

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

Proposal To: Public Works and Government
Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition aux: Travaux Publics et Services
Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Sound, Light and IT Equipment	
Solicitation No. - N° de l'invitation C1111-140464/A	Date 2014-12-24
Client Reference No. - N° de référence du client C1111-140464	
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-329-66450	
File No. - N° de dossier hn329.C1111-140464	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-01-16	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Dumaresq, Steve	Buyer Id - Id de l'acheteur hn329
Telephone No. - N° de téléphone (819) 956-3487 ()	FAX No. - N° de FAX (819) 953-4944
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF CANADIAN HERITAGE (25-11-V) 25 EDDY ST Gatineau Quebec K1A0M5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Electrical & Electronics Products Division
11 Laurier St./11, rue Laurier
7B3, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation

C1111-140464/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hn329C1111-140464

Buyer ID - Id de l'acheteur

hn329

Client Ref. No. - N° de réf. du client

C1111-140464

CCC No./N° CCC - FMS No/ N° VME

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Achatsetventes.gc.ca

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this solicitation.

2. Requirement

The contractor must provide the sound and lighting equipment in accordance with the technical requirements and quantities stated herein at Annex A. Destination: 25 Eddy Street, Gatineau, Qc.

A bidder can submit a proposal on one (1) or more of the sections A to G presented at Annex A. Each submitted section will be technically and financially evaluated as a complete and individual bid.

2.1 Delivery Requirement

Delivery to destination (Ottawa, Ontario) is requested for no later than 31 March 2015. No installation required.

3. Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) calendar days

1.1 SACC Manual Clauses

SACC Reference	Section	Date
A9033T	Financial Capability	2012-07-16
B1000T	Condition of Material	2014-06-26
B3000T	Equivalent Products	2006-06-16

2. Submission of Bids

Bids must be submitted ONLY TO THE BID RECEIVING UNIT by the date, time and place indicated on page 1 of the bid solicitation. Do not send proposal directly to the Contracting Officer. Email proposals not accepted.

PWGSC Bids Receiving Unit
 11 Laurier Street
 Place du Portage, Phase 3, Core 0A1
 Gatineau, Québec, K1A 0S5
 Tel.: 819-956-3366

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered. Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

Steve Dumaresq (steve.dumaresq@pwgsc-tpsgc.gc.ca)

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario. Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies and 2 soft copies on CD/DVD)

Section II: Financial Bid, Certifications and Additional Information (1 hard copy and 1 soft copy on CD/DVD)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

SECTION I: TECHNICAL BID (2 hard copies and 2 soft copies on CD/DVD)

In their technical bid, bidders must explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

SECTION II: FINANCIAL BID, CERTIFICATIONS AND ADDITIONAL INFORMATION (1 hard copy and 1 soft copy on CD/DVD)

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

1.1 Exchange Rate Fluctuation

The requirement does not provide for exchange rate fluctuation protection. Any request for exchange rate fluctuation protection will not be considered and will render the bid non-responsive.

1.2 Certifications

Bidders must submit the certifications required under Part 5 prior to contract award.

1.3 Additional Information

1.3.1 Procurement Business Number (PBN) (Canadian suppliers)

<https://buyandsell.gc.ca/for-businesses/register-as-a-supplier>

The Procurement Business Number of the supplier is: _____

Note: Not mandatory at bid closing but required precedent to contract award.

1.4 Delivery Offered

Bidder's best estimated delivery date for all equipment: _____

1.5 Contractor Representatives

Name and telephone number of the person responsible for:

General enquiries

Name: _____

Telephone: _____

Facsimile: _____

E-mail: _____

Delivery follow-up

Name: _____

Telephone: _____

Facsimile: _____

E-mail: _____

1.6 This proposal is being submitted for the following section(s) of Annex A:

Section A _____

Section B _____

Section C _____

Section D _____

Section E _____

Section F _____

Section G _____

A bidder can submit a proposal on one (1) or more of the sections A to G presented at Annex A. Each submitted section will be technically and financially evaluated as a complete and individual bid.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria. All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Technical compliance to the requirement presented herein and at Annex A.

A bidder can submit a proposal on one (1) or more of the sections A to G presented at Annex A. However, each submitted section will be technically evaluated as a complete and individual bid. Any cross-referencing between bids (i.e. sections) will be deemed as non-compliant to evaluation criteria.

Simply stating a compliancy to any criteria is insufficient. Bidders must present a clearly organized proposal that includes all necessary technical and descriptive information, in order to clearly demonstrate their compliancy to all items presented at Annex A. Responses will be evaluated on a simple, stringent pass/fail basis. Proposals not meeting each mandatory requirement will be considered non-responsive (non-compliant) and given no further consideration.

For each section receiving a bid, the bidder must submit one (1) complete list of equipment without pricing, for technical evaluation, and one (1) complete list with pricing for financial evaluation.

1.2 Financial Evaluation

Compliance with the pricing requirements presented herein.

Completion of an Annex B, Pricing Schedule for each section receiving a bid.

A bidder can submit a proposal on one (1) or more of the sections A to G presented at Annex A. However, each submitted section will be financially evaluated as a complete and individual bid. Any cross-referencing between bids (i.e. sections) will be deemed as non-compliant to evaluation criteria.

The bidder must submit a detailed cost breakdown to justify the total cost of the section receiving a bid. All line items must have unit prices and total cost.

The total evaluated bid price, for each section, will be the sum of all line items for that section.

1.3 Pricing Basis

The bidder must quote firm unit prices in Canadian dollars, DDP Delivered Duty Paid (Gatineau, Qc), with applicable taxes extra, as applicable. Freight charges to destination must be included. All applicable Custom duties and Excise taxes must be included.

1.4 Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all evaluation criteria to be declared responsive. The responsive (compliant) bid with the lowest evaluated price on an aggregate basis, for each section, will be recommended for award of a contract. Contracts will be awarded on a per section basis.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website. Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

1.3 General Environmental Criteria Certification

By submitting the bid, the bidder certifies that the information submitted in the General Environmental Criteria table below (1.3.1) is accurate and complete. By submitting the bid the Bidder certifies that it meets, and will continue to meet throughout the duration of any resulting contract, a minimum of four (4) out of seven (7) requirements identified in the General Environmental Criteria Table. Table 1.3.1 is not mandatory at bid closing but required precedent to contract award.

1.3.1 General Environmental Criteria Certification Table

Green practices within supplier's organization:	Insert a checkmark for each criteria that is met
Promotes a paperless environment through directives, procedures and/or programs.	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client.	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification.	

<p>Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.</p>	
<p>Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.</p>	
<p>A minimum of 50% of office equipment has an energy efficient certification.</p>	
<p>Registered to ISO 14001 or has an equivalent environmental management system in place.</p>	

PART 6 - RESULTING CONTRACT CLAUSES**1. Security Requirement**

There is no security requirement associated with the Contract.

2. Requirement

The contractor must provide the goods and related services in accordance with the technical requirements stated herein and at Annex A.

2.1 SACC Manual Clauses

SACC Reference	Section	Date
B1501C	Electrical Equipment	2006-06-16
B7500C	Excess Goods	2006-06-16

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2014-09-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract**4.1 Period of Contract**

Delivery of the sound and lighting equipment is scheduled for no later than: _date (delivery date proposed by the bidder).

5. Authorities**5.1 Contracting Authority**

Steve Dumaresq
Public Works and Government Services Canada
Acquisitions Branch
Logistics, Electrical, Fuel and Transportation Directorate, "HN" Division
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5

Telephone: (819) 956-3487
Facsimile: (819) 953-4944
E-mail address: steve.dumares@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Technical Authority

Name: will be inserted at contract
 Title: will be inserted at contract
 Telephone: (xxx) xxx-xxxx
 Facsimile: (xxx) xxx-xxxx
 E-mail: will be inserted at contract

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Contractor's Representative

General Enquiries

Name: will be inserted at contract
 Telephone: will be inserted at contract
 Facsimile: will be inserted at contract
 E-mail: will be inserted at contract

Delivery Follow-up

Name: will be inserted at contract
 Telephone: will be inserted at contract
 Facsimile: will be inserted at contract
 E-mail: will be inserted at contract

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in the contract, for a total cost of \$ __ (*projected to be total amount proposed by bidder*). Firm unit prices in Canadian dollars, DDP Delivered Duty Paid (destination), with applicable taxes extra, as applicable. Freight charges to destination included. All applicable Custom duties and Excise taxes included. Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.2 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

6.3 SACC Manual Clauses

SACC Reference	Section	Date
G1005C	Insurance	2008-05-12

7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

Department of Public Works and Government Services
"HN" Division
7B3 Place du Portage, Phase III
11 Laurier Street, Gatineau, QC K1A 0S5
Attention: Steve Dumaresq

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) 2010A (2014-09-25) General Conditions – Goods (Medium Complexity);
- (c) annex __, Statement of Work;
- (d) annex __, Pricing Schedule;
- (e) annex __, Federal Contractors Program for Employment Equity - Certification
- (f) the Contractor's bid dated _date_.

11. SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
D9002C	Incomplete Assemblies	2007-11-30

11.1 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) (destination) Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A" - Statement of Work

Equipment list for the Sound and Light renewal

The bidders can bid on all or a portion of the following 7 sections (A to G) of the equipment list. Equivalent products where permitted must meet all specifications of the original equipment selection. Where the substitution(s) vary in specifications, the bidder at his expense must provide the proposed substitution so the design team can verify the equipment conformity

Section "A" (1 to 7)

1.0 Video Projectors and Lenses

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
1.1	Christie	HD20K-J projector	132-017110-XX	20 K lumens 1920X1080	17
1.2	Christie	2.6-4.1 lens	118-100114-01	Absolute ratio 2.87	2
1.3	Christie	1.8-2.6 lens	118-100113-01	Absolute ratio 2.40	3
1.4	Christie	accessory	108-331108-01	Lens adaptor	12

All video projectors must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

All video projectors must come with an approved and installed professional grade L6-30 connector

All Christie products must come with the full Christie warranty in Canada for parts and labour

2.0 Matrix Frame

A no substitution clause applies for the following reasons:

- 65 input / 65 output matrix (with local input and preview output built into CPU), upgradable to an 80 input / 80 output matrix for potential future expansion.
- For the inputs of the matrix itself, there must be options that include all of the following: Local HDMI Inputs (1.3 or 1.4), local DVI Inputs, HDBaseT inputs as well as Fiber Optic Inputs (for remote sources).
- Matrix must have Genlock switching capabilities (bi-level, tri-level, TTL for any Input).
- All products listed on spec must be currently available for shipping by the manufacturer.

Identifiers	Make	Model Type	Model Number	Specifications brief	Quantity
2.1	Lightware	Crosspoint router frame MX-FR65R	9111 0005	48 IN DVI // 24 OUT DVI LC + 24 HDMI 1.4	1
2.2	Lightware	Input board MX-DVI-HDCP-1B	9112 0002	DVI/HDMI/HDCP IN Single Link (8IN)	6
2.3	Lightware	Output board MX-DVI-OPT-OB-R-LC	9113 0015	Fiber optical Output board with Pixel Accurate Relocking	3
2.4	Lightware	Output board MX-HDMI-3D-OB	9113 0005	HDMI output board including 4K, 3D and Deep Color	3
2.5	Lightware	Fiber receiver DVI-OPT-RX110	9151 0002	Small form factor DVI fiber receiver	20

All router frame and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Lightware products must come with the full Lightware warranty in Canada for parts and labour

3.0 Composite Distribution Amplifiers

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
3.1	Kramer	Composite DA	VM50V	1:5 Composite Video Distribution Amplifier	1
3.2	Kramer	Composite DA	PT-102VN	1:2 Composite Video Distribution Amplifier	1
3.3	Kramer	Accessory	RK-1	Rack mount for VM50V	1

Distribution equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Kramer products must come with the full Kramer warranty in Canada for parts and labour

4.0 Multi view equipment

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
4.1	Avitech	Chassis and power supply	Titan-9000-C	4 Slot chassis	2
4.2	Avitech	Input/Output card	Titan 9000-4H	4 HDMI in +1 HDMI out	5
4.3	Avitech	Input/Output card	Titan 9000-2H2V	2 HDMI in+ 2 DVI in+ 1 HDMI out	1
4.4	Avitech	Input/Output card	Rainier 3G plus 1	4 x SDI(3G/HD/SD) HDMI out/1080P/720P	1

Multi view equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Avitech products must come with the full Avitech warranty in Canada for parts and labour

5.0 Video monitors

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
5.1	Dell	23 inch Video monitor	P2314H	1920x1080 DVI-D and VGA in	5
5.2	NEC	32 inch Video monitor	V323	1920x1080	6
5.3	NEC	Wall Mount	WMK-3255S	NEC 32 inch wall mount	4

Monitor equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Dell products must come with the full Dell warranty in Canada for parts and labour

All NEC products must come with the full NEC warranty in Canada for parts and labour

6.0 Video camera and peripherals

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
6.1	Sony	PTZ Camera	BRCH700	HD 1/3 type 3CCDs P/T/Z Color Video Camera	1
6.2	Sony	Fiber module	BRBKH700	HD Optical Multiplex Card for BRC-H700	1
6.3	Sony	Optical Multiplex	BRUH700	HD Optical Multiplex Unit for BRC-H700/Z700	1
6.4	Sony	Optical unit HDSI card	HFBKHD1	HD SDI Output Board	1
6.5	Sony	Rack mount kit	RMMBRU	BRU rack mount kit	1
6.6	Sony	Remote control	RMBR300	Remote Control Unit for the BRC-300 / H700 / Z700 / Z330 / H900	1

All camera and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period. A demonstration to qualify the substitution may be requested.

All Sony products must come with the full Sony warranty in Canada for parts and labour

7.0 KVM equipment

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
7.1	Aten	Console	CS428	Multi-console 8-Port PS/2 KVM Switch	2
7.2	Aten	Cable	2L-1701P	DB25 to HDB,PS/2 and Audio	8
7.3	Aten	Cable	2L-1701S	DB25 to HDB,PS/2 and Audio	4
7.4	Aten	Console	CS1754	4-Port PS/2-USB KVM Switch	2
7.5	Aten	Cable	2L-5301U	DB25 to HDB,USB and Audio	8

All KVM and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Aten products must come with the full Aten warranty in Canada for parts and labour

Section “B” (8 to 11)

8.0 Meyer Audio equipment

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
8.1	Meyer	Array Speaker	LYON-W	Self-powered linear array loudspeaker with weather protection option	5
8.2	Meyer	Array Speaker	M1D-SM	Self-powered linear array loudspeaker with weather protection option	4
8.3	Meyer	Array Speaker	M3D	Self-powered linear array loudspeaker with weather protection option	1
8.4	Meyer	Rain Hood	LYON rain hood	LYON-W collapsible rain hood	5
8.5	Meyer	Rain Hood	M1D rain hood	M1D Removable Rain Hood	4
8.6	Meyer	Rain Hood	M3D rain hood	M3D collapsible rain hood	1
8.7	Meyer	Protective cover	Lyon protective cover	Lyon protective cover for stack of 3 on caster frame	1
8.8	Meyer	Protective cover	M3D protective cover	LyonM3D protective cover for single cabinet	1
8.9	Meyer	Bracket	MUB-1D	U shaped mounting bracket for M1D-SM	4
8.10	Meyer	Dolly	MCF-Lyon	LYON-M/LYON-W caster frame kit	3
8.11	Meyer	Dolly	MCF-M3D	M3D caster frame kit	1
8.13	Meyer	Accessory	VIM-3	3 channel break-out box for AC, Audio and RMS (10 amp breakers)	1
8.14	Meyer	Accessory	VIM-4	4 channel break-out box for AC, Audio and RMS (8 amp breakers)	1
8.15	Meyer	VEAM Cable	28.033.104.04	20 metre VEAM male to female cable	3
8.16	Meyer	VEAM Cable	28.033.104.05	30 metre VEAM male to female cable	7
8.17	Meyer	Custom Cable	VEAM custom	90 metre VEAM male to female cable	2
8.18	Meyer	Custom Cable	VEAM custom	120 metre VEAM male to female cable	2

8.19	Meyer	VEAM plug to Powercon, MXLR 5 pin	VEAM custom	Inline male cable break-out - .5 Meter (Non-VEAM Loudspeaker End)	5
8.20	Meyer	VEAM female connector	27.033.097.01	VEAM Square flange female connector	6
8.21	Meyer	VEAM male plug	27.033.096.01	VEAM Inline male plug	6
8.22	Meyer	VEAM multi cable	27.033.112.01	100m of VEAM multi conductor cable	1
8.23	Meyer	Array system processor	GALILEO CALISTO 616 AES	6 input 16 output loudspeaker array system processor	1
8.24	Meyer	System control	RMServer	Compact hardware unit that runs RMS over Ethernet	1

All audio and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Meyer products must come with the full Meyer warranty in Canada for parts and labour

9.0 Reference audio monitors

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
9.1	Yamaha	Reference audio monitor	MSP3	2 way self-powered reference audio monitor	4
9.2	Yamaha	Bracket	BWS20-120/190	MSP3 wall bracket	2

Audio monitor equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Yamaha products must come with the full Yamaha warranty in Canada for parts and labour

10.0 Audio routing**A no substitution clause applies for the following reasons:**

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
10.1	Optocore	Network MADI interface	DD4MR-FX	Network MADI I/O Device - 128 coaxial MADI I/O channels with SANE and Ethernet	1
10.2	Optocore	AD/DA Converter unit	X6R- 8 LI / 8 LO	16 channel converter complete with 8 line in / 8 line out	1
10.3	Optocore	Network converter unit	X6R-FX-16AE/SRC	16 channel converter unit with Ethernet and 8 AES/EBU outputs (16 audio)	1
10.4	Optocore	Network converter unit	X6R-FX-8AE/8LI	16 channel converter unit with Ethernet and 4 AES (8 audio) and 8 line out	1

Audio routing equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Optocore products must come with the full Optocore warranty in Canada for parts and labour

11.0 Interface Equipment**A no substitution clause applies for the following reasons:**

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
11.1	RME	ADAT/ MADI interface	ADI-648	Multichannel Audio Digital Interface and format conversion	1
11.2	MOTU	Server Interface	828x	Professional 28x30 audio interface with Thunderbolt™ technology	3
11.3	Echo	Server interface	Audio Fire 12	Firewire interface with 12 in/out at 24 bit 96kHZ	2
11.4	MOTU	MIDI interface	EXPRESS XT	8-in/8-out MIDI interface, patchbay, and merger with time code sync	1

Interface equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All RME products must come with the full RME warranty in Canada for parts and labour

All MOTU products must come with the full MOTU warranty in Canada for parts and labour

All Echo products must come with the full Echo warranty in Canada for parts and labour

Section “C” (12 to 16)

12.0 Lighting console and control

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

All equipment is RDM compliant

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
12.1	MA lighting	Control console	grandMA 2 light #120112	Real-time control for up to 65,536 parameters per session in connection with MA NPU 4,096 HTP/LTP parameters 6 DMX outputs	1
12.2	MA lighting	Network Processor	NPU MA2 # 130032	Real-time control for up to 65,536 parameters per session in connection with Grand MA system 4,096 HTP/LTP parameters 6 DMX output	3
12.3	MA lighting	MA system specialist	MA system specialist	MA system specialist training offered at our Bayview warehouse in Ottawa for 4 technicians	1
12.4	Pathway	RDM compliant network switch	Pathport VIA 10 Gigaswitch #6730	10 port + 1 layer 2/3 gigabit network switch RDM compliant	1
12.5	Pathway	DMX node	Pathport C-Series #6202	DMX node with 2 DMX outputs. RDM compliant	1
12.6	Pathway	DMX node	Pathport Quattro #6311	DMX node with 4 DMX outputs. RDM compliant	4
12.7	Pathway	DMX repeater	DMX repeater #9014	DMX node with 4 DMX outputs. RDM compliant	3

Lighting console and control equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All costs related to travel and accommodations for MA training personal in Ottawa must be included

All MA lighting products must come with the full MA lighting warranty in Canada for parts and labour

All Pathway products must come with the full Pathway warranty in Canada for parts and labour

13.0 Lighting instruments:

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
13.1	Clay Paky	Alpha800 QWO ST	#C61381	800 watt moving light with a 7.6 to 55 degree zoom angle and studio lens treatment	19
13.2	Clay Paky	Sharpy Wash 330	#C61387	330 watt moving light beam with a 0 to 3.8 degree beam angle. 14 fixed colours and 17 fixed gobos	14
13.3	Clay Paky	A.Leda B-Eye K20	#C61420	High performance LED wash light with a 4 to 60 degree zoom range and individually controlled LED engines	18
13.4	Clay Paky	Super Sharpy Wash	#C61390	470 watt moving light beam with a 0 to 4 degree beam angle. CMY colour mixing, 11 special colour filters, 2CTO+1CTB, 7 dichroic + 18+1 fixed gobos, 8 faceted prism	9
13.5	DTS	FOS 100 Solo IP65	03.LB031S.F40	Compact high output LED bar with 24 full colour 5 watt LED engines. IP65 rated with 42 degree lensing	26
13.6	Martin	Rush Strobe 5x5	90480020	White strobe/blinder. 5 x 5 LED matrix panel with individually-controllable LEDs	1

All lighting equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

All lighting equipment will shipped with an installed professional grade L6-15 twist lock plug

Any substitution for this product must meet all technical specifications and provide the same warranty period. A demonstration to qualify the substitution may be requested.

All Clay Paky products must come with the full Clay Paky warranty in Canada for parts and labour

All DTS products must come with the full DTS warranty in Canada for parts and labour

All Martin products must come with the full Martin warranty in Canada for parts and labour

14.0 Time Code and Sync.

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
14.1	Alpermann	Housing	RUB-1H1	19 inch 4 space rack housing	1
14.2	Alpermann	Power supply	RUB1PS	60 watt power supply for H1 housing	1
14.3	Alpermann	Module	RUB1GL	LTC/VITC master time code generator and timer	1
14.4	Alpermann	Module	RUB1GW	Word clock master time code generator	1
14.5	Alpermann	Module	RUB1GB	Black burst master generator	1
14.6	Brainstorm	LTC Distribution amplifier	SR-28	Time code distribution amplifier and reshaper complete with redundant power supplies	1
14.7	Custom	Adapter	DB-25 to XLR male	1 metre DB-25 male to 8 XLR male cable Tascam/Avid pin out	2
14.8	Custom	Adapter	DB-9 to BNC female	1 metre DB-9 female to BNC female cable	4

All Alpermann, Brainstorm and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Brainstorm equipment must include redundant power supplies factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Alpermann products must come with the full Alpermann warranty in Canada for parts and labour

All Brainstorm products must come with the full Brainstorm warranty in Canada for parts and labour

15.0 Cable

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
15.1	TMB	Proplex CAT 6 cable assemblies	PCCAT5EP	Ethercon to Ethercon 20 metre CAT6 cable	10
15.2	TMB	Proplex CAT 6 cable assemblies	PCCAT5EP	Ethercon to Ethercon 15 metre CAT6 cable	10

All TMB products must come with the full TMB warranty in Canada for parts and labour

16.0 Power conditioning and distribution

Substitutions are permitted so long they meet all the manufacturers' specifications of the listed products.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
16.1	Triplite	Power distribution	PD1215	15 amp 120 volt rack mount 13 nema 5-15R outlets	5
16.2	Triplite	Power distribution	PD1220	15 amp 120 volt rack mount 13 nema 5-20R outlets	5
16.3	Furman	Power conditioner	PL-PRO DMC	20 amp power conditioner with metering	3
16.4	Furman	Power conditioner	PL-8 C	15 amp power conditioner	8

All Triplite, Furman and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Any substitution for this product must meet all technical specifications and provide the same warranty period.

All Triplite products must come with the full Triplite warranty in Canada for parts and labour Furman

All Furman products must come with the full Furman warranty in Canada for parts and labour

Section “D” (17 to 18)

17.0 Equipment racks and travel road cases

The following items specifications are for the manufacturing equipment racks including touring style road cases for the storage, transportation and deployment of the rack mount hardware. All of these products will come with a 1 year parts and labour warranty against defects.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
17.1	Custom	See specifications below	Per manufacturer	26 rack spaces high by 74 centimeters deep rack with travel road case	1
17.2	Custom	See specifications below	Per manufacturer	22 rack spaces high by 74 centimeters deep rack with travel road case	1
17.3	Custom	See specifications below	Per Manufacturer	21 rack spaces high by 74 centimeters deep rack with travel road case	3
17.4	Custom	See specifications below	Per Manufacturer	20 rack spaces high by 74 centimeters deep rack with travel road case	2
17.5	Custom	See specifications below	Per Manufacturer	17 rack spaces high by 74 centimeters deep rack with travel road case	1
17.6	Custom	See specifications below	Per Manufacturer	15 rack spaces high by 74 centimeters deep rack with travel road case	2

Equipment Rack Details:

The rack shall be constructed of CANPLY graded G1S 19mm plywood painted matte black

The rack shall be of sufficient strength to allow the rack to be stacked two high.

The rack top shall be fitted with 4 female cups to accept the male feet to allow for stacking of racks.

The rack bottom shall be fitted with four male feet to insert into the top female cups for stacking

The racks will be equipped with full front and rear cage nut rails with a setback to be specified at award

Cage nuts, screws and nylon washers will be supplied for 50% of the front mounting holes

The rack shall be fitted with two large recessed carrying handles on each of the sides

The rack corners will be finished with a 9.525 mm round over

The rack front and back edges will be finished with a 19 mm routed bullnose

Road Case Details:

The case shall be built to meet ATA standards unless specified otherwise

The corresponding travel road case will hold its rack in the upright position

The case will be built with internal black high density foam to hold firmly the equipment rack

The case will be sized according to the equipment rack specifications.

The case will be constructed with a tray type bottom and removable pullover top to allow access for all equipment operation while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13 mm ACX grade ABS coated plywood.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case pullover top shall be secured to the tray bottom with 4 heavy duty recessed spring latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

18.0 Road Cases for Lighting Fixtures

The following items specifications for the manufacturing of touring style road cases for the storage, transportation and deployment for the following inventory. All of these products will come with a 1 year parts and labour warranty against defects.

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
18.1	Custom	See specifications below	Per Manufacturer	Case to hold 2 Clay Paky Alpha Spot QWO800 lighting fixtures	10
18.2	Custom	See specifications below	Per Manufacturer	Case to hold 2 Clay Paky Sharpy 330 Wash lighting fixtures	7
18.3	Custom	See specifications below	Per Manufacturer	Case to hold Tempest Thunder 6950	2
18.4	Custom	See specifications below	Per manufacturer	Case to hold 1 Clay Paky A.leda B.EYE lighting fixture	18
18.5	Custom	See specifications below	Per Manufacturer	Case to hold 1 Clay Paky SuperSharpy lighting fixture	9
18.6	Custom	See specifications below	Per Manufacturer	Case to hold 9 DTS 100 Power FC2 lighting fixtures	3

18.1 Road case: 2 x Clay Paky Alpha Spot QWO 800 Fixture

Background:

The road case will be designed to hold two Clay Paky Alpha Spot QWO 800 fixtures for storage, operation and transportation.

Details:

The case will hold both fixtures in the upright position.

The case will be constructed with a tray type bottom and removable top to allow the fixture a full range of operation for both fixtures while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13mm ABS coated plywood.

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 4 recessed wheel trays aligned with the casters to allow for stacking of cases.

The case top shall be secured to the tray bottom with 4 heavy duty recessed latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case lid interior shall be fitted with protective system shaped to enclose the heads in their pan-tilt locked position.

18.2 Road case: 2 x Clay Paky Sharpy 330 Wash Fixture

Background:

The road case will be designed to hold two Clay Paky Sharpy 330 wash fixtures for storage, operation and transportation.

Details:

The case will hold three fixtures in the upright position.

The case will be constructed with a tray type bottom and removable top to allow the fixture a full range of operation for all three fixtures while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13mm ABS coated plywood.

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 4 recessed wheel trays aligned with the casters to allow for stacking of cases.

The case top shall be secured to the tray bottom with 4 heavy duty recessed latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case lid interior shall be fitted with protective system shaped to enclose the heads in their pan-tilt locked position.

18.3 Road case: Tempest Thunder 6950

Background:

The road case will be designed to hold a Tempest Thunder 6950 lighting enclosure

Details:

The case will hold the Thunder lighting enclosure in its deployment position

The case will be constructed with a tray type bottom and removable top to allow the enclosure a full range of operation while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13mm ABS coated plywood.

The tray bottom shall be treated or covered with a membrane so as to be water resistant

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 6 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 6 recessed wheel trays aligned with the casters to allow for stacking of cases.

The case top shall be secured to the tray bottom with 4 heavy duty recessed latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides. The handles should be spaced for use by one technician per side.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case shall have a perforation in the bottom to drain water.

18.4 Road case: Clay Paky A.leda B-EYE K20

Background:

The road case will be designed to hold a single Clay Paky A.leda B-EYE K20 fixture for storage, operation and transportation.

Details:

The case will hold a single fixture in the upright position.

The case will be constructed with a tray type bottom and removable top to allow the fixture a full range of operation while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13mm ABS coated plywood.

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 4 recessed wheel trays aligned with the casters to allow for stacking of cases.

The case top shall be secured to the tray bottom with 4 heavy duty recessed latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case lid interior shall be fitted with protective foam shaped to enclose the head in its pan-tilt locked position.

18.5 Road case: Clay Paky Super Sharpy

Background:

The road case will be designed to hold one Clay Paky Super Sharpy fixture for storage, operation and transportation.

Details:

The case will hold the fixture in the upright position.

The case will be constructed with a tray type bottom and removable top to allow the fixture a full range of operation while remaining in the case tray.

The case tray must be constructed so as not to interfere with the operation of cooling fans, or access to connectors and control panels.

The case shall be constructed of 13mm ABS coated plywood.

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 4 recessed wheel trays aligned with the casters to allow for stacking of cases.

The case top shall be secured to the tray bottom with 4 heavy duty recessed latches.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case lid interior shall be fitted with protective system shaped to enclose the head in their pan-locked position.

The case lid interior shall be fitted with protective system shaped to enclose the heads in their pan-locked position.

18.6 Road case: 9 x DTS FOS 100 Power FC2 Fixtures

Background:

The road case will be designed to hold 9 DTS FOS 100 Power FC2 fixtures for storage and transportation.

Details:

The case will be built to open on its front end rather than from the top.

The case will be constructed with nine slots each 150mm in width and 178mm height. Each slot shall extend the length of the road case. Each slot shall be felt lined.

The case shall be constructed of 13mm ABS coated plywood.

The case shall be of sufficient strength to allow the case with fixture to be stacked two high.

Cases shall be black in colour.

The case shall have 4 x 100mm swivel casters with locks

The case shall be fitted with a 19mm caster board

The case top shall be fitted with 4 recessed wheel trays aligned with the casters to allow for stacking of cases.

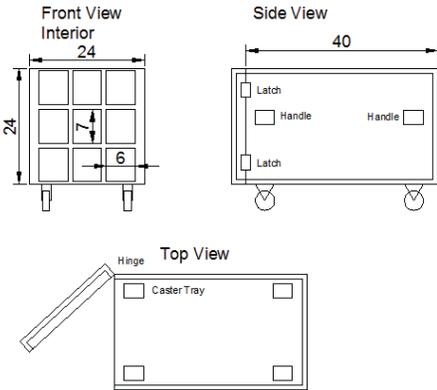
The case door shall be secured to the case with 2 heavy duty recessed latches on the side opposite the hinge.

The case shall be fitted with two large recessed carrying handles on each of the longest sides.

The case shall be fitted with heavy duty ball corners to protect the case corners.

All metal components shall be pop riveted at no more than 200mm spacing.

The case door interior shall be fitted with protective high density foam.



The drawing above is for design concept only and is not intended to define a final design.

Section “E” (19)

19.0 Hydraulic Lifts

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
19.1	Custom	Custom	Per manufacturer	4.876m wide x 2.438m deep x 3.175m high hydraulic lifting platform	2
19.2	Custom	Custom	Per Manufacturer	4.876m wide x 2.133m deep x 3.175m high hydraulic lifting platform	2

19.1 Hydraulic Lift 4.876m wide x 2.438m deep x 3.175m high

Lift table:

- Shall have a 4000 KGs lifting capacity;
- Platform dimension minimum of 4.876m wide x 2438m deep smooth steel platform; the lifting base frame can be smaller, as determined by the Contractor's engineers;
- 610mm or less lowered height not including leveling jacks;
- The levelling jacks shall be fitted with swivel base feet of minimum 100mm diameter;
- Shall have 3.175m raised height, not including leveling jacks;
- Steel base frame, with sub frame assembly for stability;
- Include anchor brackets to anchor the unit to a cement pad;
- Shall include a manual leveling system;
- Shall have ball valve shut off to prevent cylinder creep over a 4 hour period in the lifted position;
- Cylinders shall be protected against the weather and dust;
- Shall have life time self-lubricating bushings, or all weather equivalent
- Shall have a fall safe device for service
- Shall be media blasted prior to painting for an all season mat black paint finish.
- Shall be fitted with removable safety rails
- The safety rail shall be designed to be inserted into holes cut into the platform with a flange to hold the railing at the correct height and shall have a locking pin to hold the railing safe and secure to the deck
- The railings shall be a minimum of 1066mm in height with a top rail, mid-rail and toe kick.
- Each component of the railing system shall be light enough to be attached or removed by one person
- The railing shall extend the depth of the lifting deck with no more than 75mm between railing sections
- The railing shall extend 450mm inward from the edge at the rear of the lifting deck

Controller/Power Supply:

- Adequate power pack for lifting the 4000 KGs load
- Lifting and lowering shall be controlled by DMX 512 protocol as a secondary means of control
- Shall be addressable with DMX 512 protocol
- Shall be equipped with one 5pin (male) XLR/Canon type connector for input of DMX512 signal and one 5pin (female) XLR/Canon type connector for output of DMX512 signal
- Shall have a system to repeat desired lift height for each lift
- Hand Held NEMA 3R rated push button auxiliary up and down control.
- Controls shall be mounted on a collapsible mast or frame at no less than 915mm in height for ease of operation.
- Regulatory approval of UL 508 (17th edition) and CSA-C22.2 #14-95 (R2001) is mandatory for Electrical/Hydraulic power pack assemblies
- Include lever action manual pump and release in case of electric pump failure

- Shall include a reservoir heater for winter use.
- Hydraulic power pack shall be in a weather tight enclosure;

Cabling:

- Shall be sunlight, UV resistant and suitable for wet and dry conditions

Other:

- The platform shall have fork lift points and removable hoisting points for installation and removal
- Shall have a minimum of two years structural warranty
- Shall have all necessary warning stripes for pinch points
- Shall have capacity labels
- Shall be a four season design to operate outdoors in winter

19.2 Hydraulic Lift 4.876m wide x 2.133m deep x 3.175m high

Lift table:

- Shall have 2000KGs lifting capacity;
- Platform dimension minimum of 4.876m wide x 2.133m deep smooth steel platform; the lifting base frame can be smaller, as determined by the Contractor's engineers;
- 610m or less lowered height not including leveling jacks;
- The levelling jacks shall be fitted with swivel base feet of minimum 100m diameter;
- Shall have 3.175m raised height, not including leveling jacks;
- Steel base frame, with sub frame assembly for stability;
- Include anchor brackets to anchor the unit to a cement pad;
- Shall include a manual leveling system;
- Shall have ball valve shut off to prevent cylinder creep over a 4 hour period in the lifted position;
- Cylinders shall be protected against the weather and dust;
- Shall have life time self-lubricating bushings, or all weather equivalent
- Shall have a fall safe device for service
- Shall be media blasted prior to painting for an all season mat black paint finish.
- Shall be fitted with removable safety rails
- The safety rail shall be designed to be inserted into holes cut into the platform with a flange to hold the railing at the correct height and shall have a locking pin to hold the railing safe and secure to the deck
- The railings shall be a minimum of 1066mm in height with a top rail, mid-rail and toe kick.
- Each component of the railing system shall be light enough to be attached or removed by one person
- The railing shall extend the depth and across the width of the rear of the lifting deck with no more than 75mm between railing sections

Controller/Power Supply:

- Adequate power pack for lifting the 2000KGs load
- Lifting and lowering shall be controlled by DMX 512 protocol as a secondary means of control
- Shall be addressable with DMX 512 protocol
- Shall be equipped with one 5pin (male) XLR/Canon type connector for input of DMX512 signal and one 5pin (female) XLR/Canon type connector for output of DMX512 signal
- Shall have a system to repeat desired lift height for each lift
- Hand Held NEMA 3R rated push button auxiliary up and down control.
- Controls shall be mounted on a collapsible mast or frame at no less than 915mm in height for ease of operation.
- Regulatory approval of UL 508 (17th edition) and CSA-C22.2 #14-95 (R2001) is mandatory for Electrical/Hydraulic power pack assemblies
- Include lever action manual pump and release in case of electric pump failure
- Shall include a reservoir heater for winter use.
- Hydraulic power pack shall be in a weather tight enclosure;

Cabling:

- Shall be sunlight, UV resistant and suitable for wet and dry conditions

Other:

- The platform shall have fork lift points and removable hoisting points for installation and removal
- Shall have a minimum of two years structural warranty
- Shall have all necessary warning stripes for pinch points
- Shall have capacity labels
- Shall be a four season design to operate outdoors in winter

Section “F” (20)

20.0 Environmental enclosures

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

All equipment must be DEC3.2 compliant

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity
20.1	Tempest	Cyclone 8200	8200.US.OXLD	Outdoor projector enclosure with no slide out tray, portrait orientation, base down. Custom colour finish	10
20.2	Tempest	Tornado 2000	2000.DEC.US	Super Sharpy Moving light enclosure. Stock colour	8
20.3	Tempest	Thunder 6950	6950.US.DEC	Sharpy moving light enclosure. Custom colour finish	4
20.4	Tempest	RDM-TRI interface	2000.190	Network monitoring interface for DEC 3.2 and up enclosures	4

All Tempest and related equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

All Tempest products must come with the full Tempest warranty in Canada for parts and labour

These enclosures will need to be custom painted to match the existing enclosures. A color sample will be provided to the supplier.

Section "G" (1 - 7)

IT equipment list for the Sound and Light renewal

1.0 Network routers and adapters

A no substitution clause applies for the following reasons:

Integration of new equipment to existing inventory reflecting a large cost saving.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
1.01	Cisco	Data switch	SG300-28PP	POE+10/100/1000 4 sfp PORTS	1
1.02	Cisco	Data switch	SG300-28P	POE 10/100/1000 4 sfp PORTS	2
1.03	Cisco	Data switch	SG300-10MPP		2
1.04	Cisco	Data switch	SG300-10MP		8
1.05	Cisco	Wireless LAN	AIR-CAP2702E-x-K9		1
1.06	Cisco	Wireless LAN Antenna	AIR-ANT2451NV-R=		2
1.07	Cisco	SFP	MGBSX1	Mini GBIC	27

All network routers and adapters must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Cisco products must come with the full Cisco warranty in Canada for parts and labour

2.0 Stealth SR-1515 CPU monitoring Computer**A no substitution clause applies for the following reasons:**

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
2.1	Intel	CPU	Xeon E3-1240v2 3.4GHz	8MB, 4 cores/8 threads	1
2.2		RAM	8GB DR3		1
2.3	Intel	Media	240GB SSD MLC,2,5"	Raid 1	1
2.4		PCIe riser	PciE 8X RISER		1
2.5	Microsoft	Operating System	Win 7 Ultimate edition 64 Bit english		1
2.6		LAN	Single port 10/100/1000 Base-t	2 port PCI card	1

All Stealth computers and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Stealth products must come with the full Stealth warranty in Canada for parts and labour

3.0 Stealth SR- 1515 MA on PC Computer

A no substitution clause applies for the following reasons:

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
3.1	Intel	CPU	Xeon E3-1240v2 3.4GHz	8MB, 4 cores/8 threads	2
3.2		RAM	8GB DR3		2
3.3	Intel	Media	240GB SSD MLC,2,5"		2
3.4		Media	2 TB hard drive		2
3.5		PCIe riser	PciE 8X RISER		2
3.6	Microsoft	Operating System	Win 7 Ultimate edition 64 Bit english		2
3.7		LAN	Single port 10/100/1000 Base-t	2 port PCI card	2

All Stealth computers and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Stealth products must come with the full Stealth warranty in Canada for parts and labour

4.0 Stealth 2500 laser Computer**A no substitution clause applies for the following reasons:**

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
4.1	Intel	CPU	Core i5-4670 gen. 4	up to 3.8GHz, 32/64-Bit	1
4.2		RAM	8GB DDR3		1
4.3	Intel	Media	120GB SSD MLC,2,5"	Raid 1	2
4.5		PciE riser	PciE 8X RISER		1
4.6	Microsoft	Operating System	Win 7 Ultimate edition 64 Bit English		1
4.7		LAN	Single port 10/100/1000 Base-t	2 port PCI card	1

All Stealth computers and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Stealth products must come with the full Stealth warranty in Canada for parts and labour

5.0 Getac B300 Rugged Notebook

A no substitution clause applies for the following reasons:

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
5.10	Getac	Rugged laptop	B300	Rugged laptop with touchscreen	1
5.11	Intel Core	Processor	Intel®vPro™ Technology Intel® Core™ i5-4300M vPro™ Processor	2.6GHz, Max. 3.3GHz with Intel® Turbo Boost Technology - 3MB L3 Intel® Smart Cache - Mobile Intel® QM87 Express chipset	1
5.12	Intel	Video card	4600i	HD Graphics	1
5.13	QuadraClear	Video monitor	Touchscreen	13.3 inch 1400 nits sunlight readable display with touchscreen	1
5.14		Hard drive	SATA HDD	SATA HDD 500 Gigabyte	1
5.15		Memory	DDR3	4 Gigabyte	1
5.16		Communication	Modem LAN	56K 10/100/1000 Ethernet	1
5.17		Wireless	WLAN	802.11a/b/g/n and Bluetooth	1
5.18		Optical drive		Super multi-drive	1
5.19	Microsoft	Operating system	Windows 7 Professional		1

All Getac computers and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Getac products must come with the full Getac warranty in Canada for parts and labour

6.0 Apple**A no substitution clause applies for the following reasons:**

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
6.1	Apple	Tablet	iPad Air 64 GB	32 GB model WIFI	1
6.2	Apple	Protection cover			1
6.3	Apple	Dock			1
6.5	Apple	Computer	MAC MINI	Quad CPU 2.6Ghz 8 GB memory 1 TB serial ATA drive	3
6.6	MK1 manufacturing	Mount	MMR-2G-1URS	Rack mount for MAC MINI	1
6.7	Belkin	Adapter	UPC 722868905043	Firewire 800 to Firewire 400 at 2 metres	1
6.8	Apple	Adapter		Mini DisplayPort to VGA Adapter	4
6.9	Apple	Adapter		Apple HDMI to DVI Adapter	4

All Apple computers and associated peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All Apple products must come with the full Apple warranty in Canada for parts and labour

7.0 Uninterrupted Power Supplies

A no substitution clause applies for the following reasons:

Specialized assemblies for show control software and equipment monitoring.

Identifier	Make	Item	Model Type	Specifications brief	Quantity
7.1	APC	Uninterrupted power supply	SURTA3000RML3U	3KVA 120 volt/120 volt L5-30 in and 5-15R and 5-20R out	4
7.2	APC	Uninterrupted power supply	SURTA3000RML3U	2.2KVA 120 volt/120 volt 5-20 in and 5-15R out	6

All APC uninterrupting power supplies and peripheral equipment must come factory approved bearing a recognized listed mark meeting Canadian electrical and EMC Standards.

Equipment must be shipped with their approved universal DC adapters or professional grade IEC to L5-15 connector were required.

All APC products must come with the full APC warranty in Canada for parts and labour

ANNEX B - Pricing Schedule

The bidder must quote firm unit prices in Canadian dollars, DDP Delivered Duty Paid (destination), with applicable taxes extra, as applicable. Freight charges to destination must be included. All applicable Custom duties and Excise taxes must be included.

This Annex B is being submitted for the following section of Annex A: _____

A bidder can submit a proposal on one (1) or more of the sections A to G presented at Annex A.

Bidder must submit one (1) completed Annex B for each section receiving a bid.

The bidder must submit a detailed cost breakdown to justify the total cost of the section receiving a bid. All line items must have unit prices and total cost.

Format as per Annex A with pricing component added:

SECTION “ ___ ” (Parts ___ to ___)

Part _____

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity	Unit Price	Total
						\$	\$
Total cost for this part:							\$

Part _____

Identifier	Make	Model Type	Model Number	Specifications brief	Quantity	Unit Price	Total
						\$	\$
Total cost for this part:							\$

Etc...

Total Evaluated Bid Price for Section (Sum of all Parts):							\$
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**ANNEX C - FEDERAL CONTRACTORS PROGRAM
FOR EMPLOYMENT EQUITY - CERTIFICATION**

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [HRSDC-Labour's](#) website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
- A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide _____ the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)