

## **BID CLARIFICATION: QUESTIONS AND ANSWERS**

BID NUMBER:GAAL/111/2024/2025DESCRIPTION:PROVISIONING,INSTALLATIONANDCONFIGURATION/COMMISSIONING OF TELEPHONE LINES, BACKUPANDDATA LINE.

| NO | QUESTIONS  | GAAL RESPONSES  |
|----|--|---|
|    | <ol> <li>Why are they switching from<br/>digital to analogue (Is it based on<br/>the CAA regulation)?</li> <li>Do they also require digital ?</li> </ol> | <ol> <li>The conversion from digital to<br/>analogue connectivity will be<br/>implemented at the tower only, as<br/>the current infrastructure/system<br/>used by the tower is analogue.<br/>Call recording functionality is a<br/>requirement for all the lines, as<br/>per SACAA regulations.</li> <li>Digital infrastructure/system with<br/>call recording functionality must<br/>be implemented at the following<br/>buildings (JOC, New Terminal,<br/>Fire and Rescue buildings)<br/>excluding the tower which<br/>requires Analogue system with<br/>call recording function, as per</li> </ol> |
|    |  | specification requirements.   |



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| 3. | . What is the    | existing   | intercom   | 3.                   | There is no existing intercom  |
|----|------------------|------------|------------|----------------------|--|
| sy | ystem and        | Which      | Intercom   |                      | system in place. The supplier  |
| Sy | ystem is require | ed?        |            |                      | must provide 2 switchboard   |
|    |                  |            |            |                      | devices/phones with an   |
|    |                  |            |            |                      | expansion module for the new   |
|    |                  |            |            |                      | terminal building-information desk                                   |
|    |                  |            |            |                      | and the control room at Fire and                                     |
|    |                  |            |            |                      | Rescue building. Intercom system                                     |
|    |                  |            |            |                      | at information desk-new terminal                                     |
|    |                  |            |            |                      | building and control room at Fire                                    |
|    |                  |            |            |                      | and Rescue building should have                                      |
|    |                  |            |            |                      | a functionality for  |
|    |                  |            |            |                      | announcements/making   |
|    |                  |            |            |                      | announcements using speakers   |
|    |                  |            |            |                      | and all the lines/individual phones                                  |
|    |                  |            |            |                      | should have a functionality for                                      |
|    |                  |            |            |                      | paging/intercom.   |
|    |                  |            |            |                      |  |
|    |                  |            |            | 4.                   | The current PBX must not be  |
|    |                  |            |            |                      | considered as a baseline for this                                    |
|    |                  |            |            |                      | solution.  |
| 4. | . What is the cu | urrent PB  | Х?         | _                    | No there is no need for call   |
|    |                  |            |            | ວ.                   | No, there is no need for call  |
| 5  | Do thou pood     |            | ontro?     |                      | center.  |
| 5. | . Do they need   | a Call Ce  | entre ?    | 6                    | Additional talaphana linaa will ba                                   |
|    |                  |            |            | 0.                   | Additional telephone lines will be installed, as and when requested, |
| 6. | . For Additional | l telephor | ne lines - |                      | as per specification requirements.                                   |
|    |                  |            |            |                      |  |
|    |                  |            |            |                      |  |
|    |                  |            |            |                      |  |
|    |                  |            | Page       | <b>2</b> of <b>7</b> |  |



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7. Based on the 100mbps (do they require 100mbps at each site). Electrical, JOC, Safety, Maintenance, Fire and Rescue Section, (old and new terminal Buildings?

8. What is the total number of old and new terminal buildings?

9. When does the contract come to an end with their existing service provider?

10. How many Point to Point ( Microwave Link) require to be installed and what capacity / Mbps is required at each site. Will there be a specific frequency required based on the CAA?

- No, 100 MBPS dataline will be shared amongst all the buildings, as per specification requirements.
- Old terminal building consists of three (3) separate buildings (Finance, HR and SCM) and new terminal building consist of only one main building.
- The current contractual agreement of a PBX is within RT15-2021 transversal contract, which can be terminated with a Three (3) months' notice.
- 10. It must be at the supplier discretion on how many point-topoint links to use based on their offered solution in line with the specification requirement. There is no specific frequency per SACAA regulations, however, the supplier must consider that the airport is a national key point, next to the military base, where there is a lot of interference of signals.



| links be wireless or fibre?requirements.2. What maintenance and<br>support required? Only on<br>VoIP system or the entire<br>network?2. Maintenance and support will be<br>required on the entire solution to be<br>implemented by the supplier.3. What is the existing point-to-<br>point medium used between<br>SCM, HR, Finance and<br>Terminal building?3. Wireless point-to-point connectivity<br>with a mixture of cambium antennas and<br>beams.4. Should the firewalls and<br>switches be configured to<br>cater for the new VoIP<br>system? Should the above<br>be supported and<br>maintained as well (firewalls<br>and switches)?4. The is a service provider in place, for<br>provisioning and maintenance of firewall.<br>The Sophos firewall and switches in<br>place are already configured, and the<br>supplier will be provided with subnets for<br>VOIP.3.1. Does the current building<br>have an intercom system?1. No, there is no<br>intercom system in<br>place.   |    |                                   | Interference of signals must be            |
|--|----|-----------------------------------|--|
| 11. How many Network Points are<br>required?11. It must be at the supplier<br>discretion based on their offered<br>solution in line with the<br>specification requirement.2.1. Should the point-to-point<br>links be wireless or fibre?<br>2. What maintenance and<br>support required? Only on<br>VoIP system or the entire<br>network?1.Fiber as per specification<br>requirements.3.What is the existing point-to-<br>point medium used between<br>SCM, HR, Finance and<br>Terminal building?1. Wireless point-to-point connectivity<br>with a mixture of cambium antennas and<br>beams.4.Should the firewalls and<br>switches be configured to<br>cater for the new VoIP<br>system? Should the above<br>be supported and<br>maintained as well (firewalls<br>and switches)?4. The is a service provider in place, for<br>provisioning and maintenance of firewall.<br>The Sophos firewall and switches in<br>place are already configured, and the<br>supplier will be provided with subnets for<br>VOIP.3.1. Does the current building<br>have an intercom system?1. No, there is no<br>intercom system in<br>place.  |    |                                   | considered on frequency to be              |
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| <ul> <li>2. 1. Should the point-to-point links be wireless or fibre?</li> <li>2. What maintenance and support required? Only on VoIP system or the entire network?</li> <li>3. What is the existing point-topoint medium used between SCM, HR, Finance and Terminal building?</li> <li>4. Should the firewalls and switches be configured to cater for the new VoIP system? Should the above be supported and maintained as well (firewalls and switches)?</li> <li>3. 1. Does the current building have an intercom system?</li> <li>1. Fiber as per specification required on the entire solution to be implemented by the supplier.</li> <li>2. Maintenance and support will be required on the entire solution to be implemented by the supplier.</li> <li>3. What is the existing point-topoint connectivity with a mixture of cambium antennas and beams.</li> <li>4. The is a service provider in place, for provisioning and maintenance of firewall. The Sophos firewall and switches in place are already configured, and the supplier will be provided with subnets for VOIP.</li> <li>3. 1. Does the current building have an intercom system?</li> </ul>  |    | 11. How many Network Points are   | solution in line with the                  |
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| <ul> <li>2. What maintenance and support will be support required? Only on VoIP system or the entire network?</li> <li>3. What is the existing point-topoint medium used between SCM, HR, Finance and Terminal building?</li> <li>4. Should the firewalls and switches be configured to cater for the new VoIP system? Should the above be supported and maintained as well (firewalls and switches)?</li> <li>3. 1. Does the current building have an intercom system?</li> <li>1. No, there is no intercom system in place.</li> </ul>   | 2. | 1. Should the point-to-point      | 1.Fiber as per specification               |
| <ul> <li>support required? Only on VoIP system or the entire network?</li> <li>What is the existing point-topoint medium used between SCM, HR, Finance and Terminal building?</li> <li>Should the firewalls and switches be configured to cater for the new VoIP system? Should the above be supported and maintained as well (firewalls and switches)?</li> <li>Does the current building have an intercom system?</li> </ul>   |    | links be wireless or fibre?       | requirements.                              |
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| <ul> <li>SCM, HR, Finance and Terminal building?</li> <li>Should the firewalls and switches be configured to cater for the new VoIP system? Should the above be supported and maintained as well (firewalls and switches)?</li> <li>Does the current building have an intercom system?</li> </ul>  |    | 3. What is the existing point-to- | 3. Wireless point-to-point connectivity    |
| Terminal building?4. Should the firewalls and<br>switches be configured to<br>cater for the new VoIP<br>system? Should the above<br>be supported and<br>maintained as well (firewalls<br>and switches)?4. The is a service provider in place, for<br>provisioning and maintenance of firewall.<br>The Sophos firewall and switches in<br>place are already configured, and the<br>supplier will be provided with subnets for<br>VOIP.3.1. Does the current building<br>have an intercom system?1. No, there is no<br>intercom system in<br>place.  |    | point medium used between         | with a mixture of cambium antennas and     |
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| <ul> <li>system? Should the above be supported and maintained as well (firewalls and switches)?</li> <li>1. Does the current building have an intercom system?</li> <li>1. No, there is no intercom system in place.</li> </ul>  |    | switches be configured to         | provisioning and maintenance of firewall.  |
| besupportedandsupplier will be provided with subnets for<br>VOIP.3.1. Does the current building<br>have an intercom system?1. No, there is no<br>intercom system in<br>place.  |    | cater for the new VoIP            | The Sophos firewall and switches in        |
| maintained as well (firewalls<br>and switches)?VOIP.3.1. Does the current building<br>have an intercom system?1. No, there is no<br>intercom system in<br>place.   |    | system? Should the above          | place are already configured, and the      |
| and switches)?   |    | be supported and                  | supplier will be provided with subnets for |
| 3.     1. Does the current building have an intercom system?     1. No, there is no intercom system in place.  |    | maintained as well (firewalls     | VOIP.                                      |
| have an intercom system? intercom system in place.   |    | and switches)?                    |  |
| have an intercom system? intercom system in place.   |    |                                   |  |
| have an intercom system? intercom system in place.   | 3  | 1 Does the current building       | 1 No there is no                           |
| place.   | 5. |                                   |  |
|  |    | have an intercom system?          |  |
|  |    |                                   |  |
| Page 4 of 7<br>• GATEWAY TO THE REST OF AFRICA •   |    |                                   |  |



|    | 2. Does the intercom have to          | 2. Yes, the intercom must be  |
|----|---------------------------------------|---|
|    | integrate with or work                | integrated with the new   |
|    | through the new PABX /                | PABX/Telephone system.  |
|    | Telephone system?                     |   |
|    | 3. Do you only need a voice           | 3. Call recording functionality must be enabled on all the lines for both inbound |
|    | recording on outgoing and             | and outbound calls, as per the  |
|    | incoming calls, or do you             | specification requirements.   |
|    | want to voice record the              |   |
|    | extensions as well?                   |   |
|    | 4. For those buildings which          | 4. Photos of the server cabinets cannot   |
|    | have existing network                 | be provided for security reasons.   |
|    | infrastructure- please could          |   |
|    | photos of the cabinets be             |   |
|    | sent to us.                           |   |
| 4. | 1. Are you open to using another      | 1. No, the current firewall in place is   |
|    | firewall service other than Sophos?   | Sophos, as per GAAL's current ICT   |
|    |                                       | infrastructure.   |
|    | 2. Would you be interested in         | 2. No, the requirement is for on-premises   |
|    | Mobile PBX as well and call           | solution for compliance with SACAA  |
|    | recording.                            | regulations, as per specification   |
|    |                                       | requirements.   |
| 5. | 1. Do we need to provide<br>Teltrace? | 1. The provider must quote as per   |
|    |                                       | specification requirements.   |
|    |                                       |   |
|    |                                       |   |



|    | 2. How may PSTN line (Please provide all DN numbers) currently have and how many users? | 2. GAAL does not have PSTN lines, the supplier will be providing a new solution as per specification requirements. |
|----|---|--|
| 6. | 1. Please provide with SACAA regulation being referred to?                              | Find the below SACAA regulation.<br>172.03.4 FACILITY<br>REQUIREMENTS  |
|    |   | 172.03.4. Section 6.(9)<br>www.caa.co.za<br>Included below is snap from the SACAA<br>webpage.                      |





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| CIVIL AVIATION<br>AUTHORITY<br>6. Aerodrome control tower<br>An aerodrome control tower shall have –<br>(1) headsets;<br>(2) microphones;<br>(3) transceivers;<br>(4) speakers;<br>(5) radio selector panel;<br>(6) telephone;<br>(7) intercom;<br>(8) auto-switch headset/speaker;<br>(9) recorder (radio and telephone);<br>(10) power;<br>(10) power;<br>(11) back-up power;<br>(12) wind speed and direction display;<br>(13) altimeter setting indicator;<br>(14) clock. in accordance with section 10 below;<br>(15) aerodrome lighting panel;<br>(16) navaid(s) monitor panel;<br>(17) lighting. including emergency lights; | A        | A   |
|---|----------|---|
| An aerodrome control tower shall have - (1) headsets; (2) microphones; (3) transceivers; (4) speakers; (5) radio selector panel; (6) telephone; (7) intercom; (8) auto-switch headset/speaker; (9) recorder (radio and telephone); (10) power; (11) back-up power; (12) wind speed and direction display; (13) altimeter setting indicator; (14) clock. in accordance with section 10 below; (15) aerodrome lighting panel; (16) navaid(s) monitor panel;   |          |   |
| <ol> <li>headsets;</li> <li>microphones;</li> <li>transceivers;</li> <li>speakers;</li> <li>radio selector panel;</li> <li>telephone;</li> <li>intercom;</li> <li>auto-switch headset/speaker;</li> <li>recorder (radio and telephone);</li> <li>power;</li> <li>back-up power;</li> <li>back-up power;</li> <li>wind speed and direction display;</li> <li>altimeter setting indicator;</li> <li>clock. in accordance with section 10 below;</li> <li>back-up lighting panel;</li> <li>navaid(s) monitor panel;</li> </ol>   | 6. A     | erodrome control tower                      |
| <ul> <li>(2) microphones;</li> <li>(3) transceivers;</li> <li>(4) speakers;</li> <li>(5) radio selector panel;</li> <li>(6) telephone;</li> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | An aeroo | Irome control tower shall have -            |
| <ul> <li>(3) transceivers;</li> <li>(4) speakers;</li> <li>(5) radio selector panel;</li> <li>(6) telephone;</li> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | (1)      | headsets;                                   |
| <ul> <li>(4) speakers;</li> <li>(5) radio selector panel;</li> <li>(6) telephone;</li> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (2)      | microphones;                                |
| <ul> <li>(5) radio selector panel;</li> <li>(6) telephone;</li> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | (3)      | transceivers;                               |
| <ul> <li>(6) telephone;</li> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (4)      | speakers;                                   |
| <ul> <li>(7) intercom;</li> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (5)      | radio selector panel;                       |
| <ul> <li>(8) auto-switch headset/speaker;</li> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | (6)      | telephone;                                  |
| <ul> <li>(9) recorder (radio and telephone);</li> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | (7)      | intercom;                                   |
| <ul> <li>(10) power;</li> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (8)      | auto-switch headset/speaker;                |
| <ul> <li>(11) back-up power;</li> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   | (9)      | recorder (radio and telephone);             |
| <ul> <li>(12) wind speed and direction display;</li> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (10)     | power;                                      |
| <ul> <li>(13) altimeter setting indicator;</li> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>  | (11)     | back-up power;                              |
| <ul> <li>(14) clock. in accordance with section 10 below;</li> <li>(15) aerodrome lighting panel;</li> <li>(16) navaid(s) monitor panel;</li> </ul>   |          |   |
| <ul><li>(15) aerodrome lighting panel;</li><li>(16) navaid(s) monitor panel;</li></ul>  | (13)     | altimeter setting indicator;                |
| (16) navaid(s) monitor panel;   | (14)     | clock. in accordance with section 10 below; |
|   |          |   |
| (17) lighting. including emergency lights;  |          |   |
|   | (17)     | lighting. including emergency lights;       |

