



**FORMAL INVITATION TO TENDER FOR  
SUPPLY OF TOOLS AND EQUIPMENT  
FOR TECHNICAL AND VOCATIONAL  
EDUCATION TRAINING (TVET)**

**Tender Number:  
CTCP/6.1/C200/2014/SUP3**

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This Introduction explains why the automotive industry needs such guidelines but will not give a complete overview of “What is REACH?”. The bid submitted, without the prescribed EMD and/or the bid submitted without the CGPDTM’s terms and conditions duly accepted, shall be summarily rejected. Similarly the bid submitted not in the prescribed bid forms of the CGPDTM, the bid document shall be summarily rejected. Any deviation from the CGPDTM terms & conditions shall be clearly brought in the bid.

**SECTION 1 INTRODUCTION**

- 1.1 This document defines the requirements of the Caribbean Community (CARICOM) Secretariat for the **SUPPLY AND INSTALLATION OF EQUIPMENT AND TOOLS FOR TECHNICAL AND VOCATIONAL EDUCATION TRAINING (TVET)**, in **seven (7) lots**.
- 1.2 You are invited to tender, for the provision of the requirements outlined in **Section 4** “Technical Specifications”.
- 1.3 Please ensure that you have received all of the tender documents listed in **Section 2.2** "The Tender Documents" as CARICOM Secretariat will not enter into any discussion of tenders judged non-responsive on the basis of missing documentation. It is the responsibility of the Tenderer to ensure that all required documents are completed and submitted.
- 1.4 All correspondence concerning this tender, whether in writing, by fax or by telephone shall be addressed to: The Programme Manager, Administrative Services, CARICOM Secretariat, Turkeyen, Greater Georgetown, Guyana, South America.

Telephone numbers:	592-222-0001-75
Fax Number:	592-222-0080
Email:	carolc@caricom.org

- 1.5 Please ensure that notwithstanding the requirement of section 1.4 above, the **Tender** is to be addressed as described in section 1.6 and section 2.13 of this document.
- 1.6 Tenderers shall seal the original and each copy of the tender in an inner and outer envelope, duly marking the envelopes as “original” and “copy”.

The inner and outer envelopes shall be addressed to:

a) **TENDER BOX #1  
c/o PROGRAMME MANAGER  
ADMINISTRATIVE SERVICES  
CARICOM Secretariat  
TURKEYEN,  
GREATER GEORGETOWN,  
GUYANA  
SOUTH AMERICA**

b) Bear the name **“SUPPLY AND INSTALLATION OF TOOLS AND EQUIPMENT FOR TECHNICAL AND VOCATIONAL EDUCATION TRAINING (TVET), TENDER NUMBER: CTC/6.1/C200/2014/SUP3”** and the words **“DO NOT OPEN BEFORE 16:00HRS ON Friday 13 March, 2015”**.

## **SECTION 2 INSTRUCTIONS TO TENDERER**

### **2.1 Cost of Tender**

The Tenderer shall bear all costs associated with the preparation and submission of its tender, and Caribbean Community (CARICOM) Secretariat, hereinafter referred to as “The Purchaser”, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process.

### **2.2 The Tender Documents**

The goods and services required, tender procedures and contract terms are described in the Tender Documents. In addition to the invitation to tender, the Tender Documents include:

- |     |   |                              |
|-----|---|------------------------------|
| (a) | Instructions to Tenderer;                 | Section 2 of this document   |
| (b) | Pro-forma General Conditions of Contract; | Section 3 of this document   |
| (c) | Technical Specifications;                 | Section 4 of this document   |
| (d) | Tender Forms & Price Schedules;           | Section 5 of this document   |
| (e) | Pro-forma Performance Guarantee Form      | Section 6.1 of this document |
| (f) | Pro-forma Contract                        | Section 6.2 of this document |

The Tenderer is expected to examine all instructions, forms, terms and specifications in the Tender Documents. Failure to furnish all information required by the Tender Documents or submission of a tender not substantially responsive to the Tender Documents in every respect will be at the Tenderer's risk and may result in the rejection of its tender.

### **2.3 Clarification of Tender Documents**

Subject to paragraph 1.4, prospective Tenderers may request clarifications in writing, at least fourteen (14) days before the deadline for submission of tenders. The responses to the request for clarification shall be done in writing and published on the CARICOM Secretariat's website at least ten (10) days before the deadline for submission of tenders.

### **2.4 Amendment of Tender Documents**

At any time prior to the deadline for submission of tenders, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, modify the Tender Documents by amendment.

The amendment will be published on the CARICOM's website. These amendments shall be binding to all tenderers.

In order to afford prospective Tenderers reasonable time in which to take the amendment(s) into account in preparing their tenders, the Purchaser may at its discretion, extend the deadline for the submission of tenders.

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### 2.5 Language of Tender

The Tender prepared by the Tenderer and all correspondence and documents relating to the tender, exchanged by the Tenderer and the Purchaser shall be written in the English language.

### 2.6 Documents Comprising the Tender

The tender prepared by the Tenderer shall comprise the following components:

- (a) A detailed description of the supplies tendered in conformity with the technical specifications, including any documentation required, including if applicable;
- (b) An attested Performance Programme (Section 4.4).
- (c) The Tender Form and Price Schedules (Section 5).
- (d) A proposal for after-sales service over one (1) year.
- (e) A training proposal (indicate training needs);
- (f) Documentary evidence that the goods to be supplied by the Tenderer are eligible goods and conform to the Tender Documents (eg. brochures, technical data sheet)
- (g) Documents establishing the tenderer's eligibility and capacity to successfully undertake the this contract.
- (h) A Tender guarantee for **each** lot of fifty United States dollars per lot (US \$50) or five hundred United States dollars (US\$500) for **all** lots.
- (i) An official document (statutes, power of attorney, notary statement, etc) proving that the person who signs on behalf of the company/joint venture/consortium is duly authorised to do so.

The technical offer should be presented as per template in section 4, (the Tenderer's technical offer) completed when and if necessary by separate sheets for details.

### 2.7 Tender Form

The Tenderer shall complete the Tender Form and the appropriate Price Schedule furnished in the Tender Documents, indicating for the goods and/or service to be supplied, a brief description of the goods and/or service, their country of origin, quality and price.

### 2.8 Tender Prices

Each lot will form a separate contract and the quantities indicated for different lots will be indivisible. The tenderer must offer the whole of the quantity or quantities indicated for each lot. Under no circumstances must tenders for part of the quantities required for a lot be taken into consideration. If the tenderer is awarded more than one lot, a single contract may be concluded covering all those lots.

Unless otherwise specified in the Technical Specifications, tenderers shall quote for an entire lot on a "single responsibility" basis such that the total tender price covers all the Contractors' obligations mentioned in or to be reasonably inferred from the tender documents in respect of the

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design, supply, delivery and installation of the lot at the specified location. This includes all requirements under the Contractors' responsibilities for testing, pre-commissioning and commissioning of the system and, where so required by the tender documents, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the tender documents, all in accordance with the requirements of the General Conditions of Contract.

Items against which no price is entered by the Tenderer will not be paid for by the Purchaser when executed and shall be deemed to be covered by the prices for other items.

Tenderers are required to quote the price for the commercial, contractual and technical obligations outlined in the tender document.

Tenderers shall give a breakdown of the prices in the manner and detail called for in the Price Schedules. Where no Price Schedules are included in the tender documents, tenderers shall present their prices in the following manner:

Schedule No. 1 Cost of Equipment Offered, Delivered Duty Unpaid (DAP) to the locations outlined in the Distribution Details (Section 4.2), Handling and Freight charges to be listed separately.

Schedule No. 2 Local Transportation to locations outlined in the Distribution Details (If applicable)

Schedule No. 3 Installation and Training Services

Schedule No. 4 Grand Summary

Schedule 4 which gives the total tender price shall be entered in the Tender Form

In the Schedules, tenderers shall give the required details and a breakdown of their prices as follows:

(a) Installation Services shall be quoted separately (Schedule No.3) and shall include rates or prices for all labor, Contractors' equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc., where identified in the tender documents, as necessary for the proper execution of the Installation Services, including all taxes, duties, levies and charges payable in the Purchaser country.

(b) The terms EXW, DAP, CIF, CIP, etc., shall be governed by the rules prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris, France.

### 2.9 Tender Currencies

Prices shall be quoted in United States Dollars. However, Local suppliers will be paid in Guyana Dollars at the Bank of Nova Scotia selling rate at the time of Order.

### 2.10 Documents Establishing Goods' Eligibility and Conformity to Tender Documents

The Tenderer shall furnish, as part of its tender, documents establishing the eligibility and

conformity to the Tender documents of all goods which the Tenderer proposes to supply under the Contract.

#### 2.11 Period of Validity of Tenders

Tenders shall remain valid for 90 (ninety) days after the date of tender opening prescribed by the Purchaser. A tender valid for a shorter period may be rejected by the Purchaser as non-responsive.

The Purchaser may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax). A Tenderer granting the request will not be required nor permitted to modify its tender.

#### 2.12 Format and Signing of Tender

The original and all copies of the tender shall be signed by the Tenderer or a person or persons duly authorized by the Tenderer. The latter authorization shall be indicated by written power-of-attorney accompanying the tender. All pages of the tender, except for unammended printed literature, shall be initialed by the person or persons signing the tender.

The tender shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

#### 2.13 Sealing and Marking of Tenders

The Tenderers shall seal the original and each copy of the tender in an inner and outer envelope, duly marking the envelopes as "original" and "copy".

The inner and outer envelopes shall be:

- (a) Addressed to:  
**TENDER BOX #1  
c/o PROGRAMME MANAGER  
ADMINISTRATIVE SERVICES  
CARICOM SECRETARIAT  
TURKEYEN  
GREATER GEORGETOWN, GUYANA  
SOUTH AMERICA.**
- (b) Bear the name **SUPPLY AND INSTALLATION OF TOOLS AND EQUIPMENT FOR TECHNICAL AND VOCATIONAL EDUCATION TRAINING (TVET), TENDER NUMBER: CTCP/6.1/C200/2014/SUP3** and the words **"DO NOT OPEN BEFORE 16:00HRS ON Friday, 13 March, 2015"**.

The inner envelope shall also indicate the name and address of the Tenderer to enable the tender to be returned unopened in case it is declared "late".

If the outer envelope is not sealed and marked as required by paragraph

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2.13a, the Purchaser will assume no responsibility for the tender's misplacement or premature opening.

### 2.14 Deadline for Submission of Tenders

Tenders must be received by the Purchaser at the address specified under paragraph 2.13 no later than **16:00HRS ON Friday, 13 March, 2015**.

The Purchaser may, at its discretion, extend this deadline for the submission of tenders by amending the Tender Documents in accordance with paragraph 2.11 in which case all rights and obligations of the Purchaser and Tenderers previously subject to the deadline will thereafter be subject to the deadline as extended.

### 2.15 Acknowledgement of Tender

There will be no acknowledgement of receipt of a tender. It is the responsibility of the Tenderer to ensure that the Tender reaches the Purchaser in the required manner and prior to the closure of the tender.

### 2.16 Late Tenders

Any tender received by the Purchaser after the deadline for submission will be rejected and returned unopened to the Tenderer.

### 2.17 Modification and Withdrawal of Tenders

The Tenderer may modify or withdraw its tender after the tender's submission, provided that written notice of the modification or withdrawals is received by the Purchaser prior to the deadline prescribed for submission of tenders.

The Tenderer's modifications or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of Clause 2.13. A withdrawal notice may also be sent by fax but followed by a signed confirmation copy, post marked not later than the deadline for submission of tenders.

No tender may be modified subsequent to the deadline for submission of tenders.

No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the tenderer on the Tender Form.

### 2.18 Opening of Tenders by Purchaser

The Purchaser will open tenders in the presence of those Tenderer's representatives who may choose to attend, at **16:15 HRS LOCAL TIME ON Friday, 13 March, 2015**, in the Conference Room or an alternative office designated by the Programme Manager, Administrative Service. The Tenderers' representatives who are present shall sign a register evidencing their attendance.

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The Tenderers' names and tender prices, modifications, tender withdrawals and the presence or absence of details requested by the Purchaser, at its discretion, may be announced at the opening. The Purchaser will prepare for its own record, minutes of the tender opening and these minutes shall be considered definitive.

### 2.19 Clarification of Tenders

To assist in the examination, evaluation and comparison of tenders the Purchaser may, at its discretion, ask the Tenderer for a clarification of its tender. The request for clarification and the response shall be in writing and no change in the price or substance of the tender shall be sought, offered or permitted.

### 2.20 Inclusion of Subcontract Agreements

Copies of any agreements to be executed between the Supplier and any subcontractors must be included in the Supplier's proposal.

### 2.21 Negotiations with Subcontractor

In order to protect the CARICOM Secretariat's interest, THE CARICOM SECRETARIAT reserves the right to attempt to resolve the contractual disagreements that may arise between the Supplier and THE CARICOM SECRETARIAT subcontractor after award of the contract.

### 2.22 References to Supplier to Include Subcontractor

All references in the ITT to "Supplier" shall be construed to encompass both the Supplier and Supplier's subcontractors.

### 2.23 Equipment Condition

For all ITTs requiring equipment, the Supplier must furnish only new equipment in response to THE CARICOM SECRETARIAT specifications, unless an explicit requirement for used equipment is otherwise specified.

### 2.24. Ownership of Developed Software

When specifications require the Supplier to develop software for the CARICOM Secretariat, the Supplier must acknowledge and agree that the CARICOM Secretariat is the sole owner of such developed software with exclusive rights to use, alter, or distribute the software without restriction. This requirement applies to source code, object code, and documentation.

### 2.25. Ownership of Custom Tailored Software

In installations where the Supplier's intellectual property is modified and custom-tailored to meet the needs of the CARICOM Secretariat, the Supplier must offer the CARICOM Secretariat an application license entitling the CARICOM Secretariat to use, and/or alter the software without

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restriction. These requirements apply to source code, object code and documentation.

### 2.26 Terms of Software License

The Supplier acknowledges and agrees that the term of all software licenses provided to the CARICOM Secretariat shall be perpetual unless stated otherwise in the Supplier's tender.

### 2.27 The CARICOM Secretariat is Licensee of Record

The Supplier must not bypass the software contracting phase of a project by licensing project software intended for CARICOM Secretariat use in THE CARICOM SECRETARIAT's company name. Upon award of a project, the Supplier must ensure that the CARICOM Secretariat is properly licensed for all software that is proposed for use in a project.

### 2.28. Non-disclosure agreement.

The successful tenderer will be required to sign a non-disclosure agreement prior to the execution of the contract.

### 2.29 Preliminary Examination

The Purchaser will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed, and whether the tenders are generally in order.

Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of the errors, its tenders will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each tender to the tender Documents. For these purposes a substantially responsive tender is one which confirms to all the terms and conditions of the Tender Documents without material deviations. The Purchaser's determination of a tender's responsiveness will be based on the contents of the tender itself without recourse to extrinsic evidence.

A tender determined as not substantially responsive will be rejected by the purchaser and may not subsequently be made responsive by the tenderer by correction of the non-conformity. The Purchaser may waive a minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Tender.

### 2.30 Evaluation and Comparison of Tenders

The Purchaser will evaluate and compare only those tenders determined to be responsive. A responsive tender should comply with the following:-

- (a) Furnish all information required by the tender document (Section 2.6)

- (b) Technical Specifications as detailed in Section 4.
- (c) Provide acceptable documentation including information on materials, manufacture, and design that will allow a robust technical evaluation of the product to prove that products meet or exceed appropriate specifications. Warranties on the materials and manufacture of various components of the product, if applicable, should also be stated.
- (d) Submission of a tender valid for 90 days after the date of tender opening as prescribed by the purchaser.

#### 2.31 Award Criteria

The Purchaser will award the Contract to the successful Tenderer whose tender has been determined to be substantially responsive and has been determined as the most acceptable evaluated tender, provided further that the Tenderer is determined to be qualified to perform the Contract satisfactorily.

#### 2.32 Purchaser's Right to Vary Quantities at Time of Award

The Purchaser reserves the right at the time of award of Contract to increase or decrease by up to twenty five percent (25%) the quantity of goods and services specified in the Schedule of Requirements without any change in price or other terms and conditions.

#### 2.33 Purchaser's Right to Accept Any Tender and to Reject Any or All Tenders

The Purchaser reserves the right to accept or reject any tender, and to annul the tender process and reject all tenders at any time prior to award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the Purchaser's action.

#### 2.34 Notification of Award

Prior to the expiration of the period of tender validity, the Purchaser will notify the successful Tenderer in writing or fax that its tender has been accepted.

#### 2.35 Signing of Contract

Within 7 days of the Purchaser notifying the successful Tenderer that its tender has been accepted, the Purchaser will send the tenderer a draft contract incorporating the terms and conditions of the agreement between the parties for review and confirmation of their acceptance of the terms and conditions of the draft. After which the Purchaser will send to the Tenderer a finalized contract signed by the CARICOM Secretariat

Within fifteen (15) days of receipt of the finalized Contract, the successful Tenderer shall sign and date the Contract and return it to the Purchaser.

#### 2.36 Performance Guarantee

The successful Tenderer shall, within 30 days after the receipt of the notification of the award of

contract, furnish to the Purchaser, a performance guarantee in accordance with the General Conditions of the Contract, in the performance guarantee form provided in the tender documents, or in another form acceptable to the Purchaser for the full and proper performance of the contract. The amount of the guarantee shall not exceed 10 % of the contract price including any amounts stipulated in riders to the contract.

2.37 Performance Programme

The Contractor shall submit for the approval of the Purchaser a performance programme outlining the delivery and installation schedule.

2.38 Tender guarantee

The tender guarantee is set at fifty United States dollars **per lot** (US \$50) or five hundred United States dollars (US\$500) for **all** lots and must be presented in the form specified in the annex to the tender dossier. It must remain valid for 60 days beyond the period of validity of the tender. Tender guarantees provided by tenderers who have not been selected shall be returned together with the information letter that the tenderer has been unsuccessful. The tender guarantee of the successful tenderer shall be released on the signing of the contract, once the performance guarantee has been submitted.

SECTION 3 PRO-FORMA GENERAL CONDITIONS OF CONTRACT

3.1 Definitions

In this contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Purchaser and a successful Tenderer who would thereafter be referred to as the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices hereto and all documents incorporated by reference therein;
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all of the software, equipment, machinery, tools and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "The Purchaser" means the Caribbean Community Secretariat (CARICOM).
- (e) "The Supplier" means the successful Tenderer who enters into a contract with the Purchaser to supply goods.

3.2 Application

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3.3 Country of Origin

The origin of Goods and Services is held to be distinct from the nationality of the Supplier and must be stated as required.

3.4 Standards

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, or when no applicable standard is mentioned to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

3.5 Use of Contract Documents and Information

The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information except for purposes of performing the Contract.

Any document other than the Contract, itself, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

### 3.6 Patent Rights

The Supplier shall indemnify the Purchaser against all third-party claims for infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in the Purchaser's country.

### 3.7 Obligations of the Purchaser

The Supplier may request the assistance of the Purchaser in obtaining copies of laws, regulations, and information on local customs, orders or by-laws of Guyana, which may affect the Supplier in the performance of his obligations under the contract. The Purchaser provides the assistance requested to the supplier at the Supplier's cost.

The Supplier shall submit to the Purchaser in good time such details of the supplies as will enable the Purchaser to obtain all necessary import permits or licenses. The Purchaser shall obtain all import permits or licenses required for the supplies, or any part thereof, in reasonable time having regard to the time for delivery of the supplies and completion of the `points in transit.

### 3.13 Delivery and Documents

Delivery of the Goods shall be in accordance with the Distribution Details (Section 4.2) and the terms specified in section 2.8.

For purposes of the Contract, "FOB", "C&F", "CIF", "DAP" and other trade terms used to described the obligations of the parties shall have the meanings assigned to them by the current edition of the International Rules for the Interpretation of the Trade Terms published by the International Chamber of Commerce, Paris, and commonly referred to as INCOTERMS.

#### (a) **For Imported Goods:**

Upon shipment, the Supplier shall notify the Purchaser and the Insurance Company by cable or fax of the full details of the shipment including contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall mail the following documents to the Purchaser, with a copy to the Insurance Company:

- (i) Three (3) original and three (3) duplicate copies of the Supplier's invoice showing Goods description, quantity, unit price, total amount;
- (ii) Original and two (2) copies of the negotiable, clean, on-board bill of lading marked freight prepaid and one (1) copy on non-negotiable bill of lading;

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- (iii) Copies of packing list identifying contents of each package;
- (iv) Insurance certificates;
- (v) Manufacturer's/Supplier's guaranty certificates;
- (vi) Inspection certificate, issued by the nominated inspection agency if required and the Supplier's factory inspection report; and
- (vii) Certificate of origin.

The above documents shall be received by the Purchaser at least one week before arrival of Goods at the port and if not received the Supplier will be responsible for any consequent expenses.

### (b) **For Domestic Goods:**

- (i) Three (3) original and three (3) duplicate copies of the Supplier's invoice showing Goods description, quantity, unit price, total amount;
- (ii) Delivery note/receipt;
- (iii) Manufacturer's/Supplier's guarantee certificate;

## 3.14 Insurance

The Goods supplied under the Contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

Where delivery of the Goods is required by the Purchaser on a DAP basis, the Supplier shall arrange and pay for marine insurance, naming the Purchaser as the beneficiary. Where delivery is on an FOB or C&F basis, marine insurance shall be the responsibility of the Purchaser.

The marine insurance shall be in an amount equal to 110% of the DAP value of the goods from "warehouse to warehouse" on "All Risk" basis including War Risks and Strike clauses.

## 3.15 Transportation

Where the Supplier is required under the Contract to deliver the Goods C&F or DAP, or to a specified destination within the country, transport of the Goods to the port of discharge or such other point in the country of destination as shall be specified in the Contract shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

In all of the above cases, transportation of the Goods after delivery shall be the responsibility of the Purchaser. Where the Supplier is required under the Contract to deliver the Goods DAP no

restriction shall be placed on the choice of the ocean carrier.

### 3.16 Warranty

The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent models and incorporate all recent improvements in design and materials. The Contractor shall further warrant that none of the supplies have any defect arising from design, materials or workmanship. This warranty shall remain valid for a period of one year after installation and commissioning.

The Purchaser shall promptly notify the supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, with all reasonable speed, replace the defective Goods or part thereof, without cost to the Purchaser other than, where applicable, the cost of inland delivery of the replaced Goods or part from the port of entry to, the final destination.

If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the contract.

### 3.17 Payment

The method and conditions of payment to be made to the Supplier under the Contract shall be as follows:

- a) **Advance Payment:** Twenty (20) percent of the Contract Price shall be paid within seven (7) days of signing of the Contract, based on the submission of a bank guarantee for that amount.
- b) **On Supply and/or Installation:** Fifty (50) percent of the Contract shall be paid within thirty (30) of supply and installation of the required hardware and software.
- c) **On Commissioning:** Thirty (30) percent of the Contract Price shall be paid within thirty (30) days of successful commissioning of the complete system, supported acceptance certificate issued by the Purchaser.

### 3.18 Price

Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the price quoted by the Supplier in its tender.

### 3.19 Change Orders

The Purchaser may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

- (a) The method of shipment or packing;
- (b) The place of delivery;
- (c) Schedule of Performance

If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

### 3.20 Delays in the Supplier's Performance

Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in its Schedule of Requirements (Section 5 of this document).

An unexcused delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to any or all of the following sanctions: imposition of liquidated damages, and/or termination of the Contract for default.

If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions imperiling time delivery of the Goods, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, the likely duration and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

### 3.21 Liquidated Damages

If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under Contract deduct from the Contract Price, as liquidated damages, a sum equivalent to one percent of the delivered price of the delayed Goods each week of delay until actual delivery or performance, up to a maximum deduction of ten percent (10%) of the delayed Goods contract price. Once the maximum is issued, the Purchaser may consider termination of the Contract.

### 3.22 Termination for Default

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or in part:

- (a) If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract, or any extension thereof granted by the Purchaser pursuant to paragraph 3.20.
- (b) If the Supplier fails to perform any other obligation(s) under the Contract.

In the event the Purchaser terminates the Contract in part the Purchaser may pursue, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods. However, the Supplier shall continue performance of the Contract to the extent not terminated.

In the event the Purchaser terminates the Contract in whole the Purchaser reserves the right to seek damages from the Supplier. If the Purchaser terminates the contract, it shall be entitled to recover from the Supplier any loss it has suffered up to the maximum amount stated in the contract. If no maximum amount is stated, the Purchaser shall not be entitled to recover more than the part of the contract price corresponding to the value of that part of the supplies which cannot, by reason of the Supplier's failure, be put to the intended use.

### 3.23 Force Majeure

Notwithstanding the provisions of paragraphs 3.22, 3.23 and 3.24, the Supplier shall not be liable for liquidated damages or termination for default, if and to the extent that, the delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

### 3.24 Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, without compensation to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

### 3.25 Termination for Convenience

The Purchaser has the right to terminate this order in whole or in part at any time by giving a written Notice of Termination to Supplier. In such event, Supplier may claim only properly supported out-of-pocket costs plus a reasonable amount of demonstrable related charges for the work already performed, all to be determined in accordance with generally accepted accounting procedures.

For specially prepared products, unique to Purchaser's order, any partially completed work or raw

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materials whose full costs are included in the termination charges shall be identified in writing and held by Supplier for disposition in accordance with Purchaser's written instruction. Notwithstanding the foregoing Purchaser reserves the right to terminate all or any part of the undelivered or uncompleted portion of this order without liability.

3.26 Language of Contract

The Contract shall be written in the English language as specified by the Purchaser.

All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the English language.

3.27 Applicable Law

The Contract shall be interpreted in accordance with the laws of Guyana.

3.28 Notices

Any notice given by one party to the other pursuant to the Contract shall be sent in writing or by fax and confirmed in writing to the address specified for that purpose in the Contract.

A notice shall be effective when delivered or on the notice's effective date, whichever is later.

For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

**Purchaser:** The Programme Manager, Administrative Services, Caribbean Community Secretariat (CARICOM), Turkeyen, Greater Georgetown Guyana, South America.

**Supplier:** (To be filled in at the time of Contract signature)

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\_\_\_\_\_

3.29 Taxes and Duties

A foreign Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside Guyana.

The CARICOM Secretariat is entitled to duty free concessions and will assist in obtaining the required exemption letters.

3.30 Contractual Agreement

The Submission of a tender will be taken as implicit and explicit acceptance of the General Conditions of Contract as described in paragraph 3.1 to 3.31 inclusive.

3.31 After-sales service

The supplier shall undertake to carry out or have carried out the maintenance and repairs of supplies for a period of one year. The Supplier shall also ensure readily available technical expertise and a rapid supply of spare parts.

**SECTION 4 TECHNICAL SPECIFICATIONS AND TECHNICAL OFFER**

**4.1. TECHNICAL SPECIFICATIONS:**

**CONTRACT TITLE: SUPPLY AND INSTALLATION OF EQUIPMENT AND TOOLS FOR TECHNICAL AND VOCATIONAL EDUCATION TRAINING (TVET)**

**TENDER NUMBER: CTCP/6.1/C200/2014/SUP3**

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**Column 1-3 should be completed by the Contracting Authority**

**Column 4-6 should be completed by the tenderer**

**Column 7 is reserved for the evaluation committee**

<b>Lot 1: Masonry Tools and Equipment</b>						
<b>1 Item No.1</b>	<b>2. Description</b>	<b>3. Specifications</b>	<b>4. QUANTITY REQUIRED</b>	<b>5. Specifications Offered</b>	<b>6. Notes, remarks, ref to documentatio n</b>	<b>7. Evaluation Committee's notes</b>
<b>Lot 1 (a)- MASONRY Tools and Equipment(GTI -Guyana)</b> <b>The frequency for all electrical equipment is 60 Hz</b>						
1	Compaction factor test	<ul style="list-style-type: none"> <li>Rigid conical hoppers and a cylinder mounted on a rigid metal frame.</li> </ul>	1			

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	machine	<ul style="list-style-type: none"> <li>• Hoppers should be are fitted with hinged trap-doors with quick release catches.</li> <li>• Metal plate to cover the top of the cylinder.</li> <li>• plaster's trowel and</li> <li>• Tamping rod, 16mm dia x 600mm long, one end rounded</li> </ul>				
2	Mechanical concrete Vibrator	Mechanical concrete Vibrator SVRWS - 400, weight 23lbs/ 10.5 kg, speed VPM 11500- 80SPI, CFM 40, Speed VMP 13500- 100SPI LBS- 4400 Force N- 19599 DB - 82	3			
3	Star drills	20cmx13mm - max in steel - 18mm, max in wood- 40mm, max in masonry 20mm, blows per minutes - Hi 0-58, 00bpm, LO 0- 24, 000 bpm No load speed - Hi 0-2, 900 rmp, Lo 0-1200 rpm input wattage 110V - 60HZ	4			
4	Star drills	20cmx10mm -1.5 -6.5 mm high speed steel	4			
5	Tyrolean Machines	<ul style="list-style-type: none"> <li>• <b>Made from heavy duty plastic</b></li> <li>• <b>Adjustable ratchet pressure bar</b></li> </ul>	2			
6	Jaws plane	14cm	3			
7	Gauging trowels	20cmx10cm	8			
8	Builders transit complete with tripod and rod of dumpy level	<ul style="list-style-type: none"> <li>• 20x magnification for 200'+ range</li> <li>• ±1/4" per 100' accuracy</li> <li>• Transit capability allows user to determine vertical angles</li> <li>• 360 degree horizontal circle with vernier scale for precise measuring of horizontal</li> </ul>				

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		<ul style="list-style-type: none"> <li>angles</li> <li>Protected leveling vial for jobsite durability; Heavy-duty leveling base is fast and easy to set up and level</li> </ul>				
9	Masonry Hatchet	14 inches in length and metal handle.				
<b>Lot 1(b)- MASONRY Tools and Equipment(GITC) -Guyana</b>						
1	Compaction factor test machine	<ul style="list-style-type: none"> <li>Rigid conical hoppers and a cylinder mounted on a rigid metal frame.</li> <li>Hoppers should be are fitted with hinged trap-doors with quick release catches.</li> <li>Metal plate to cover the top of the cylinder.</li> <li>plaster's trowel and</li> <li>Tamping rod, 16mm dia x 600mm long, one end rounded</li> </ul>	1			
2	Mechanical concrete Vibrator	<ul style="list-style-type: none"> <li>Frame design should allow the operator maneuverability around the job.</li> <li>Flexible shaft diameter 1/2-inch flexible pipe diameter 1.42-inch rod diameter 1.38-inch,Fuel tank capacity 1-gallon,Recoil start</li> </ul>	3			
3	Star drills	20cm x 13mm	4			
4	Bolster Chisel	9-Inch length ;Protective grip rock	10			
5	jaws plane	14 cm	3			
6	Gauging trowels	20cm x 10cm Carbon Steel Blade tempered	8			

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		Ground and Polished.				
7	Measuring steel tape	20 meters Retractable centimeter tape measure. Plastic case, white steel tape, built-in hand strap.	3			
8	Measuring steel tape	4 meters ,Measuring Length ;Strap Size : 14 x 0.5cm/ 5.5" x 0.2"(Girth*W) ,Tape Width : 1.9cm/ 0.7";Case Size : 6 x 6 x 2.8cm/2.4" x 2.4" x 1.1" (L*W)	3			
9	Club hammer	1.82kg The proper tool for driving hardened nails and cold chisels, Forged in one-piece all steel construction, Nylon-vinyl grip	2			
10	Lever cutter	30-inch heavy duty bolt cutter.	2			
11	Builders transit complete with tripod and rod of dumpy level	<ul style="list-style-type: none"> <li>• 20x magnification for 200-inch range degree 1/4-inch per 100-inch accuracy,360 degree horizontal circle with vernier scale for precise measuring of horizontal angles</li> <li>• Heavy-duty leveling base</li> <li>• Tripod, Rod, and Carrying Case</li> </ul>	1			
12	Masonry Hatchet	<ul style="list-style-type: none"> <li>• 14 inches in length and metal handle.</li> </ul>	19			

<b>Lot 2: Auto Mechanics and Agro Mechanics Tools and Equipment</b>						
<b>1</b> <b>Item</b> <b>No.1</b>	<b>2.</b> <b>Description</b>	<b>3.</b> <b>Specifications</b>	<b>4.</b> <b>QUANTITY</b> <b>REQUIRED</b>	<b>5.</b> <b>Specifications</b> <b>Offered</b>	<b>6.</b> <b>Notes, remarks,</b> <b>ref to</b> <b>documentation</b>	<b>7.</b> <b>Evaluation</b> <b>Committee's</b> <b>notes</b>
Lot 2(a)- Auto Mechanics Tools and Equipment(GTI -Guyana) The frequency for all electrical equipment is 60 Hz						

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1	Engine simulator	<b>Starter power supply</b> : 0- 24 V; up 3, 00 Amps speed: 0 - 30, 000 RPM Torque: 0 - 250 NM                      Accurately Test starter/acc starter system 110/220V ;60 Hz	1			
2	Electrical simulator	Electrical simulator for motor vehicles 110/220V ;60Hz	1			
3	Auto A/C system bench	Stand Auto A/C system for motor vehicle repairs.	1			
4	Electricity master	Master Vehicle Showing Electrical system.	1			
5	Electromagnetism master	Vehicle Electromagnetism master	1			
6	Manual Transmission	8 speed Manual Transmission: include selector lever and output shaft	3			
7	Automatic Transmission	Automatic Transmission 5 speed	3			
8	Fuel pressure	Fuel pressure test instrument used for training students.	7			
9	Diesel Engine Compressor Tester	12 pcs applicable to all diesel engine scale measuring 0- 1000 psi / 0- 7 kg/cm2 . 12 piece Diesel engine compression test kit gauge with flexible hose 5 adaptor assorted copper and plastic seal	1			
10	Diesel Tachometer	Tachometer range: 200 -19999RPM battery life 200 hrs operation                      weight: 6.2 oz maximum sparkplug wire voltage 39.9 Kvolt	1			
11	Nozzle tester	Injector Nozzle tester 3 pce                      Diesel Injector tester    operates by	2			

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		hand lever/manual shut off valve/ filter scale bar/PSI Gauge	consist of 3 way weight : 6kg dual range 0- 400 bar or 0-6000 PSI			
12	Vacuum gauge	<ul style="list-style-type: none"> <li>• Single Stage Pump 5 CFM, 75 micron</li> <li>• Fitting 1/4 inch MF x 1/2 inch Acme</li> <li>• 1/3 HP 1725 RPM</li> <li>• 12 ounce oil capacity</li> </ul>		1		
13	TDC indicator	TDC indicator 1144 steel alloy with stainless steel spring w: 0.57" , H 0.57"		1		
14	Amp/volts regulator testes	110 - 220 V testing		3		
15	Valve spring compressor	Material: Steel metal, H: 2.5 Inches, L: 5-1/2 inches, w: 2 1/2 inches, Throat depth : 2 7/8 inches		2		
16	Spark plug-	size 0.8 to 1.1mm spark plug GAP gauge type: Circular Gauge Tool Material ; steel Reading in : mm/inches range 020- 100 range measure: Spark plug, electrode gaps on gap plugs		5		
17	Radiator pressure gauge	Used to defect internal ramp leaks test cooling system up to 30 PSI include, adaptor		2		
18	Surface Plate	size 160mm x 100mm - 2500mm x 1600mm BS: 817:2008		1		
19	Vernier Caliper	Sizes: 30mm and 45mm		6 of each		
20	Hermaphrodite caliper	Hermaphrodite caliper		10		
21	Portable hand drill	Size 9.552mm, rating 120v, 60hZ weight - 5.2 pounds motor output 380 units watts dual speed range 0- 450/ 0- 1500RPM 1/2 inch single lever key less ratcheting chuck for		1		

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		tighter bit grip				
22	Multimeter	Multi function Test: AC/DC Voltage AC/DC current resistance, diode check contain rotary function and range selector. Battery: 9V	6			
23	Test Light	Testing range: 6- 12 volt DC	1			
24	Hacksaw	Size: 254mm to 604mm Steel Hacksaw Frame Type: General Purpose	1			
25	Mallet	Type: Hard wood rubber mallet; face diameter , 65mm Weight: 450 g/16oz	4			
26	Diesel injector pump tester kit	17" rubber hose Gague, 5 pic adaptor	6			
27	Brake bleeder	Capacity 7 liters weight: 0.2 lb included: adaptor Material: Plastic reservoir Capacity (0.07 at) perform by one man kit	1			
28	Slide hammer puller	Slide hammer puller eight: 2.3kg shaft length: ( 4 70 mm) Included: adaptor, flat hook, self tapping screw, screw holder	3			
29	Tire pressure gauge	Tire pressure gauge hand held reading gauge with straight push on value chuck scale 0- 60 psi in increments of two	2			
30	Clutch aligning tools	Material: plastic Included: adaptor fit on most vehicle with single clutch	2			
31	Angle plate	Material: high tensile cast iron included: clamping slots, 90°	2			

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32	Soft face	Soft face hammer face are made of durability plastic include replaceable plastic face weight: 8oz	4			
33	Wheel Dresser	Grinding Wheel Dresser 10½ inches grinding wheel dresser ,included: heat treated carbon steel cutter included: replacement cutter	1			
34	Try square size 15cm	Try square size 15cm Material: stainless steel, length 14 inches Thickness : 0.0645 Inches	10			
35	Value set Kit	kit should contain grit abrasive rolls, suitable for use with a high speed grinder	2			
36	Portable electric rating	110v, 60hz; full wrap , heavy duty, 1 ¼ "	2			
37	Valve face-rating	Valve face-rating, 220, 60Hz	2			
38	Part washing machine-rating	Part washing machine- rating 220v 60Hz, capacity 800 litres	1			
39	Cylinder bore gauge indicator	size 65mm-175mm	1			
40	Feeler-size	Feeler gauge -size 0.08-0.05	7			
41	Outside micrometer	Size 0 – 25mm	6			
42	Dial indicator -	Size: 2.5mm,50mm, 7mm	9			
43	Screwdriver-	Type- Phillip, size (mm) 150,100, 75	12			
44	Vacuum	Complete set Vacuum equipment (instruments)	4			
45	Screwdriver -	Type: standard tip sizes (mm) 150,100,75	12			
46	Screwdrivers-	Type: tubby, size (mm) 35 - 50	12			

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47	Air fuel management systems	Air fuel management systems tools	1			
48	Generator and electronic motor	<ul style="list-style-type: none"> <li>• Max AC Output: 10,000 watts.</li> <li>• Rated AC Output: 8,000 watts.</li> <li>• Fuel Tank Capacity: 8.3 gallon.</li> <li>• 16 HP DuroMax Air Cooled OHV Engine.</li> <li>• Low Oil Indicator lamp &amp; shutoff.</li> <li>• Quiet exhaust w/ built-in Spark Arrestor.</li> <li>• Electric Key and EZ-Pull Recoil start.</li> <li>• Run-Time [@50% Max Output]: 10 hrs.</li> <li>• Current (120V/240VAC) &amp; (12VDC);60hz</li> <li>• Amps: 66.5 / 33.3 Amps.</li> </ul>	1			
50	Open and closed lops control in vehicles	Open and closed lops control in vehicles	1			
51	Test bench	Test bench for fuel system 8 cylinder a/c frequency/ electronic drive 75 - 10 HP 500 RPM - digital & analog - 110/220V;60hz	1			
52	Rubber mallet	Head weight 18 Oz/510 g, Overall length 13-1/2"/ 343mm.	1			
53	Complete clutch and flywheel assembly	Complete clutch and flywheel assembly	5			
54	Inside micrometer set-	Range 40 to 200mm	1			

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		material satin chrome range 5/16" - 6' or (8mm - 150mm) include adjustment				
55	Drive-shaft assembly	Drive-shaft assembly Material Diameter: 80mm length	3			
56	Steel rule-	Measure in : inches / mm Steel rule-length 45cm	3			
57	Steering rock and pinions	Steering rock and pinions Type: Hydraulics power steering rack size: standard guide Drive: RHD , weight: 16. 1	3			
58	Steering gear boxes	Steering gear boxes weight -6.2 pounds, include, compacs, spool valves, etc	3			
59	Master cylinder assembly	Master cylinder assembly, chrome plated aluminum Pro Series master cylinder comes equipped with 1-1/8", Bolts directly to our 7" and 8" brake boosters.	3			
60	Caliper assembly	Caliper assembly, For Axle Capacity 3,500lbs and Bolt Circle is 5-4.50, Kit Includes; * Hub and Rotor * Caliper, Bearing Buddy * Bracket, Bracket Hardware * Spindle Seal, Inner Bearing * Outer Bearing	3			
61	Rear brake assembly	Rear brake assembly, Return Springs, Anti-Rattle Clip Springs, Hold Down Springs, Screws, Nuts, Tips, Grease Packet	3			
62	Front brake assembly	Front brake assembly, Brake Line Inlet Thread Size: M10 x 1.0, Package Caliper, Hardware Kit	3			
63	Screw extractor asset	Assorted Sizes; Product Dimensions 1 x 1 x 1 inches,	2			
64	Wheel sensors and pressure sensors	Wheel sensors and pressure sensors, Item Weight 2.4 ounces; Product Dimensions 3.3 x 3.3 x 1.1 inches; Batteries: 1 Lithium Metal batteries required. (included)	3			

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65	Carburetors	Complete; Item Weight 7.8 ounces, Product Dimensions 3.2 x 2.2 x 2.4 inches,	3			
66	Screwdrivers-	Type- Socket; sizes- mm), Sandblasted Chrome Vanadium Steel Bits; drop Forged Chrome Plated 6-Point Sockets, 3-Function Ratchet Screwdriver: Forward, Fixed and Reverse Drive Positions, comfortable Oversized Screwdriver Handle, Bits and Accessories Fit All Power and Cordless Drills and Drivers.	4			
67	Socket size	Socket sets size (mm 10, 12, 14, 17,19, 21,22,23,24,). Black chrome appearance ;corrosion resistance; Case for convenient tool storage and travel	27			
68	Wrench, Allen- (assorted sizes)	Allen-on of set (assorted sizes, Allen wrench set w/SAE & Metric size allen wrenches Includes SAE sizes from. 035" up to 3/8" Includes Metric sizes from 0. 7mm up to 10. 0mm	3			
69	Square and level	Rivet assembly, permanently "bonds" head to blade Aluminum 1/8" blade and head thickness Black protective anodized finish to protect against rust and corrosion	3			
70	Snap ring pliers	Internal retaining ring 7 inch, 10 inch Straight, 6-3/4 inch Angled. External retaining rings 7 inch,10 inch Straight and 6-3/4 inch Angled	5			
71	Battery Terminal Cleaner	Battery cleaning brush to clean top post or side terminal battery. Metal brush bristles, Wire Material: Steel.				
72	Battery terminal remover	Battery terminal remover, dual-purpose	4			

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		puller, Easily removes stuck battery terminals, tighten knurled cone to force jaws under the cable clamp				
73	Two -post floor hoist-	Two -post floor hoist-capacity 3000 kilogram: rating 240v, 2hp, 60Hz	2			
74	Torque-	Torque-capacity 1900kg, 46kg, 30kg	3			
75	Digital volt-meter	A/c - D/c -three phase system - 7 or more digits	1			
76	Coil and condenser tester	Coil and condenser tester	1			
77	Electrical short tester	Electrical short tester	3			
78	Test light	Test light - 6V to 120V	3			
79	Spark plug gap gauge	Spark plug gap gauge	2			
80	Beam setter	Beam setter	1			
81	All purpose pliers	All purpose pliers	4			
82	Stanley Knife	Stanley Knife	6			
83	Adjustable, 250mm	Adjustable, 250mm	4			
84	Jumper cable	Jumper cable heavy duty cable 16 ft rubber insulation 400 - ampere colour coded clamps	2			
85	Power steering simulator	Power steering simulator 4 ps steering control	3			
86	Power steering pumps	Power steering pumps	3			

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87	Off-set assembly	4- 8 ton	3			
88	Air compressor-	rating 220v, 60Hz, 150psi 10hp, air cooled, two stage, four cylinder 750 litres tank	2			
89	Scribers-	Size: 15cm	10			
90	Divider-	Size: 14cm	10			
91	Old legs caliper-	Size :12cm	5			
92	Bench vice	3 in. Clamp-On Vise 3 in. Jaw capacity High-grade steel main screw High-grade steel handle	10			
93	Flaring tool set	04.7 to 1" outside	2			
94	Hand jack-	Capacity 0.100 tonnes	5			
95	Jack stand axle	3- 4 ton; 5.5 - 19 . 25 inches	8			
96	Flushing gun	a/c flush; trigger nozzle	2			
97	Belt Tension gauge	Belt Tension gauge	2			
98	Scraper set	Scraper set	1			
99	Bristle brush set	Bristle brush set	2			
100	Beam setter	Beam setter	1			
101	Battery bulb filler	Battery bulb filler	1			

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102	Battery carrying strap	Battery carrying strap	1			
103	Extension cord	length 15 metres 30 meters	2			
104	Battery terminal lifter	Battery terminal lifter	1			
105	Socket-	Socket- size (mm) 10,12,14,17,19,21,22,23,24,24	5			
106	Combination-	Size (mm) 8x9,10x12,12x14x17,17x19	2			
107	Rule	Metal Rule	3			
108	Arbor press	Arbor press 1 ton; 8" swing 5 3/4 x 4 1/4 work surface ; 4 1/2 " work area 6" work height	3			
109	Lighting & signal systems	Lighting & signal systems	1			
110	Spark plug-	Size: 20.6	4			
111	Open end	Size (mm) 8x9, 10x12,12x14,14x17,17x19	4			
112	Electrical diesel control	Electrical diesel control	1			
113	Off-set sizes	Sizes (mm) 8x10,10x12,12x14,14x17,19x21,22x24	25			
114	Vice-grip size	Vice-grip size	30			
115	Socket grip size	Socket grip size	4			
116	Socket adaptor	Socket adaptor	3			
117	Adjustable	250mm	4			

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118	Wrench kit, impact	Wrench kit, impact	4			
119	Wrench, Allen-on of set	Allen-on of set (assorted sizes)	3			
120	Square and level	Square and level	3			
121	Pipe wrencher	I-beam handle with full floating forged hook jaw Non-stick adjustment nut Includes special hook and heel jaws for plastic coated pipe 2 1/2 inch capacity	2			
122	Creeper-	size 1Mx0.05M 6 oil and chemical resistant 3 inch wheels Powder coated steel frame 450 pounds load capacity	2			
123	Hacksaw -	size 254mm to304mm	3			
124	Analogue	Mechanical analogue of equipment	4			
125	Pressure cleaner-	Steam 85-95 psi 220v, 60Hz	1			
126	Tool stand trolley	Tool stand trolley	5			
127	Anvil	Anvil, 55 lbs. ; measures 6-Inch wide x 14 1/2-Inch long x 6 1/8-Inch high and has a 5 1/2-Inch horn and 4-Inch x 8 3/4-Inch face with 1-Inch square	1			
128	Pipe Cutter kit	Metal, Plastic Color : Red, Black; Cutting Tube Dia. Range : 3-28mm / 0.12"-1.1"	1			

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		Total Size : 13 x 5.2 x 3cm / 5.1" x 2" x 1.2" (L*W*T)			
129	Petrol injection	Petrol injection -System	3		
130	Petrol Carburettor	Petrol Carburettor	3		
131	Cleaner-piston groove	Cleaner-piston groove	1		
132	Portable hydraulic lift-	Capacity 1800 kilogram	2		
133	Rigid stand-size	Rigid stand-sizes 1410mm and 2030mm	5 of each		
134	Ring compressor -	Ring compressor - size	4		
135	Air compressor-	Air compressor-220v,60Hz	4		
136	Hone (cylinder)	Hone (cylinder) size 76mm to 95mm	8		
137	Combination-	Size(mm) 8x9,10x12,12x14,14x17,17x19(one	25		
138	Hub nut	Size 20.6	4		
139	Hub nut-	Size 20.6mm	4		
140	Spark plug-	Size 20.6mm	4		
141	Open end-	Sizes (mm)8x9,1012, 12x14,17x17,17x19	25		
142	Off-set	Off-set sizes (mm) 8x10, 10x12, 12x14,14x17,19x21,22x24	30		
143	Vice grip-	Size 10cm range	4		

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144	Socket adaptor and handle	Socket adaptor and handle	3			
145	Torque-	capacity 1900kg, 460kg, 30kg	1 of each			
146	Bushing home	Bushing home	5			
147	Reamers-	Reamers-assorted sizes	2			
148	Sleeve puller	Sleeve puller	1			
149	Gasket hole cutter	9 pcs chrome plated finish, knurled handle, material Carbon steel, size: 3/32", 1/8", 5/32", 3/16", 1/4", 5/6", 3/8", 7/16", 1/2".	3			
150	Wrench kit impact	780-foot-pounds max power	4			
151	Oil measuring capacity	Capacity- 40cc-12cc 25-foot by 1-1/4-inch tape rule with belt clip Easy-to-read lockable yellow blade graduated in 1/16-inch High impact ABS case with rubber over mold for strength; Mylar-coated blade; heat-treated spring for repeated use 16-inch and 19.2-inch stud center markings	4			
152	Grease gun	length: 370mm, Weigh: 1.5 Kg, 30MPA maximum pressure	4			
153	Gasoline can	1 - 4 gals; plastic	4			
154	Pistol ring pliers	Piston ring pliers	5			
155	Air bag simulator	Size (cm) 100 x 10 p x 100 H ; Seat belt per- tensioners diagnostic socket	1			

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		12 Volts DC				
156	Measuring Tape-	length 45cm 25-foot by 1-1/4-inch tape rule with belt clip Easy-to-read lockable yellow blade graduated in 1/16-inch High impact ABS case with rubber over mold for strength; Mylar-coated blade; heat- treated spring for repeated use 16-inch and 19.2-inch stud center markings 13.6-ounces; 7-foot standout;	3			
<p>Lot 2(b)- <b>Auto Mechanics Tools and Equipment(Leonora -Guyana)</b>  <b>The frequency for all electrical equipment is 60 Hz</b></p>						
1	Two Post Lift	Product Dimensions-78 x 25 x 24 inches Size-full size Color-Black, Yellow Material-Powder Coated Steel Power Source-ac Voltage/Frequency-110 volts;60hz Horsepower-1 HP Number Of Pieces-1 Maximum Weight Capacity-9000 Pounds Measurement System-English/stand	1			
2	Alignment /Four Post Lift Combo	14,000-lb. capacity 4-post lift, Overall Width in. 130, Overall Height in. 93, Runway Dimensions L x W in. 199 x 20, Locking Positions qty. 13 Overall Length in. 241, Max. Volts 22V AC, Lift Capacity lbs. 14,000	1			
3	Wheel Balancer/Tyre Changer Combo	Tire Changer and NW-953 Wheel Balancer Combo	1			

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4	Engine simulator	<p>Application : Toyota, 2006+            Standard Equipment and Features            The swivel engine stand (35000D) comes equipped with: Heavy duty automatic locking engine rotating device (hand crank), Included drip pan with drain under engine            Full access to all internal and external engine components, Quick connect fittings for fuel lines, OEM Starter and alternator, OEM Fuel injectors and throttle body            OEM Engine management sensors, Sequential fuel injection with electronic ignition OEM COP (Coil On Plug) Ignition system.            Application specific heavy duty steel frame 5” Phenol casters (two fixed &amp; two swivel with locks, Powder coated acrylic enamel finish, Custom machined engine mounting plate designed for full access for flywheel, crankshaft and rear main oil seal service procedures, Equipped with a manual transmission flywheel</p>	1			
5	Electrical simulator	<p>Features:</p> <p>Available single sided (#52864) or double sided (#52865)            Manual fault box with 6 faults for the following communication circuits:</p> <ul style="list-style-type: none"> <li>○ DRL resistor</li> <li>○ Backup lights</li> <li>○ Turn signals</li> </ul>	1			

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		<ul style="list-style-type: none"> <li>○ I/P dimmer switch</li> <li>○ Multifunction switch</li> </ul> <p>Contents</p> <ul style="list-style-type: none"> <li>All OEM components, wiring, connectors and wire colors on BCM</li> <li>Integrated daytime running lights</li> <li>OBDII data link connector</li> <li>Full OEM diagnostic functionality supporting OBDII scan tool readout with OEM DTC's and bi-directional controls</li> <li>CL-1918-01 Front Lights (#52433) (2)</li> <li>CL-1918-2B Control Panel with BCM (#52434) (2)</li> <li>CL-1918-03 Rear Lights wth red turn/brake lights (#52435) (2)</li> <li>CL-1918-12 Set of 58 jumper wires (#52440) (2)</li> <li>CL-1918-10 Stand with lockable storage box (1)</li> <li>CL-1918-11 12VDC Power Supply (#52439)</li> </ul>				
6	Diesel engine compressor tester	<p>14 Piece Diesel Compression Tester Set for Cars, Trucks, Tractors Set includes the tester and all necessary adapters to measure cylinder pressure on most diesel-equipped cars, trucks and tractors. Includes adapters for these engines: Ford/Navistar 6.9/7.3 liter engine Audi, Volvo, VW, Cummins 5.9 liter, M-B cars &amp; trucks with 24 MM ports V-185, 210, 225, 555, VT-255, 555 Bacharach adapter M-B 18 MM (prior to 1978) M-B 12 MM (1978 and up) Majority of H-D tractor diesel engines including Allis Chalmers, Case, Deere, Ford, I. H., Mack, Onan, Waukesha Cummins V-6, V-8,</p>	1			

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		V-12 BMW 2.4 liter, Lincoln (Mark-VII) 1984 & 1985, Peugeot 12 MM/18MM Chevy Luv 1.8/2.2 liter, Isuzu 1.8/2.2 liter, Toyota 1.8 liter G. M. 4.3/5.7/6.2/6.5 liter (turbo) Detroit Diesel 53, 71, 92, 110, 149, V53, V71 Cat D-336, 1674, 1676, 3406, 3408, 3412 (capsule-type nozzles) Case, Cat, Deere, Waukesha				
7	Diesel tachometer	Description: *Measures the RPM of any rotational part. *Large LCD displaying *Wide measuring range & high resolution. *Digital display gives exact RPM with on guessing or errors. *The last value/min. Value will be automatically stored in memory and can be displayed by turn anytime. *The use of durable. *The housing has been carefully shaped to fit comfortably in either hand. *Wide measuring range & high resolution. *Digital display gives exact RPM with on guessing or errors. *It is a great tool to measure In wood and metal working it can be used to accurately measure the speed of a lathe. Feature: *Display: Large 5 digit, 18mm LCD. *Test select: Automatic. *Range: 2.5 to 99,999 RPM *Resolution: 0.1 RPM (from 2.5 to 999.9 RPM) 1 RPM (over 1,000 RPM) *Accuracy: +/- ( 0.05%25 +1 digit) *Distance: 50 to 500mm/ 2 to 20 inch *Memory: Last Value. Max Value. Min RPM	1			
8	Automatic Transmission	Automatic Transmission 5 speed	3			
<b>Lot 2(c)- Agro mechanics Tools and Equipment(Leonora -Guyana)</b>						

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1	Outboard Engine -	4 Stroke Outboard Engine (40HP)	1			
2	4 Stroke engine	5 Horse Power 4 Stroke engine( for e.g. Rototiller or similar)	1			
3	Diesel Engine	4Cylinder Diesel Engine ( 4 stroke )	1			
4	Heavy Duty Gear Box	<ul style="list-style-type: none"> <li>• Max. Input Power 270KW(360PS)</li> <li>• Max. Input Torque 1500N.m;</li> <li>• Speedometer ratio 1/545 mechanical, 6 electronic;</li> <li>• Gearshift Double-H, Gear I - VIII “ZF” synchronized, crawl and reverse dog-clutch</li> <li>• Installation Flange-mounted to engine, or installed separately, Horizontal to Right or Left, Vertical;</li> <li>• Oil Capacity 13 L</li> </ul>	1			
5	Hammer Mill	Hammer Mill	1			
6	Water Pump (small) -	3 inches ,engine driven gasoline )	1			
7	Disc Ploughs -	2 Disc	1			
8	Brush Cutter -	Brush Cutter -	1			
9	Chain Saw (5m) -	Chain Saw (5m) -	1			
10	Differential	Differential ( truck type)	1			
11	Blower for Spraying Plant	Blower for Spraying Plant (Air Foxx High Velocity 1 HP 3 Speed 3 Position 4000 CFM Air Mover )	1			
12	Honing Tools	Range (2-3/4 inches - 10-1/4 inches) Cylinder hone body with 1 set of 15540 standard range rack (range is 3 inches to 4-1/4 inches) 1 set	1			

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		each of 15500 coarse stones and 15510 medium stones				
13	Ring Compressor	Ring Compressor (Blade Width 3-1/2", Diameter Range 2-1/8" TO 5", Specification GGG-C-555)	1			
14	3/4 Drive Tools (Sockets etc.) with breaker bar	20-piece impact 6-point (includes 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2 in.)	1			
15	Oil Filter Straps	<ul style="list-style-type: none"> <li>• Heavy Duty to handle Filters with diameters up to 9" (229mm)</li> <li>• Strap made from High Strength Oil Resistant Nylon</li> <li>• Handle made from Forged Steel Chrome Plated 3/8" and 1/2" Drive Engagement</li> </ul>	2			
16	Cylinder dial bore gauge	Electronic Dial Bore Gage Set, 1.4-6" Measuring Range	1			
17	Tools for Chain Saw	71pcs Air pneumatic Tools Kit ;(1pc 1/2" Impact Wrench,8pcs 1/2"Impact Sockets, 1pc 3/8" Ratchet wrench,1pc 3/8" to 1/2" Adapter; 9pcs Hex Bites, 1pc Hex Bite Adapter;1pc Air hammer; 3pcs Chisel, 1pc Spring Retainer, 1pc 1/4" Die Grinder, 10pcs Grinding Stones,1pc 3/4" Sanding Drum, 10pcs Sanding Paper, 1pc Blow Gun, 1pc 4mm Hex Key;1pc Quick Coupler, 5pcs Male Plugs, 1pc Female Plug, 1pc 1/8" Collet, 1pc Tire Chuck, 2pcs Hex Wrench, 7pcs Blow Gun Accessories, 1pc sealing Tape, 1pc Tool Oil, 1pc Blow Case	1			
18	Heavy Duty vice with bolts	Heavy Duty vice with bolts	2			
19	Angle Grinder with Cuitin,	Electric Power 2400W/230mm Angle Grinder	1			

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	Grinding,	(MTS-AG8016) Volt&Freq. 110/230V, 60Hz; Input Power 2400W, Disc Wheel Diameter 180/230MM, No-load Speed 6000r/min; Ergonomic design prevent fatigue, Slide switch for easy operation, Dust-proof bearing prevents dust and debris from getting into the gears, 2-Position auxiliary handle.)				
20	Sanding Discs	Sanding Discs (220 volts/60hz)	1			
21	Ring Groove wear gauge	Ring Groove wear gauge	1			
22	Timing Gauge Set	Timing Gauge Set	1			
23	Valve re-facing machine	Control-Manual Machine Weight-670 lbs-305 kg Base Cabinet-Optional Valve Stem Diameter Range (with Standard Chuck)-0.157"-0.551"-4mm-14mm Valve Stem Length Range (with Standard Chuck)-2.125"-10.250"-54mm-260mm Valve Head Diameter Range-0.781"-4.000"-20mm-102mm Valve Total Length Range-3.500"-12.500"-89mm-317mm Valve Face Angle Range-15°-50° Valve Grinding Wheel Diameter-7.000"-178mm Butt Grinding Wheel Diameter-3.000"-76mm Valve & Butt Grinding Wheel Speed-3450 RPM at 60Hz & 2850 at 50Hz Valve Rotation Speed-20250 Coolant Capacity (with Cabinet)-5 Gallon-20	1			

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		<p>Liter</p> <p>Valve Grinding Motor Power-0.5 HP, AC-0.375 Kw, AC</p> <p>Grinding Oil Pump Power Flow-0.025HP - 300GPH-0.02KW - 20LPM</p> <p>Valve Rotation Motor Power-0.083 HP, DC- 0.062 Kw, DC</p> <p>Valve Stem Diameter Range (with Optional Small Chucks - VR7 Only)-0.138"-.750"-3.5mm- 19mm</p> <p>Valve Stem Length Range (with Optional Large Chucks - VR7 Only)-1.220"-10.250"-31mm- 260mm</p> <p>Coolant Capacity (without Cabinet - VR7 Only)-1 Gallon-5 Liter</p> <p>Dimensions - Machine (without base cabinet - VR7 Only)-36D x 27W x 25" H-902D x 686W x 622mm H</p> <p>Dimensions - Shipping (without base cabinet - VR7 Only)-27D x 34W x 25" H-686D x 864W x 635mm H</p> <p>Machine Weight (without base cabinet - VR7 Only)-420 lbs-191 Kgs</p> <p>Dimensions - Machine-36D x 27W x 58" H- 902D x 686W x 1461mm H</p> <p>Electrical Requirements-115 or 230V, 20 or 10A, 50/60Hz, 1Ph</p> <p>Air Requirements-cfm @ 90 psi-l/min @ 6 bar</p>				
24	Powered timing Light	Powered timing Light	1			
25	Spark Plug Cleaner	Spark Plug Cleaner	1			

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4	Compressor	2horse power (hp.)8 gall, 125PSI Portable Air	1			
5	Spray gun and Hose	Weight: 710grams, Connection: 1/4" bsp (standard connection) Cup: 0.68 litre, Working Pressure: 43 to 64 psi (3 to 4.5 bar), Air Consumption: 7 to 12.4 cfm (198 to 350 ltr/min), Fan Width: 50mm to 240mm	1			

**4.2 DISTRIBUTION DETAILS**

1. Lot No.	2. Quantity Required	3. Description	4. Distribution
Lot 1(a)	All items	MASONRY Tools and Equipment(GTI)	All items to be delivered to the- <b><u>Government Technical Institute (GTI)- Georgetown Guyana, South America</u></b>
Lot 1 (b)	All items	MASONRY Tools and Equipment(GITC) -Guyana	All items to be delivered to the <b>Guyana Industrial Training Centre (GITC), 100 Albert &amp; Woolford Avenue Georgetown - Guyana, South America</b>
Lot 2(a)	All items	Auto Mechanics Tools and Equipment(GTI -Guyana)	All items to be delivered to the- <b>Government Technical Institute (GTI)- Georgetown Guyana, West Indies</b>
Lot 2(b)	All items	Auto Mechanics Tools and Equipment(Leonora -Guyana)	All items to be delivered to <b>the Leonora Technical &amp; Vocational Training Centre, Lenora, West Coast Demerara, Guyana, South America</b>
Lot 2(c)	All items	Agro Mechanics Tools and Equipment(Leonora Guyana)	All items to be delivered to the <b>Leonora Technical &amp; Vocational Training Centre, Lenora, West Coast</b>

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			<b>Demerara, Guyana South America</b>
Lot 3(a)	All items	Metal Work Engineering Equipment(GTI -Guyana)	All items to be delivered to the- <b>Government Technical Institute (GTI)- Georgetown Guyana, South America</b>
Lot 3(b)-	All items	Metal Work Equipment (GTCI -Guyana)	All items to be delivered to the <b>Guyana Industrial Training Centre (GITC), 100 Albert &amp; Woolford Avenue, Georgetown - Guyana, South America</b>
Lot 3(c)-	All items	Welding and Metal Work Equipment(Leonora -Guyana)	All items to be delivered to the <b>Leonora Technical &amp; Vocational Training Centre, Lenora, West Coast Demerara, Guyana South America</b>
Lot 3(d)	All items	Welding and Metal Work- All Saints Secondary Antigua	All items to be delivered to the <b>All Saints Secondary Antigua, All Saints Village, Saint Paul, Antigua And Barbuda</b>
Lot 3(e)	All items	Welding and Metal Work- Princess Margaret Secondary Antigua	All items to be delivered to the <b>Princess Margaret Secondary Antigua, Hilda Davis Drive &amp; Dickenson Bay Street, St. John's Antigua and Barbuda</b>
Lot 3(f)	All items	Welding and Metal Work- Campden Park Technical Institute - St. Vincent and the Grenadines	All items to be delivered to the <b>Campden Park Technical Institute - St. Vincent, Campdenpark, St. Vincent and the Grenadines</b>
Lot 4(a)	All items	Plumbing Tools and Equipment - GTI -Guyana	All items to be delivered to the- <b>Government Technical Institute (GTI)- Georgetown Guyana, South America</b>
Lot 4(b)	All items	Plumbing Tools and Equipment -ITVET BZE Belize City	All items to be delivered to the <b>Belize ITVET, Belize City, Freetown Road Belize City, Belize</b>
Lot 4(c)	All items	Plumbing Tools and Equipment -Georgetown Technical Institute, St. Vincent and the Grenadines	All items to be delivered to the <b>Georgetown Technical Institute, St. Vincent and the Grenadines</b>
Lot 5(a)	All items	Electrical Installation (GTI -Guyana)	All items to be delivered to the- <b>Government Technical Institute (GTI)- Georgetown Guyana, South America</b>
Lot 5(b)-	All items	Electrical Installation (Leonora -Guyana)	All items to be delivered to the <b>Leonora Technical &amp; Vocational Training Centre, Lenora, West Coast Demerara, Guyana South America</b>
Lot 5(c)-	All items	Electrical Installation (GTCI -Guyana)	All items to be delivered to the <b>Guyana Industrial Training Centre (GITC), 100 Albert &amp; Woolford Avenue,</b>

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			<b>Georgetown – Guyana, South America</b>
Lot 5(d)	All items	Electrical Installation (Campden Park Technical Institute- St. Vincent and the Grenadines)	All items to be delivered to the <b>Campden Park Technical Institute – St. Vincent, Campdenpark, St. Vincent and the Grenadines</b>
Lot 5(e)	All items	Electrical Installation ( Georgetown Technical Institute- St. Vincent and the Grenadines )	All items to be delivered to the <b>Georgetown Technical Institute – St. Vincent , Georgetown and the Grenadines</b>
Lot 5(f)	All items	Electrical Installation – Advanced Vocational Education Centre (AVEC), St. Kitts	All items to be delivered to the <b>Advanced Vocational Education Centre (AVEC), Taylor, St. Kitts</b>
Lot 6(a)-	All items	Air conditioning & Refrigeration Trainer (GTI -Guyana)	All items to be delivered to the <b>Government Technical Institute (GTI)- Georgetown Guyana, South America</b>
Lot 6 (b)	All items	Air conditioning & Refrigeration trainer ITVET BZE City(Belize)	All items to be delivered to the <b>Belize ITVET, Belize City, Freetown Road Belize City, Belize</b>
Lot 7(a)	All items	Carpentry (GTI -Guyana)	All items to be delivered to the- <b>Government Technical Institute (GTI)- Georgetown Guyana, South America</b>
Lot 7(b)-	All items	Carpentry (GTIC -Guyana)	All items to be delivered to the <b>Guyana Industrial Training Centre (GITC), 100 Albert &amp; Woolford Avenue Georgetown – Guyana, South America</b>
Lot 7(c)	All items	Carpentry - All Saints Antigua	All items to be delivered to the <b>All Saints Secondary Antigua, All Saints Village, Saint Paul, Antigua And Barbuda</b>
Lot 7(d)	All items	Carpentry – Princess Margaret Secondary Antigua	All items to be delivered to the <b>Princess Margaret Secondary Antigua, Hilda Davis Drive &amp; Dickenson Bay Street, St. John’s Antigua and Barbuda</b>
Lot 7(e)	All items	Carpentry – Camden Park Technical Institute St. Vincent	All items to be delivered to the <b>Campden Park Technical Institute – St. Vincent, Campden Park, St. Vincent and the Grenadines</b>
Lot 7(f)	All items	Carpentry – Corozol- Belize	All items to be delivered to the <b>Corozal ITVET,Santa Rita Heights, P.O. Box 370 Corozal, Belize</b>
Lot (g)	All items	Carpentry Equipment – ITVET BZE- Belize	All items to be delivered to the <b>Belize ITVET, Belize City, Freetown Road Belize City, Belize</b>

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Lot 7(h)	All items	Lot 7(h) Carpentry - West Hall Secondary Grenada	All items to be delivered to the, <b>West Hall Secondary Grenada, Wester Hall, St David's Grenada</b>
Lot 7(i)	All items	Carpentry - AVEC St. Kitts	All items to be delivered to the <b>Advanced Vocational Education Centre (AVEC), Taylor, St. Kitts</b>

## New Files Review

4 EXECUTIVE SUMMARY The European REACH Regulation<sup>1</sup> came into force on 1 June 2007 and affects all industries. It requires immediate and ongoing action from the OEMs and their suppliers. Under REACH, Substances of Very High Concern (SVHCs) may require authorisation and substances which place unacceptable risk on human health or the environment may be restricted. Compliance with the REACH Regulation is mandatory for companies doing business in the EEA (and for businesses with customers or subsidiaries doing business in the EEA). In preparation for REACH, representatives of all the major vehicle manufacturers and the automotive supply chain formed a Task Force on REACH (TFREACH). The TF-REACH recommends a common schedule and external communication strategy which harmonises the sector's response to REACH and avoids duplication and confusion. The TF-REACH approach and recommendations are outlined in this Automotive Industry Guideline on REACH (AIG). Since the publication of the Automotive Industry Guideline (AIG) on REACH Version 3.1 in June 2012 the REACH process has passed some important milestones such as the continuous growth of the Candidate List (hereinafter CL) and the Annex XIV Authorisation List. Also the term "article" has been redefined by the EU Court of Justice. Furthermore under authorisation first sunset dates have passed and applications for authorisation have been granted to industry. Also experience was gained from the first and second registration deadlines. Having accumulated a wealth of experience through the cooperation in the Task Force and in the light of upcoming processes which include authorisation of use, notification of CL substances in articles and communication due to the steadily increasing CL, it was felt that another update of the AIG would be helpful for vehicle manufacturers and the automotive industry supply chain to benefit from this broad experience. Whereas in the past industry had been concerned about how to cope with REACH in a timely manner, it now can face upcoming duties with confidence that tasks can be adequately managed. The automotive industry appreciates the efforts made in the supply chain

in finding substitutes for SVHCs which better protect human health and the environment along the supply chain, at our facilities and dealerships and last but not least our customers. Key messages

- REACH imposes different obligations for each role the sector performs: as a downstream user of substances (e.g. magnesium) and mixtures (e.g. engine oil), a producer of articles/complex objects (e.g. vehicle, engine, bumper manufactured in the EEA), or an importer of articles/mixtures/substances (from outside EEA). The flowcharts in Chapter 4 will help you determine what your obligations are and direct you to the appropriate section of the AIG where you can find guidance on what to do next.
- Depending on the role(s) they perform in REACH, companies should have an inventory of the substances/mixtures/articles they use. This will help to assess their obligations and next steps.
- Downstream users (DUs) expect their uses of a substance to be registered up the supply chain.
- The AIG makes the recommendation that non-EEA suppliers appoint an Only Representative (OR) in the EEA which takes on the importer responsibilities, instead of each of their customers duplicating the importer role (see Chapter 5.4).
- To fulfil their REACH obligations, the entire supply chain needs to communicate data, uses, control measures for safe use, etc. (see Chapter 5.5 and the standard REACH awareness letter in Annex B).
- Each actor in the supply chain should appoint a REACH representative and develop a strategic action plan to ensure compliance and minimise the business risks posed by REACH.
- The sector has considered whether any substance releases from articles are considered to be intended releases for the purposes of REACH and our conclusions are set out in Chapter 5.8.

1 Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorisation (and Restriction) of Chemicals

5 • Chapter 6 of the AIG summarises the main obligations and recommendations for the AI response to REACH along with a timeline for each activity. These activities are broadly grouped into the 5-step REACH compliance schedule (see Annex C) under the headings of raising awareness, developing a substance inventory, declaration of intent (three

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steps), SVHC and risk management measures and uses. • The Chapters 5 and 6 describe the different processes around supply chain communication, including the SDS/Ext-SDS requirements with a focus on DU. This chapter is followed by information about CLP and the notification duties. This Guideline is a living document which will be updated in light of guidance and the practical experience gained by TF-REACH members when tackling the different REACH processes. Disclaimer This document contains guidance explaining the REACH obligations for the Automotive Industry and how to fulfil them. It is offered in good faith and reflects the best knowledge of the global automotive industry experts and the state of the art at the time of its publication. However, users are reminded that the text of the REACH Regulation is the only authentic legal reference and that a binding interpretation of EU legislation is the exclusive competence of the European Court of Justice. Therefore the information and guidance in this document are not legally binding. The associations responsible for the publication of this document will not accept any liability regarding the contents of this document or arising from its use. The associations are committed without reservation to fair competition. As trade associations, their purpose is to promote the interest of their members and to facilitate their respective aims and objectives only through legitimate means and activities. In carrying out this role, the associations shall proceed with caution to ensure against violation of the EU antitrust laws. 13 June 2018 » EXECUTIVE SUMMARY AIG ON REACH 4.0 6 7 The Registration, Evaluation, Authorisation (and Restriction) of Chemicals (REACH) Regulation (EC) No 1907/2006 entered into force on the 1st of June 2007 and affects all industries. As the automotive industry is made up of vehicle manufacturers and many tiers of the supply chain, it has several roles under REACH which are all linked to different obligations (see Chapter 5). In preparation for REACH, the major vehicle manufacturers, represented by the associations ACEA, AIAG, BIL, CLEPA, JAMA, KAMA, and VDA formed a task force on REACH (TF-REACH2 ). The Task Force aims to establish a common schedule and

external communication strategy which will harmonise the sector's REACH implementation process. The TF-REACH cannot impose its recommendations on members but hopes they will be widely adopted to avoid duplication of effort and confusion all along the supply chain. Positions adopted in this Guideline are based on consensus between all Task Force members, not on a majority voting system. This Guideline will be a living document and will be modified according to the future revisions of REACH. It will also be updated with the release of the European Chemicals Agency (ECHA) Guidance Documents and the practical experiences gained by members of the different associations during REACH implementation. The Automotive Industry Guideline (AIG) is intended to provide practical help to downstream users using substances and/or mixtures and/or articles in their industrial processes. It also addresses the obligations of producers and importers of articles. It should be seen as an aide mémoire to assist with preparation for compliance with the REACH legislation. It does not however, extensively address obligations of manufacturers or importers of chemical substances and/or mixtures or the obligations of formulators (first level downstream users). This Guideline will reference the legal text of REACH and the CLP Regulation. The REACH Regulation (EC) No 1907/2006 and Directive 2006/121/EC amending Directive 67/548/EEC were published in the Official Journal on 30 December 2006 and in the corrected text version dated 29 May 2007. The legal text including all implementing legislation can be found at: <https://echa.europa.eu/regulations/reach/legislation>. FOREWORD: ABOUT THIS GUIDELINE This Guideline should be used in conjunction with the current REACH Regulation and ECHA guidance documents in order to understand the specific legal obligations of each member (actor) in the automotive industry supply chain. Comments and updates of the Automotive Industry Guideline on REACH This version, and future updates of the Automotive Industry Guideline on REACH, will be available to download free of charge at <http://www.acea.be/reach>. Comments and suggestions for improving this Guideline are welcome, via the secretary to TF-REACH under

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reach@acea.be or to the association of which you are a member (see Annex A). A list of changes comparing the current and previous version of this Guideline can be found in Annex T of this Guideline. Updates that are agreed by the TF-REACH after the publication of the latest version of the AIG-REACH will be collected and published in the meantime in Annex S to this Guideline. 2 See Annex A, “Associations supporting the Task Force REACH (TF-REACH)” for a full list of TF-REACH member organisations and a list of all the major vehicle manufacture

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## **1 Introduction (NST-467451)**

NST-512873 These module requirement specifications (German: KLH) define the technical and procedural requirements for the provision of services related to the development and series production of components, subsystems, software, or integrated modules (collectively referred to as the "component" or "scope of supply") by the Integrator (supplier) for Novatra Systems or the relevant Novatra Operations Site (NOS) with which the Integrator has established a contractual supply agreement (hereafter referred to as the Client).

NST-4764956 For reasons of linguistic simplicity, references to individuals may appear in the masculine form. All references, however, apply equally to persons of any gender identity.

NST-467449 Within this document, the term "shall" is to be interpreted as equivalent to "must".

### **1.1 Document Landscape (NST-467449)**

NST-467450 Together with the supporting documentation referenced herein, these specifications constitute the binding framework for the Integrator's scope of supply.

NST-467451 References to other documents are provided in square brackets, e.g. [LHV 310 00x]. Such documents are listed in the section "Other Applicable Documents." Availability and retrieval options are managed through the Spec Vault Repository (SVR).

#### **1.1.1 Document Creation (NST-467456)**

NST-467457 This document is generated directly from the requirements management system maintained by Novatra Systems. Updates and revisions are managed in the same system and shared with the Integrator as necessary.

NST-467454 Each content element is assigned a unique identifier (ID) for traceability. IDs may appear in the following formats depending on layout:

- ID aligned left, text aligned right (requirement)
- ID placed directly below the requirement text
- ID shown in brackets after a heading

NST-867453 The Integrator may also receive requirements through database export packages.

NST-1079018 Italicized text within a PDF export indicates classification metadata associated with the requirement ID.

### 1.1.2 Common Requirements (NST-467455)

NST-467458 The document “Common Requirements Pertaining to the Component Specifications” [LHV 310 00x] contains provisions that apply across all scopes of supply defined by Novatra Systems.

NST-467462 In case of discrepancies between this specification and the Common Requirements [LHV 310 00x], the rules stated in this module requirement specification (KLH) shall prevail.

NST-467459 Chapters or clauses in [LHV 310 00x] are referenced by their requirement ID rather than chapter numbering (e.g., “Scheduling in the Project” CRCS-3339913).

NST-467460 CRCS-3339913 in the Common Requirements describes structural updates to the specification template. These serve as orientation guidance only and do not relieve the Integrator of the obligation to perform a thorough review of all applicable requirements.

### 1.1.3 Logistics Component Requirement Specifications (NST-467465)

NST-467464 For each sourcing scope, the Integrator receives a corresponding Logistics Requirement Specification [LOG KLH], which defines the logistics concept. This concept may vary depending on the type of component, the applicable Novatra Operations Site (NOS), delivery format, and the Integrator Manufacturing Hub (IMH). The Integrator shall comply fully with the requirements outlined in [LOG KLH].

NST-4750936 For each sourcing scope, the Client’s Purchasing Department provides a logistics framework. This framework is tailored by component type, supplier capability, and delivery location.

Table 1: Test Parameters

Tape width mm	Number of strips per rod (-)	Total width mm
6	10	115
9	8	117
12	6	117
15	5	109
18	3	120
25	2	y

### **2.1.3 System Context (NST-467962)**

NST-6750936 The components described in this section are part of the Celura Illumination Network (CIN) located within the vehicle's roof module. Relevant system-level requirements applicable to these components are outlined in this chapter and shall be implemented by the Integrator accordingly.

### **2.1.4 Requirements for Components Involved**

#### **2.1.4.1 Component Contribution - Luminara Control Hub (LCH) (PV\_LCH-43725)**

PV\_LCH-43752 The LCH consists of a Prime Controller Node (PCN) and multiple Optic Flow Arrays (OFAs). The OFAs are subdivided into Sub-Light Processing Units (SLPUs), each of which manages assigned Trispectrum Emitters (TSEs).

PV\_LCH-43768 The LCH receives control instructions through the LNX Communication Layer (LNX- CL) and distributes the relevant information to the SLPUs, which then execute the commands.

PV\_LCH-43715 Colors are transmitted as Trispectrum (RGB) values. Each SLPU computes the required pulse-width modulation (PWM) for its TSEs using a correction algorithm to achieve calibrated color accuracy. The LCH and its SLPUs automatically interpolate incoming data at up to 100 fps.

PV\_LCH-43711 Target light images may be transmitted to the LCH and subsequently forwarded to the SLPUs. Execution can occur immediately or after preloading the image into an SLPU buffer memory, triggered later through a defined command.

#### **2.1.4.1.1 Component Tasks (PV\_LCH-43746)**

PV\_LCH-43720 The PCN must be able to control a configurable subset of TSEs within the OFAs via the assigned SLPUs.

PV\_LCH-43739 Up to  $n$  SLPUs may be deployed. The number of TSEs ( $m$ ) must be allocated using the parameter  $PALC\_SLPU\_number\_n=[x\ y]$  ( $x>1, y\leq m$ ). Final agreement on the number and addressing of both SLPUs and TSEs shall be confirmed with the Client.

#### **2.1.4.1.1.1.2 Communication (PV\_LCH-43707)**

PV\_LCH-43760 The PCN transmits display commands to the relevant SLPUs. These are addressed according to the LNX-CL scheduling protocol and carry user data defined in subsequent chapters.

PV\_LCH-43744 For reliability, identical user data may be cyclically re-sent (e.g., every 500 ms) if no new instructions are available. The LCH or receiving SLPU must determine whether the data has already been received and whether it is present in its buffer or working memory.

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PV\_LCH-43692 All required signals for LCH and SLPU, along with their expected behavior, are specified in the associated .ldf file.

PV\_LCH-43698 The LCH is addressed via the LNX-CL schedule, with each SLPU allocated a dedicated data set.

PV\_LCH-43728 The LCH must evaluate the LNX-CL schedule to determine which SLPU-specific data is relevant for execution.

PV\_LCH-43705 Up to 16 SLPU's can be addressed simultaneously. Each must be assigned an individual fixed address (1...n).

PV\_LCH-43763 This addressing is configured via the parameter PALC\_SLPU-n-address\_[n]=[1...16].

#### **2.1.4.1.1.1.3 Addressing (PV\_LCH-43742)**

(Requirement reserved for addressing-specific definitions, already aligned with LNX-CL addressing scheme.)

#### **2.1.4.1.1.1.4 Control of Color (PV\_LCH-13702)**

PV\_LCH-43723 Color transmission occurs via the "Trispectrum color value" signal.

PV\_LCH-43713 The LCH must convert the received Trispectrum color value into the calibrated target color.

PV\_LCH-43762 Elementary color red shall be displayed at values = 4094/0/0, activating only the red chip of the TSE (uncalibrated).

PV\_LCH-43691 Elementary color green shall be displayed at values = 0/4094/0.

PV\_LCH-43755 Elementary color blue shall be displayed at values = 0/0/4094.

PV\_LCH-43689 An input value of 4095 is interpreted as IDLE.

PV\_LCH-43735 If an IDLE value is received, the LCH must disregard the corresponding command without interrupting ongoing operations.

PV\_LCH-43734 If a color value falls outside the set of valid IDs defined by the Client, the LCH must discard the command. Ongoing operations remain unaffected.

#### **2.1.4.1.1.1.5 Brightness Control (PV\_LCH-43738)**

PV\_LCH-43710 Brightness is controlled via the "Trispectrum brightness value" signal.

#### **2.1.4.1.1.1.6 Dimming Behavior (Interpolation) (PV\_LCH-43719)**

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PV\_LCH-43745 The LCH shall perform linear interpolation between values transmitted by the PCN at 6.25 fps up to 100 fps.

PV\_LCH-43695 Interpolation can be enabled or disabled via the “Execution request” signal.

PV\_LCH-43743 Additional details on interpolation are provided in the technical lighting content section of the KLH.

#### **2.1.4.1.1.1.7 Memory Management (PV\_LCH-43716)**

PV\_LCH-43697 The LCH shall provide two distinct memory areas:

1. Executing working memory
2. Buffer memory

PV\_LCH-43766 Light images must be preloaded into the buffer memory independently of data in the executing memory.

PV\_LCH-43733 A command defined in the .ldf file shall be used to transfer preloaded images from the buffer into executing memory for display.

#### **2.1.4.1.1.1.8 Execution Request (PV\_LCH-51001)**

PV\_LCH-51002 Different execution types are available, defining how the LCH processes incoming instructions.

PV\_LCH-51003 The execution type is transmitted via the “Execution request” signal.

##### **2.1.4.1.1.1.8.1 IDLE (PV\_LCH-51004)**

PV\_LCH-51005 When set to IDLE, the addressed LCH shall ignore all user data in the received request. Ongoing operations are not disrupted or modified.

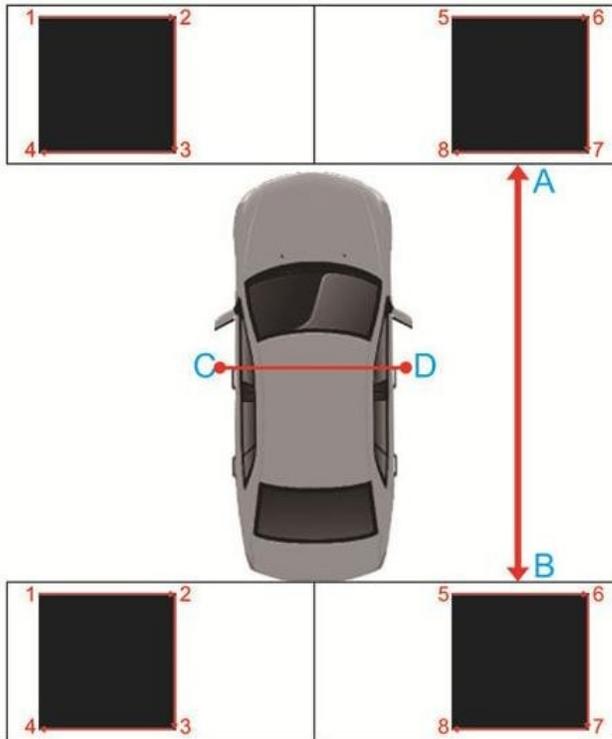
PV\_LCH-51006 Note: The IDLE mode is primarily used for synchronization of individual sequences.

##### **2.1.4.1.1.1.8.2 EXE (PV\_LCH-51007)**

PV\_LCH-51008 All SLPUs shall transfer data stored in buffer memory into working memory and begin interpolated execution if the value = GLOBAL\_INT. Any operation currently running is cancelled.

##### **2.1.4.1.1.1.8.3 LOAD (PV\_LCH-51009)**

PV\_LCH-51010 All SLPUs shall transfer received data into buffer memory when the value = LOAD. Ongoing operations remain unaffected.



#### 2.1.4.1.1.1.8.4 NDEF & SNA (PV\_LCH-51011)

PV\_LCH-51012 The LCH must interpret value range 2...3 as NDEF (Not Defined).

PV\_LCH-51013 If the value = NDEF/SNA, the LCH shall ignore or discard all information in the execution request. Ongoing operations remain unaffected.

#### 2.1.4.1.1.1.9 Initialization After Reset (PV\_LCH-51014)

PV\_LCH-51015 After a restart, the LCH shall initialize buffer memory with the following values:

- Trispectrum value = 0 / 0 / 0
- Execution type = IDLE
- Interpolation = OFF

