Capability to view allocated numbers in the system in a list view of all number ranges allocated in read mode only using the name of		Not Complian	
	licensees and the number ranges, and			
	information of the overall numbering plans.			
14.				
14.	information of the overall numbering plans.			



15.	Functional Requirement		
	Communications via the system		
	The numbering system must allow for the generation of email alerts and escalations to simplify and help in monitoring adherence to set turnaround times and speed up processes whenever action is required on the pending applications, system changes, among others. Ability to provide for automated communication and generation of signed allocations, assignments, and reservations or its equivalent.	Comply	Not Complia
16.	Functional Requirement		
	Billing of application fees		
	Provide for numbering resource charging capabilities on different number range applications, create, calculate, and charge	Comply	Not Complia
	numbering applications at different dates, create, and send invoices for applications on all number		
	charges, provides for alert of receipts of new application invoices and provides alerts of receipts of proof of payment. The system should		
	be able to be synchronised or integrate with other ICASA financial system such as JD Edwards.		
17.	Functional Requirement		
	System Customisation (Number Types)		
	The bidder must customise the numbering system in terms of the South African Number Plan regulations. The system must among other	Comply	Not Complia
	requirement cater for mobile numbers, geographic numbers, non-geographic numbers,		



	toll free numbers, international signaling codes, national signaling codes, shorts codes, Maritime Mobile Service Identity (MMSI) and routing codes.		
18	Functional Requirement		
	System Backup ability.		
	Ability to provide own backup information.	Comply	Not Complia
19	Functional requirement		
	System availability		
	The Number Management system availability should be at least 97%. Based on availability levels specified, respondents shall provide a risk	Comply	Not Complia
	should be at least 97%. Based on availability levels specified, respondents shall provide a risk analysis of the proposed design solution, mean time between failure (MTBF) of the overall	Comply	
	should be at least 97%. Based on availability levels specified, respondents shall provide a risk analysis of the proposed design solution, mean	Comply	
	should be at least 97%. Based on availability levels specified, respondents shall provide a risk analysis of the proposed design solution, mean time between failure (MTBF) of the overall system, and relevant MTBF for essential hardware and software elements. The target above is to include scheduled maintenance outages but exclude any system hardware or software upgrade. The method of calculation shall	Comply	
	should be at least 97%. Based on availability levels specified, respondents shall provide a risk analysis of the proposed design solution, mean time between failure (MTBF) of the overall system, and relevant MTBF for essential hardware and software elements. The target above is to include scheduled maintenance outages but exclude any system hardware or software upgrade. The method of calculation shall be clearly outlined. The bidder must provide typical Mean Time to Repair (MTTR), including	Comply	
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	should be at least 97%. Based on availability levels specified, respondents shall provide a risk analysis of the proposed design solution, mean time between failure (MTBF) of the overall system, and relevant MTBF for essential hardware and software elements. The target above is to include scheduled maintenance outages but exclude any system hardware or software upgrade. The method of calculation shall be clearly outlined. The bidder must provide typical Mean Time to Repair (MTTR), including times for significant software components recovery. They shall also specify what types of	Comply	Not



20.	Functional requirement		
	System Security		
	System security management process and controls to protect system administrators, networked systems, licensees, and the Authority.	Comply	Not Compliant
	Provision of retaining valuable data for maintenance, security, and regulatory reasons for at least 12/24 months.		
21.	Functional requirement		
	Support & Maintenance		
	Service provider will be required to maintain and support the system for the duration of the contract.	Comply	Not Compliant
22.	Functional requirement		
	Upgrades		
	The bidder will perform the system upgrades and maintain the numbering system in accordance with the service level agreement for a minimum	Comply	Not Compliant
	period of 5years.		
23.	Functional requirement		
	Data Clean-up and transfer		
	The bidder will perform data clean up and transfer it to the newly supplied numbering system. The data contained in the old numbering	Comply	Not Compliant
	system and excel-sheet dates to 2005. The amount of date is at five (5) gigabytes on 15 July		



	2021 with an ongoing growth as the Authority		
	makes allocations to licensees on requests.		
24	Functional requirement		
	i diretional requirement		
	Data Clean-up and transfer		
	The bidder will include in their project plan a	Comply	Not
	schedule to allow the transfer of data to be	Comply	Complian
	audited and verified that all old data has been		Compilar
	correctly transferred to the newly supplied		
	numbering system. The transfer process must be		
	accepted after the audit and verification during		
	the testing phase and at the handover phase by		
	ICASA		
25.	Functional requirement		
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25.	Functional requirement User training		
25.	User training	Comply	Not
25.	User training Provision of users training for the numbering		Not
25.	User training Provision of users training for the numbering system shall be performed end to end on all		
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Responsibility Matrix, Risks and Contingency Plans in terms of project management principles. 28. Functional requirement The due diligence must include the evaluation Satisfactory delivery, installation, training, Comply Not				
system used by the Authority, sharing of data between central reference database and the numbering database. 27. Functional requirement Project Plan A project plan with Milestones, Work Breakdown Structure, Schedule, Budget allocations, Responsibility Matrix, Risks and Contingency Plans in terms of project management principles. 28. Functional requirement The due diligence must include the evaluation Satisfactory delivery, installation, training, testing, and commissioning. Satisfactory System performance. Adequate after-sales maintenance		the software and hardware can interwork with		
between central reference database and the numbering database. 27. Functional requirement Project Plan A project plan with Milestones, Work Breakdown Structure, Schedule, Budget allocations, Responsibility Matrix, Risks and Contingency Plans in terms of project management principles. 28. Functional requirement The due diligence must include the evaluation Satisfactory delivery, installation, training, testing, and commissioning. Satisfactory System performance. Adequate after-sales maintenance		current ICASA IT infrastructure, current sub-		
27. Functional requirement Project Plan A project plan with Milestones, Work Breakdown Structure, Schedule, Budget allocations, Responsibility Matrix, Risks and Contingency Plans in terms of project management principles. 28. Functional requirement The due diligence must include the evaluation Satisfactory delivery, installation, training, testing, and commissioning. Satisfactory System performance. Adequate after-sales maintenance		system used by the Authority, sharing of data		
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	28.	The due diligence must include the evaluation Satisfactory delivery, installation, training, testing, and commissioning. Satisfactory System performance. Adequate after-sales maintenance		
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4. Period of assignment

4.1. All work is to be carried out following the schedule as agreed with the Authority:

The system is expected to be fully functional within a minimum period of six (6) months and a maximum period of twelve months (12) months from the contract's date of conclusion. The system must be fully functional at the end of the period.

5. Briefing Session

There will be a virtual non-compulsory briefing session on Microsoft Teams.

6. Bid evaluation criteria

The bid will be advertised for 21 calendar days in the ICASA website and the e-tender portal on an 80/20 procurement principle.

Bidders will be evaluated on; (a) submission of the required documents, (b) functionality and (c) price/ bb-bee. Only bidders who meet the cut-off score of 80 points out of 100 points for functionality will be considered further for price evaluation. All bid proposals submitted will be evaluated following the 80/20 procurement principle as prescribed by National Treasury Regulations.

No	Category	Weight
Α.	Price	80
В.	BBBEE Status Level Contribution	20
	TOTAL	100
C.	Functionality: Pre-qualification criteria	



		T
1.	Central Numbering Database methodology	
	5 = Methodology includes all the information below:	
	≻All functional requirements.	
	4 = Methodology includes all the information below:	
	➤25 functional requirement excluding item 16 of the functional requirements.	
	3 = Methodology includes all the information below:	
	➤24 functional requirements excluding item 16 and 15 of the functional requirements.	25
	2 = Methodology includes all the information below:	
	➤a maximum of 23 functional requirements excluding item 15 and 16 and any additional functional requirement.	
	1 = Methodology includes all the information below:	
	➤a maximum of 22 functional requirements excluding item 15 and 16 and any two additional functional requirements.	
2.	Provide a Project Plan in terms of project	
	management principles.	
	5 = A project plan with Milestones, Work Breakdown Structure, Schedule, Budget allocations, Responsibility Matrix, Risks and Contingency Plans.	15
	4 = A project plan with Milestones, Work Breakdown Structure, Schedule, Budget	



4.	Provide skills transfer plan for fifteen (15)	15
	0 = No submission of testimonial reference letters. Unverifiable services supplied will constitute disqualification of the bidder.	
	2 = Provide one (1) testimonial reference letter about service supplied on letterheads.	
	3 = Provide two (2) testimonial reference letters about services rendered.	
	4 = Provide three (3) testimonial reference letters about service supplied on letterheads.	15
	5 = Provide more four (4) testimonial reference letters of service supplied on letters heads.	
	past five years. The reference letters must have contacts details such as the landline, mobile number, email address and the person to be contacted.	
	letterheads of similar service supplied in the	
3.	0 = No project plan submitted Provide reference letters with company	
	2 = A project plan with only a schedule.	
	3 = A project plan with Milestones, Work breakdown structure, schedule, Budget allocation and excludes Responsibility Matrix, risks and contingency plan.	
	allocations, Responsibility Matrix and excludes risks and contingency plan.	



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	ICASA staff members with timeframes.	
	5 = A skills transfer plan which includes training,	
	timeframes, objectives and working	
	methodology.	
	4 = A skills transfer plan which includes training,	
	timeframes, objectives and without working	
	methodology	
	3 = A skills transfer plan which includes training,	
	timeframes without objectives and working	
	methodology	
	2 = A skills transfer plan which includes objectives	
	only.	
	1 = No skills transfer plan submitted	
5.	Provide previous experience reports showing	
	a successfully supplying, installing,	
	customisation and commissioning of the	
	numbering resource database system in	
	region 1 of the ITU. NB:(reports must have a	
	high-level detail of work performed, the name	
	of the country/ regulator or Administrator to	15
	which services where rendered, the	
	timeframes and the status of the database	
	showing whether it is a server-based or web-	
	based system)	
	5 = five or more reports that included supply,	
	install, commission and maintenance of the	
	country's numbering resources system.	



	4 = four reports that included supply, install, commission and maintenance of the country's numbering resources system.	
	3 = three reports that included supply, install, commission and maintenance of the country's numbering resources system.	
	 2 = two reports that included supply, install, commission and maintenance of the country's numbering resources system. 1 = no submission of sample reports 	
6.	Experience and qualifications	
	5 = More than 10 'years' experience and more than 4 personnel with relevant qualifications such as IT project management certifications and IT Development System Certification	
	4 = 8 'years' experience and at least 4 candidates with relevant qualifications	15
	3 = 5 'years' experience and at least 3 candidates with relevant qualifications	
	2 = 3 'years' experience and 2 candidates with appropriate qualifications.	
	1 = 1 year experience and 1 candidate with relevant qualifications.	



TOTAL FOR FUNCTIONAL PRE-QUALIFICATION	
CRITERIA.	100
Grand Total: 100	100
Minimum cut-off point: 80	