



SOUTH AFRICAN BROADCASTING SABC SOC LIMITED
("the SABC")

REQUEST FOR PROPOSAL (RFP)

RFP NUMBER: RFP/RBF/2022/43

RFP TITLE: PROVINCIAL MAIN CONTROL UPGRADE (TURNKEY SOLUTION)

EXPECTED TIMEFRAME

BID PROCESS	EXPECTED DATES
Bid Advertisement Date	09 September 2022
Bid Documents Available From	National Treasury's tender portal (http://www.etenders.gov.za) SABC Website (http://www.sabc.co.za/sabc/tenders/)
Compulsory Briefing Session	Date: 23 September 2022 Time: 10:00 am to 11:00 pm Venue: Microsoft Teams
Venue / Link for virtual Briefing Session	Download Teams Join on the web Learn More Meeting options
Bid Closing Date and Time	07 October 2022 @ 12:00 noon
Contact details	tenderqueries@sabc.co.za

The SABC retains the right to change the timeframe whenever necessary and for whatever reason it deems fit.

BIDS DELIVERY

SABC's Tender Box
SABC Office
Radio Park
Henley Road; Auckland
Johannesburg
or
E-mail: RFPSubmissions@sabc.co.za

ENSURE THAT YOUR LINKS FOR WE-TRANSFER AND GOOGLE DROP BOX SHOULD EXPIRE AFTER 30 DAYS FROM THE DAY OF SUBMISSION.

During the COVID-19 pandemic, bidders may submit bids in the tender box or electronically until further notice. Refer to Document A for Conditions to be observed when bidding.

Late Bid submissions will not be accepted for consideration by the SABC.

1. PRE- QUALIFICATION CRITERIA

- 1.1 All bidders must submit evidence (i.e., **teaming agreement** between main contractor and subcontractor) of commitment to sub-contract a minimum of 30% of the value of the contract to certain designated groups as prescribed in the PPPFA guidelines 2017 (as amended) see section 8 of document **G** of this RFP document.
- 1.2 The successful bidder must sub-contract at a minimum of 30% (of the value of the contract) to (one or more) to an EME or QSE which is at least 51% owned by:
- 1.2.1 black people;
 - 1.2.2 black people who are youth;
 - 1.2.3 black people who are women;
 - 1.2.4 black people with disabilities;
 - 1.2.5 black people living in rural or under develop areas or townships;
 - 1.2.6 black people who are military veterans;
 - 1.2.7 A cooperative which is at least 51% owned by black people

NON-SUBMISSION OF THE PREQUALIFICATION CRITERIA WILL RESULT IN AUTOMATIC DISQUALIFICATION.

2. MANDATORY DOCUMENTS

	Comply/ Not Comply
Portfolio of experience and contactable references – Bidder or OEM to provide/submit a minimum of Two (2) valid reference letters from clients operating in broadcasting environment where a full SMPTE ST2110 IP Router Infrastructure project was successfully implemented within the last five (5) years. Valid reference letters that will be considered MUST have the following: The scope of work conducted must include requirements as stated above. Must have the name of the client/owner with contact details (emails /telephone number(s).	
Valid letter(s) of authority or Partnership document from the Original Equipment Manufacturer/s (OEM) for each product supplied to distribute, resell and support the products within the boundaries of South Africa - (where applicable). The Letter/s must be valid at the closing date of the bid, must be on the letterhead of the OEM, and must state validation to distribute, resell and support the products within the boundaries of South Africa and be signed by an authorized official with their contact detail.	
The services required will include the design, supply, installation, integration and commissioning, culminating in a turnkey solution from a successful bidder. Should a bidder offer a product that belongs to another local bidder's portfolio, a letter of agreement from the official	

authorized local agent must be provided in which the official local agent undertakes to provide the after sales service and configuration of product on offer. (Non-compliance will deem bidder to be non-responsive)	
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NON SUBMISSION OF THE MANDATORY DOCUMENTS WILL RESULT IN AUTOMATIC DISQUALIFICATION

3. REQUIRED DOCUMENTS

- 3.1 SARS "Pin" to validate supplier's tax matters
- 3.2 Original or Certified copy of Valid BBEE Certificate (from SANAS accredited Verification Agency)
- 3.3 All EME's and 51% black Owned QSE's are only required to obtain a **sworn affidavit** on an annual basis, confirming the following;
 - 3.3.1. Annual Total Revenue of R10 Million or less (EME) or Revenue between R10 Million and R50 Million for QSE
 - 3.3.2. Level of Black Ownership

Note 1:

Verification Agencies and Auditors who are accredited by the IRBA (Independent Regulatory Board for Auditors) are no longer the 'approved regulatory bodies' for B-BBEE verification and therefore IRBA auditors are not allowed to issue B-BBEE certificates after 30 September 2016.

Note 2:

Any misrepresentation in terms of the above constitutes a criminal offence as set out in the B-BBEE act as amended.

- 3.4 Proof of Valid TV License Statement (Company's, Shareholders and all Directors'), or affidavit proving that company and/or officials are not in possession of TV licence. Verification will also be done by the SABC internally.
- 3.5 Certified copy of Company Registration Document that reflect Company Name, Registration number, date of registration and active Directors or Members.
- 3.6 Certified copy of Shareholders' certificates.
- 3.7 Certified copy of ID documents of the Directors or Members.
- 3.8 Last three years audited/reviewed financial statements OR the Companies Management Accounts.
- 3.9 Submit proof of Central Supplier Database (CSD) registration (Bidder must be registered with CSD in order to do business with the SABC)

NB: NO CONTRACT WILL BE AWARDED TO ANY BIDDERS WHOM THEIR TAX AND TV LICENCE MATTERS ARE NOT IN ORDER. NO CONTRACT WILL BE AWARDED TO ANY BIDDER WHO IS NOT REGISTERED ON THE SUPPLIER DATA BASE (CSD).

C O N T E N T S

DOCUMENT A: CONDITIONS TO BE OBSERVED WHEN BIDDING

DOCUMENT B: GENERAL CONDITIONS OF THE BID/PROPOSAL

DOCUMENT C: QUESTIONNAIRE

DOCUMENT D: DECLARATION OF INTEREST

DOCUMENT E: FUNCTIONALITY REQUIREMENTS

DOCUMENT F: CONFIDENTIALITY

DOCUMENT G: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL
PROCUREMENT REGULATIONS 2017- SBD 6.1

DOCUMENT H: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT
PRACTICES - SBD 8

DOCUMENT I: CERTIFICATE OF INDEPENDENT BID DETERMINATION SBD 9

DOCUMENT J: ACCEPTANCE OF CONDITIONS OF BID

DOCUMENT K: VENDOR FORM (SABC SUPPLIER/VENDOR REGISTRATION FORM) -
(ATTACHED SEPARATELY) / PLEASE ALSO REGISTER ON
CENTRALISED DATA BASE - <https://secure.csd.gov.za>

DOCUMENT A

CONDITIONS TO BE OBSERVED WHEN BIDDING

1.0 LODGING OF PROPOSALS

1.1 Bidders are required to complete and sign the RFP Document and initial all pages (including proposal and brochures).

1.2 During the COVID-19 pandemic, bidders may submit bids in the tender box or electronically until further notice as follows:

1.2.1. Tender box submission

Bids submitted in the tender box must adhere to the following:

- Bids must be submitted in one (1) original, two (2) copies of the original and 1 (one) soft copy (CD) or memory stick, by hand and be enclosed in a sealed envelope marked distinctly with the RFP number. All soft copies should be in PDF format and must contain proposal, all completed forms, and attachments. This envelope must indicate the Bid number and the name and delivery address of the Bidder.

1.2.2. Electronic submission:

Bids submitted electronically must adhere to the following:

- The single point of entry is RFPSubmissions@sabc.co.za.
- Electronic submissions must be submitted in a PDF format that is protected from any modifications, deletions, or additions.
- Financial/pricing information should be presented in a **separate** attachment from the Technical/Functional Response information. The onus is on the Bidder to ensure that all mandatory and required documents are included in the electronic submission.
- All electronic submissions should be prominently marked with the full details of the tender in the email subject line namely Bidder's Name, Tender No and Tender Title.
- Bidders are advised to email electronic submissions at least thirty minutes before the bid closing time to cater for any possible delay in transmission or receipt of the bid. The onus is on bidder to ensure that the bid is submitted on time via email
- Tender submission emails received after submission date and time will be declared late bid submissions and will not be accepted for consideration by SABC.

1.4 The SABC will not be responsible for any failure or delay in the email transmission or receipt of the email including but not limited to:

- Receipt of incomplete bid
- File size
- Delay in transmission or receipt of the bid
- Failure of the Bidder to properly identify the bid
- Illegibility of the bid; or
- Security of the bid data.

1.5 Bidders must ensure that bids are delivered timeously to the correct address. Bids not received in a specified manner, and by the specified time and date as set out in this RFP document will be rejected. The bid box is generally open 24 hours a day, 7 days a week.

2.0 COMPLIANCE WITH CONDITIONS OF PROPOSAL

2.1 No alteration, amendment or variation of the submitted proposal by the closing date of this bid shall be permitted, unless otherwise agreed in writing by both the SABC and the bidder. Should the bidder desire to make any amendments to the conditions of their proposal document, they shall stipulate upfront in their proposal document. The SABC reserves the right to reject such bid document.

3.0 COMPLIANCE WITH TECHNICAL SPECIFICATIONS

3.1 All bidders are required to submit bids in accordance with stipulated technical specification as indicated on this bid document. Failure to comply with the required technical specification will result in disqualification.

4.0 SCHEDULE OF QUANTITIES

4.1 Bidders are required to submit a detailed Schedule of Quantities indicating how the bid amount is composed. This schedule shall contain itemised descriptions, quantities and unit prices.

5.0 BID PRICES

5.1 No change in the submitted bid prices shall be accepted and/or approved by the SABC after receipt and before award of this bid.

5.2 All prices are to be quoted in the Republic of South African Rand with VAT as a separate item.

5.3 All local suppliers quoting in foreign currency must convert the currency to Rands and indicate the exchange rate applicable. The local suppliers must provide reasons with evidence why they are quoting in foreign currency

- 5.4 The prices quoted should be inclusive of all costs needed to perform the specified services, not limited to, all kinds of local guarantee bonds, taxes and duties, customs, customs clearance, inland transportation, storage, unpacking, positioning, installation, integration, and testing. The prices quoted should be inclusive of all costs for the duration of the project.
- 5.5 This bid document is not an offer to purchase, order or contract.
- 5.6 Prices must be fixed for the first year and shall, where applicable, be subject to an increase of not more than the applicable CPI.
- 5.7 Bid prices for supplies in respect of which installation/erection/assembly is a requirement, shall include ALL costs on a basis of delivery on site as specified.
- 5.8 Bid prices shall, where necessary, include packaging. If desired, packaging material may be returned to the bidder provided the amount of credit that will be allowed for the returnable packaging is shown against each item concerned.
- 5.9 Any response submitted by a Bidder is subject to negotiation and review by the SABC.

6.0 SOURCE OF SERVICE AND MATERIAL

- 6.1 In the case of equipment/goods, which are partially or completely designed and/or manufactured in the Republic of South Africa, Bidders shall state the local content percentage.
- 6.2 Documentation certifying the local content percentage shall be submitted.

7.0 ACCEPTANCE OF PROPOSALS

- 7.1 The SABC does not bind itself to accept the lowest or any bid/proposal, nor shall it be responsible for or pay any expenses or losses which may be incurred by the Bidders in the preparation and delivery of its/his/her bid/proposal. The SABC reserves the right to accept a separate bid/proposal or separate bids/proposals for any one or more of the sections of a specification. The SABC also reserves the right to withdraw the bid at any stage.
- 7.2 No bid shall be deemed to have been accepted unless and until a formal contract/letter of award is prepared and signed.
- 7.3 The SABC reserves the right, should it deem it necessary, to monitor every stage of the contract to ensure:

- that the directors who were awarded the bid are in control of the company and/or that changes in directors does not affect delivery of the goods/services/work adversely;
- that, if there are changes in the control of the company, these should be brought to the attention of the SABC;
- that in the event that the bid or any part thereof is to be subcontracted to another company or organisation after the bid was awarded, the Bidders must immediately advise the SABC and the SABC shall approve same as it deems fit;
- successful delivery of the goods/services/works in terms of the contract, or timeous termination of the contract should such action be in the best interest of the SABC;
- audit the successful Bidder's contract from time to time.

7.4 This bid will remain valid 180 (one hundred and eighty) days from the date of bid closing.

8.0 DEFAULT BY BIDDERS

8.1 If Bidders purport to withdraw their bid(s)/proposals within the period for which they have agreed that their bid/proposal shall remain open for acceptance, or fails to enter into a written contract when called upon to do so, or fails to accept an order in terms of the bid, the SABC may, without prejudice to any other legal remedy which it may have, accept their bid(s) notwithstanding the purported withdrawal, or proceed to accept any other less favourable bid or call for bids afresh and may recover from the defaulting Bidders any additional expense it has incurred for the calling for new bids or the acceptance of any less favourable bid.

9.0 AMPLIFICATION OF PROPOSALS

9.1 The SABC may, after the opening of bids, call on the Bidder to amplify in writing any matter which is not clear in the Bidder's submission and such amplification shall form part of the original bid.

9.2 In the event of the Bidders failing to supply such information within the specified timeframe, the bid will be liable to rejection.

9.3 The SABC reserves the right to:

- not evaluate and award bids that do not comply strictly with this bid document;
- make a selection solely on the information received in the bids;

- enter into negotiations with any one or more of preferred Bidder(s) based on the criteria specified in the evaluation of this bid;
- contact any Bidder during the evaluation process, in order to clarify any information, without informing any other Bidders. During the evaluation process, no change in the content of the bid shall be sought, offered or permitted;
- award a contract to one or more Bidder(s);
- accept any bid in part or full at its own discretion; and
- cancel this bid or any part thereof at any time.

Should Bidder(s) be selected for further negotiations, they will be chosen on the basis of the greatest benefit to the SABC and not necessarily on the basis of the lowest costs.

10.0 IMPORT/EXPORT PERMITS

10.1 Bidders are required to include complete information on equipment and/or components requiring export/import permits.

11.0 COST OF BIDDING

11.1 The Bidder shall bear all costs and expenses associated with preparation and submission of its bid/proposal, and the SABC shall under no circumstances be responsible or liable for any such costs, regardless of, without limitation, the conduct or outcome of the bidding, evaluation, and selection process.

12.0 COMMUNICATION

12.1 The SABC has provided a single point of entry for any questions or queries that the Bidder may have. All queries must be submitted in writing and directed to authorised contact person. **Unauthorised communication with any other personnel or member of staff of the SABC, with regard to this bid is strongly discouraged and will result in disqualification of the respective Bidder's bid/proposal submission.**

12.2 Should there be a difference of interpretation between the Bidder and SABC; SABC reserves the right to make a final ruling on such interpretation.

12.3 The closing time for clarification of queries is 3 (three) days before the deadline for bid/proposal submission. The Bidders should take note that questions together with responses will be sent to all Bidders who attended compulsory Briefing Session.

13.0 AUTHORISED CONTACT PERSONS

13.1 All enquiries in respect of this bid must be addressed to:

Tender Office

SCM Division
Radio Park Office Block
Henley Road
Auckland Park
Johannesburg
South Africa
E-mail: tenderqueries@sabc.co.za

14.0 BROAD-BASED ECONOMIC EMPOWERMENT

For bidders to be awarded BBBEE points, they must supply the following:

- 14.1 Micro Enterprise (EME) must submit an affidavit signed by the Commissioner of Oaths as per the requirement in the Justice of Peace and Commissioners of Oaths Act, 1963 (Act No. 61 of 1963) or the Companies and Intellectual Property Commission ("CIPC") certificate on an annual basis.
- 14.2 Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Verification Agency accredited by SANAS, (Only South African Accreditation Systems (SANAS) is the authorised body to issue B-BBEE certificates)
- 14.3 No B-BBEE certificates or affidavits from IRBA and Accounting Officers will be accepted, as they are **not** allowed to issue B-BBEE affidavit or certificates to EMEs and QSEs as it was under 2007 Codes.
- 14.4 A trust, consortium, or joint venture will qualify for points for their B-BBEE status level as a legal entity, provided that B-BBEE status level certificate under the consortium or joint venture name is submitted.
- 14.5 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 14.6 A bidder will not be awarded B-BBEE points if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not have the same B-BBEE status level or higher that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.
- 14.7 A bidder awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

15.0 MISREPRESENTATION AND FRONTING IS PROHIBITED

Fronting means a deliberate circumvention or attempted circumvention of the B-BBEE Act and the Codes. Fronting commonly involves reliance on data or claims of compliance based on misrepresentations of facts, whether made by the party claiming compliance or by any other person.

It is an offence to misrepresent or provide false information regarding a company's information or engaging in a fronting practice. If there is any contravention of some sought, the SABC may open a criminal and/or civil case/s against the bidder and its directors/members in terms of applicable legislation, and ban the bidder & its directors/members from doing business with the SABC for a pre-determined period.

It is important to note that any proposal that does not conform fully to the instructions and requirements in this RFP may be disqualified.

Suppliers might be required to demonstrate their proposed capabilities by means of a presentation, clear and easily verifiable reference documentation and/or a visit to an existing client site where their capabilities may be demonstrated.

Bids, which do not meet the technical requirements, will not be considered for further evaluation.

END OF DOCUMENT A

DOCUMENT B

GENERAL CONDITIONS OF PROPOSAL

1.0 COMPLIANCE WITH COMPLETION OF PROPOSAL

- 1.1 The bid forms should not be retyped or redrafted but photocopies may be prepared and used.
- 1.2 Bid forms must be signed in the original form; in ink and forms with photocopied signatures or other such reproduction of signature will be rejected.
- 1.3 Should bid forms not be filled in by means of mechanical devices, for example typewriters, ink, preferably black, must be used to fill in bid.
- 1.4 Bidders shall check the numbers of the pages and satisfy themselves that none are missing or duplicated. No liability shall be accepted in regard to claims arising from the fact that pages are missing or duplicated. Incomplete bids will result in disqualification.

2.0 COMPLIANCE WITH TECHNICAL SPECIFICATIONS

- 2.1 Unless a departure is clearly stated by the Bidder at the time of bidding, the works shall be taken as complying in detail with the Technical Specifications, and the Bidder shall be held liable on all the terms and conditions of the contract as if this bid contained no departures. Technical specifications contained in any brochures or any other descriptions submitted shall apply for acceptance test purposes.

3.0 WARRANTY

- 3.1 If there are any defects arising from failure of goods to meet the specifications within the period specified in the contract, the Bidder shall replace the defective items at his expense or shall refund the SABC such costs as the SABC may incur in replacing such defective item. The Bidder shall also bear the cost of transporting replaced/repared items to the place of destination.

4.0 INSPECTION

- 4.1 The Bidder shall permit and assist the SABC's representatives in carrying out any inspections that are called for in the proposal or specifications.

5.0 PACKAGING

- 5.1 Goods purchased on this bid must be adequately protected and securely packaged during shipment and until delivery at the destination.

- 5.2 Goods must be clearly marked with the Bidder's name, description of contents and the SABC's order number and delivery address.

6.0 RISK

- 6.1 The Bidder will be responsible for losses that SABC incurred due to Bidder's negligence or intention and Bidder must provide Liability Insurance. This will be a condition of contract.

7.0 DELIVERY

- 7.1 Delivery will be to the Stores of the SABC Auckland Park, Johannesburg, Republic of South Africa. The contractual delivery date must be strictly complied with and each delivery must be preceded or accompanied by delivery note. If delivery does not take place within the period stipulated, the SABC may cancel the contract concluded with the bidder without further notice to the Bidder and with immediate effect without prejudice to any other course of action available to the SABC to recover any damages out of such delay. Receipt of the goods by the SABC will not be regarded as acceptance thereof until the goods have been acceptance tested in compliance with the Technical Specifications.

8.0 PAYMENT

- 8.1 Payment, in currency other than South African Rand, will be made by means of a telegraphic or wired bank transfer.

The Bidder must provide:

- Name and address of their bank.
- Company account number to be credited.
- Sort/swift code of bank.

- 8.2 The SABC's standard payment terms are 60 days from date of Invoice.

9.0 ASSIGNMENT OF CONTRACT

- 9.1 The Bidder shall not have the right to cede any right or delegate any obligation in terms of this contract to any third party unless with the prior written approval of the SABC.

10.0 PROPOSALS ARE CONSIDERED TO BE BINDING ON THE BIDDERS

- 10.1 Representations made in the bid/proposal, including claims made in respect of commitments to dates of delivery, shall be considered binding on the Bidder on acceptance of the bid/proposal by the SABC and same will be form part of the contract to be concluded, unless specifically noted by the Bidder in the bid/proposal that same maybe subject to change;

11.0 COMPLIANCE WITH SABC POLICIES

- 11.1. SABC will not procure any goods, services, works or content from any employee or employee owned business, to ensure that suppliers competing for the SABC's business have confidence in the integrity of SABC's selection process.
- 11.2. SABC will not procure any goods, services, works or content from any SABC Independent Contractor or Independent Contractor-owned business, to ensure that suppliers competing for the SABC's business have confidence in the integrity of SABC's selection process.
- 11.3. No former employees, SABC's Non-Executive members and Independent Contractors will be awarded contracts with the SABC within 24 months after resigning from SABC employment or not being engaged with the SABC.
- 11.4. Should former employees, SABC's Non-Executive members and Independent Contractors resign from the employment of the SABC or not being engaged with the SABC and become directors of other businesses bidding with SABC, such bid will not be considered until the cooling off period of two years has expired.
- 11.5. "The SABC has a zero tolerance to theft, fraud and corruption. Such activities will be investigated and stringent action institutes such as laying of criminal charges or even removal from the SABC database of service providers. Should you suspect or become aware of any suspicious acts of fraud, theft or corruption involving SABC employees or other suppliers rendering services to the SABC, contact the SABC whistle blowers hotline at **"0800 372 831"**

12.0 FAILURE TO COMPLY WITH THESE CONDITIONS

- 12.1 These conditions form part of the bid and failure to comply therewith may invalidate a bid.

13.0 RFP SCHEDULE

- 13.1 Bidders will be contacted as soon as practicable with a status update. At this time, short-listed Bidders may be asked to meet with SABC representatives. Bidders should provide a list of persons and their contact details who are mandated to negotiate on behalf of their company.

14.0 ADDITIONAL NOTES

- 14.1 All returnable documents as indicated in the bid form must be returned with the response
- 14.2 Changes by the Bidder to his/her submission is not allowed after the closing date.
- 14.3 The person or persons signing the bids must be legally authorized by the Bidder to do so. A list of the person(s) authorized to negotiate on your behalf must be submitted along with the bid.
- 14.4 SABC reserves the right to undertake post-bid negotiations with the preferred Bidder or any number of short-listed Bidders.

FAILURE TO OBSERVE ANY OF THE ABOVE-MENTIONED REQUIREMENTS MAY RESULT IN THE BID BEING OVERLOOKED.

15.0 DISCLAIMERS

- 15.1 Bidders are hereby advised that the SABC is not committed to any course of action as a result of its issuance of this BID and/or its receipt of a bid in response to it. In particular, please note that the SABC may:
- 15.2 change all services on bid and to have Supplier re-bid on any changes.
- 15.3 reject any bid which does not conform to instructions and specifications issued herein
- 15.4 disqualify bids after the stated submission deadline
- 15.5 not necessarily accept the lowest priced bid
- 15.6 reject all bids, if it so deem fit
- 15.7 award a contract in connection with this bid at any time
- 15.8 award only a portion as a contract
- 15.9 split the award of the contract to more than one Supplier
- 15.10 make no award of a contract.

Kindly note that SABC will not reimburse any Bidder for any preparation costs or other work performed in connection with this bid, whether or not the Bidder is awarded a contract.

END OF DOCUMENT B

DOCUMENT C

QUESTIONNAIRE TO BE COMPLETED WHEN BIDDING

If the information required in respect of each item cannot be inserted in the space provided, additional information may be provided on a separate sheet of paper with a suitable reference to the questionnaire number concerned.

1. Company's Treasury CSD unique registration reference number.	
2. Have your company been issued with a SARS Compliance Status PIN.	
3. If yes, please provide PIN number. The provision of the PIN will be construed as your permission to SABC Procurement to access your tax status on-line.	
4. Are you registered in terms of section 23(1) or 23(3) of the Value-added Tax Act, 1991 (Act 89 of 1991)?	
5. If so, state your VAT registration number and original current tax clearance certificate to be submitted	
6. Are the prices quoted fixed for the full period of contract?	
7. Is the delivery period stated in the bid firm?	
8. What is the address in the Republic of South Africa where an item of the type offered by you may be inspected preferably under working conditions? (Where Applicable)	
9. What is the approximate value of stock in the Republic of South Africa for this particular item? (If required).	

10. Where are the stock held?	
11. What facilities exist for servicing the items offered?	
12. Where are these facilities available?	
13. What are the names and addresses of the factories/suppliers where the supplies will be manufactured and may be inspected, if required?	

*

ALSO INDICATE WHICHEVER IS NOT APPLICABLE

END OF DOCUMENT C

DOCUMENT D
SBD-4
DECLARATION OF INTEREST

1.0 Any legal person, including persons employed by the state, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2.0 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

2.1 Full Name of bidder or his or her representative:

.....

2.2 Identity Number:

2.3 Position occupied in the Company (director, trustee, shareholder²):

.....

2.4 Company Registration Number:

2.5 Tax Reference Number:

2.6 VAT Registration Number:

2.6.1. The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / personnel numbers must be indicated in paragraph 3 below.

¹"State" means –

- a. any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999)
- b. any municipality or municipal entity;
- c. provincial legislature;
- d. national Assembly or the national Council of provinces; or
- e. Parliament.

2"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

2.7 Are you or any person connected with the bidder **YES / NO**
presently employed by the state?

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

.....

Name of state institution at which you or the person connected to the bidder is employed

.....

Position occupied in the state institution:

.....

Any other particulars:

.....

.....

.....

2.7.2 If you are presently employed by the state, did you obtain **YES/NO**
the appropriate authority to undertake remunerative
work outside employment in the state?

2.7.2.1 If yes, did you attached proof of such authority to the bid **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid).

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....

.....

.....

2.8 Did you or your spouse, or any of the company's directors / **YES /NO**
trustees / shareholders / members or their spouses conduct
business with the state in the previous twelve months?

2.8.1 If so, furnish particulars:

.....

.....

.....
.....

2.9 Do you, or any person connected with the bidder, have **YES / NO**
any relationship (family, friend, other) with a person
employed by the state and who may be involved with
the evaluation and or adjudication of this bid?

2.9.1 If so, furnish particulars.

.....
.....
.....

2.10 Are you, or any person connected with the bidder, **YES/NO**
aware of any relationship (family, friend, other) between
any other bidder and any person employed by the state
who may be involved with the evaluation and or adjudication
of this bid?

2.10.1 If so, furnish particulars.

.....
.....
.....

2.11 Do you or any of the directors / trustees / shareholders / members **YES/NO**
of the company have any interest in any other related companies
whether or not they are bidding for this contract?

2.11.1 If so, furnish particulars:

.....
.....

3.0 Full details of directors / trustees / members / shareholders.



Full Name	Identity Number	Personal Tax Reference Number	State Number / Employee Pers. Number

4.0 DECLARATION

I, THE UNDERSIGNED (NAME)

.....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT. I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

END OF DOCUMENT D

DOCUMENT E

TECHNICAL SPECIFICATION PROVINCIAL MAIN CONTROL UPGRADE (TURNKEY SOLUTION)

1 INTRODUCTION AND BACKGROUND

The SABC defines the scope of works for this project as turnkey; to prevent any room for doubt the definition adopted for this project is “providing the full technical solution as per the SABC requirements (including configuration/integration/installation with new and existing systems) in consultation with the SABC technical team.

The services required from the successful bidder will include the design, supply, installation, integration and commissioning, culminating in a turnkey solution.

RRTO (Radio & Regional Technology Operations) is a unit within Technology Division whose primary role is to plan, develop and implement technology used to enable the broadcasting of all Radio and TV services and productions. Regional Main control is one of the biggest functions that RRTO is responsible for.

The Core function of Main Control Facilities is to ensure effective switching and routing of all the audio and video contributions and distribution signals of all SABC Radio and TV services.

The main control facilities of each province are responsible for the scheduling, coordinating, and routing of broadcast lines which link the provinces to other SABC centres or broadcast sides across the country. It is also the role and responsibility of RRTO through Radio Main Control and MCR to ensure that all SABC Radio broadcast signals are sent to the national distribution company (Sentech), while simultaneously ensuring the distribution of Audio and Video feeds to other platforms such as, DTT, DTH, DSTV and all Web services.

Each Radio station of the SABC depends on their provincial Main Control for the routing of broadcast lines. RRTO provides technical equipment and updated technology for the continuous improvement of broadcasting.

The current Radio Main Control facilities in the regions were upgraded over 15 years ago, and as result the technology used is not compatible with the current technology trends. This is massive threat to business continuity and as a result RRTO is embarking on a project to upgrade their Provincial Main Control Facilities in alignment with the SABC digital migration strategies.

These facilities will undergo an upgrade and replacement of the Broadcast equipment and refurbishments.

2 SCOPE OF WORK

2.1 The project aims to upgrade 8 Provinces which includes, Western Cape, Northwest, Limpopo, Free State, Northern Cape, Eastern Cape, Mpumalanga & KwaZulu Natal. The upgrade will include a phased approach full revamp of the currently installed broadcasting equipment in the Main Control rooms of the said provinces. This upgrade will include:

- Consultation and system design
- Supply and delivery of the equipment and furniture
- Installation and configuration of the equipment and furniture
- Testing and Commissioning of the system
- Training (Operational and Technical)
- Go-live Change management/Migration
- Decommissioning

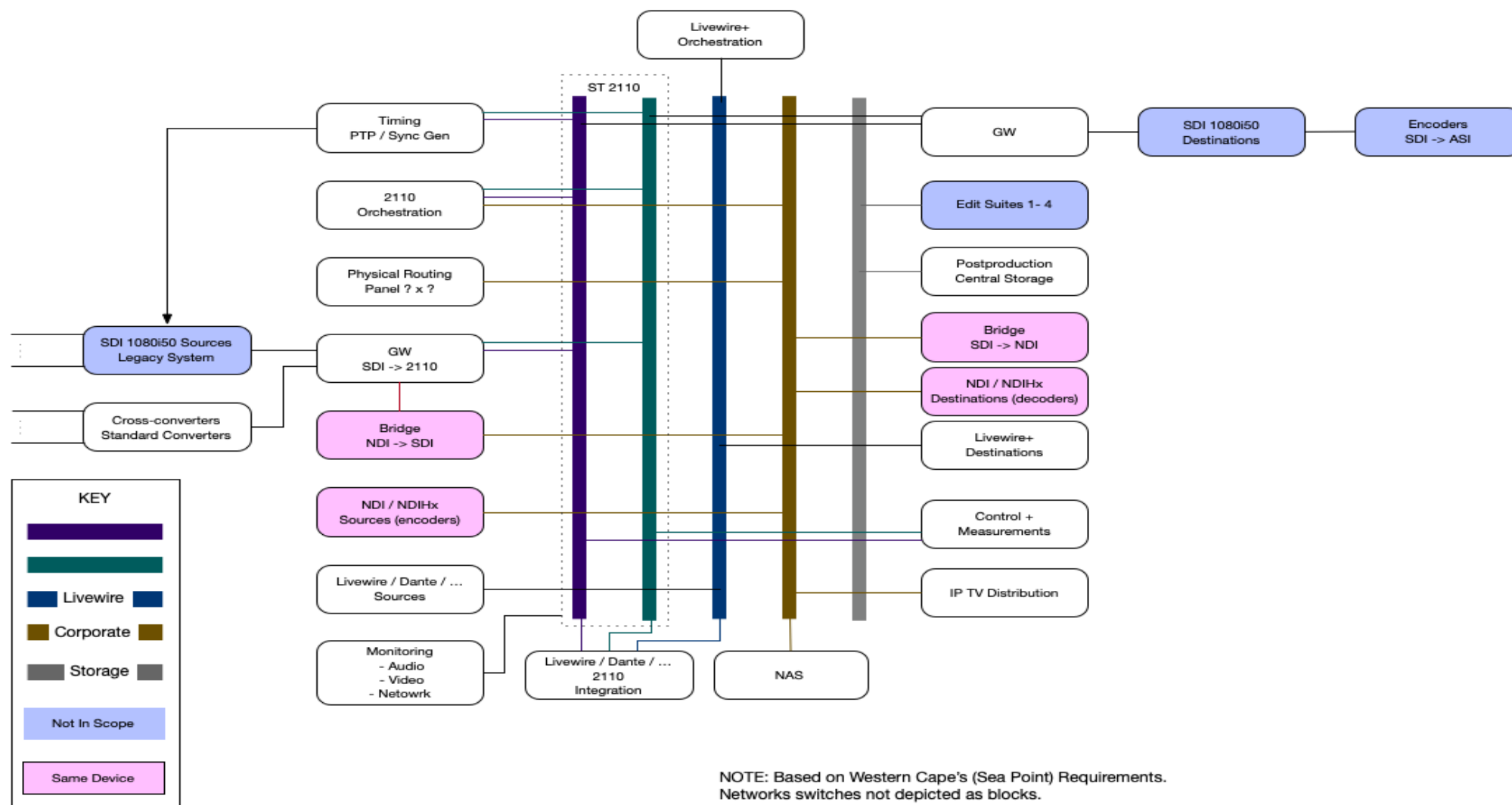
2.2 DETAILED REQUIREMENTS

2.2.1 The Provincial Main Control Upgrade should cover the following:

The current Main Control offices were installed around 2009, and the same equipment has been running since. We now need to replace and or upgrade most of the installed equipment.

These include the following:

- Lawo Nova 17 Audio Router, 500 x 500 cross points, with 12U router chassis, and 1 or more 6U Dallas chassis expansion(s) for additional I/O, linked to Nova 17 by MADi ports, with fibre cables. Some bigger regions may have 2 or 3 expansion units, while smaller regions only 1 or none.
- The video router, in 3 regions, is Evertz Topaz 32x32 HD, with all video connections SDI.
- Virtual Studio Manager (VSM) is software, that we use for router orchestration. The software runs on a computer and links to Lawo Nova 17 Audio router and the Evertz Topaz Video router via separate CommServer units. The CommServer units, talk via RS422 and RS232 respectively.
- We also have hardware router panels, driven from VSM system, in the desktop rack.
- We have ISDN rackmount codecs, from Telos and a few of Tieline. These use ISDN, that is hard to get installed nowadays, so we cannot use it any more for Outside Broadcasts. This is the reason why we have to replace these codecs with IP codecs, to work via Internet connections.
- Comms system
- The little Audio Mixer in Main control was put there to give you some control over some router connections, before routing them. It is also there so the operator can talk to remote connections via a microphone in Main Control to test lines etc. The mixing console is used as part of the regional Disaster Recovery Plan.
- The audio recording system we are using in most regions, are rackmount hardware recorders, called NetLog. We use these to record radio stations' off-air broadcasts, and audio from studio outputs, to be archived. 2 regions with Axia mixers, use Telos iProfiler for this purpose, as it captures all audio via Livewire+.
- Audio monitoring in desktop and racks are via hardware units, connected to a set of Genelec speakers in Main Control area.
- Video monitoring



1. NETWORK SWITCHES

The network switches, this solution will be using. Please make sure that all network switches are from the same manufacturer, as we need that to be true, if we connect on layer 3 to the other broadcast networks.

Network Devices Needed	WC	KZN	EC	LI	MP	NW	FS	NC	TOTAL
1.1.1.1. 100Gbps capable switch for SMPTE ST 2110 (Specs below)	2	2	2	2	2	2	2	2	16
1.2.1. 1Gbps capable switches for Livewire (Specs below)	3				3				6
1.3.1. 1Gbps capable switch for Dante (Specs below)	2	8	6	6	1	4	6	6	39

1.1. SMPTE ST 2110 Primary & Secondary Network Switches

Max
Points

Min
Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

- Purple and Green Networks on schematic
- Switch makes will likely be Arista, Juniper, Cisco or similar with amounts and types of connections dictated by the size of the SMPTE ST 2110 solution in each region. For a region without TV components, the switches will be much smaller than a bigger region with TV I/O.
- Switch port SFP count and speed to be determined by solution specification
- These will not be connected to each other, or any other networks!
- They are for SMPTE ST 2110 traffic only!

1.1.1	SFPs supplied for the appropriate speeds needed per port. (1)	1	1		
1.1.2	Minimum specifications: <ul style="list-style-type: none"> • IGMPV3 (1) • SNMPV3 (1) • SSHV2 (1) • PIM-SSM (1) • Out of band management port (1) • Front to back airflow (1) • Dual redundant, modular power supplies (1) • 32 port QSFP 100,50,40, 25, 10 Gbps Ethernet port support (1) • PTP v2 aware/enabled/synchronized (1) • Non-blocking switching hardware (1) 	10	10		
1.1.3	Switch(es) to be set up and configured by installers. All usernames and admin passwords must be given to regional Technicians for future use.	1	1		
		12	12		

1.2.1. 1Gbps capable switches for Livewire		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
<ul style="list-style-type: none"> Blue Network on schematic This is only Livewire+/AES67 traffic 					
1.2.1	Minimum specs: <ul style="list-style-type: none"> High performance solution with non-blocking 24x 100/1000 Mbps (RJ-45) (1) 2x 1/10GbE uplinks (SFP+) (1) Wire speed layer 2/3 switching 1 Tbps and 300 Gbps of throughput (1) 3GB packet buffer for lossless forwarding (1) Comprehensive switching and routing feature set with rapid convergence (1) Full featured IPv4 / IPv6, ACLs, and QoS (1) PTP v2 aware/enabled/synchronized (1) POE+ on all 24 ports (1) SFP and QSFP modules supporting 1, 10, 25, 40, 50 and 100G (1) 	9	9		
1.2.2	Switch must be from the same make as SMPTE ST 2110 switches in 1.1, to make sure layer 3 connections can be made to other SABC broadcast networks. (1)	1	1		
1.2.3	Switch(es) to be set up and configured by installers. All usernames and admin passwords must be given to regional Technicians for future use. (1)	1	1		
		11	11		
1.3.1. 1Gbps capable switches for Dante		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
<ul style="list-style-type: none"> Green Network on schematic, but perhaps another in some regions having a Primary and Secondary Dante Network. This is only Dante/AES67 traffic. SABC standardized on Cisco switches for normal office network devices and some studio networks. 					
1.3.1	Minimum specs: <ul style="list-style-type: none"> High performance solution with non-blocking 24x 100/1000 Mbps (RJ-45) (1) 2x 1/10GbE uplinks (SFP+) (1) Wire speed layer 2/3 switching 1 Tbps and 300 Gbps of throughput (1) 3GB packet buffer for lossless forwarding (1) Comprehensive switching and routing feature set with rapid convergence (1) Full featured IPv4 / IPv6, ACLs, and QoS (1) PTP v2 aware/enabled/synchronized (1) POE+ on all 24 ports (1) SFP and QSFP modules supporting 1, 10, 25, 40, 50 and 100G (1) 	9	9		
1.3.2	Switch must be from the same make as SMPTE ST 2110 switches in 1.1, to make sure layer 3 connections can be made to other SABC broadcast networks. (1)	1	1		
1.3.3	Switch(es) to be set up and configured by installers. All usernames and admin passwords must be given to regional Technicians for future use. (1)	1	1		
		11	11		

2. NETWORK RACKS, POWER DISTRIBUTION & KVM

The network racks and other equipment, this solution will be using.

Network Racks & Accessories Needed	WC	KZN	EC	LI	MP	NW	FS	NC	TOTAL
2.1.1. 42U Network Rack	2	5	2	2	2	6	2	2	23
2.2.1. Automatic Power Transfer switch	2	8			2		2	2	16
2.3.1. KVM System	1	2			2		1	1	7

2.1.1. 42U Network Rack

Max
Points

Min
Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

2.1.1	<p>Network rack with following specs:</p> <ul style="list-style-type: none"> Height – 42U (1) Depth – 1m (1) Width – 600mm (1) Rack extraction fans included (1) Power Rails, per rack, included, each rack must have 2 x 10-way SA plug connections (1) Extra Blank panels (1) Cage nuts, screws (1) 	7	7		
		7	7		

2.2.1. Automatic Power Transfer switch

Max
Points

Min
Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

2.2.1	<p>Automatic Power Transfer switch with following specs:</p> <ul style="list-style-type: none"> 1U Rack mount (1) 2 x 230V inputs (1) 230V, 16A capability (1) Continuous source monitoring (1) Network management interface (1) Current monitoring and alarms (1) 	6	6		
		6	6		

2.3.1. KVM System

Max
Points

Min
Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

2.3.1	<p>KVM system switch with following specs:</p> <ul style="list-style-type: none"> 8 x inuts (1) USB, VGA, DVI support (1) 1U LCD Screen & Keyboard (1) 	3	3		
		3	3		

3. AUDIO ROUTER

We currently have Lawo Nova 17 routers installed in all regions except JHB. These all have different configurations, but hey all use I/O via the 6U rack mount Router, populated with interface cards of needed types – so they are all differently configured. We need these to be replaced as an “in

place replacement” as far as the I/O is concerned. The old units also have external expansion casings, linked by fibre connections (MADI) to the master unit.

We want to replace these units, with the same I/O as before, for all regions.

Please indicate the number of routers required.

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
Audio Router(s)	1	2	1	2	2	2	2	1	13

Router I/O detail for each region:

Sources	WC	KZN	EC	LIM	MP	NW	FS	NC
Analog	63	30	31	120	16	31	72+72	48
AES	26	174	128	139	22	160	40+40	24
AES67	0	0	0	0	0	0	0	
Livewire+	40	0	0	0	70	0	0	
Dante	5	640	640	520	0	312	0	
MADI	8	0	0	144	0	64	24+24	
GPI	0							

Targets	WC	KZN	EC	LIM	MP	NW	FS	NC
Analog	55	40	48	120	16	31	86	64
AES	31	182	26	133	22	26	40	40
AES67	0	0	0	0	0	0	0	
Livewire+	32	0	0	0	70	0	0	
Dante	5	640	0	520	0	312	0	
MADI	8	0	8	132	0	0	24	
GPO	0							

3.1 Minimum Specifications required		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
3.1.1	AoIP Routing. (1)	1	1		
3.1.2	2 x AES67 ports, that each can cater for 128 streams with a total of 256 audio channels (1)	1	1		
3.1.3	4 x MADI ports that each can handle 64 MADI channels. (1)	1	1		
3.1.4	The router must have expansion slots to allow mixing-and-matching for expansion to accommodate the above table I/O per region. (1) Possibilities could include, but not limited to: Analogue Line, AES3, Mic, MADI with sample-rate conversion and Dante interface cards, to allow tailoring a custom I/O load to nearly any operational requirement. (1)	2	2		
3.1.5	96 DSP channels (1)	1	1		
3.1.6	1000 routing cross-points (1)	1	1		
3.1.7	Must be able to be the gateway for bridging legacy audio formats with standards-based IP media networks. (1)	1	1		

3.1.8	ST2022-7 Seamless Protection Switching provides dual-redundant AoIP network connections to ensure against network link interruption. (1)	1	1		
3.1.9	IP interface complies with SMPTE ST 2110-30/-31, AES67 and RAVENNA networking standards (1)	1	1		
3.1.10	Redundant Routers with automatic failover for regions with more than 1 in router amounts, in the table above. (1)	1	1		
3.1.11	All needed licences to be included on a perpetual basis as required by the solution. (1)	1	1		
3.1.12	Interface Cards, additional cabling, and chassis to cater for the I/O needed according to the table above, for each regional installation. (1)	1	1		
		13	13		

4. VIDEO ROUTER

We currently have 32x32 Video router in some regions having a TV component. We want to replace this with full IP video system.

If you have an SDI video router now, answer 1 in next table to get a replacement.

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
SDI Router	1	1	1	1	1	1	1	1	8

Specs for router below:

Sources	WC	KZN	EC	LIM	MP	NW	FS	NC
SDI	32	32	32	32	32	32	32	32

Targets	WC	KZN	EC	LIM	MP	NW	FS	NC
SDI	32	32	32	32	32	32	32	32

4.1 Minimum Specifications required		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
SMPTE ST 2110 Ready Video over IP router.					
4.1.1	This needs to be SDI router replacement for the transition from legacy workflows. (1)	1	1		
4.1.2	Scalability and upgradability through hot-pluggable modules (1)	1	1		
4.1.3	Support HD video (SDI) formats on input and output (1)	1	1		
4.1.4	Support ST2022-7: Seamless Protection Switching of RTP datagrams. (1)	1	1		
4.1.5	Support SMPTE 2110 Professional Media Over Managed IP Networks (1 point per item): <ul style="list-style-type: none"> ST2110-10: System Timing and Definitions, (1) ST2110-20: Uncompressed Active Video (1) ST2110-21: Traffic Shaping and Delivery Timing for Video (1) ST2110-30: PCM Digital Audio (Levels A, B and C) (1) ST2110-31: AES3 Transparent Transport (Levels A, B and C) (1) ST2110-40: SMPTE ST291-1 Ancillary Data (1) 	6	6		
4.1.6	Redundant power supply, protective chassis and temperature-controlled ventilation. (1)	1	1		
4.1.7	Sources and destinations as per table above per region. (1)	1	1		
4.1.8	Device control via LAN or WAN for remote work. (1)	1	1		
4.1.9	Allows control by first part or third-party devices (as per orchestration specified section 4.1) (1)	1	1		
4.1.10	The proposed solution must clearly indicate the nature of licenses required for the proposed solution. The SABC prefers the perpetual license option on its core systems. (1)	1	1		
4.1.11	Reference standards: <ul style="list-style-type: none"> IEEE1588 (PTP version 2) (1) SMPTE ST170 (1) SMPTE ST318 (1) ITU 624-4 black-burst (1) 	4	4		
4.1.12	Out-of-band control. (1)	1	1		

4.1.13	In-band controls (1)	1	1		
		21	21		

5. ORCHESTRATION

This system is there to manage Video and Audio Routers via a single interface, with computers and hardware panels installed in the appropriate locations.

We currently use VSM, that stands for Virtual Studio Manager, which is now owned by Lawo.

We need to replace that with a new version of VSM.

If you have VSM now, answer 1 in next table to get a replacement.

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
VSM Replace	1	1	1	1	1	1	1	1	8

5.1. Specifications needed	Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
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More info ...

5.1.1	<u>VSM (Virtual Studio Manager) Specifications:</u> <ul style="list-style-type: none"> Compatible with NMOS 1.0 (and higher), SMPTE 2022-6, 2022-7, 2110, AES67, RAVENNA. (1) Switch-API support southbound, with access to multicast routing and native switch functionality (1) Full Compatibility with Layer 3 (1) Agnostic to various switching mechanisms. (1) Supported switching modes: Patching, Destination (make-before-break, break-before-make...) and Source Timed Switching" (1) Must be designed for multi-vendor employment (1) Third-party control capabilities (1) Must be able to control software and hardware panels (1) Must run on rack mountable redundant servers, that must be included in the system spec. (1) SMPTE ST 2059 compliant IP Precision Timing Protocol (1) 	10	10		
5.1.2	The solution must run on redundant servers (Primary & Secondary) (1)	1	1		
5.1.3	<u>Primary & Secondary Servers included with minimum specs:</u> <ul style="list-style-type: none"> Rackmount able Server (1) 1x CPU with 8 Processor Cores (1) 64Gb RAM (1) Redundant PSUs (1) 3x 500Gb SAS SSD drive (1) 2x 1Gbps Ethernet ports (1) MS Windows Server 2019 Std Licence. (1) 	7	7		
5.1.4	<u>Physical Routing Panels Support:</u> <ul style="list-style-type: none"> Software configurable buttons. (1) Each button capable of performing single or multiple functions simultaneously (1) Each panel can be configured as "single destination", "multiple destinations", "XY" panel or any combination of these variations. (1) Ethernet interface. (1) <u>Button functions must include:</u> At least source or target select, GPI control, Parameter control, Macros, Go-to, Take, Lock, Enable, Escape, Shift. (1) Offline and online configuration. (1) 	7	7		

	<ul style="list-style-type: none">Full colour R/G/B backlight at the LBP's allows the choice of multiple colours for button illumination. (1)				
		25	25		

6. REGIONS USING LIVEWIRE+ & DANTE, ADDITIONAL UPGRADES/REPLACEMENTS NEEDED

Livewire+ Hardware to be replaced.

Devices Needed	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
6.1. Telos Pathfinder Core Pro Controller (Livewire+)	1				1				2
6.2. xNode – Analog (Livewire+)	4				4				8
6.3. xNode - AES (Livewire+)	11				11				22
6.4. Dante Orchestration	1	1	0	1		1	1	1	6
6.5. Dante Via Software Licence	5	5		5	5	5	5	5	35
6.6. Dante VS Licence	5	5		5	5	5	5	5	35

6.1. Telos Pathfinder Core Pro Controller (Livewire+)

Max
Points

Min
Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More info ...

6.1.1	<p><u>Note: The only Solution for Telos/Axia Orchestration using Livewire+ (AES67).</u></p> <ul style="list-style-type: none"> Reliable, redundant, system-wide routing control (1) Use any modern browser on any platform to configure, monitor, and control (1) Linux-based with a web user interface (1) Provides route control and customized logic events (1) Graphical interface with real-time state reporting (1) Graphical logic gates for creation of complex logic flows (1) Control protocol for third-party integration, including Device Emulators (1) Automatic router table generation (1) Hardware version offers dual Gigabit Ethernet ports and dual-redundant power supplies (1) Virtual routing for customized views of key audio flows (1) Customizable user panels (1) Includes 1000 points for use as cross point or Logic Flow endpoints (1) VML comes with 300 points for use as cross points or Logic Flow endpoint (1) 	13	13		
		13	13		

6.2. x-Node - Analog (Livewire+)		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More info ...					
6.2.1	<u>Note: The only Manufacturer of x-Nodes, using Livewire+ (AES67), is Telos Systems.</u> <ul style="list-style-type: none"> 8 x Analog In/Out (1) Redundant power options (using AC mains and Power-over-Ethernet) (1) Dual-redundant network interfaces (1) Fully AES67-compliant (1) 	4	4		
		4	4		
6.3. x-Node - AES (Livewire+)		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More info ...					
6.3.1	<u>Note: The only Manufacturer of x-Nodes, using Livewire+ (AES67), is Telos Systems.</u> <ul style="list-style-type: none"> 4 x AES In/Out (1) Redundant power options (using AC mains and Power-over-Ethernet) (1) Dual-redundant network interfaces (1) Fully AES67-compliant (1) 	4	4		
		4	4		
6.4. Dante Orchestration		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More info ...					
6.4.1	Dante Domain Manager - Software	1	1		
6.4.2	Primary & Secondary Servers included with minimum specs: <ul style="list-style-type: none"> Rackmountable Server (1) 1x CPU with 8 Processor Cores (1) 64Gb RAM (1) Redundant PSUs (1) 3x 500Gb SAS SSD drive (1) 2x 1Gbps Ethernet ports (1) MS Windows Server 2019 Std Licence. (1) 	7	7		
		8	8		
6.5. DanteVia Virtual Soundcard Software Licence (DanteVia)		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More info ...					
6.5.1	<u>PCs running:</u> <ul style="list-style-type: none"> Windows 7, 8.1 or 10 or higher (1) Macs running OS X 10.9.5 or higher (1) 	13	13		

	<u>Network Audio</u> <ul style="list-style-type: none"> 100/1000 Mbps Ethernet (1) Software time-stamping, supporting sample accurate playback (1) Automatic discovery of local and network devices (1) <u>Audio Interface</u> <ul style="list-style-type: none"> Up to 32 x 32 channels from connected audio hardware devices (1) Up to 16 x 16 channels per audio application (1) Up to 48 x 48 channels total I/O (1) 48 kHz sample rate/24 bit sample depth (1) Support for ASIO and WDM drivers (Windows)/Core Audio (Mac) (1) <u>Control Interfaces</u> <ul style="list-style-type: none"> Drag and drop UI for signal routing (1) Secure publishing of applications or devices to be shared on network (1) Compatible with Dante Controller for advanced routing (1) 				
		13	13		
6.6. Dante Virtual SoundCard Software Licence (Dante VS)		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More info ...					
6.6.1	<u>General Requirements:</u> <ul style="list-style-type: none"> Processor: Quad core CPU (1) Memory: 4 Gbyte of RAM (1) Network: Standard wired Ethernet network interface (100Mbps or Gigabit) (1) A Gigabit (1000Mbps) interface is required for channel counts above 32x32 @48kHz or 16x16 @ 96kHz (1) Storage/Disk: High transfer rates are required for recording and playing back large numbers of audio tracks to and from a hard disk (1) Disk speeds of 7200rpm and above are recommended for 16 or more channels of record/playback from disk (1) External discs connected via IEEE1394 (Firewire) are recommended for large track counts (1) Windows - Audio Applications must support either ASIO or WDM (1) macOS - Any audio application using the standard Core Audio interface to a soundcard (1) 	9	9		
		9	9		

7. IP CODECS

Current codecs in the SABC regions:

- Tieline ISDN rackmount
- Telos ISDN rackmount
- Comrex Access IP

Replace with New:

- Comrex Access IP codec single or multi-rack configurations
- IP Audio Codec system to replace ISDN units.

Codecs Needed	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
7.1. Comrex Rackmount Units	9	12	6	15	5	5	5	3	60
7.2. IP Audio Codec & Portable Remote combo	11	12	12	6	5	5	5	3	59

7.1 Comrex Rackmount IP Codec

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

We already own a number of these IP codecs, so we need to replace them with more Comrex, but latest models.

7.1.1	AES67 Standard compatible (1)	1	1		
7.1.2	24 Bit 48kHz audio sampling (1)	1	1		
7.1.3	Analogue and Digital (AES3) inputs and outputs (1)	1	1		
7.1.4	<u>Audio Compression Algorithms:</u> <ul style="list-style-type: none"> • MPEG AAC (1) • MPEG AAC-LD (1) • MPEG Layer 2 (1) • MPEG Layer 3 (1) • Opus (1) • G.722 (1) 	6	6		
7.1.5	<u>Connections:</u> <ul style="list-style-type: none"> • Bidirectional Mono (1) • Stereo (1) • Dual mono (1) • Triple mono (1) 	4	4		
7.1.6	Real-time IP link quality displayed on screen (1)	1	1		
		14	14		

7.2. IP Audio Codec & Portable Remote combo

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

Here we are replacing old ISDN codecs with New rackmount IP codec combos:

- Rack mount codec
- Compatible Portable Remote codec.

7.2.1	Must have native support for AES67, ST 2110-30, ST 2022-7, Livewire+, RAVENNA, NMOS, Ember+, plus AES3 and analog I/O (1)	1	1		
7.2.2	<ul style="list-style-type: none"> • Dual internal power supplies (1) • Dual LAN ports (1) • Dual AoIP streaming ports (1) 	3	3		
7.2.3	Multicast to unlimited endpoints (1)	1	1		
7.2.4	Fully SIP EBU N/ACIP 3326, 3368 and 3347 compliant to operate with 3rd party codecs (1)	1	1		

7.2.5	Balanced XLR line-level audio Inputs & Output (1)	1	1		
7.2.6	AES3 XLR Digital for Input & Output (1)	1	1		
7.2.7	Analog or AES3 switch (1)	1	1		
7.2.9	Battery powered Portable Remote <ul style="list-style-type: none"> Must fully support the rack mount unit settings. (1) <u>Connection to the Internet via</u> <ul style="list-style-type: none"> Mobile SIM (1) Wi-Fi (1) LAN (1) 	4	4		
		13	13		

8. COMMS

More Info ...

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
8.1. Matrix	1	1	1	1	1	1	1	1	8
8.2. Rack Panels (16btn)	6	4	6	4	4	4	2	2	32
8.2. Desktop Panels (16btn)	20	15	12	12	13	13	12	12	109
8.3. Multi-Ch IFB Interface	1	1	2	1	1	1	1	1	9
8.4. Single Ch IFB belt pack	3	4	4	2	3	5	2	2	25
8.5. Ear set	3	4	4	2	3	12	2	2	32
8.6.1 Wireless Audio Access Point	1	4	3	2	3	12	1	1	27
8.6.2 Wireless Key Panel	2	3			2	3	2	2	14
8.6.3 Wireless Key Panel Headset	2	3			2	3	2	2	14

8.1 Matrix	Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
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More Info ...

8.1.1	Compatible with the RTS ADAM system in JHB MCR (1)	1	1		
8.1.2	Scalable intercom system (1)	1	1		
8.1.3	Supported Interfaces: <ul style="list-style-type: none"> AIO (1) OMNEO (on RJ-45 connectors) (1) 2-wire & 4-wire technology (1) RVON Support (1) 	4	4		
8.1.4	Dual Power Supplies (1)	1	1		
8.1.5	Rack mount form factor (1)	1	1		
		8	8		

8.2 Rack and Desktop Panels (for quantities refer to table above)	Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
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More Info ...

8.2.1	OMNEO Open Media Networking Standard (1)	1	1		
8.2.2	Full IP Connectivity and TCP-IP Layer 2 & 3 Compatibility (1)	1	1		
8.2.3	Front panel headset connector (1)	1	1		
8.2.4	16 Programmable keys (1)	1	1		
8.2.5	8" gooseneck microphone (1)	1	1		
		5	5		

8.3 Multi-Channel IFB Interface		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
8.3.1	Interfaces up to eight IFB belt packs to a Digital Matrix Intercom system (1)	1	1		
8.3.2	Provides power to the belt packs (1)	1	1		
8.3.3	Rackmount form factor (1)	1	1		
		3	3		
8.4 Single Channel IFB Belt pack		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
8.4.1	Listen only IFB ear set station with one channel (1)	1	1		
8.4.2	Volume controls (1)	1	1		
8.4.3	Belt pack formfactor (1)	1	1		
8.4.4	Headset Connector Type: 1/4" Monaural Plug (1)	1	1		
8.4.5	Intercom Channel Connectors: Type: XLR-3F (1)	1	1		
		5	5		
8.5 Ear set		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
8.5.1	A complete ear set with <ul style="list-style-type: none"> 1/4" plug (1) 125Ω RTV-04 driver (1) 	2	2		
		2	2		
8.5 Ear set		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
8.6.1	Multi-Channel RF Transceiver <ul style="list-style-type: none"> Support OMNEO (ROAMEO). (1) High-quality and license-free audio based on DECT standard. (1) Voice Codecs: G.722 (wideband) / G.726 (narrowband). (1) User Capacity: 5 Belt packs (G.722), 10 Belt packs (G.726) per Access Point. (1) RF Frequency Range: 1880-1900 (EU), 1920-1930 (NA) (1) 	5	5		

8.6.2	Wireless intercom multi-Channel belt pack <ul style="list-style-type: none"> Seamless roaming across wide areas (1) Display Type: 20x240 pixel colour LCD (1) RF Frequency Range: 1880-1900 (EU), 1920-1930 (NA) (1) RF Standard: DECT (1) Voice Codecs: G.722 (wide band) / G.726 (narrowband) (1) Battery Life: 17 hours (1) Headsets: 5-pin female XLR (1) 	7	7		
8.6.3	Headset compatible with 8.6.2, single sided, noise cancelling microphone, adjustable boom (1)	1	1		
		13	13		

9. IP CAMERAS									
More Info ...									
	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
9.1. IP Cameras PTZ	4	4	3	3	4	4	2	2	26
9.1. IP Cameras PTZ						Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...									
9.1.1	<u>Minimum Specs:</u> <ul style="list-style-type: none"> 1080p Resolution... (1) Infrared night view for at least 10m... (1) Audio Support... (1) POE or POE+ powered... (1) Motion Detection... (1) 					5	5		
						5	5		

10. GATEWAYS, BRIDGES & CONVERTERS

More Info ...

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
10.1. NDI Bridge	1	1	1	1	1	1	1	1	8
10.2. NDI Encoder/Decoder	8	4	8	4	4	8	4	4	44
10.3. NDI Cross-Converters, Standards Converters	2	2	4	2	2	4	2	2	20

10.1. NDI Bridge

Max Points

Min Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

10.1.1	At least 16x16 3G-SDI I/O supports Multi-Channel HD as standard (1)	1	1		
10.1.2	Bi-directional Encode/Decode/Transcode <ul style="list-style-type: none"> NDI, H.265 (HEVC) (1) H.264 (AVC, MPEG-4) (1) H.262 (MPEG-2) (1) JPEG 2000* (TR-01) (1) 	4	4		
10.1.3	Synchronous Multi-Channel / Multi-System Transport for SDI backhaul (1)	1	1		
10.1.4	Protocols; SRT, UDP, HLS, RTP, RTMP/S (output), MPTS (input) (1)	1	1		
10.1.5	Transports; MPEG-TS, NDI, AVC-TS, Fragmented MP4 (1)	1	1		
10.1.6	Multi bitrate/format distribution, ABR Ladder Profiles for OTT hand-off (1)	1	1		
10.1.7	Selectable profiles for 10-bit and 8-bit, 4:2:2 and 4:2:0 (1)	1	1		
10.1.8	Metadata capabilities: <ul style="list-style-type: none"> MPEG-2 ANC (1) SMPTE 2038 (1) Ad insertion markers (SCTE-35/SCTE-104) (1) CC/Subtitles (EIA-608/708, Line 21, H.264 SEI). (1) 	4	4		
10.1.9	Remote Web UI or local GUI for easy administration, control, and operation (1)	1	1		
10.1.10	Monitoring, Control and Automation supported via REST API or SNMP (1)	1	1		
10.1.11	Turnkey rack-mountable, enterprise-class form factor (1)	1	1		
10.1.12	Dual 10GbE interface for control and transport (1)	1	1		
10.1.13	Dual power supplies for critical application redundancy (1)	1	1		
10.1.14	Buffer controls for low latency tuning (1)	1	1		
		20	20		
10.2. NDI Encoder/Decoder		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
10.2.1	Video Input: 1 x 3G/HD/SD-SDI 5 Ohm impedance SMPTE ST-424M, ST-292M. (1)	1	1		

10.2.2	Audio Input: 3.5mm Mono Mic Level, Embedded 3G-SDI (1)	1	1		
10.2.3	Audio Output: 3.5mm Line Level, Embedded 3G-SDI (1)	1	1		
10.2.4	Audio Channels: 16 Encode, 8 Decode (1)	1	1		
10.2.5	Encoding/Decoding NDI (1)	1	1		
10.2.6	Network: 1 x RJ-45 port Gigabit Ethernet (1)	1	1		
10.2.7	Interface: Web-based user interface for configuration and monitoring (1)	1	1		
10.2.8	Tally: Tally support via NDI (1)	1	1		
10.2.9	<u>Power</u> : Power over Ethernet or External Power Adaptor (1)	1	1		
		9	9		
10.3. NDI Cross-Converters, Standards Converters		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
10.3.1	<u>SDI Video Inputs and SDI Video Input Loops (re-clocked):</u> <ul style="list-style-type: none"> 10-bit SD, HD, 2K, 3G HD levels A and B, 2K and Ultra HD, auto switching. (1) 16 audio channels in at least SD, HD, 3G HD, 2K and Ultra HD. (1) 	2	2		
10.3.2	<u>SDI Video Input Loops:</u> <ul style="list-style-type: none"> 10-bit SD, HD, 2K, 3G HD levels A and B, auto switching. (1) 16 audio channels in at least SD, HD, 3G HD. (1) 	2	2		
10.3.3	<u>HDMI Video Inputs and HDMI Video Loop Inputs:</u> <ul style="list-style-type: none"> HDMI 2.0 type A connector. (1) YUV or RGB, auto switching and active Input loop (1) 	2	2		
10.3.4	<u>HDMI Video Outputs:</u> <ul style="list-style-type: none"> HDMI 2.0 type A connector. (1) YUV or RGB, user selectable (1) 	2	2		
10.3.5	Optical Fibre Connection: SMPTE optical fibre SFP socket	1	1		
10.3.6	<u>Optical Fibre Video Inputs and Optical Fibre Video Outputs:</u> At least 10bit SD, HD, 3G HD, 2K and Ultra HD, auto switching (1)	1	1		
10.3.7	<u>Optical Fibre Audio Inputs and Optical Fibre Audio Outputs:</u> 16 channels in SD, HD, 3G HD, 2K and Ultra HD (1)	1	1		
10.3.8	<u>Analog Audio Inputs:</u> XLR - 2 channels professional balanced analogue audio (1)	1	1		
10.3.9	<u>Reference Input:</u> BNC - Black Burst in SD or Tri-level sync in HD (1)	1	1		
10.3.10	Reference Output: BNC - Internal reference generator providing black-burst or tri-level sync output at the current output frame rate. (1)	1	1		
10.3.11	Computer Interface: USB type C port for software updates. RJ45 Gigabit Ethernet for remote control and configuration (1)	1	1		
10.3.12	Aspect Ratio Conversion (1)	1	1		
10.3.13	Real Time Video Processing (1)	1	1		
10.3.14	Format Conversion: Real time up conversion, down conversion, cross conversion and SD/HD/Ultra HD standards conversion (1)	1	1		
10.3.15	Rack mount with accessories where needed (1)	1	1		



		19	19		
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11. AUDIO MIXING CONSOLE

More Info ...

Mixing Console	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
11.1 Full Physical Mixing Console			1	1	0	1	0	1	4
11.2 Virtual Mixer on Server		1							1

11.1 Mixing Console Minimum Specifications

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

More Info ...

11.1.1	Virtual control capabilities (1)	1	1		
11.1.2	Standards-based AES67 IP-Audio networking with SMPTE ST 2110-30/-31 and ST2022-7 compliance. (1)	1	1		
11.1.3	AES67 connections to router possible and enabled (1)	1	1		
11.1.4	OLED displays (160° visible angle) on control surface (1)	1	1		
11.1.5	Modular design with at least 12 Faders (1)	1	1		
11.1.6	Flush or counter-top mountings (1)	1	1		
11.1.7	Redundant power supply (1)	1	1		
11.1.8	Motorised faders (1)	1	1		
11.1.9	Long-life faders with dust protection (1)	1	1		
11.1.10	Internal tone generator (1 kHz) (1)	1	1		
11.1.11	Mix Minus Facility is crucial (1)	1	1		
11.1.12	Talkback facility (1)	1	1		
		12	12		

11.2 Virtual Mixer on Server

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

More Info ...

11.2.1	Remote Virtual control capabilities (1)	1	1		
11.2.2	Server included with minimum specs: <ul style="list-style-type: none"> Rackmountable Server (1) 1x CPU with 8 Processor Cores (1) 64Gb RAM (1) Redundant PSUs (1) 3x 500Gb SAS SSD drive (1) 2x 1Gbps Ethernet ports (1) MS Windows Server 2019 Std Licence. (1) 	7	7		
11.2.3	Standards-based AES67 IP-Audio networking with SMPTE ST 2110-30/-31 and ST2022-7 compliance. (1)	1	1		

11.2.4	AES67 connections to router possible and enabled (1)	1	1		
11.2.5	Internal tone generator (1 kHz) (1)	1	1		
11.2.6	Mix Minus Facility is crucial (1)	1	1		
11.2.7	Talkback facility (1)	1	1		
		13	13		

12. AUDIO & RADIO CAPTURE (AUDIO RECORDER)									
More Info ...									
	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
12.1. Audio Recording System		1	1	1		1	1	1	6
12.2. Telos iProfiler Recorder Upgrade	1				1				2
12.1. Audio Recording System Minimum Specifications						Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...									
12.1.1	Continuous recording from 7 days to up to 2 years, user selectable on each channel or ensemble, dependent on hardware and size. (1)					1	1		
12.1.2	Max Number of stereo inputs to be recorded - 24 (1)					1	1		
12.1.3	Record in Mono or Stereo (1)					1	1		
12.1.4	Capability or Option to record to NAS or external location (1)					1	1		
12.1.5	Format (Compressed or uncompressed) (1)					1	1		
12.1.6	Recording capacity: 6 months per input. (1) After 6 months, give the option to archive or overwrite. (1)					2	2		
12.1.7	Audio and Radio Capture Logging Software (1) Associated hardware I/O (1)					2	2		
12.1.8	Additional Capability to record: <ul style="list-style-type: none">FM (1)DAB+ (1)Internet Capture (1)					3	1		
12.1.9	FM RDS radio text logging. (1)					1	1		
12.1.10	If the solution is software based, include computer and associated software licenses if needed. (1)					1	1		
						14	12		
12.2. Telos iProfiler Recorder System (Upgrade)						Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...									
12.2.1	Rackmount Server for iProfiler (Min Specs) <ul style="list-style-type: none">Rackmountable Server (1)1x CPU with 8 Processor Cores (1)64Gb RAM (1)Redundant PSUs (1)3x 500Gb SAS SSD drive (1)2x 1Gbps Ethernet ports (1)MS Windows Server 2019 Std Licence. (1)					7	7		
						7	7		

13. MONITORING

More Info ...

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
13.1. Audio Monitoring Computer	1	2	2	1	1	2	1	1	11
13.2. Video monitors (SDI)	2	2	3	1	2	2	2	2	16
13.3. In-Rack (video monitor)	1	1	4	1	1	2	1	1	12
13.4. Network Monitoring & Measurement	1	1	1	1	1	2	1	1	9
13.5. Radio Tuners	3	4	4	3	3	4	3	2	26
13.6. TV 55" for Monitoring	1	2	1	1	2	6	2	1	16
13.7. Powered Speakers	2	2	4	2	2	6	2	2	22

13.1. Audio Monitoring Computer

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

More Info ...

13.1.1	AES67 AoIP Stream Monitoring Tool Software (1)	1	1		
13.1.2	SIP Connectivity (1)	1	1		
13.1.3	Min. Computer Spec: <ul style="list-style-type: none"> PC with Intel i7 quad-core CPU or better. (1) Dedicated graphics card. (1) Windows based. (1) 16Gb RAM, 2 Tb drive space. (1) Gigabit Ethernet LAN connection, PTP-aware. (1) 	5	5		
		7	7		

13.2. Video monitors (SDI)

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

More Info ...

13.2.1	SDI Video Input: Automatically switches between SD and HD (1)	1	1		
13.2.2	SDI Video Output: Re-clocked loop through output. (1)	1	1		
13.2.3	Multi Rate Support: Standard definition SDI, high-definition SDI (1)	1	1		
13.2.4	Approx. Physical Dimensions: 482x133mm (1)	1	1		
		4	4		

13.3. In-Rack (video monitor with built-in speakers)

Max
Points

Min
Points

Comply

Compliance response with
Vendor commitment and or
page reference for provided
supporting information

More Info ...

13.3.1	Supports: <ul style="list-style-type: none"> SMPTE ST 2110 (1) SMPTE ST 2022-6 (1) SMPTE ST 2022-7 (1) PTP/ST 2059 V2 (1) 	4	4		
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13.3.2	<u>SMPTE ST 2110-10, System architecture and synchronisation:</u> <ul style="list-style-type: none"> RTP (1) SIP (1) PTP (1) 	3	3		
13.3.3	SMPTE ST 2110-20, Uncompressed video transport Wide or Narrow types (1)	1	1		
13.3.4	SMPTE ST 2110-21, Traffic shaping and network delivery timing (1)	1	1		
13.3.5	SMPTE ST 2110-30, Audio transport profile level C, 16CH, 48Khz sample rate, 11ms/.125µs (1)	1	1		
13.3.6	SMPTE ST 2110-40, Transport of ancillary data (1)	1	1		
13.3.7	SMPTE ST 2022-7 seamless protection switching providing data loss protection (1)	1	1		
13.3.8	SMPTE ST 2022-6 supported (1)	1	1		
13.3.9	Ember+, NMOS, JT-NM Interoperability support (1)	1	1		
13.3.10	Management Interface support (NMOS, In-band) (1)	1	1		
13.3.11	Web UI / Ember+ Out-band control support (1)	1	1		
13.3.12	NMOS IS-04 discovery and registration (1)	1	1		
13.3.13	NMOS IS-05 device connection management (1)	1	1		
13.3.14	JTNM NMOS certification support (1)	1	1		
13.3.15	JSON snippet for NMOS control support (1)	1	1		
13.3.16	Ember+ monitor control support with extensive Ember+ tree control (1)	1	1		
13.3.17	Session Description Path "SDP" file support (1)	1	1		
13.3.18	IGMP V2 & V3 support (1)	1	1		
13.3.19	Min Screen Size: 24" (1)	1	1		
13.3.20	Style: Rackmount (Must include mounting accessories) (1)	1	1		
13.3.21	<u>Advanced Features:</u> <ul style="list-style-type: none"> Closed Caption 708/608 (1) Ember+ (1) IP2110-2022/7 (1) NMOS (1) JT-NM (1) Teletext 801 & OP-47 (1) Vector scope or Waveform (1) 4K/UHD (1) HDR (1) SFP Modules Compatibility (1) 	10	10		
13.3.22	<u>Control:</u> <ul style="list-style-type: none"> Ember+ (1) NMOS (1) Ethernet (1) RS232 (1) Wall Control System (1) 	5	4		
13.3.23	<u>H/W Decoding:</u> <ul style="list-style-type: none"> SMPTE ST-2022-7 (1) SMPTE ST-2110 (1) 	2	2		
13.3.24	<u>Video:</u> <ul style="list-style-type: none"> 12G (1) 	6	6		

	<ul style="list-style-type: none"> • 3G (1) • DVI (1) • HD-DL (1) • HDMI (1) • HDSI (1) 				
13.3.25	Audio: Embedded Digital Audio (1)	1	1		
		49	48		
13.4. Network Monitoring & Measurement		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
13.4.1	System Monitoring and Realtime Telemetry for Broadcast Networks (1)	1	1		
13.4.2	Vendor-agnostic software suite to provide full network and media visibility across an all-IP, all-SDI infrastructure (1)	1	1		
13.4.3	Software-defined networking solution (1)	1	1		
13.4.4	Must automatically interrogates live and dormant path connections to create the most intuitive and data rich presentation layers of a COTS-hybrid infrastructure (1)	1	1		
13.4.5	Supports a wide range of network protocols to build up rich graphic representations of the network infrastructure (1)	1	1		
13.4.6	Have a zero-footprint installation client side: and is accessible from a browser (1)	1	1		
13.4.7	Network telemetry and media packet monitoring on a single display (1)	1	1		
13.4.8	Scalable System (1)	1	1		
13.4.9	Discover and trace live media flows from origin to destination (1)	1	1		
13.4.10	In- and out-of-service alarm generation and reporting (1)	1	1		
13.4.11	High-performance inspection of mixed media flows (1)	1	1		
13.4.12	Visualise connectivity and bandwidth usage with precision (1)	1	1		
13.4.13	Comprehensive and unified presentation (1)	1	1		
13.4.14	Min. Computer Spec (To be Included and supplied) <ul style="list-style-type: none"> • Rackmountable Server (1) • 2x CPU with 8 Processor Cores (1) • 128Gb RAM (1) • Redundant PSUs (1) • 2x 1Tb SSD drive (1) • 2x 1Gbps Ethernet ports (1) • MS Windows Server 2019 Std Licence. (1) 	7	7		
		19	19		
13.5. Radio Tuners		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
13.5.1	Radio monitoring. FM Modulation unit (Audio Receiver) (1)	1	1		
13.5.2	Must support SIP (1)	1	1		
13.5.3	Supported: <ul style="list-style-type: none"> • DAB+ (1) • FM (1) 	2	2		

13.5.4	Rack mountable (1)	1	1						
13.5.5	Signal strength and modulation indicators (1)	1	1						
13.5.6	Web interface to examine logs and configuration/setup (1)	1	1						
13.5.7	RDS data decoding (1)	1	1						
13.5.8	Silence sensing (1)	1	1						
		9	9						
13.6. TV 55” for Monitoring		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information				
More Info ...									
13.6.1	UHD Video (1)	1	1						
13.6.2	LCD screen size – 55” (1)	1	1						
13.6.3	Minimum of 2 x HDMI ports (1)	1	1						
13.6.4	Built-in DVB-T (1)	1	1						
13.6.5	VESA Mount (1)	1	1						
		5	5						
13.7. Powered Speakers		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information				
More Info ...									
13.7.1	SPL - 105 dB (1)	1	1						
13.7.2	Frequency Response - 41 Hz - 21KHz (-6dB) (1)	1	1						
13.7.3	Connections - 1 x XLR Analog Input (1)	1	1						
13.7.4	Dimension - Approximately H 365 x W 237 x D 223 mm (1)	1	1						
13.7.5	Accuracy of Frequency Response of ± 2 dB (48 Hz - 20 kHz) (1)	1	1						
13.7.6	Amplifier Power - 90 W Bass (Class AB) + 90 W Treble (Class AB) or better (1)	1	1						
		6	6						
14. AUDIO PRE-PROCESSORS									
More Info ...									
	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
14.1. Sound Pre-Processor/Audio Leveller	1	10	4	4	1	3	2	1	26
14.1. Sound Pre-Processor/Audio Leveller						Max Points	Min Points	Comply	Compliance response with Vendor commitment and or

					page reference for provided supporting information
More Info ...					
14.1.1	RMS audio levelling (1)	1	1		
14.1.2	Controllable stereo enhancement, and multi-path reduction for FM radio stations (1)	1	1		
14.1.3	Plan B Silence Detection and Source Switching automatically reverts to auxiliary audio sources or on-board flash memory, keeping your broadcast on air. (1)	1	1		
14.1.4	HTML5, FTP, Telnet, SNMP & RS232 Remote Control with IP streaming allows. (1)	1	1		
14.1.5	Input/Outputs – Analog & AES via XLRs (1)	1	1		
14.1.6	Sampling rate 32kHz to 192kHz (MPX over AES) (1)	1	1		
14.1.7	Processing: <ul style="list-style-type: none"> AGC - 4 band stereo or sum & difference (1) Protection limiter - Dual band look-ahead (1) Crossover - 4 band adjustable (1) 	3	3		
		9	9		

15. TV DISTRIBUTION SYSTEM

There are many possibilities to do TV distribution in buildings, but we mention two here that will work for us, depending on price. Some system (we hope), may be able to do IP and analog distribution simultaneously.

TV Distribution System A (Coax):

Please indicate with a number 1 under your region, if you need an upgrade of the current coax-based system in next table:

TV System (A)	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
15.1 System A	1	1	1	1	1	1	1	1	8

15.1 uses the previous 75-ohm wiring, that we all have installed currently, but sends digital transmissions to the TVs using coax arial with DVBT video.

15.1. TV Analog Distribution System (Coax)	WC	KZN	EC	LIM	MP	NW	FS	NC
Sources	32	35	30	30	32	35	30	10

TV Distribution System B (IP, Network):

Please indicate with a number 1 under your region, if you need new IP based system, in next table:

TV System (B)	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
15.2 System B	1	1	1	1	1	1	1	1	8

15.2 will be a new IP based system on our LAN, using video streaming. Be careful here, as you may need decoders in some locations where you will not be using laptops or computers as a "TV".

15.2. IP TV Distribution System (Network)	WC	KZN	EC	LIM	MP	NW	FS	NC
Sources	32	36	38	36	32	40	30	10
Installed Locations (All)	64	68	60	70	65	60	30	10
Set Top Boxes (decoders)			10			35		

15.1. TV Distribution System (Using Coax, Aerial Tuner)

Max Points

Min Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

15.1.1	Converts 16 independent HD/SD HDMI video and audio signals to analog NTSC or PAL / SECAM channels (1)	1	1		
15.1.2	Rack-mountable 1RU for easy insertion into any headend (1)	1	1		
15.1.3	High picture quality thanks to the 16 HDMI inputs (1)	1	1		
15.1.4	Internal fans - self-cooling system for long life span (1)	1	1		
		4	4		

15.2. IP TV Distribution System (Network)

Max Points

Min Points

Comply

Compliance response with Vendor commitment and or page reference for provided supporting information

More Info ...

15.2.1	Converts 16 independent HD/SD HDMI video and audio signals to IP Streams for IP TV usage on the Local Area Network. (1)	1	1		
15.2.2	Include Set Top Boxes (numbers in above table) for areas without computers or laptops with direct IP TV access. (1)	1	1		
15.2.3	Smart TV Access for streams (1)	1	1		
15.2.4	Triple Play (1)	1	1		
		4	4		

16. PTP MASTER SYNC / MASTER CLOCK

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
16.1. PTP Clock Master Sync	1	1	1	1	1	1	1	1	8
16.2. Word clock DA	1	1	1	1	1	1	1	1	8
16.3. Digital Studio Wall Clock	2	2	4		2	2	2	2	16

16.1. PTP Clock Master Sync		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
16.1.1	PTP (IEEE 1588) support, including SMPTE ST 2059-2 and AES67 profiles (1)	1	1		
16.1.2	GPS/GLONASS-based synchronization gives an accurate time-of-day reference and deterministic video phase reference across multiple independent systems (1)	1	1		
16.1.3	Stay GenLock prevents synchronization shock when the external reference input signal is temporarily lost (1)	1	1		
16.1.4	Various Video test patterns in serial digital formats (SD, HD and 3G-SDI) (1)	1	1		
16.1.5	4K/UHD formats support with full frame 100% and 75% colour bars (Quad Link Square Division) (1)	1	1		
16.1.6	Dual hot-swappable power supplies ensure continuous availability of reference signals (1)	1	1		
16.1.7	Easy to manage with Web-based interface for remote configuration and SNMP for status and alert information (1)	1	1		
16.1.8	Sync pulse generator and time reference generator for broadcast, studio, mobile, and post-production facilities (1)	1	1		
16.1.9	Master or slave (genlock) operation for distributed system architectures (1)	1	1		
16.1.10	Video equipment verification, facility link testing, and display calibration (1)	1	1		
16.1.11	PTP Grand Master simultaneously serving baseband references to a hybrid facility (1)	1	1		
16.1.12	PTP slave to generate baseband signals (1)	1	1		
		12	12		
16.2. Word clock DA		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
16.2.1	Audio Input impedance - 75Ω (1)	1	1		
16.2.2	Inputs - 1 x BNC female (1)	1	1		
16.2.3	Outputs - 6 x BNC female (1)	1	1		
		3	3		

16.3. Digital Studio Wall Clock		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
16.3.1	Code Input: SMPTE/EBU ST 12-2 LTC Time Code 20kΩ balanced or unbalanced or optional NTP DQS-B6 (1)	1	1		
16.3.2	Ethernet 100 Base-TX IEEE 802.3u standard for 100Mb/s baseband CSMA/CD local area network (1)	1	1		
16.3.3	Ethernet 10 Base-T IEEE 802.3 standard for 10Mb/s baseband CSMA/CD local area network (1)	1	1		
16.3.4	Backup Battery (1)	1	1		
16.3.5	Powered: <ul style="list-style-type: none"> 12V DC, 15W auto ranging 100 to 240V AC, 50/60Hz (1) (adapter included) IEEE 802.3af PoE (1) 	2	1		
		6	5		

17. STORAGE

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
17.1. Network Attached Storage (NAS)	1	1	2	1	1	2	1	1	10
17.2. Postproduction Central Storage	1	1	1	1	1	2	1	1	9

17.1. Network Attached Storage (NAS)		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
17.1.1	Number of bays - 24 (1)	1	1		
17.1.2	Rackmount unit (1)	1	1		
17.1.3	Enterprise NAS (1)	1	1		
17.1.4	RAM – 64Gb or more (1)	1	1		
17.1.5	CPU – intel Xeon or better (1)	1	1		
17.1.6	Redundant Power Supplies (Supplied & Installed) (1)	1	1		
17.1.7	2 x 10Gbps Ethernet Connections (Supplied & Installed) (1)	1	1		
17.1.8	24 x 16Tb Enterprise NAS drives, compatible with the unit. (Supplied & Installed) (1)	1	1		
		8	8		
17.2. Postproduction Central Storage		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
17.2.1	Solution must encompass storage and network connectivity to the edit suites and ingest areas. {Most per region: 4 the rest can scale down}. (1)	1	1		
17.2.2	Redundant hot pluggable power supply units. (1)	1	1		
17.2.3	<ul style="list-style-type: none"> 19" rack mountable (1) Rack-mounting accessories (1) Cable management (1) 	3	3		
17.2.4	Capacity: at least 20TB (1)	1	1		
17.2.5	Performance: High throughput, with overhead that can handle at least x [insert format] concurrent in-place editing (1)	1	1		
17.2.6	No license restrictions on the number of (client) connections	1	1		
17.2.7	Support FCP7, FCPX, and Adobe Premiere Pro	1	1		
17.2.8	<u>Support SABC formats:</u> <u>Video:</u> <ul style="list-style-type: none"> AVC-Intra 100 for HD (High Definition) (1) MXF OP1a & XDCAM HD50i (1) IMX50 / MXF OP1a for SD (Standard Definition) (1) Mpeg4 for Visual Radio (1) 	7	7		

	<ul style="list-style-type: none"> Proxy (low resolution content to be determined by solution provider) (1) <p><u>Audio:</u></p> <ul style="list-style-type: none"> Audio media: media content at Mpeg 1 – layer2 (384kb/s 48khz) (1) Wav (24bit, 48khz) (1) 				
17.2.9	Must be heterogeneous (General purpose Storage) (1)	1	1		
17.2.10	<p><u>Limits:</u></p> <ul style="list-style-type: none"> If limited, only limit Media per Asset, browser. (1) No limit on connected users (1) <u>No per-seat licenses</u> (1) 	3	3		
17.2.11	Expandability (1)	1	1		
17.2.12	Supports switched connectivity instead of direct (1)	1	1		
17.2.13	Web based management tools that allows live configuration, monitoring, upgrading. (1)	1	1		
17.2.14	Unified namespace for the logical volume (1)	1	1		
17.2.15	Optimised for media (playback, multi-stream, recording, transcoding). (1)	1	1		
17.2.16	Proxy generation (1)	1	1		
17.2.17	Retention (1)	1	1		
		27	27		

18. SENSORS

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
18.1. GSM Connected Sensors System	1	1	1	1	1	3	1	1	10

18.1. GSM Connected Sensors System		Max Points	Min Points	Comply	Compliance response with Vendor commitment and or page reference for provided supporting information
More Info ...					
18.1.1	Sensor System using GSM & TCP/IP network (1)	1	1		
18.1.2	Temperature Probes for 12 devices included. (1)	1	1		
18.1.3	Must provide real-time temperature values from -40° to 85° Celsius (1)	1	1		
18.1.4	Send critical temperature alert. (1)	1	1		
18.1.5	Alerting via dashboard,sms and email (1)	1	1		
18.1.6	1 x Humidity sensing device (1)	1	1		
18.1.7	12 x Programmable Relay I/O (1)	1	1		
		7	7		
Totals:		501	497		

3 THE RESPONSE FORMAT

Vendors are requested to respond to the tender in the following formats:

3.1 Technical Response

A point-by-point response is required, i.e. a comment for each point or paragraph that is associated with the numbering should be made.

The response to technical requirements must state "Comply" or "Non-Comply." The vendor must further specify how the system/product meets or differs, for each aspect as stated below, including references or supporting information to clarify the response. A mere "Comply" or "Partially Comply" statement or no response, without detail shall be seen as "Non-Compliant" and will be scored as such.

3.2 Pricing Breakdown Model

3.2.1 All hardware, software and licenses, installation, integration, training and support etc. must be specified, broken down into individual elements on a Bill of Materials (BOM) and the pricing of each, specified on hard copy (paper copy) and in soft copy (Excel format).

3.2.2 Bidders must provide a detailed cost breakdown by pricing all items for the delivery of **a total solution** as per the specification. All deviations should be stipulated as options with the indicative unit prices.

3.2.3 Supplier must provide the product specifications of the hardware and software of the items priced.

3.2.4 Bidders must submit unit and total pricing in SA Rands (Excluding VAT), and where applicable, use the Foreign currency rate below to calculate the Rand value. Use Annexure A to indicate the total amount subject to exchange rate variation.

R/\$ 17.14, R/€ 17.07, R/£ 19.85

4 EVALUATION CRITERIA

Bidders should note that only bidders who met the **Mandatory Documents Criteria** of the bid shall be evaluated further for Functionality (where indicated), Price and B-BBEE.

Responses will be evaluated using a predetermined set of evaluation criteria. The evaluation criteria is designed to reflect the SABC's requirements in terms of identifying a suitable service provider and ensure the selection process is transparent and afford all the bidders a fair opportunity for evaluation and selection.

5.1 Functionality Evaluation

The evaluation is based on functionality, which will be evaluated using the following criteria and points:

- 5.1.1 The tender submission **(phase 1)** will be technically evaluated out of a **minimum of 497** and a **maximum of 501**.
- 5.1.2 The tender submission **(phase 2)** will be functionally evaluated out of a **minimum 125** and a **maximum of 135**.
- 5.1.3 All bidders achieving less than the set threshold will be declared non-responsive and therefore will not continue forward for evaluation of **BBBEE & Price Preference**.

5.2 PHASE 1: TECHNICAL CRITERIA:

Phase 1:

Evaluation Area	Evaluation Criteria	Min Points	Max Points
Compliance to Technical Specification	<p>Complete compliance with the technical specifications as detailed in section 2.2.1 of the RFP document Compliance with the technical specifications as detailed in the tender document:</p> <p>Provide full details of the proposed product.</p> <p>Non-compliance with any of the above = 0 points</p> <p>Bidder to submit brochures with the list of specifications for the proposed equipment, including page numbers, in the response, of where information can be found.</p>	497	501
Total		497	501

- 5.2.1 The above-mentioned technical criteria have a **minimum threshold of 497** and a **maximum threshold of 501**, indicating that all that the requirements must be complied with.
- 5.2.2 Should the bidder not meet the threshold set, they will be deemed non-compliant with the above criteria, and they will be disqualified and not be evaluated further.

5.3 PHASE 2: FUNCTIONALITY CRITERIA:

5.3. Training

The training offering related to the proposed solutions are essential and needs to establish expertly trained Technical Support and Operational teams. Training manuals, online training (i.e., WebEx and VOD material), and system manuals is necessary to ensure available online and all relevant documentation for future reference is accessible.

	WC	KZN	EC	LIM	MP	NW	FS	NC	TOTAL
Operational	10	10	10	10	5	4	6	2	57
Technical	8	7	7	7	4	4	3	1	41

5.3.	Training Plan on full proposed solution must provide the following:			
5.3.1.	<p>Bidder proposal must include - operational training (details of training i.e., Number of sessions, duration per session, number of trainees per session, training program)</p> <p>1. Operational training for all equipment that forms part of the solution, 57 trainees = 5 Points</p> <p>2. Details of the training program = 5 Points</p> <p>3. Operational attendance training certificates issued to staff on completion of the training = 5 Points</p>	15	15	
5.3.2	<p>Bidder proposal must include technical training (details of training e.g., Maintenance and repair, configuration training i.e., Number of sessions, duration per session, number of trainees per session training program)</p> <p>1. Technical training for all equipment that forms part of the solution, 41 trainees = 5 Points</p> <p>2. Details of training program = 5 Points</p> <p>3. Technical attendance training certificates issued to staff on completion of the training = 5 Points</p>	15	15	
5.3.4	<p>Bidder proposal must include all manuals and training materials with online video for the above courses = 5 Points</p> <p>(Bidder to commit)</p>	5	5	
5.3.5	<p>Bidder to cost for both physical (Practical, on-site) and virtual training. = 5 Points</p> <p>Must include subsistence and travel.</p>	5	5	

5.4. Project implementation and commissioning

5.4.	The Project Implementation and Plan must provide the following:			
5.4.1.	<p>All additional/unidentified/unforeseen cabling required must be included in the installation cost (no variation orders will be accepted) (Bidder to commit to this statement). = 5 Points</p>	5	5	
5.4.2.	<p>The SABC "Studio Technology Installation Standards Document" is the standard for all SABC installations. It</p>	5	5	

	will be the standard used for wiring and must be adhered to. Failure to comply will prevent “Racking and Cabling” sign-off. As this is mandatory, the Installation Standards Document will be made available upon request. (Bidder to commit to this statement). = 5 Points			
5.4.3.1	<p>Bidder to provide installation plan and schedule are required as part of the tender submission. A copy response to be in A3 (pdf) and softcopy in MS Projects format with milestones to be measured:</p> <p>Project Plan including Method Statement</p> <p>A proposed Project Plan (e.g. GANTT chart) including method statement that responds to the Scope of Work and timelines outlining the proposed solution.</p> <ul style="list-style-type: none"> Project plan must include the list of activities to successfully complete the project = 5 Points Non-compliance with all the above = 0 points <p>Include anticipated timelines, milestones, and project duration (from time of contract approval)</p> <ul style="list-style-type: none"> below 12 months = 5 points more than 12 months = 0 points <p>Note: Bidder to note that utilization of SABC facilities is 24/7 hence work might need to take place after hours or on weekends.</p>	10	10	
5.4.4	Compliant drawing formats			
5.4.4.1	<p>Bidder commitment to provide drawings and cable numbering to the SABC (.dwg format to the SABC as part of the installation submission and as implemented) DWG format or other importable CAD formats = 5 Points</p> <p>(Bidder to commit)</p>	5	5	
5.4.5	Systems configuration, commissioning, and testing			
5.4.5.1	<p>System configurations testing to support the new proposed functional workflows are required (must be included as part of project schedule). Commissioning comprises of the below but not limited to: = 15 Points</p> <ul style="list-style-type: none"> Quality acceptance; for the installation of the solution = 5 Points User acceptance testing (UAT) = 5 Points Commissioning documentations from the bidder to comply with the offered system. = 5 Points <p>Note: The final acceptance will be concluded 21 days after the handholding and go-live process. Bidder to commit to these requirements.</p>	15	15	

5.5. Maintenance, Support and Spares Holding				
5.5.	<p>To note: Technical Support is critical and the SABC define it as follows:</p> <ul style="list-style-type: none"> 1st line support SABC Technical Team to be trained to provide the first-line support directly to the Users - SABC staff. 2nd line support SABC Technical Team to setup, configure and do on-site repairs of the equipment with support from the service provider and or OEM(s) as required for board level repairs and swap-outs. 3rd line support by the Vendor, Service Provider and or OEM(s) to provide component level repairs. <p>Bidders will be evaluated on their ability to provide a meaningful technical support plan for the system offered:</p>			
5.5.1.	<p>Future system upgrades within the first calendar year will not be at a cost to the SABC and must be provided by the supplier = 5 Points</p> <p>(Bidder to commit).</p>	5	5	
5.5.2.	<p>Bidder to state warranty of components of the system.</p> <p>Warranty period for all hardware, software and integrations done must be specified and a warranty of 1 year (12 months) will be the required as a minimum.</p> <ul style="list-style-type: none"> 1-year (12 months) warranty = 5 points >1 year (>12 months) or more at no cost warranty = 10 points Warranty must be affected only once equipment is commissioned = 5 Points (Bidder to commit) 	10	15	
5.5.3.	<p>The SABC does not wish to enter into Mandatory SLA (Service Level Agreement) agreements for hardware purchases therefore the SABC needs access to the local bidder for technical support without an SLA (Bidder to commit).</p> <p>Indicate the repair and support of the provided solution(s) outside an SLA, i.e., time and material costing of repairs is accommodated = 5 points</p> <p>Mandatory SLA = 0 points (SABC will not enter into mandatory SLA's)</p> <p>Note: Bidder to include optional 3-year SLA as part of costing.</p>	5	5	
5.5.4.	<p>A procedure for upgradeability for future upgrades; software or hardware is also required, i.e., allowing the SABC access to the technical information to keep the system upgraded and on the latest versions of software = 5 Points (Bidder to commit).</p>	5	5	

5.5.5.	Bidder to confirm that equipment is not obsolete or end-of-life when purchased but can be supported at least 10 years from date of delivery. (Provide product life cycle as evidence) = 5 Points	5	5	
5.5.6.	Commitment to supply spares and spares exchange by the local bidder within 7 days = 5 points	5	5	
5.6. Equipment delivery time frame				
5.6.1	The successful bidder (local or international) shall be responsible and bear all costs associated with the shipping of equipment and material to the 8 regional offices (Western Cape, Northwest, Limpopo, Free State, Northern Cape, Eastern Cape, Mpumalanga & KwaZulu Natal). = 5 Points (Bidder to commit)	5	5	
5.6.2	Clearly indicate the expected equipment delivery timeline to the SABC from date of purchase order for one of the bullets point below: <ul style="list-style-type: none"> < 12 weeks delivery = 10 points > 12 weeks delivery delay due to component shortages and OEM letter as confirmation = 5 points > 12 weeks delivery with no OEM letter = 0 points <p>The SABC understands the industry wide component shortages the world is facing and requires the Bidder to still comply with timeline indication stating equipment delivery challenges by providing a Signed OEM letter from the manufacturer as evidence that specifies their challenges with component shortages clarifying delivery delays.</p>	5	10	
Total		125	135	

5.3.1 The above-mentioned technical criteria have a **minimum threshold of 125** and a **maximum threshold of 135**, indicating that all that the requirements must be complied with.

5.3.2 Should the bidder not meet the threshold set, they will be deemed non-compliant with the above criteria, and they will be disqualified and not be evaluated further.

5.4 BBBEE and Price

The bid responses will be evaluated on either 80/20 or 90/10 point system, whichever is applicable. Bidders are to provide detailed breakdown of all direct and indirect costs associated with the contract, including licence fees if any.

5.5 Financial Stability

The financial stability evaluation is used to assess the financial risk of the shortlisted bidders.

FINANCIAL STABILITY

Respondents are required to submit their audited financial statements for the past 3 years with their Proposal/Bid in order to enable the SABC to establish financial stability as follows:-

Area		Assessment Criteria
Financial Diligence	Due	Bidders financial due diligence will be assessed based on submitted audited financial statements using financial ratios, where applicable.

5.6 Objective Criteria

- 5.6.1 The SABC reserve the right not to consider proposals from bidders who are currently in litigation with the SABC.
- 5.6.2 The SABC further reserve the right not to award this tender to any bidder based on the proven poor record of accomplishment of the bidder in previous projects within the SABC.
- 5.6.3 Bidders who are blacklisted or have committed other acts of fraud and misrepresentation of facts e.g. tax compliance, BBBEE, company financials, etc. will be eliminated from the bid process.

END OF DOCUMENT E

DOCUMENT F

CONFIDENTIALITY

All information related to this bid both during and after completion is to be treated with strict confidence. Should the need however arise to divulge any information gleaned from the service which is either directly or indirectly related to the SABC, written approval to divulge such information will have to be obtained from SABC.

The bidders must ensure that confidential information is: maintained confidential; not disclosed to or used by any unauthorised person; so as to prevent any disclosure or unauthorised use with at least the standard of care that bidders maintain to protect their own confidential information; only used for the purpose of considering and responding to this RFP; and not reproduced in any form except as required for the purpose of considering and responding to this bid. Bidders must ensure that: access to confidential information is only given to those of its partners, officers, employees and advisers who require access for the purpose of considering and responding to this RFP; and those partners, officers, employee and advisers are informed of the confidential information section and keep that information confidential. This bid remains at all times the property of the SABC. No rights other than as provided in this bid and in respect of the confidential information are granted or conveyed to bidder/s

NAME OF BIDDER: _____

PHYSICAL ADDRESS: _____

Bidder's contact person: Name : _____

Telephone : _____

Mobile : _____

Fax.: _____

E-mail address : _____

END OF DOCUMENT F

DOCUMENT G
SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1.0 GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the **80/20** system for requirements with a Rand value above R30 000 (all applicable taxes included).

1.2 The value of this bid is estimated to exceed R30 000 (all applicable taxes included) and therefore the.....**90/10**.....system shall be applicable.

1.3 Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

1.3.1 The maximum points for this bid are allocated as follows:

	POINTS
1.3.1.1 PRICE	90
1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION	10
Total points for Price and B-BBEE must not exceed	100

1.4 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5 The SABC reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the SABC.

2.0 DEFINITIONS

- 2.1 “**all applicable taxes**” includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 “**B-BBEE**” means broad-based black economic empowerment as defined in section 1 of the Broad -Based Black Economic Empowerment Act;
- 2.3 “**B-BBEE status level of contributor**” means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 “**bid**” means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- 2.5 “**Broad-Based Black Economic Empowerment Act**” means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- 2.6 “**comparative price**” means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- 2.7 “**consortium or joint venture**” means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- 2.8 “**contract**” means the agreement that results from the acceptance of a bid by an organ of state;
- 2.9 “**EME**” means any enterprise with an annual total revenue of R10 million or less as per the Amended Codes of Good Practice (COGP).
- 2.10 “**Firm price**” means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 “**functionality**” means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 “**non-firm prices**” means all prices other than “firm” prices;

- 2.13 “**person**” includes a juristic person;
- 2.14 “**rand value**” means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.15 “**sub-contract**” means the primary contractor’s assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.16 “**total revenue**” bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.17 “**trust**” means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.18 “**trustee**” means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3.0 ADJUDICATION USING A POINT SYSTEM

- 3.1 The bidder obtaining the highest number of total points will be awarded the contract.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;.
- 3.3 Points scored must be rounded off to the nearest 2 decimal places.
- 3.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

4.0 AWARDED FOR PRICE

4.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for comparative price of bid under consideration

P_t = Comparative price of bid under consideration

P_{\min} = Comparative price of lowest acceptable bid

5.0 Points awarded for B-BBEE Status Level of Contribution

15.1 In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

6.0 BID DECLARATION

- 6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7.0 B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1

- 7.1 B-BBEE Status Level of Contribution:..... =(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE affidavit or certificate issued by a Verification Agency accredited by SANAS.

8.0 SUB-CONTRACTING

- 8.1 Will any portion of the contract be sub-contracted? YES / NO (delete which is not applicable)

- 8.1.1 If yes, indicate:

(i) What percentage of the contract will be subcontracted?

.....%

(ii) The name of the sub-contractor?

.....

(iii) The B-BBEE status level of the sub-contractor?

.....

(iv) Whether the sub-contractor is an EME? YES / NO (delete which is not applicable)

9.0 DECLARATION WITH REGARD TO COMPANY/FIRM

9.1 Name of company/firm:

.....

9.2 VAT registration number:

.....

9.3 Company registration number

.....

9.4 Type Of Company/ Firm

☐ Partnership/Joint Venture / Consortium

☐ One person business/sole propriety

☐ Close corporation

☐ Company

☐ (Pty) Limited

[TICK APPLICABLE BOX]

9.5 Describe Principal Business Activities

.....
.....
.....
.....

Company Classification

☐ Manufacturer

☐ Supplier

☐ Professional service provider

☐ Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

9.6 Total number of years the company/firm has been in business?

9.7 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct;
- (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish

documentary proof to the satisfaction of the SABC that the claims are correct;

- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the SABC may, in addition to any other remedy it may have;
- (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution

WITNESSES:

1.
.....

SIGNATURE(S) OF BIDDER(S)

2.

DATE:

ADDRESS:

.....
.....
.....
.....

END OF DOCUMENT G

DOCUMENT H
SBD 8

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1.0** This Standard Bidding Document must form part of all bids invited.
- 2.0** It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3.0** The bid of any bidder may be disregarded if that bidder, or any of its directors have-
- a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4.0** In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		

4.3	Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME).....
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

END OF DOCUMENT H

DOCUMENT I

SBD 9

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1.0 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2.0 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3.0 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
- a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4.0 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5.0 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for SABCs who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid RPF: **RFP/RBF/2022/43**

in response to the invitation for the bid made by: **South African Broadcasting Corporation
SOC Limited "SABC"**

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and

conditions or delivery particulars of the products or services to which this bid invitation relates.

9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature	Date
.....
Position	Name of Bidder

END OF DOCUMENT I

DOCUMENT J

ACCEPTANCE OF CONDITIONS OF BID

By signing the BID document, the Bidder is deemed to acknowledge and accept that all the conditions governing this BID, including those contained in any printed form stated to form part thereof and SABC Limited will recognize no claim for relief based on an allegation that the Bidder overlooked any such condition or failed properly to take it into account for the purpose of calculating bided prices or otherwise.

SIGNEDat_____this_____day of
_____2022

NAME OF COMPANY _____

NAME OF THE SIGNATORY (IES)_____

CAPACITY:_____

Are you authorised to sign on behalf of the company (YES/NO) _____

WITNESSES:

1. _____

2. _____

BIDDER

END OF DOCUMENT J

END OF THE REQUEST FOR PROPOSAL DOCUMENT

ANNEXURE A

TENDER PRICE SUMMARY

BREAKDOWN OF AN ALL-INCLUSIVE TENDER PRICE

Fixed Amount (Duration of Contract) R_____

Variable Amount (Exchange Rate dependent) R_____ @USD=R17.14

_____ @EURO= R17.07

_____ @GBP= R19.85

SUB TOTAL R_____

Add 15% Vat R_____

TOTAL TENDER AMOUNT R_____

BIDDER DETAILS:

Name of Tenderer:

Address:

E-mail address:

Telephone: _____

Signature: _____

Date: _____