



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY (TESDA)

# **BID DOCUMENTS**

## **Procurement of Learning Systems for RTC-NCR**

**TESDA-CO-2021-37**

**Sixth Edition  
July 2020**

# Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. **Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.**
- f. **For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.**

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# ***Glossary of Acronyms, Terms, and Abbreviations***

**ABC** – Approved Budget for the Contract.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**CDA** - Cooperative Development Authority.

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

**DDP** – Refers to the quoted price of the Goods, which means “delivered duty paid.”

**DTI** – Department of Trade and Industry.

**EXW** – Ex works.

**FCA** – “Free Carrier” shipping point.

**FOB** – “Free on Board” shipping point.

**Foreign-funded Procurement or Foreign-Assisted Project**– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**Framework Agreement** – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

**GFI** – Government Financial Institution.

**GOCC** – Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports,

seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**Supplier** – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

**UN** – United Nations.

# ***Section I. Invitation to Bid***





## INVITATION TO BID FOR THE PROCUREMENT OF LEARNING SYSTEMS FOR RTC-NCR

1. The **Technical Education and Skills Development Authority (TESDA)**, through the **General Appropriations Act (GAA) CY 2021** intends to apply the sum of **Four Hundred Ninety-Nine Million Nine Hundred Ninety-Nine Thousand Eight Hundred Forty-One Pesos and 37/100 (P499,999,841.37)** for the **Procurement of Learning Systems for RTC-NCR** being the ABC to payments under the contract for all items in each lot. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.

LOT NO.	TITLE	ABC
1	Advertising & Brand Communication	P821,706.67
2	Building Management and Automation System	P15,203,111.25
3	Automotive E-Learning Package	P3,835,629.00
4	Welding Equipment and Supplies	P94,606,057.85
5	Welding Simulators and e-Learning packages	P19,321,543.56
6	Electronics/Electrical Tools and Equipment	P674,100.01
7	Fabrication Tools, Equipment and Supplies	P1,602,985.99
8	Furniture	P9,000,930.85
9	Hand Tools and Measuring Instruments	P628,602.87
10	Creative Software Packages	P26,266,189.77
11	Air Conditioning, Refrigeration and Water Dispenser	P3,726,415.95
12	IT Equipment and Software	P97,614,885.66
13	Multimedia Equipment	P19,300,898.60
14	Photography and Videography	P42,199,809.49
15	Structured Cabling Equipment and Supplies	P6,638,684.64
16	Industrial Automation, Mechatronics and Robotics	P75,509,056.01
17	Machining Equipment	P40,794,612.60
18	Power Generation Equipment and Supplies	P11,964,309.94
19	Solar and Wind Power Generation Trainer	P11,831,930.88
20	Science Lab Equipment	P1,360,139.94
21	Science Learning Systems	P17,098,239.84
<b>TOTAL</b>		<b>P499,999,841.37</b>

2. The **TESDA** now invites bids for the above Procurement Project. Delivery of the Goods is required within **ninety (90)** calendar days from receipt of the winning bidder of the Notice to Proceed. Bidders should have completed, within five (5) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from TESDA and inspect the Bidding Documents at the address given below during office hours from 8:00 a.m. to 5:00 p.m. starting **9 December 2021**.
5. A complete set of Bidding Documents may be acquired by interested Bidders beginning **9 December 2021 until 27 December 2021** from the given address and website(s) below and upon payment of the following applicable fees for the Bidding Documents:

LOT NO.	ABC (in Philippine Peso)	Cost of Bidding Documents (in Philippine Peso)
1	821,706.67	1,000.000
2	15,203,111.25	25,000.000
3	3,835,629.00	5,000.000
4	94,606,057.85	50,000.000
5	19,321,543.56	25,000.000
6	674,100.01	1,000.000
7	1,602,985.99	5,000.000
8	9,000,930.85	10,000.000
9	628,602.87	1,000.000
10	26,266,189.77	25,000.000
11	3,726,415.95	5,000.000
12	97,614,885.66	50,000.000
13	19,300,898.60	25,000.000
14	42,199,809.49	25,000.000
15	6,638,684.64	10,000.000
16	75,509,056.01	50,000.000
17	40,794,612.60	25,000.000
18	11,964,309.94	25,000.000
19	11,831,930.88	25,000.000
20	1,360,139.94	5,000.000
21	17,098,239.84	25,000.000

The fees for the Bidding Documents shall be applied for each lot based on the above schedule of fees. However, the total amount to be paid by the prospective bidders should not exceed **₱50,000.00** regardless of the number of lots being bid.

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The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

6. The TESDA will hold a Pre-Bid Conference on **15 December 2021 at 1:30 p.m.** through video conferencing or webcasting via **Zoom** which shall be open to prospective bidders.

In line with the precautionary health measures being adopted by the agency, interested bidders may join the Pre-Bid Conference via video-conference (Zoom). In order to secure the zoom link password, prospective bidders are advised to send an email request to the BAC Secretariat at **[bacsecretariat@tesda.gov.ph](mailto:bacsecretariat@tesda.gov.ph) NOT LATER THAN 4:00 P.M., 14 DECEMBER 2021**, together with the following details:

- a. Name of Project
- b. Bid Reference
- c. Activity
- d. Company Name
- e. Address
- f. Name of Representative [maximum of two (2)]
- g. Contact Nos.
- h. E-mail Address
- i. Scanned or Proof of Identity of the representative (pls. attach)

By submitting the abovementioned information, it would be understood that the prospective bidders are conforming to the Data Privacy Act and TESDA Privacy Rules and Regulations. TESDA will not share the personally identifiable information to any third party for marketing purposes. However, TESDA may share information with governmental agencies in cases permitted or required by law. Likewise, the personally identifiable information shall be kept secured. Only authorized staff of the abovementioned e-mail have access to this information.

For the Pre-Bid Conference, bidders are encouraged to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who will prepare the documents for the bidder to minimize errors in the preparation of bids. The bidders' representative shall carefully consider all the discussions during the Pre-bid Conference and be guided by them in the preparation of bids. Only the **pre-registered representative/s or personnel** shall be allowed to attend during Zoom Video Conference.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **27 December 2021 at 11:00 a.m.** Online submission is not yet available. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on **27 December 2021 at 2:15 p.m.**, at the Gabriela Silang Room, TESDA Women's Center, Gate 1, TESDA Complex, Building 2, East

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Service Road, South Luzon Expressway (SLEX), Fort Bonifacio, Taguig City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

For those bidders that will be attending the meeting at TESDA, please be advised that all prospective bidders attending the meeting shall submit **a copy of their COVID 19 vaccination card** showing that their representatives are fully vaccinated and **negative COVID-19 antigen result** no longer than **twenty-four (24) hours** prior to the foregoing meeting.

**Due to community quarantine measures, only one (1) representative is allowed to attend personally in the bid opening and will be required to follow the TESDA protocol for Visitors specifically on compliance with social distancing, wearing of face masks and face shields, body temperature screening, filling up of self-screening form which must be filled-up prior to the arrival at TESDA. Visitors who show signs of COVID-19 related symptoms such as cough, flu, fever, high body temperature and sneezing are advised not to proceed to TESDA since they will not be allowed to enter the TESDA compound.**

If the bidders opt not to attend the meeting physically, they can join via Zoom application and they are advised to send an email request to the BAC Secretariat at [bacsecretariat@tesda.gov.ph](mailto:bacsecretariat@tesda.gov.ph) **NOT LATER THAN 12:00 n.n., 27 DECEMBER 2021**, together with the following details, in order to secure the Zoom link password:

- a. Name of Project
- b. Bid Reference
- c. Company Name
- d. Address
- e. Name of Representative [maximum of one (1)]
- f. Contact Nos.
- g. E-mail Address
- h. Scanned or Proof of Identity of the representative (pls. attach)

By submitting the abovementioned information, it would be understood that the prospective bidders are conforming to the Data Privacy Act and TESDA Privacy Rules and Regulations. TESDA will not share the personally identifiable information to any third party for marketing purposes. However, TESDA may share information with governmental agencies in cases permitted or required by law. Likewise, the personally identifiable information shall be kept secured. Only authorized staff of the abovementioned e-mail have access to this information.

For the Opening of Bids, bidders are required to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who prepared the documents for the bidder. The bidders' representative shall response to the queries during the meeting if ever there will be relative the document/s of the bidder. Only the **pre-registered representative/s** or

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**personnel of those bidders that purchased the Bidding Documents** shall be allowed to attend during Zoom Video Conference.

10. The **TESDA** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:  
  
**ATTY. GINBER M. LUNA**  
Head, BAC Secretariat  
3rd Floor, Procurement Division  
TESDA Administration Building  
East Service Road, South Luzon Expressway (SLEX)  
Fort Bonifacio, Taguig City 1630  
Telefax: (02) 8893-8296  
E-mail: bacsecretariat@tesda.gov.ph
12. You may visit <https://www.tesda.gov.ph/About/TESDA/149> for downloading of Bidding Documents.

*Date of Issue: 7 December 2021*

  
**DIR. DAVID B. BUNGALLON**  
BAC Vice-Chairperson  
*of Sme*

## ***Section II. Instructions to Bidders***

## 1. Scope of Bid

The Procuring Entity, **TESDA** wishes to receive Bids for the **Procurement of Learning Systems for RTC-NCR** with identification number **TESDA-CO-2021-37**.

The Procurement Project (referred to herein as "Project") is composed of **twenty-one (21) lots**, the details of which are described in Section VII (Technical Specifications).

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for **FY 2021** in the amount of **Four Hundred Ninety-Nine Million Nine Hundred Ninety-Nine Thousand Eight Hundred Forty-One Pesos and 37/100 (P499,999,841.37)**.

2.2. The source of funding is the General Appropriations Act FY 2021.

## 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

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## 5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership is not allowed to participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to fifty percent (50%) of the ABC of each lot.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## 6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under ITB Clause 18.

## 7. Subcontracts

- 7.1. The Procuring Entity has prescribed that subcontracting is not allowed.

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on **15 December 2021 at 1:30 p.m.** through videoconferencing/webcasting as indicated in paragraph 6 of the IB.

## 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the IB, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## 10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.



- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## 11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## 12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
- a. For Goods offered from within the Procuring Entity's country:
- i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
  - ii. The cost of all customs duties and sales and other taxes already paid or payable;
  - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
  - iv. The price of other (incidental) services, if any, listed in e.

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- b. For Goods offered from abroad:
  - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
  - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

### 13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

### 14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration<sup>1</sup> or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until **26 April 2022**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

### 15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

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<sup>1</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

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## 16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the IB.

## 17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the IB. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## 18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

## 19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "passed," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by ITB Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the BDS for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as one (1) Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.

- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## 20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

## 21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

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## ***Section III. Bid Data Sheet***

# Bid Data Sheet

ITB Clause																																
<b>5.3</b>	<p>For this purpose, contracts similar to the Project shall be:</p> <p style="margin-left: 40px;">a. any contract defined based on the nature of the following lots:</p>																															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">LOT NO.</th> <th style="width: 40%;">TITLE</th> <th style="width: 50%;">NATURE OF SLCC</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Advertising &amp; Brand Communication</td> <td>Contract similar to supply of advertising and communication equipment</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Building Management and Automation System</td> <td>Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Automotive E-Learning Package</td> <td>Contract similar to selling of software and/or training equipment</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Welding Equipment and Supplies</td> <td>Contract similar to the supply and/or installation of welding equipment</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Welding Simulators and e-Learning packages</td> <td>Contract similar to the supply and/or installation of welding equipment and/or training equipment</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Electronics/Electrical Tools and Equipment</td> <td>Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Fabrication Tools, Equipment and Supplies</td> <td>Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Furniture</td> <td>Contracts similar to the supply/setup of office furniture</td> </tr> <tr> <td style="text-align: center;">9</td> <td>Hand Tools and Measuring Instruments</td> <td>Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment</td> </tr> </tbody> </table>	LOT NO.	TITLE	NATURE OF SLCC	1	Advertising & Brand Communication	Contract similar to supply of advertising and communication equipment	2	Building Management and Automation System	Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment	3	Automotive E-Learning Package	Contract similar to selling of software and/or training equipment	4	Welding Equipment and Supplies	Contract similar to the supply and/or installation of welding equipment	5	Welding Simulators and e-Learning packages	Contract similar to the supply and/or installation of welding equipment and/or training equipment	6	Electronics/Electrical Tools and Equipment	Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment	7	Fabrication Tools, Equipment and Supplies	Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment	8	Furniture	Contracts similar to the supply/setup of office furniture	9	Hand Tools and Measuring Instruments	Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment	
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ITB Clause			
	LOT NO.	TITLE	NATURE OF SLCC
	10	Creative Software Packages	Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment
	11	Air Conditioning, Refrigeration and Water Dispenser	Contract similar to supply and/or installation of air-conditioning equipment
	12	IT Equipment and Software	Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment
	13	Multimedia Equipment	Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment
	14	Photography and Videography	Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment
	15	Structured Cabling Equipment and Supplies	Contract similar to the supply and/or installation of cabling equipment and supplies
	16	Industrial Automation, Mechatronics and Robotics	Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment
	17	Machining Equipment	Contract similar to the supply and/or installation of machining equipment
	18	Power Generation Equipment and Supplies	Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment

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ITB Clause																							
	<table border="1"> <thead> <tr> <th data-bbox="416 267 518 334">LOT NO.</th> <th data-bbox="523 261 890 334">TITLE</th> <th data-bbox="890 261 1348 334">NATURE OF SLCC</th> </tr> </thead> <tbody> <tr> <td data-bbox="416 334 518 555">19</td> <td data-bbox="523 334 890 555">Solar and Wind Power Generation Trainer</td> <td data-bbox="890 334 1348 555">Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment</td> </tr> <tr> <td data-bbox="416 555 518 665">20</td> <td data-bbox="523 555 890 665">Science Lab Equipment</td> <td data-bbox="890 555 1348 665">Contract similar to supply, set-up of science equipment/laboratory</td> </tr> <tr> <td data-bbox="416 665 518 776">21</td> <td data-bbox="523 665 890 776">Science Learning Systems</td> <td data-bbox="890 665 1348 776">Contract similar to supply, set-up of science equipment/laboratory</td> </tr> </tbody> </table>	LOT NO.	TITLE	NATURE OF SLCC	19	Solar and Wind Power Generation Trainer	Contract similar to supply and/or installation/integration of building automation, electrical systems, mechatronics and/or training equipment	20	Science Lab Equipment	Contract similar to supply, set-up of science equipment/laboratory	21	Science Learning Systems	Contract similar to supply, set-up of science equipment/laboratory										
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7.1	The Procuring Entity has prescribed that subcontracting is not allowed.																						
11.4	Not applicable.																						
12.1 (b)	The price of the Goods shall be quoted DDP in the Philippines.																						
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <table border="1" data-bbox="343 1411 1374 1904"> <thead> <tr> <th data-bbox="347 1417 427 1654">Lot No.</th> <th data-bbox="427 1417 762 1654">Title</th> <th data-bbox="762 1417 1050 1654">Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)</th> <th data-bbox="1050 1417 1369 1654">Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5% of ABC)</th> </tr> </thead> <tbody> <tr> <td data-bbox="347 1654 427 1720">1</td> <td data-bbox="427 1654 762 1720">Advertising &amp; Brand Communication</td> <td data-bbox="762 1654 1050 1720">₱16,434.13</td> <td data-bbox="1050 1654 1369 1720">₱41,085.33</td> </tr> <tr> <td data-bbox="347 1720 427 1787">2</td> <td data-bbox="427 1720 762 1787">Building Management and Automation System</td> <td data-bbox="762 1720 1050 1787">₱304,062.23</td> <td data-bbox="1050 1720 1369 1787">₱760,155.56</td> </tr> <tr> <td data-bbox="347 1787 427 1853">3</td> <td data-bbox="427 1787 762 1853">Automotive E-Learning Package</td> <td data-bbox="762 1787 1050 1853">₱76,712.58</td> <td data-bbox="1050 1787 1369 1853">₱191,781.45</td> </tr> <tr> <td data-bbox="347 1853 427 1904">4</td> <td data-bbox="427 1853 762 1904">Welding Equipment and Supplies</td> <td data-bbox="762 1853 1050 1904">₱1,892,121.16</td> <td data-bbox="1050 1853 1369 1904">₱4,730,302.89</td> </tr> </tbody> </table>			Lot No.	Title	Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)	Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5% of ABC)	1	Advertising & Brand Communication	₱16,434.13	₱41,085.33	2	Building Management and Automation System	₱304,062.23	₱760,155.56	3	Automotive E-Learning Package	₱76,712.58	₱191,781.45	4	Welding Equipment and Supplies	₱1,892,121.16	₱4,730,302.89
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1	Advertising & Brand Communication	₱16,434.13	₱41,085.33																				
2	Building Management and Automation System	₱304,062.23	₱760,155.56																				
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ITB Clause			
Lot No.	Title	Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)	Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5% of ABC)
5	Welding Simulators and e-Learning packages	₱386,430.87	₱966,077.18
6	Electronics/Electrical Tools and Equipment	₱13,482.00	₱33,705.00
7	Fabrication Tools, Equipment and Supplies	₱32,0259.72	₱80,149.30
8	Furniture	₱180,018.62	₱450,046.54
9	Hand Tools and Measuring Instruments	₱12,572.06	₱31,430.14
10	Creative Software Packages	₱525,323.80	₱1,313,309.49
11	Air Conditioning, Refrigeration and Water Dispenser	₱74,528.32	₱186,320.80
12	IT Equipment and Software	₱1,952,297.71	₱4,880,744.28
13	Multimedia Equipment	₱386,017.97	₱965,044.93
14	Photography and Videography	₱843,996.19	₱2,109,990.47
15	Structured Cabling Equipment and Supplies	₱132,773.69	₱331,934.23
16	Industrial Automation, Mechatronics and Robotics	₱1,510,181.12	₱3,775,452.80
17	Machining Equipment	₱815,892.25	₱2,039,730.63
18	Power Generation Equipment and Supplies	₱239,286.20	₱598,215.50
19	Solar and Wind Power Generation Trainer	₱236,638.62	₱591,596.54
20	Science Lab Equipment	₱27,202.80	₱68,007.00
21	Science Learning Systems	₱341,964.80	₱854,911.99
15	<p>Each Bidder shall submit one copy of the first and second components of its Bid.</p> <p>The Procuring Entity requests two (2) additional hard copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.</p>		

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The Project will be awarded by lot, details of which are as follows:

Lot No.	Title	Item/s	Quantity	Unit	ABC
1	Advertising & Brand Communication	1. Holographic Human Configuration	1	set	₱821,706.67
2	Building Management and Automation System	1. BMS Demo Kit	5	sets	₱15,203,111.25
		2. CRS Demo Kit	5	sets	
		3. Security Demo Kit	5	sets	
		4. Smart Outlet	50	pcs	
		5. Smart Door Lock	70	units	
		6. Smart Switch, 2-gang	50	pcs	
		7. Smart Switch, 3-gang	50	pcs	
		8. Smart Doorbell	30	units	
		9. Smart Camera	30	units	
		10. Smart Window Sensor	20	units	
		11. Smart Plug Adapter	30	pcs	
		12. Smart Bulb	100	pcs	
		13. Smart Vacuum	20	units	
		14. Smart Hub/Control Gateway	30	units	
		15. Smart Motorized Roller Blinds	20	units	
		16. Wired to Wireless Automation Bridge	20	units	
		17. Smart Temperature and Humidity Sensor	20	units	
		18. Smart Circuit Breaker, 20A	50	pcs	
		19. Smart Circuit Breaker, 30A	50	pcs	
		20. Smart Circuit Breaker, 60A	20	pcs	
		21. Smart Circuit Breaker, 100A	10	pcs	
		22. Smart Assistant	20	units	
		23. Water Level Sensor/Smart Float Switch	30	units	
		24. Light Sensor	30	units	
		25. Relay Module	10	pcs	
		26. Addressable Fire Alarm Control Panel	10	sets	
3	Automotive E-Learning Package	1. Automotive E-Learning Package	900	licenses	₱3,835,629.00

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Lot No.	Title	Item/s	Quantity	Unit	ABC
4	Welding Equipment and Supplies	1. Air Compressor	3	units	P94,606,057.85
		2. Pedestal/ bench grinding machine	3	units	
		3. Pipe Bending Machine	2	units	
		4. Power Hacksaw Machine	1	unit	
		5. Pneumatic Beveling Machine	2	units	
		6. Cut-off Machine, 12"	4	units	
		7. Drill Press	2	units	
		8. Angle grinder 4"	20	units	
		9. Angle grinder 7"	15	units	
		10. Cut-off Machine, 14"	4	units	
		11. Impact Hand Drill	28	units	
		12. Cordless Hand Drill	7	units	
		13. Straight Pencil Grinder	20	units	
		14. Cordless Pencil Grinder	5	units	
		15. Digital Portable Bending Machine	2	units	
		16. Exhaust Fan	5	units	
		17. Mechanical Bending Machine	1	unit	
		18. Sheet Metal Bending Machine	1	unit	
		19. Inverter Arc Welding Machine	8	units	
		20. GMAW/ FCAW Welding Machine	10	units	
		21. Welding and Cutting Outfit	6	units	
		22. GTAW (TIG) Welding Machine	7	units	
		23. Advanced Multi-Process Welder	5	units	
		24. Stationary Electrode Oven	5	units	
		25. Portable Rod Oven	7	units	
		26. CNC Plasma Cutting Machine	1	unit	
		27. CNC Water Jet Cutting Machine	1	unit	
		28. Industrial Vacuum Cleaner	2	units	
		29. Fume Extraction System	15	units	

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Lot No.	Title	Item/s	Quantity	Unit	ABC
		30. Magnetic Drill Press	10	units	
		31. Oxy-Acetylene Welding Set	4	units	
		32. Advanced Submerged Arc Welding Machine	2	units	
		33. Plasma Cutter	2	units	
		34. Welding Respirator	26	pcs	
		35. Welding Coverall	26	pcs	
		36. Welding Hood	26	pcs	
		37. Welding Curtain	25	pcs	
		38. Auto Darkening Welding Mask	26	pcs	
		39. Welding Nozzle Tip Cleaning Kit	10	sets	
		40. Anti Spattering Agent	7	pcs	
		41. Wrap-Around Pipe Template	25	sets	
		42. Welding Inspection Gauge Tool Kits	4	sets	
		43. Cutting disc	501	pcs	
		44. Grinding disc	501	pcs	
		45. Circular Saw Blade, 12"	51	pcs	
		46. Polishing Wire Brush Wheel	50	sets	
		47. Electrodes E6011	25	boxes	
		48. Electrodes E7018	40	boxes	
		49. Electrodes E308/309	100	boxes	
		50. Electrodes E6013 (3.2mm)	40	boxes	
		51. Electrodes E6013 (2.5mm)	100	boxes	
		52. Filler wire (FCAW)	40	spools	
		53. Filler wire MIG, 0.8 mm	40	spools	
		54. Filler wire (TIG)	40	packs	
		55. Tungsten electrode	50	packs	
		56. Mild Steel plate	30	pcs	
		57. Steel pipe, 150mm	40	pcs	
		58. Steel pipe, 50mm	40	pcs	
		59. Steel pipe, Sch 80	50	pcs	
		60. Industrial Extension cord (Electrical)	15	pcs	

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ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
		61. Circular Saw Blade, 14"	51	pcs	
		62. Filler wire MIG, 1.2 mm	50	spools	
		63. Shielding gas cylinder tank	12	pcs	
5	Welding Simulators and e-Learning packages	1. Welding Simulator	1	set	₱19,321,543.56
		2. Welding Learning Management System	1	set	
6	Electronics/Electrical Tools and Equipment	1. Digital Oscilloscope	5	units	₱674,100.01
		2. Insulation Tester	3	units	
		3. Earth Resistance Tester	5	units	
		4. Thermal Camera	5	units	
		5. Soldering Station	10	sets	
7	Fabrication Tools, Equipment and Supplies	1. Acrylic sheet 2.0 mm	20	pcs	₱1,602,985.99
		2. Acrylic sheet 3.0 mm	20	pcs	
		3. Acrylic sheet 4.5 mm	20	pcs	
		4. Acrylic sheet 5.0 mm	20	pcs	
		5. Acrylic sheet 6.0 mm	20	pcs	
		6. Acrylic sheet 10 mm	20	pcs	
		7. Acrylic sheet 12 mm	20	pcs	
		8. Acrylic sheet, diffuser white, 2 mm	20	pcs	
		9. Acrylic sheet, diffuser white, 3 mm	20	pcs	
		10. 3D Printer	5	sets	
		11. Band Saw Machine	2	units	
		12. Table Saw Machine with Stand	5	units	
		13. Miter Saw	5	units	
		14. Drill Press Machine	5	units	
		15. Jig Saw	5	units	
		16. Cordless Portable Planer	5	units	
		17. Cordless Sander	10	units	
		18. Circular Saw	5	units	
		19. Tube Bender Kit	5	sets	

ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
8	Furniture	1. Trainers' Table	21	pcs	₱9,000,930.85
		2. Trainees' Table Steel Square Legs	139	pcs	
		3. Movable Square Table	30	pcs	
		4. Swivel Chair	272	pcs	
		5. Swing Door Cabinet	16	pcs	
		6. Glass Cabinet	19	pcs	
		7. Lockers	20	pcs	
		8. L-Shape Table	40	pcs	
		9. Trainees' Chair	75	pcs	
		10. Laboratory Table	4	pcs	
		11. Lavatory counter with countertop and sink	4	pcs	
		12. Laboratory Chair (Stool)	25	pcs	
		13. Push Utility Cart Trolley	2	pcs	
		14. Trainees' Table (Movable and Foldable)	37	pcs	
		15. Conference Table	1	pc	
9	Hand Tools and Measuring Instruments	1. Multi weld plier	25	pcs	₱628,602.87
		2. Tap and Dies Set	3	sets	
		3. Combination Square	25	pcs	
		4. Try Square	20	pcs	
		5. Crimping Tool	5	pcs	
		6. Screwdriver set (precision)	7	sets	
		7. Allen Wrench	12	sets	
		8. Socket Wrench	12	sets	
		9. Digital Vernier caliper	15	pcs	
		10. Analog Vernier caliper	15	pcs	
		11. Bearing puller	5	pcs	
		12. Screwdriver set	10	sets	
		13. Clamp On Meter	5	sets	
		14. Pipe Bender, 3/4"	6	pcs	
		15. Pipe Bender, 1/2-1"	5	pcs	
		16. Pipe Threader	2	pcs	
		17. Pipe Cutter	3	pcs	
		18. Pipe Bender, 1/2"	5	pcs	
		19. Combination Wrench	10	sets	
		20. Push-Pull Rule	10	pcs	
		21. Meter Stick	10	pcs	
		22. Pipe Wrench	5	pcs	

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Lot No.	Title	Item/s	Quantity	Unit	ABC
		23. Vise Grip, 7"	5	pcs	
		24. Vise Grip, 10"	5	pcs	
		25. Tin Snip, 8"	5	pcs	
		26. Tin Snip, 10"	5	pcs	
		27. Ball Peen Hammer	10	pcs	
		28. Rubber Mallet	10	pcs	
		29. Hack Saw with Blade	10	sets	
		30. Steel Rule	10	pcs	
10	Creative Software Packages	1. Adobe Courses with Learning Management System	1	license	P26,266,189.77
		2. Adobe Certified Associate Global Classroom License	2000	licenses	
		3. Adobe Creative Cloud Software	50	licenses	
		4. Autodesk Learning Management System	1	license	
		5. Autodesk Product Design & Manufacturing Collection	29	licenses	
		6. Autodesk Certified Associate Site License Bundle	1,000	licenses	
		7. SketchUp Studio	30	licenses	
		8. Color Grading Software	1	license	
		9. Sound Effects Library	1	set	
		10. Music Instrument Sound Library	1	set	
		11. Ultimate Perpetual License Audio and Music Creation Software	3	licenses	
		12. Final Cut Pro X	40	licenses	

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**ITB Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
11	Air Conditioning, Refrigeration and Water Dispenser	1. Air Conditioning Unit, Split Type	50	sets	P3,726,415.95
		2. Air Conditioning Unit, Window Type, Mechanical Knob Controlled	5	sets	
		3. Air Conditioning Unit, Window Type, Remote-Controlled	3	sets	
		4. Refrigerator, single door	1	unit	
		5. Refrigerator, two door	1	unit	
		6. Refrigerator, No frost	1	unit	
		7. Chest Type Freezer	1	unit	
		8. Upright Freezer	1	unit	
		9. Hot and Cold Water Dispenser	1	unit	
12	IT Equipment and Software	1. Label Printer	5	units	P97,614,885.66
		2. Tablet	58	units	
		3. Computer Tower Workstation 64GB	32	units	
		4. Computer Monitor 27 inches	64	units	
		5. Computer Monitor 24 inches	31	units	
		6. Computer Tower Workstation 128GB	17	units	
		7. Uninterrupted Power Supply, 480W	115	units	
		8. Laptop, i9 11th Gen, 17-17.5"	26	sets	
		9. A3 Printer	2	sets	
		10. CAD Plotter	1	set	
		11. Flash Drive	90	pcs	
		12. External Drive Storage	6	pcs	
		13. Router	10	sets	
		14. Access Point	10	sets	
		15. Manage Switch	10	sets	
		16. Laptop, i9 11th Gen, 15-16"	70	sets	
		17. Computer Tower Workstation 32GB	15	units	
		18. Multifunction Trolley Toolbox	10	sets	
		19. A4 Printer	13	sets	
		20. Wired Headset	26	sets	

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ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
		21. 96 TB 2U Rack Mounted NAS Server	1	set	
		22. 16 Port Unit 10G Manage Switch	1	unit	
		23. Uninterrupted Power Supply (Smart UPS)	1	unit	
		24. Firewall Security Device	1	unit	
		25. 16-17" Production Monitor	6	sets	
		26. Mid-range Laptop	22	sets	
		27. Microsoft Office Productivity	20	licenses	
		28. Standalone Computer	35	sets	
		29. Laptop, 8-core	59	sets	
		30. Graphics Pen Tablet	30	sets	
		31. Microsoft 365	290	licenses	
		32. Windows Server Installer	16	licenses	
		33. Live Video Streaming Software	1	license	
		34. Uninterrupted Power Supply, 900W	6	units	
13	Multimedia Equipment	1. Teleprompter	1	set	P19,300,898.60
		2. 55" LED TV Smart Multi View Monitor	3	sets	
		3. 43" Teleprompter monitor	1	set	
		4. 65" Interactive Display	4	sets	
		5. Multi Touch Interactive Whiteboard	21	sets	
		6. USB Audio Interface	2	units	
		7. HDMI to USB 3.0 Capture Box	3	units	
		8. Digital Audio Mixer	2	sets	
		9. Digital Snake	1	set	
		10. Wireless Microphone System	2	sets	
		11. In Ear Monitoring System	1	set	
		12. Speaker Monitor Powered	2	sets	

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**ITB Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
		13. 12" Powered Bi Amp Monitor Speaker	3	sets	
		14. Professional Large Diaphragm Headphone	7	sets	
		15. Point Source Daylight LED	4	sets	
		16. SDI/HDMI Wireless Video Transmission System	3	sets	
		17. Server rack cabinet 19 inch 24U	1	pc	
		18. Cat 5 Touring 100 m	2	rolls	
		19. 9 Feet x 12 Feet LED Wall	2	sets	
		20. Custom Server Rack	3	pcs	
		21. Server Workstation Manager	2	sets	
		22. 5" Powered Studio Bi amp Monitor	12	sets	
		23. Digital Audio Interface	3	units	
		24. 88 Keys MIDI Keyboard Controller	1	set	
		25. Eucon Desktop Control Surface Control Panel	3	units	
		26. Teleprompter System	1	set	
		27. Indoor type LED Wall Display	1	set	
14	Photography and Videography	1. 12 Channel Digital Video Switcher	1	unit	P42,199,809.49
		2. 1080P Pan-Tilt-Zoom Camera	3	units	
		3. Universal Remote Control Panel	1	unit	
		4. Video Camera Tripod	5	sets	
		5. RU Rack Frame	1	pc	
		6. Dual 1x4 12G-SDI openGear Distribution Amplifiers	2	units	
		7. Embedder / Disembedder	2	units	

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**ITB  
Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
		8. RGBW Light Panel	4	sets	
		9. 4K 3-CMOS 1/2" Sensor Camcorder	1	set	
		10. Short Shotgun Microphone	3	sets	
		11. 2-Person Camera-Mount Wireless Combo Microphone System Kit	3	sets	
		12. 7" HDR Pro/Cinema Monitor-Recorder-Switcher	3	units	
		13. 10" Focusing Accessory	4	pcs	
		14. 12G SDI Coaxial Cable	5	spools	
		15. BNC Connector	3	pcs	
		16. XLR Connector	130	pcs	
		17. PL Connector	40	pcs	
		18. Audio Cable Balance	2	rolls	
		19. Camera Protective Case	2	pcs	
		20. 12G SDI Router	2	sets	
		21. 1RU Control Panel for KUMO Routers	2	sets	
		22. Play Out Work Station	2	sets	
		23. Capture / Playback Desktop I/O	2	sets	
		24. Playback Software	2	licenses	
		25. Full Frame Mirrorless Digital Camera and Accessories	1	set	
		26. Camera Lights and Accessories	1	set	
		27. Drone Camera, 7 km range	1	set	
		28. Drone Camera, 10 km range	1	set	
		29. Mirrorless Digital Camera 50.1-MP	1	set	

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**ITB  
Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
		30. 45 MP Full Frame Mirrorless Camera	1	set	
		31. Network RX Station for Camcorders	1	set	
		32. DNXIQ I/O Interface	6	units	
		33. Element Panel Kit	1	unit	
		34. DSLR Camera (Secondary camera)	1	set	
15	Structured Cabling Equipment and Supplies	1. Fusion splicer	10	units	P6,638,684.64
		2. Optical Time-Domain Reflectometer	5	units	
		3. Lan Cable Analyzer	30	units	
		4. Optical Cable Stripper	20	pcs	
		5. Fiber Loose Tube Cutter	20	pcs	
		6. Fiber Kevlar shears	20	pcs	
		7. Single Wire Punch Down Tool	20	pcs	
		8. Curve-Wave Rack, 42U	10	pcs	
		9. Curve-Wave Rack, 15U	10	pcs	
		10. Curve-Wave Rack, 6U	5	pcs	
		11. FO Splice and Patch Enclosure	10	pcs	
		12. Inline type FO Splice Closure	10	pcs	
		13. FO Rack Mount Slide 19"	10	pcs	
		14. Category 6 Patch Panel	20	pcs	
		15. Category 5E Patch Panel	20	pcs	
		16. Cable Management Panel	20	pcs	
		17. Spare Splice	10	pcs	
		18. F.O Cable Distribution 48 Core, 4 Buffer Outdoor	1	set	

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ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
		19. F.O Cable Distribution 24 Core 2 Buffer Outdoor	1	set		
		20. F.O Cable Distribution 12 Core, indoor	1	set		
		21. CAT 6 UTP	15	boxes		
		22. CAT 5E UTP Stranded	15	boxes		
		23. CAT 5E UTP Solid	15	boxes		
		24. CAT 5E UTP Cable, 25-Pair	1	set		
		25. FTTH 2 Core Flat Cable (2000m)	1	set		
		26. BNC Patch Panel	10	pcs		
		27. RG-6 Cable	10	drums		
		28. Wire Mesh Cable Tray	20	pcs		
16	Industrial Automation, Mechatronics and Robotics	1. Human Machine Interface	5	units	P75,509,056.01	
		2. Variable Frequency Drive	10	units		
		3. Additional Servo Drive System	10	units		
		4. Additional Servo Motor	10	units		
		5. Double Acting Cylinder	50	pcs		
		6. Reed Switch	100	pcs		
		7. 5/2 Way Double Solenoid Valve	50	pcs		
		8. 5/2 Way Single Solenoid Valve	50	pcs		
		9. Filter Regulator Lubricator	20	pcs		
		10. Mobile Robots 4.0	2	units		
		11. Robot Station	2	units		
		12. Modular Production System	1	set		
		13. Production Line Trainer	2	sets		
17	Machining Equipment	1. CNC Vertical Milling Machine	1	unit	P40,794,612.60	
		2. CNC Lathe Machine	1	unit		
		3. Precision Lathe Machine	1	unit		

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ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
18	Power Generation Equipment and Supplies	1. Grid Connected Solar PV, 15kW	5	unit	P11,964,309.94	
		2. Grid Connected Solar PV, 5kW	6	unit		
		3. Grid Connect, 3.8kW	12	units		
		4. Grid Connect, 5kW	12	units		
		5. Grid Connect with power limiter, 5kW	14	units		
		6. Solar Module, 300 to 350W	150	units		
		7. Solar Module, 400 to 450W	150	units		
		8. Solar Module, 200 to 250W	100	units		
		9. Solar Site Analysis tool	5	sets		
		10. Mounting rail	150	pcs		
		11. Splice	50	pcs		
		12. Mid Clamp	300	pcs		
		13. End Clamp	300	pcs		
		14. Grounding Lug	100	pcs		
		15. Solar PV Complete Test Kit	2	set		
		19	Solar and Wind Power Generation Trainer	1. Solar and Wind Power Generation Training System		2
2. Outdoor Wind Turbine Module	2			sets		
20	Science Lab Equipment	1. Eyewash with Shower Station	1	set	P1,360,139.94	
		2. Compound Microscope, E-Function	1	unit		
		3. Compound Microscope, Manual Operation	5	units		
		4. Glass Slides	6	boxes		
		5. Cover Slips/ Glass	6	boxes		
		6. Set of Test Tubes	12	sets		
		7. Test Tube Rack	12	pcs		
		8. Test Tube Holder	30	pcs		
		9. Set of Laboratory Funnel	6	sets		
		10. Dissecting Set	6	sets		
		11. Dissecting Pan	6	pcs		
		12. Set of Beakers	12	sets		
		13. Set of Graduated Cylinder	6	sets		
		14. Set of Erlenmeyer Flask	6	sets		
		15. Set of Petri Dish	6	sets		

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Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
		16. Set of Stirring Rod	6	sets	
		17. Set of Pipette/ Dropper	6	sets	
		18. Wire Gauze	30	pcs	
		19. Alcohol Lamp	12	pcs	
		20. C-Clamp	6	pcs	
		21. Tripod	12	pcs	
		22. Bunsen Burner	6	pcs	
		23. Magnet, u-shaped	6	pcs	
		24. Magnet, bar type	6	pcs	
		25. Set of Convex Lens	6	sets	
		26. Set of Concave Lens	6	sets	
		27. Crucible Tongs	6	pcs	
		28. Double Beam Balance	6	pcs	
		29. Spring Balance	6	pcs	
		30. Triple Beam Balance	6	pcs	
		31. Thermometer	6	pcs	
		32. Ammeter	6	units	
		33. Mortar and Pestle	6	pcs	
		34. Spatula	6	pcs	
		35. Compass	6	pcs	
		36. PH Meter	6	units	
		37. Salinometer/ Salinity Meter	6	units	
		38. Flammable Chemicals Storage Cabinet	1	unit	
21	Science Learning Systems	1. E-Learning for Chemistry and Physics	1	set	P17,098,239.84
		2. Cloud based Experiment Manual Content for Sciences	2	licenses	
		3. Student Experiment Set for Mechanics	3	sets	
		4. Student Experiment Set for Experiment Related to Application and Study of Water and Liquid	3	sets	
		5. Smart Digital Cart Experiment Set for Kinematics and Energy	3	sets	

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ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
		6. Student Experiment set for Thermodynamics 1	3	sets	
		7. Student Experiment Set for Introduction for Renewable Energy and Thermal Physics	3	sets	
		8. Student Experiment Set for Electricity and Magnetism	3	sets	
		9. Student Experiment Set for Optics	3	sets	
		10. Student Experiment Set for Optics 2	3	sets	
		11. Student Experiment Set for Optics 3 and Introduction to Atomic Physics	3	sets	
		12. Student Experiment Set for General Chemistry	3	sets	
		13. Student Experiment Set for Inorganic Chemistry	3	sets	
		14. Student Experiment Set for Acids, Bases and Salt	3	sets	
		15. Student Experiment Set for Organic Chemistry	3	sets	
		16. Student Experiment Set for Environmental Outdoor Activities	3	sets	
		17. Student Experiment Set for Everyday Substance	3	sets	

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ITB Clause	
20.1	<ul style="list-style-type: none"> <li>• Proof of ongoing/outstanding contract/s as identified in the Statement of Ongoing Contracts Awarded but Not Yet Started Contracts, which shall include a copy of any verifiable document(s) such as but not limited to the following: (a) Notice of Award; (b) Contract/s or Purchase Order/s; and (c) Notice to Proceed.</li> <li>• Proof of completion of the single largest contract as identified in the Statement of Single Largest Completed Contract, which shall include a copy of any verifiable document(s) such as but not limited to the following: (a) Contract/s or Purchase Order/s; (b) corresponding Sales Invoice/s; (c) Official Receipt/Cash Receipt/Collection Receipt; and (d) Certificate of Performance Evaluation (template of which is hereto attached as Annex "A").</li> <li>• Submission of pieces of evidence such as but not limited to manufacturer's or distributor's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer or distributor, samples, independent test data etc., as appropriate as proof of compliance with the bidder's actual offer, if applicable. All samples to be submitted should comply with the agency's technical specifications and performance levels, where applicable.</li> <li>* • Latest Annual Income Tax Returns (BIR Form 1701 or 1702) as filed through the Electronic Filing and Payment System (eFPS).</li> <li>* • Either of the following: <ul style="list-style-type: none"> <li>a. Value Added Tax Returns (Forms 2550M and 2550Q) covering the previous six (6) months as filed thru eFPS; or</li> <li>b. Percentage Tax Returns (Form 2551M) covering the previous six (6) months as filed thru eFPS</li> </ul> </li> <li>* Pursuant to BIR Revenue Regulations No. 03-2005 dated 16 February 2005.</li> <li>• Valid and updated PhilGEPS Certificate of Registration (Platinum Membership) including the updated list of eligibility documents as stated in Annex "A" of said Certificate of Registration.</li> </ul> <p><i>N.B. Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies of the original.</i></p>

<b>ITB Clause</b>	
	<ul style="list-style-type: none"> <li>The veracity of the subscribed Omnibus Sworn Statement submitted in accordance with Sec. 25.3 of the 2016 IRR of RA 9184 may be subject to verification. If found to be non-compliant, this shall serve as ground for post-disqualification as specified in GPPB Circular No. 01-2008 dated 7 March 2008.</li> </ul>
<b>21.2</b>	No additional requirement.

**(Bidder's Client's Company Letterhead)**

**CERTIFICATE OF PERFORMANCE EVALUATION**

This is to certify that           (NAME OF BIDDER)           has provided our company/ agency with Name of Product/s. Based on our evaluation on timely delivery, compliance to specifications and performance, warranty and after sales service, we give (NAME OF BIDDER) a rating of:

- |                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <b>EXCELLENT</b>         |
| <input type="checkbox"/> | <b>VERY SATISFACTORY</b> |
| <input type="checkbox"/> | <b>SATISFACTORY</b>      |
| <input type="checkbox"/> | <b>POOR</b>              |

This Certification shall form part of the Technical Documentary Requirements in line with           (NAME OF BIDDER)           *participation* for the **Procurement of Learning Systems for RTC-NCR.**

Issued this \_\_\_\_\_ day of \_\_\_\_\_ in \_\_\_\_\_, Philippines.

\_\_\_\_\_  
Name of Company (Bidder's Client)

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Tel./Fax No.

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## ***Section IV. General Conditions of Contract***

## 1. **Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

## 2. **Advance Payment and Terms of Payment**

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

## 3. **Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

## 4. **Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

## **5. Warranty**

- 5.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 5.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

## **6. Liability of the Supplier**

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## ***Section V. Special Conditions of Contract***

## Special Conditions of Contract

GCC Clause	
1	<p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad]</i> "The delivery terms applicable to the Contract are DDP delivered in the Philippines.</p> <p><i>[For Goods supplied from within the Philippines]</i> "The delivery terms applicable to this Contract are delivered as specified in Section VI. Schedule of Requirements, specifically in RTC-NCR, Gate 1, TESDA Complex, East Service Road, SLEX, Fort Bonifacio, Taguig City. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause, the Procuring Entity's Representative at the RTC NCR is:</p> <p><b>Mr. RIZAL S. BAUTISTA</b>  Administrator  Bldg. 14, Gate 2, TESDA Complex  East Service Road, Taguig  Email: rtcncr@tesda.gov.ph</p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> </ol>

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GCC Clause	
	<p>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract;</p> <p>e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods, as applicable; and</p> <p>f. Delivery of motor vehicles, tools and equipment to the RTC NCR at no additional cost to the Procuring Entity.</p> <p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p> <p><b>Spare Parts – Not available.</b></p>
	<p><b>Packaging –</b></p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p><b>Transportation –</b></p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p>

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GCC Clause	
	<p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Supplier's risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b></p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	Advance payment is not allowed. Payment in favor of the supplier shall only be made upon full delivery and final acceptance of the items.
3	Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.
4	<p>The supplied goods will be evaluated in terms of:</p> <ul style="list-style-type: none"> <li>• Correctness and of quantity vis-à-vis quantity indicated in this TOR</li> <li>• Compliance of actual goods to the submitted proposal in the post qualification evaluation (this includes accessories indicated in some items)</li> </ul>

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GCC Clause	
	<ul style="list-style-type: none"> <li>• Signs of physical defects, such as dents, broken parts, etc.</li> <li>• Quality of work for items requiring installation and set-up</li> <li>• Functionality and features</li> </ul> <p>The training will be evaluated in terms of:</p> <ul style="list-style-type: none"> <li>• Completeness of scope, duration and arrangement vis-à-vis training proposal submitted in the post qualification evaluation.</li> </ul>
5.1	<ul style="list-style-type: none"> <li>• Seven (7) days replacement warranty on all items.</li> <li>• One (1) year on-site warranty for items classified on all items except those that are classified as accessories and consumables.</li> <li>• For Item No. 05-001 (Air Conditioning Unit, Split Type); warranty shall be: <ul style="list-style-type: none"> <li>➢ 1 year on Parts and Labor</li> <li>➢ 3 years on PCB</li> <li>➢ 5 years on Compressor</li> </ul> </li> <li>• Free technical support for items classified as e-learning for the duration of subscription, and at least 1 year for perpetual license applications.</li> </ul>
5.2	<p>In the event that the delivered items are defective within the warranty period, the winning bidder must replace the item within one (1) month/30 calendar days from issuance of a Notice of Defect. The winning bidder shall shoulder the Cost of Return.</p> <p>The effectiveness of the warranty period is from the date of acceptance.</p>

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## **Section VI. Schedule of Requirements**

The delivery schedule expressed in calendar days stipulates hereafter a delivery date which is the date of delivery to the RTC-NCR.

Lot No.	Description	Delivered Weeks/Months
1	Advertising & Brand Communication	Within ninety (90) calendar days upon receipt of Notice to Proceed
2	Building Management and Automation System	
3	Automotive E-Learning Package	
4	Welding Equipment and Supplies	
5	Welding Simulators and e-Learning packages	
6	Electronics/Electrical Tools and Equipment	
7	Fabrication Tools, Equipment and Supplies	
8	Furniture	
9	Hand Tools and Measuring Instruments	
10	Creative Software Packages	
11	Air Conditioning, Refrigeration and Water Dispenser	
12	IT Equipment and Software	
13	Multimedia Equipment	
14	Photography and Videography	
15	Structured Cabling Equipment and Supplies	
16	Industrial Automation, Mechatronics and Robotics	
17	Machining Equipment	
18	Power Generation Equipment and Supplies	
19	Solar and Wind Power Generation Trainer	
20	Science Lab Equipment	
21	Science Learning Systems	

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## ***Section VII. Technical Specifications***

# Technical Specifications

**Lot 1 : Advertising & Brand Communication**

**APPROVED BUDGET FOR THE CONTRACT : Eight Hundred Twenty-One Thousand Seven Hundred Six Pesos and 67/100 (P821,706.67)**

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
24-002	Holographic Human Configuration	Kindly refer to the technical specifications attached as Annex B1.	1	set			

\* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

**I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
24-002	Holographic Human Configuration	<ul style="list-style-type: none"> <li>• <b>3 Units Solo Large Device 75 cm</b></li> <li>- Four-ray LED-based rotor that can project 3D content at up to 670 RPM</li> <li>- Generates high-definition 3D visuals &amp; videos</li> <li>- Supports 16M+ colors for digital excellence</li> <li>- Compact &amp; portable</li> <li>- Simple device installation &amp; dismantling</li> <li>- Custom configuration: any size</li> <li>- Unparalleled quality holographic 4K images</li> <li>- With audio-enabled 3D holograms</li> <li>- Possibility to create interactive user experience using SDK</li> </ul> <p><b>Inclusion:</b></p> <ul style="list-style-type: none"> <li>• <b>4 Units Wall Portable HH</b></li> <li>- Device compatibility: Wall made of 3 Solo L devices</li> <li>- Length: 153 cm x 73 cm x 92 cm / 60.2" x 28.7" x 36.2" (w/o device)</li> <li>- Quick installation and assembly</li> <li>- Highly mobile with leveling wheels</li> <li>- Vertical display from near ground level to 1.5 meters</li> </ul>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Measurement of dimension</li> <li>- Functionality test</li> <li>- Checking of specification (offered vs. actual)</li> <li>- Check package completeness</li> </ul>	1 Year	Yes	Yes	1	set

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<ul style="list-style-type: none"> <li>• 1 Unit Master Box</li> <li>• 1 Unit Frame with Glass Box and alignment mount</li> <li>• 1 RJ Wires</li> <li>• 1 CMS software License</li> <li>• 1 3D Content Services</li> <li>• 12 Month Subscription</li> </ul>								

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

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Name of Company/Bidder                      Signature over Printed Name of Authorized Representative                      Date

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# Technical Specifications

**Lot 2** : **Building Management and Automation System**

**APPROVED BUDGET FOR THE CONTRACT** : **Fifteen Million Two Hundred Three Thousand One Hundred Eleven Pesos and 25/100 (P15,203,111.25)**

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
03-001	BMS Demo Kit	Kindly refer to the technical specifications attached as <b>Annex B2.</b>	5	sets			
03-002	CRS Demo Kit		5	sets			
03-003	Security Demo Kit		5	sets			
02-001	Smart Outlet		50	pcs			
02-002	Smart Door Lock		70	units			
02-003	Smart Switch, 2-gang		50	pcs			
02-004	Smart Switch, 3-gang		50	pcs			
02-005	Smart Doorbell		30	units			
02-006	Smart Camera		30	units			
02-007	Smart Window Sensor		20	units			
02-008	Smart Plug Adapter		30	pcs			
02-009	Smart Bulb		100	pcs			
02-010	Smart Vacuum		20	units			
02-011	Smart Hub/Control Gateway		30	units			
02-012	Smart Motorized Roller Blinds		20	units			
02-013	Wired to Wireless Automation Bridge		20	units			
02-014	Smart Temperature and Humidity Sensor		20	units			
02-015	Smart Circuit Breaker, 20A		50	pcs			
02-016	Smart Circuit Breaker, 30A	50	pcs				
02-017	Smart Circuit Breaker, 60A	20	pcs				
02-018	Smart Circuit Breaker, 100A	10	pcs				

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Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
02-019	Smart Assistant	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-020	Water Level Sensor/Smart Float Switch		30	units			
02-021	Light Sensor		30	units			
02-022	Relay Module		10	pcs			
02-023	Addressable Fire Alarm Control Panel		10	sets			

\* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.

_____ Name of Company/Bidder	_____ Signature over Printed Name of Authorized Representative	_____ Date
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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
03-001	BMS Demo Kit	refer to Technical Specification of Item Code 03-001	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	5	sets
03-002	CRS Demo Kit	refer to Technical Specification of Item Code 03-002	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	5	sets

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
03-003	Security Demo Kit	refer to Technical Specification of Item Code 03-003	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	5	sets
02-001	Smart Outlet	<ul style="list-style-type: none"> <li>▪ WiFi and Gateway Supported</li> <li>▪ Input Voltage: 200 to 240 V</li> <li>▪ Frequency: 50 to 60 Hz</li> <li>▪ Maximum Current: 6 to 10 A</li> <li>▪ WiFi Range: at least 2.4 GHz</li> <li>▪ 2 Gang</li> <li>▪ Wall-mounted, Flush-type</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	N/A	50	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-002	Smart Door Lock	<ul style="list-style-type: none"> <li>• Access Type: Password, RFID, Key and Fingerprint Scanner</li> <li>• Features: View Access logs through mobile phone app, Can be integrated with Voice Assistant, Supports Bluetooth pairing</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Battery-operated (AA Battery)</li> <li>• With manual key override in case of battery failure</li> <li>• with English Manual</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	70	units
02-003	Smart Switch, 2-gang	<ul style="list-style-type: none"> <li>• Gateway Supported</li> <li>• Input Voltage: 200 to 240 V</li> <li>• Frequency: 50 to 60 Hz</li> <li>• Maximum Current: 6 to 10 A</li> <li>• Certification: CE RoHS FCC</li> <li>• 2 Gang</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Wall-mounted, Flush-type</li> <li>• Features: Remote control through mobile phone app, Can be integrated with Voice Assistant</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	N/A	50	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-004	Smart Switch, 3-gang	<ul style="list-style-type: none"> <li>• Gateway Supported</li> <li>• Input Voltage: 200 to 240 V</li> <li>• Frequency: 50 to 60 Hz</li> <li>• Maximum Current: 6 to 10 A</li> <li>• Certification: CE RoHS FCC</li> <li>• 3 Gang</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Wall-mounted, Flush-type</li> <li>• Features: Remote control through mobile phone app, Can be integrated with Voice Assistant</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	N/A	50	pcs
02-005	Smart Doorbell	<ul style="list-style-type: none"> <li>• Camera Definition: at least 1080P resolution</li> <li>• Night Vision: at least 3 meters</li> <li>• Angle: atleast 140°</li> <li>• Motion Detection: at least 2 meters</li> <li>• Voltage Rating: 5 to 12V DC</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Support SD card up to 128GB</li> <li>• Support remote monitoring and viewing on phone APP</li> <li>• Battery operated</li> <li>• with built-in speaker and mic</li> <li>• with mounting paste</li> <li>• with English Manual</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	30	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-006	Smart Camera	<ul style="list-style-type: none"> <li>Resolution: 5 MP, 30X Optical Zoom</li> <li>4 pcs infrared LED</li> <li>Connection: Wireless via WiFi, Assistant or Gateway</li> <li>Definition: at least 1080P</li> <li>0-360 degrees, PTZ Control</li> <li>Frequency: 2.4 to 5.0 GHz</li> <li>Motion Detection</li> <li>Infrared/Night vision (up to 10 meters distance)</li> <li>128GB Micro SD</li> <li>IP66 Waterproof               <ul style="list-style-type: none"> <li>Onvif Protocol</li> <li>Built-in speaker and mic</li> <li>APP Remote Viewing</li> <li>Installation guide</li> </ul> </li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	30	units
02-007	Smart Window Sensor	<ul style="list-style-type: none"> <li>Compatibility: Any Voice assistant or Gateway</li> <li>Frequency: 2.4 to 5.0 GHz</li> <li>Operating Temperature: 0 to 60°C</li> <li>Power Supply: 5 V Wired or with Power Adapter or battery operated</li> <li>App Control</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units
02-008	Smart Plug Adapter	<ul style="list-style-type: none"> <li>3 gang</li> <li>Input Voltage: 200 to 240 V</li> <li>Frequency: 50 to 60 Hz</li> <li>Maximum Current: 6 to 10 A</li> <li>WiFi Range: at least 2.4 GHz</li> <li>App remote Control</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	N/A	30	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-009	Smart Bulb	<ul style="list-style-type: none"> <li>• LED</li> <li>• RGB - 16 M colors</li> <li>• Input Voltage: 200 to 240 V</li> <li>• Frequency: 50 to 60 Hz</li> <li>• Power Rating: at least 10 W</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• WiFi and Gateway Supported</li> <li>• Dimmable</li> <li>• App Control</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	N/A	100	pcs
02-010	Smart Vacuum	<ul style="list-style-type: none"> <li>• Wet and dry</li> <li>• Automatic</li> <li>• Compatibility: Any Voice assistant or Gateway</li> <li>• Input Voltage: 14 to 24 V Battery Operated</li> <li>• Rated Power: at least 30 W</li> <li>• Capacity: at least 500 mL (200mL water and 300mL dust)</li> <li>• Noise Level: at most 55 dB</li> <li>• Voice, Remote and App Control</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units


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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-011	Smart Hub/Control Gateway	<ul style="list-style-type: none"> <li>• Zigbee Smart Gateway Control</li> <li>• Zigbee Alliance 3.0</li> <li>• For Wired (LAN) Connection - up to 200 max device support</li> <li>• For Wireless (WiFi) Connection - up to 100 max device support</li> <li>• Material: Fireproof, anti-flaming PC V0+</li> <li>• Power Adapter included</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	30	units
02-012	Smart Motorized Roller Blinds	<ul style="list-style-type: none"> <li>• WiFi and Gateway Supported</li> <li>• APP and Manual Control</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Compatible with a variety of shades, blinds, curtains, and drapes</li> <li>• Includes autovolt (80-240 VAC) power supply adapter</li> <li>• with ball solar panel, chain and nylon cord</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units
02-013	Wired to Wireless Automation Bridge	<ul style="list-style-type: none"> <li>• Supports Google, Amazon and Alexa</li> <li>• Features: Geofencing, Automation, Voice Control and Mobile App</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	Yes	20	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-014	Smart Temperature and Humidity Sensor	supports wired and wireless feedback Temperature range detection: -20 — -60 Deg.C (+/- 3 Deg.C) Humidity detection range: 0 — 100 pct RH (+/- 3pct) Connection: Wired or Wireless Power Supply: 12 to 24V	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	20	units
02-015	Smart Circuit Breaker, 20A	<ul style="list-style-type: none"> <li>• Resolution: 5 MP, 30X Optical Zoom</li> <li>• 4 pcs infrared LED</li> <li>• Connection: Wireless via WiFi, Assistant or Gateway</li> <li>• Definition: at least 1080P</li> <li>• 0-360 degrees, PTZ Control</li> <li>• Frequency: 2.4 to 5.0 GHz</li> <li>• Motion Detection</li> <li>• Infrared/Night vision (up to 10 meters distance)</li> <li>• 128GB Micro SD</li> <li>• IP66 Waterproof</li> <li>• Onvif Protocol</li> <li>• Built-in speaker and mic</li> <li>• APP Remote Viewing</li> <li>• Installation guide</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	Yes	50	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-016	Smart Circuit Breaker, 30A	<ul style="list-style-type: none"> <li>• Supports Wired Home Automation and Wireless (Internet) Control</li> <li>• Ampere Rating: 30 to 32 A</li> <li>• Voltage Rating: 200 to 250 V</li> <li>• Frequency Rating: 50 to 60 Hz</li> <li>• Installation/Mounting: Din Rail</li> <li>• Phase: Single</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Impact Withstand Voltage: atmost 6kV</li> <li>• Short Circuit Breaking Capacity: at least 10kA</li> <li>• Protection Grade: IP20 (CE Certificate)</li> <li>• Ambient Temperature: -25 °C to +65 °C</li> <li>• Installation Category: II, III</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	Yes	50	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-017	Smart Circuit Breaker, 60A	<ul style="list-style-type: none"> <li>• Supports Wired home automation and Wireless (internet) Control</li> <li>• Ampere Rating: 60 to 63 A</li> <li>• Voltage Rating: 200 to 250 V</li> <li>• Frequency Rating: 50 to 60 Hz</li> <li>• Installation/Mounting: Din Rail</li> <li>• Phase: Single</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Impact Withstand Voltage: atmost 6kV</li> <li>• Short Circuit Breaking Capacity: at least 10kA</li> <li>• Protection Grade: IP20 (CE Certificate)</li> <li>• Ambient Temperature: -25 °C to +65 °C</li> <li>• Installation Category: II, III</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	20	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-018	Smart Circuit Breaker, 100A	<ul style="list-style-type: none"> <li>• Supports Wired home automation and Wireless (internet) Control</li> <li>• Ampere Rating: 100 to 105 A</li> <li>• Voltage Rating: 200 to 250 V</li> <li>• Frequency Rating: 50 to 60 Hz</li> <li>• Installation/Mounting: Din Rail</li> <li>• Phase: Single</li> <li>• WiFi Range: at least 2.4 GHz</li> <li>• Impact Withstand Voltage: atmost 6kV</li> <li>• Short Circuit Breaking Capacity: at least 10kA</li> <li>• Protection Grade: IP20 (CE Certificate)</li> <li>• Ambient Temperature: -25 °C to +65 °C</li> <li>• Installation Category: II, III</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	10	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-019	Smart Assistant	<ul style="list-style-type: none"> <li>• Built-In Assistant</li> <li>• Display: 7" WSVGA Touchscreen (1024 x 600)</li> <li>• With Microphones</li> <li>• Wi-Fi &amp; Bluetooth Wireless Connectivity</li> <li>• Built-in Full-Range Speaker</li> <li>• Control Compatible Smart Devices</li> <li>• Processor: 1.9 GHz ARM Quad-Core</li> <li>• WiFi Standards: Wi-Fi 5 (802.11ac)</li> <li>• WiFi Bands: at least 2.4 GHz</li> <li>• Power Consumption: 15 W</li> <li>• Material: Fabric, Plastic or both</li> <li>• Power Supply: at least 5VDC</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units
02-020	Water Level Sensor/Smart Float Switch	<ul style="list-style-type: none"> <li>• Support: WiFi and Gateway Supported</li> <li>• Power Supply: at least 5 V</li> <li>• WiFi Range: at least 2.4 GHz</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	30	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-021	Light Sensor	<ul style="list-style-type: none"> <li>• WiFi and Gateway Supported</li> <li>• Power Supply: at least 5 V</li> <li>• WiFi Range: at least 2.4 GHz</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	30	units
02-022	Relay Module	<ul style="list-style-type: none"> <li>• 8 channel</li> <li>• Voltage Rating: 5V</li> <li>• 3 terminals per SPDT relay</li> </ul>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	6 months	Yes	Yes	10	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
02-023	Addressable Fire Alarm Control Panel	refer to Technical Specification of Item Code 02-023	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	10	sets

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

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Name of Company/Bidder

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Signature over Printed Name of Authorized Representative

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## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>BMS Demo Kit</b>
<b>Item Code</b>	03-001
<b>Technology Area(s)</b>	Building Management and Automation System

### Devices Included in the Demo Kit:

- Multi-purpose Programmable Controller, 15 Points, 8UI, 6DO

MP-C is a multi-purpose, fully programmable, IP based field controller. The MP-C models offer a flexible mix of I/O point types that suit a wide range of HVAC applications. MP-C can either be used as a standalone BACnet/IP field controller or as part of an EcoStruxure BMS with a SmartX AS- P or AS- B server or an Enterprise Server as the parent server. The MP-C models support an optional display that provides insight and control of the inputs and outputs.

#### *The MP-C has the following features:*

- IP enabled with dual-port Ethernet switch
- Versatile onboard I/O point mix
- Highly available
- Sensor bus for living space sensors
- Mobile commissioning application
- Full EcoStruxure Building Operation software, providing efficient engineering tools

#### *IP connectivity and flexible network topologies:*

- IP addressing
- BACnet/IP communications
- DHCP for easy network configuration

#### *The IP controllers have a dual-port Ethernet switch, which enables flexible network topologies:*

- Star
- Daisy chain
- Rapid Spanning Tree Protocol (RSTP) ring
- Space Sensor Base Unit
  - Rated supply voltage: 24 V DC
  - Supply: Via bus connector
  - Max power consumption: 2 W in W
  - Range compatibility
    - EcoStruxure Building Operation
    - SmartX Room Purpose Controller
    - Programmable controllers
    - SmartX Living Space Sensor
    - Sensor cover plate
  - Communication port support: RJ45

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- Function available: With temperature sensor
- Accuracy +/- 0.2 °C typical
- Measurement range 0...50 °C temperature
- **Cover Plate for Sensor Base**
  - Rated supply voltage 24 V DC
  - Range compatibility
    - EcoStruxure Building Operation
    - SmartX Room Purpose Controller
    - Programmable controllers
  - Function available
    - Override switches
    - Blind Control
    - Light Control
  - Material: ABS
  - White
  - Surface finish mat
  - Control type tactile
  - Display type: color touchscreen
  - Display size: 2.4 inch
  - Display resolution: 320 x 240 pixels
- **Globe Valve Actuator**
  - Supply voltage: 24 Vac/Vdc ±20% 50/60 Hz
  - Power: 7.2 VA (3.5 W), 50 Hz
  - Running Time: 8 s/mm (Full stroke time = 88 sec)
  - Max. Stroke: 16.5 mm
  - Nominal Force: 350 N
  - Control (Floating/Digital) - Dependant upon wiring
    - 3 wire Floating: 24 VAC/VDC
    - 2 Position on/off; NO or NC
    - Minimum input pulse
  - Control (Modulating) Selectable input signals Impedance: 0-10 V DC, 2-10 VDC min. 100 kΩ
  - Environment Operating Temperature: -5 - +55 °C (for valve fluid temperatures up to 130 °C)
  - Storage: -40 - +70 °C
  - Enclosure rating: IP 53 (vertically mounted)
- **Multisensor Detector - Humidity and Temperature Sensor**
  - Device application
    - HVAC
    - Temperature Control
    - Fan speed controller
  - Rated supply voltage: 24 V AC 50-60 Hz
  - Range compatibility
    - EcoStruxure Building Operation
    - SmartX Room Purpose Controller
    - Programmable controllers
  - Communication network type: Wired
  - Function available

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- temperature sensor
    - humidity sensor
  - o Control type
    - + button
    - - button
    - Arrow button
  - o Display type: LCD display
  - o Information displayed
    - Temperature set point
    - Menu driven user interface
    - Relative humidity
  - o Accuracy
    - +/- 0.2 % typical
    - +/- 2% RH Humidity
  - o Number of outputs: 1 fan, 1 configurable
  - o Output voltage
    - 0-10 V for fan speed
    - 0-5V for configurable analog output
    - 0-10V for configurable analog output
  - o Standards UL 916: Standards UL 916 FCC Part 15 class B
- **Multisensor Detector - Air Quality Sensor**
    - o Device application
      - HVAC
      - Temperature Control
      - Fan speed controller
    - o Product specific application: Indoor air quality control
    - o Rated supply voltage: 24 V AC, 20-30 V DC
    - o Network frequency: 50-60 Hz
    - o Range compatibility
      - EcoStruxure Building Operation
      - SmartX Room Purpose Controller
      - Programmable controllers
    - o Communication port protocol: BACnet, Modbus
    - o Communication port support: RS485
    - o Function available
      - temperature sensor
      - CO2 sensor
      - VOC (volatile organic compounds) sensor
    - o Material: ABS (acrylonitrile butadiene-styrene)
    - o Control type: tactile
    - o Display type: Color touchscreen
    - o Display resolution: 240 x 300 pixels
    - o Information displayed
      - Temperature
      - Temperature set point
      - Menu-driven user interface
      - CO2
      - Air quality index
    - o Accuracy

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- +/- 0.2 % typical
- +/- 30 ppm for CO2 transmitter
- +/- 15% for VOC transmitter
- o Repeat accuracy: +/- 20 ppm
- o Measurement range
  - 0-50°C temperature
  - 0-200 ppm CO2
  - 0-100% AQI for VOC
- o Mounting location: Wall mounting
- **Room and zone controller**
  - o Sensor type
    - 10 kOhm T2 NTC thermistor
    - measurement range: +/- 0.5 %
    - Space RH sensor measurement range: +/- 5 %
    - Bulk polymer
  - o Calibration certificate: 1 pt
  - o 5 universal input
  - o With Economizer, Humidity control and PIR cover
  - o Low voltage fan coil
  - o Rated supply voltage: 24 V AC 50/60 Hz +/-15 %
  - o Network frequency: 50-60 Hz
  - o Rated current: 4 A
  - o Communication port protocol: BACnet MS/TP Modbus RTU
  - o Function available
    - Fan control
    - Humidity control
    - Scheduling
    - HVAC control
    - Available with CO2/RH/T
    - Brightness sensor (Changes can be made directly over display)
    - Code lock function
    - Easily configurable Firmware update by USB
    - Economiser
  - o Temperature setting range: 12...37.5 °C cooling 4.5...32 °C heating
  - o Measurement: -40...50 °C
  - o Measurement accuracy:
    - +/- 0.5 °C
    - Humidity: +/- 5 %, 20...80 % RH (non-condensing)
    - Humidity: +/- 10 %, 10...20 % (non-condensing)
    - Humidity: +/- 10 %, 80...90 % (non-condensing)
  - o Discrete input type: 2 dry contact
  - o Analogue input type: Analog input 0...10 V5 x
  - o Number of outputs: 5 relay output, 4 universal
  - o Output voltage: 24 V AC/DC 1 A for relay output 0...10 V AC/DC <= 5 mA for voltage output
- **Thermostat**
  - o Sensor type: 100 kOhm NTC thermistor, Optional NTC external sensor

- o Device application: Fan
- o Product specific application: 4-pipe system
- o Rated supply voltage: 90...240 V AC 50/60 Hz
- o Network frequency: 50-60 Hz
- o Max power consumption: Max power in W 1 W
- o Communication port protocol: Modbus
- o Function available
  - Setpoint adjustment
  - Fan control
  - Mode selection
  - Economiser
  - Disable functions
  - Alarm
  - Low temperature protection
  - Sleep mode
- o Color: Black
- o Housing: Black
- o Control type
  - Touch screen, for thermostat
  - Pulse width modulation, for actuator
  - 3 speed control relay, for fan
- o Display type: Backlit LCD screen
- o Information displayed
  - Ambient room temperature 0 to 50 °C
  - Time
  - Day
  - Temperature alarm
  - Communication status ok
  - Current program
- o Measurement accuracy temperature: +/- 1 °C
- o No. of inputs: 1 card reader
- o Output voltage: 240 V AC 5 A for relay, 240 V AC 2 A for load
- o USB Cable
  - Range Compatibility; AS-P controller
  - Cable length: 3 M
  - Shape of connector: Straight
  - Connector type: 1 way USB

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	CRS Demo Kit
<b>Item Code</b>	03-002
<b>Technology Area(s)</b>	Building Management and Automation System

### Introduction

- RP-C-CRS-DEMO is a demonstration kit for the Connected Room Solutions for Buildings.
- The demo kit is intended to be used for demos in trade shows, trainings, and in meetings with partners, system integrators, consultants, and end customers.
- The demo kit is a portable tool for demonstrating Connected Room Solution functions such as light and blind control, multi-sensor operation, and control using sensors.
- The demo kit is designed for 230 VAC (50/60 Hz) operation.

### Features

- The demo kit has been designed for demonstration of the following features:
  - Light and blind control
  - Multi-sensor operation
  - Control using sensors

### Devices Included in the Demo Kit:

- AS-P Server
- PS-24V power supply to AS-P
- RP-C Controller, 16A
- DALI light module
- Low-voltage blind module
- Multi-sensor
- Sensor base with temperature, humidity, and CO 2 sensors
- Sensor cover with touchscreen display with light and blind control buttons

### Other Equipment Included in the Demo Kit

*The demo kit also includes the following equipment:*

- IP67 rated case
- LED light and DALI LED driver for lighting demo
- LED light strip for blind position simulation
- 24 VDC power supply
- RJ45 and USB connectors
- On/Off switches
- Residual current breaker with overcurrent protection
- IEC power cord, USB cables, and patch cables are not included in the demo kit

**Specifications:**

AC input

- Nominal voltage: 230 VAC
- Frequency: 50/60 Hz
- Mechanical
- Software compatibility: EcoStruxure Building Operation software version 3.2 and latest

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>Security Demo Kit</b>
<b>Item Code</b>	03-003
<b>Technology Area(s)</b>	Building Management and Automation System

### Devices Included in the Demo Kit:

- **System Controller**

- Device application: Control, Lighting, Air Conditioning
- Rated Voltage: 11-14V DC
- Rated Operational Current; 120mA
- Maximum Operational Voltage: 9 VDC
- Discrete input type: 8 high security monitored input, 2 reader input for standard input (Wiegand), 4 reader input for duplex mode input (Wiegand), 4 reader input for RS485 link
- Output type: 2 form C relay output, <=250 V, 4 open collector NPN output, <= 50 mA for multifunction, auxiliary output, 10.45...13.85 V DC, alarm output, 10.4...13.4 V DC
- Output Current: 0.7 A for auxiliary output, 1.1 A for alarm output (continuous), 1500 mA for alarm output (inrush)<= 7 A for form C relay output, = 50 mA for open collector NPN output
- Load type: Inductive load for relay output, Resistive load for relay output
- Electronic Shutdown: 1.1 A, auxiliary output, 1.6 A, alarm output
- Number of Alarms: 100 alarm areas
- Number of port: 2 RS485/Wiegand for reader
- Integrated connection type: RS485 – 1, Modem - 1, transmission rate: 2400 bauds, Ethernet - 1
- Communication port protocol: UDP/IP Ethernet 10/100 Mbit/s, TCP/IP Ethernet 10/100 Mbit/s, HTTP Ethernet 10/100 Mbit/s, ContactID, IA Level 2, ArmorIP
- Encryption protocol: AES (Advanced Encryption Standard) conforming to NIST
- Mounting Support: DIN rail

- **Power supply module**

- Range Compatibility: controller, input module, I/O expansion module, output module, door expansion module
- Backup type: battery
- Battery Type: 2 gel 7 Ah
- Battery voltage 10.5V – Low level, 11.5 V reset
- Input voltage limit: 90-264 VAC (full load)

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- Input current: 1500 mA at 120V AC (full load)
- Output type: 2 form B relay output, 0 - 12 V, <= 50 mA
- Output Voltage: V1Out + V2Out: 12.64 V DC, <= 4 A Vout: 12.2 V DC, <= 3 A
  
- Function available
  - Intelligent charging algorithm monitors battery and AC supply
  - Processor controlled battery level testing and indication
- Communication interface: RS485
- Mounting Support: DIN rail
- Standards: EN 50131-1:2006, EN 50131-3:2009, EN 50131-6:2008, CSN EN 60950-1:ed. 2, 2006, UL 294, UL 1610, CAN/ULC-S304-06, CAN/ULC-S559-04, FCC CFR 47 part 15: class A, CAN/ULC-S319-05
  
- **Access control card reader, 13.56MHz**
  - Rated operational voltage: 9.5 – 14 VDC
  - Rated operational current: 130mA
  - Device mounting: Wall Mounted
  - Maximum Cable distance between devices: 150M
  - Access Control System: RFID authentication card MIFARE conforming to ISO/IEC 14443 A 13.56 MHz (up to 60 mm), RFID authentication card DESFire EV1 conforming to ISO/IEC 14443 A 13.56 MHz (up to 15 mm), RFID authentication card PWM 125 kHz (up to 40 mm), Tag MIFARE conforming to ISO/IEC 14443 A 13.56 MHz (up to 35 mm), Tag DESFire EV1 conforming to ISO/IEC 14443 A 13.56 MHz (up to 6 mm), Tag PWM 125 kHz (up to 25 mm)
  - Communication Interface: Wiegand 26 bits Wiegand 34 bits, RS485
  - Standards: FCC CFR 47 part 15:class A, ICES-003, UL 294, EN 50131-1:2006, EN 50131-3:2009, EN 50131-6:2008, CAN/ULC-S319-05
  
- **Keypad**
  - Device application: Control
  - Control Button type: 12 numeric touch button capacitive, 7 operation touch button capacitive, for navigation touch button capacitive
  - Display type: Backlit LCD: 2 lines of 16 characters
  - Rated operational voltage: 11 – 14 VDC
  - Rated operational current: 60mA in operation, 95 mA maximum.
  - Discreet input type: 4 configurable for signaling, 1 open collector (50 mA)
  - Device Composition: Set of resistors, Keypad

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- **Access Cards**

- Design: ISO badge
- Surface Treatment: Laminate
- Access Control System: RFID authentication card DESFire EV1 conforming to ISO/IEC 14443 A 13.56 MHz (up to 10 cm)
- Memory type: 2 kB EEPROM
- Transmission rate: at least 8484 kbauds
- Number of Write cycles: at least 100,000

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of the Equipment</b>	Addressable Fire Alarm Control Panel
<b>Item Code</b>	02-023
<b>Technology Area(s)</b>	Building Management System/Building Automation System

### System Features:

- 7" Touchscreen LCD Color Display which gives necessary and additional information as described in EN:54-2
- Delay function for zones for Notification Appliance Circuits (NACs)
- 2 wire cable for all addressable devices
- Zone test and individual device testing
- Zone Disable and individual device isolation.
- Delay, override, and abort functionality
- User friendly: easily configurable windows using Panel itself.
- 250 intelligent detectors or modules for one loop circuit
- Up to 8 Loop cards can be installed and configured.
- Interconnection of panels and other equipment
- 2000\* events can be stored in the history
- Mini- Printer to print the status of events.
- Network with Central Control Panel
- Access Level entry to control and configure panel.
- Integral power supply with charger
- Circuits can be configured as Class A or Class B
- Fire Alarm, Fault (Trouble) and Supervisory relays
- Earth Fault detection
- CAN BUS Network System
- Network Available Options: GSM/IP/Cloud/ Mobile APPs

### Power Rating:

- Mains power supply: AC 220V±20%/50Hz or DC24V;
- Backup power supply: DC24V maintenance-free battery BAT12V/5AH

### OTHER COMPONENTS:

#### Addressable Sounder Strobe

- Working Voltage: 19-28VDC
- Standby Current: ≤ 3mA
- Alarm Current: ≤ 60mA
- Alarm SPL: ≥100dB
- Flash Period: 1.0S
- Working Temperature: -10°C-50°C

**Addressable Alarm Bell**

- Working Voltage: 19-28VDC
- Standby Current:  $\leq 3\text{mA}$
- Alarm Current:  $\leq 50\text{mA}$

**Addressable Manual Call Point**

- Working Voltage: 18~28VDC
- Work Current:  $\leq 4\text{mA}$
- Protection Level: IP30

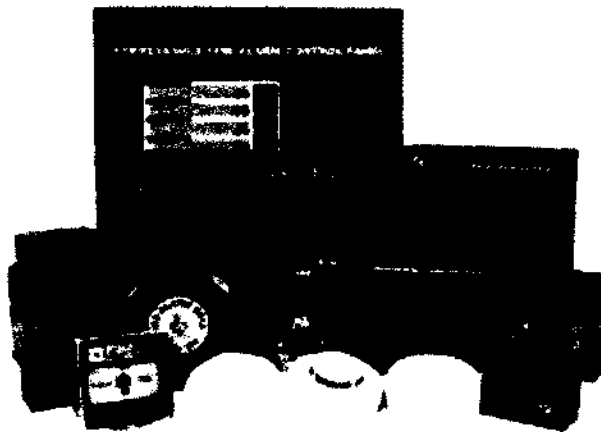
**Addressable Smoke Detector**

- Working Voltage: 18~28VDC
- Standby Current:  $\leq 2.5\text{mA}$
- Alarm Current:  $\leq 3\text{mA}$
- Smoke Sensitivity: 0.1~0.15dB/m
- Work Temperature:  $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$

**Addressable Heat Detector**

- Working Voltage: 18~28VDC
- Standby Current:  $\leq 2.5\text{mA}$
- Alarm Current:  $\leq 3\text{mA}$
- Rate-of-Rise Alarm: 7.  $1^{\circ}\text{C}/5\text{S}$  A2R

**Sample Image:**



*Photo for reference purposes only*

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date
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# Technical Specifications

Lot 3

: Automotive E-Learning Package

APPROVED BUDGET  
FOR THE CONTRACT

: Three Million Eight Hundred Thirty-Five Thousand Six Hundred  
Twenty-Nine Pesos (P3,835,629.00)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand /Model	Reference
09-007	Automotive E-Learning Package	Kindly refer to the technical specifications attached as Annex B3.	900	licenses			

\* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

**I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.**

\_\_\_\_\_  
Name of Company/Bidder

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Signature over Printed Name of  
Authorized Representative

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Date

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
09-007	Automotive E-Learning Package	<p>Per user account for 3-years</p> <p>Interactive Automotive Learning Essentials with Engine Management Simulator</p> <p>The Interactive Online Distance Learning for Automotive must include the following:</p> <ol style="list-style-type: none"> <li>1. Automotive Essentials</li> <li>2. Electric Drive</li> <li>3. Engine Management Simulator</li> <li>4. Learning Management System</li> <li>5. Customized Modules</li> </ol> <p><b>Automotive Essentials</b> The Automotive Essentials must include the following: A. At least 1000 lessons &amp; Quizzes. Must include the following lessons:</p> <ol style="list-style-type: none"> <li>1. Automotive Tools</li> <li>2. Automotive Maintenance</li> <li>3. Physics</li> <li>4. Sustainability</li> <li>5. Safety and Environment</li> <li>6. Engines</li> <li>7. Transmission and Clutch</li> <li>8. Cooling Systems</li> <li>9. Lubrication</li> </ol>	E-Learning	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of software vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Check package completeness</li> </ul>	1 Year	Yes	Yes	900	licenses

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>10. Gasoline System  11. Diesel Systems  12. Wheels and Tires  13. Brakes  14. Wheel Suspension  15. Climate Control  16. Safety Systems  17. Lightning  18. Basic Electrical Engineering  19. Starting and Charging Systems  20. Electronics  21. Networks  B. Must show the duration of EACH module  C. EACH module must show its learning objectives  D. EACH lesson module must be interactive and have questions or activities  E. Mobile device access  F. Must include text-to-speech</p> <p><b>Electric Drive</b>  The Electric Drive must include the following:  A. At least 100 lessons &amp; Quizzes.  Must include the following lessons:  1. Introduction to Electric Drive  2. Working on Hybrid Vehicles  3. Categories of Electric Drive</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>4. Components  5. Electric Motors  6. Hybrid Systems  7. HV Charging System  8. Safety Systems  9. Battery Management System  B. Must show the duration of EACH module  C. EACH module must show its learning objectives  D. EACH lesson module must be interactive and have questions or activities  E. Mobile device access  F. Must include text-to-speech</p> <p><b>Engine Management Simulator</b>  The Engine Management Simulator must include the following:  A. Must include at least 50 customizable faults  B. The simulator can include the following tools during fault finding:  1. Oscilloscope  2. Multimeter  3. Diagnostic System  4. Breakout Box  5. Fuel pressure gauge  6. Jump Starter  7. Replace parts  8. Replace wires</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>9. Invoice            B. The instructor can input a work order            C. Can do automatic or manual evaluation            D. Mobile device access</p> <p><b>Learning Management System</b>            The Learning Management System must include the following:            A. Can be accessed on standard compliant browsers, chrome, edge, firefox, safari, opera. No browser plugins are needed.            B. Minimum display resolution is 800 x 600 on computers, and 360 x 640 on mobile phones.            C. Learning Tool Interoperability compatible            D. Can import SCORM Packages            E. Can assign student groups            F. Can monitor students progress using a progress bar            G. Shows student's statistics and progress            H. Student statistics includes status, progress, score, sessions, time spent, first access and latest modification.</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>I. Can view response of students on their modules            J. Data can be downloaded into a spreadsheet file.            K. Mobile device access            L. Browser-based drag &amp; drop</p> <p><b>Customized Modules</b>            The Customized Modules must include the following:            A. Ability to create customized modules:            1. Lesson            2. Test            3. Task            4. Simulation            5. File            6. Video            7. Link            B. HTML5            C. SCORM-compliant            D. Text-to-speech option            E. Can upload image files            F. Can embed websites            G. Can have at least 4 different question types (Multiple Choice, Multiple Response, Numerical Open Question, Text Open Question)</p> <p><b>General Requirements</b>            I. System Requirements            Must be compatible to at least five (5) different latest</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>standards-compliant browser.</p> <p>II. Own Website Must include own site with the LMS software.</p> <p>III. Administrator Account The Administrator Account can do the following:</p> <p>A. Can create atleast 100 teacher accounts</p> <p>B. Manage the teacher accounts</p> <p>C. Batch import and export student accounts</p> <p>D. Export all results</p> <p>E. Edit the global settings</p> <p>F. Change the graphic design of the site</p> <p>IV. Teacher Account The Teacher Account can do the following:</p> <p>A. Manage the student accounts</p> <p>B. Browse content modules</p> <p>C. Add content modules</p> <p>D. Arrange the modules in courses</p> <p>E. Assign content to group or individual students</p> <p>F. Monitor student performance</p> <p>G. Comment on the content</p> <p>H. Export results of students</p> <p>V. Student Account The Student Account can do the following:</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>A. Start modules that are assigned to them</p> <p>B. Continue modules where they left off</p> <p>C. Browse through modules they have finished</p> <p>D. Comment on exercises</p> <p>VI. Interoperability</p> <p>The Interoperability of the system can do the following:</p> <p>A. Import of student accounts</p> <p>B. Export of student accounts</p> <p>C. Import SCORM Packages</p> <p>D. Export of results</p> <p>Additional Requirements:</p> <p>Includes Account Manuals in English</p> <p>Must attached demo/trial account information to be used by the technical working group on the bidding documents for evaluation.</p>								

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

\_\_\_\_\_  
Name of Company/Bidder

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Signature over Printed Name of Authorized Representative

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Date

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# Technical Specifications

Lot 4 : Welding Equipment and Supplies

APPROVED BUDGET FOR THE CONTRACT : Ninety-Four Thousand Six Hundred Six Thousand Fifty-Seven Pesos and 85/100 (P94,606,057.85)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
11-001	Air Compressor	Kindly refer to the technical specifications attached as Annex B4.	3	units			
11-002	Pedestal/ bench grinding machine		3	units			
11-003	Pipe Bending Machine		2	units			
11-004	Power Hacksaw Machine		1	unit			
11-005	Pneumatic Bevelling Machine		2	units			
11-006	Cut-off Machine, 12"		4	units			
11-014	Drill Press		2	units			
11-018	Angle grinder 4"		20	units			
11-019	Angle grinder 7"		15	units			
11-022	Cut-off Machine, 14"		4	units			
11-043	Impact Hand Drill		28	units			
11-044	Cordless Hand Drill		7	units			
11-045	Straight Pencil Grinder		20	units			
11-046	Cordless Pencil Grinder		5	units			
11-048	Digital Portable Bending Machine		2	units			
11-049	Exhaust Fan		5	units			
11-051	Mechanical Bending Machine		1	unit			
11-052	Sheet Metal Bending Machine		1	unit			
11-053	Inverter Arc Welding Machine		8	units			
11-054	GMAW/ FCAW Welding Machine		10	units			
11-056	Welding and Cutting Outfit	6	units				
11-057	GTAW (TIG) Welding Machine	7	units				
11-058	Advanced Multi-Process Welder	5	units				
11-059	Stationary Electrode Oven	5	units				

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Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
11-060	Portable Rod Oven	Kindly refer to the technical specifications attached as Annex B4.	7	units			
11-061	CNC Plasma Cutting Machine		1	unit			
11-062	CNC Water Jet Cutting Machine		1	unit			
11-063	Industrial Vacuum Cleaner		2	units			
11-064	Fume Extraction System		15	units			
11-069	Magnetic Drill Press		10	units			
11-071	Oxy-Acetylene Welding Set		4	units			
11-074	Advanced Submerged Arc Welding Machine		2	units			
11-076	Plasma Cutter		2	units			
11-008	Welding Respirator		26	pcs			
11-009	Welding Coverall		26	pcs			
11-010	Welding Hood		26	pcs			
11-050	Welding Curtain		25	pcs			
11-066	Auto Darkening Welding Mask		26	pcs			
11-012	Welding Nozzle Tip Cleaning Kit		10	sets			
11-013	Anti Spattering Agent		7	pcs			
11-016	Wrap-Around Pipe Template		25	sets			
11-017	Welding Inspection Gauge Tool Kits		4	sets			
11-020	Cutting disc		501	pcs			
11-021	Grinding disc		501	pcs			
11-023	Circular Saw Blade, 12"		51	pcs			
11-024	Polishing Wire Brush Wheel		50	sets			
11-025	Electrodes E6011		25	boxes			
11-026	Electrodes E7018		40	boxes			
11-027	Electrodes E308/309		100	boxes			
11-029	Electrodes E6013 (3.2mm)		40	boxes			
11-028	Electrodes E6013 (2.5mm)		100	boxes			
11-030	Filler wire (FCAW)		40	spools			
11-031	Filler wire MIG, 0.8 mm		40	spools			
11-032	Filler wire (TIG)		40	packs			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
11-033	Tungsten electrode	Kindly refer to the technical specifications attached as Annex B4.	50	packs			
11-035	Mild Steel plate		30	pcs			
11-036	Steel pipe, 150mm		40	pcs			
11-037	Steel pipe, 50mm		40	pcs			
11-038	Steel pipe, Sch 80		50	pcs			
11-047	Industrial Extension cord (Electrical)		15	pcs			
11-067	Circular Saw Blade, 14"		51	pcs			
11-068	Filler wire MIG, 1.2 mm		50	spools			
11-073	Shielding gas cylinder tank		12	pcs			

\* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

**I hereby commit to comply and deliver all the above requirements in accordance with the above schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-001	Air Compressor	3HP belt driven motor: max 115 psi/ 18 liters/ 2 piston Input Voltage: 220V, 60Hz with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	3	units
11-002	Pedestal/ bench grinding machine	220 - 240 V Continuous rating input: 550W Wheel Diameter: 205 mm (8") Wheel width: 19 mm (3/4") Hole Diameter: 15.88 mm (5/8") H.P.: 3/4 No Load Speed (RPM): 2,850 (50 Hz) / 3,450 (60 Hz) Sound Pressure Level: 77 dB(A) Noise K Factor: 3 dB(A) with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	3	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-003	Pipe Bending Machine	Hydraulic Capacity (23 tons) Dies 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" Max Stroke 370mm Bending Range 21.3-3-108mm Wall Thickness of Pipe 2.75-6mm 1.1kW 240V motor drive single phase motor operating a hydraulic pump Switch-gear & overload protection are incorporated in the motor with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units
11-004	Power Hacksaw Machine	Automatic 5Hp 150mm No of rpm AC Source: 220-240 power voltage Hacksaw Blade: 450x35x2mm with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	1	unit

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-005	Pneumatic Beveling Machine	Power: 850 W Air pressure: 6 bar Air consumption: 0.96 m <sup>3</sup> /min Air hose connection: 1/4" Features: speed control Clamping range ID-ID: 40 - 152 mm Working range ID-OD: 40 - 168.3 mm Max. wall-thickness: 25 mm Feed: 15 mm Weight with pneumatic motor: 10.3 kg Weld prep: facing, V-prep, J-prep, counter boring Materials: steel, stainless steel, duplex, high alloyed Tooling: tool bits, TiN inserts, custom bits	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units
11-006	Cut-off Machine, 12"	Disc Diameter: 12" Continuous rating input : 1,750 W Maximum cutting capacity at 0° : 115 mm (4-1/2") Maximum cutting capacity at 45° : 90 mm (3-1/2") No load speed : 1,300 rpm Power supply cord : 2.5 meters with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	4	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-014	Drill Press	Drilling Cap: max 32mm (1-1/4") Motor Power: 2HP, 1500W, 220-240 V, 60Hz Spindle Travel: 120mm Class of Speed: 12 Spindle Taper: MT#4 Swing: 450mm Table Size: 360x360mm Base Size: 470x360mm Column Diameter: Ø92mm	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	2	units
11-018	Angle Grinder 4"	Portable 4" capacity Input voltage: 220-240V, 50-60 hz	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-019	Angle grinder 7"	Portable 7" capacity Input voltage: 220-240V, 50-60 hz	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	15	units
11-022	Cut-off Machine, 14"	Disc Diameter: 14" No load Speed: 3,800 RPM Power: 2000W Voltage: 220-240V, 60Hz	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	4	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-043	Impact Hand Drill	Corded Electric 650W, 220-240V, 2800 rpm Chuck size: 13mm	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	28	units
11-044	Cordless Hand Drill	Voltage: 18V Soft max torque: 27 Hard max torque: 42 No. of gears: 2 No load speed (RPM) High: 0-1300 No load speed (RPM) Low: 0-400 Chuck Type: 3-jaw/ Single Sleeve Keyless Chuck Capacity: 13 mm Screw Capacity: Machine Screw (mm): 6 Screw Capacity: Wood Screw (mm): 6x75 Drill Capacity: Metal (mm) 13 Drill Capacity: Concrete (mm) 13 Drill Capacity: Wood (mm) 36 1 fast charger 2 18V lithium-ion battery 1 carrying case	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	7	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-045	Straight Pencil Grinder	Continuous rating input: 750W Max. wheel size: 125mm x 19mm (5" x 3/4") Hole diameter: 12.7mm (1/2") No Load Speed (RPM): 4,800 Power supply cord: 2.5m (8.2ft) Voltage : 220-240 V, 50-60 Hz	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	20	units
11-046	Cordless Pencil Grinder	Disc Size: 38mm Collet: 3 - 8 mm Voltage rating: 18V Grinder type: die grind No Load Speed: 25,000 rpm Battery: 2 pcs 18V lithium-ion with Fast Charger	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	Yes	Yes	5	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-048	Digital Portable Bending Machine	LCD display 220-240V / 50-60Hz 1700 W No Load Min-1: 3.5 rpm bends up to 190 degrees Max Capacity: 1-3/8" Accessories: - Bending Former: 5/8", 3/4", 7/8", 1" - Bending Shoe: 5/8", 3/4", 7/8", 1"	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units
11-049	Exhaust Fan	Industrial Tube Axial Exhaust Fan 400mm, 5 blades Rotation speed: 1360 RPM 190 W, 220/230 VAC, 50 Hz, single phase Consumption: 0.90 A Air flow: 3830 m3/h	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	5	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-051	Mechanical Bending Machine	<p>Max. Capacity: 1000KN  Clamping: Hydraulic  Loadway: Electronic  Display: Digital  Test Standard: ISO 7438, ISO 5173, GOST 6996, ASTM A370  Maximum Horizontal Force: 300  Maximum specimen thickness: 20mm  Control: Computer control  Power source: AC 220-240V, 50 - 60Hz  Accuracy level: 1  Force Loading Speed: 200n/S ~29kn/S with English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	1	unit
11-052	Sheet Metal Bending Machine	<ul style="list-style-type: none"> <li>- 8ft spring type bending machine</li> <li>- Can bend up to 3.0mm B.I. &amp; G.I. and 2.0mm Stainless Steel, and 4140 tool steel double</li> <li>- 5/8" upper blade</li> <li>- 1/2" lower blade</li> <li>- Combination of 7/8, 3/4 ", 5/8" MS Plate</li> <li>- 220V, 60Hz</li> <li>- with English manual</li> </ul>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	1	unit

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-053	Inverter Arc Welding Machine	<p>Inverter            Process: Stick, Tig, Gouging            Input Power: 208/230/460/575/3/60            Rated Output: 275A/31V/35% Duty Cycle            Input Current @ Rated Output: 38/37/19/16A            Output Range: 5-275 Amps</p> <p><b>Includes:</b>            Input Power Cable, 10 ft. (3.0 m)            Plugs (2 pcs.) for connecting welding cable to output terminal receptacles, for 1/0-2/0 (50-70 mm<sup>2</sup>) cable, up to 350 Amp capacity            Accessory Kit with 35 ft. (10.7 m) 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, headshield, filter plate, cover plate, work clamp and electrode holder, 400-amp capacity            17V Air-Cooled TIG Starter Kit with torch, parts kit, flowmeter/ regulator, 10 ft. (3.0 m) gas hose, work clamp and cable, and carrying case            Foot Amptrol with 25 ft. (7.6 m) cable assembly</p> <p>Warranty: 3 years with English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	8	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-054	GMAW/ FCAW Welding Machine	<p>Processes: MIG, TIG, Stick, Gouging, FCAW, SAW  Voltage Input: 380 – 575 VAC, 50/60Hz  Input Power: 200-208/220-230/380-415/460/575 3-Phase 50/60 Hz  Rated Output Current/Voltage/Duty Cycle: 350A/34V/60% and 300A/32V/100%  Input Current @Rated Output: 45/40/23/19/15 and 37/33/19/16/13  Output Range: 5-425A Max OCV 80V DC</p> <p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>- Dual Cylinder Inverter &amp; Wire Feeder Cart</li> <li>- 4 Roll Drive Roll Kit .040-.045 in (1.0-1.1 mm) Solid Wire</li> <li>- 4 Roll Drive Roll Kit .045 (1.1 mm) Cored Wire</li> <li>- 300 Amp Semi Automatic Air-Cooled Gun set for MIG or flux-cored</li> <li>- Contact Tip, 0.625 in. (15.9 mm)</li> <li>Thread-On Gas Nozzle with 1/8 in. (3.2 mm) recess, Thread-On Diffuser, Gun Connector, Gun Liner</li> <li>- Flowmeter/ regulator, 10 ft. (3.0 m) gas hose</li> <li>- Weld cable package with connectors, work clamps, 10 ft. (3.0 m) work cable and 10 ft. (3.0 m) electrode cable, rated 350 amps, 60% duty cycle</li> <li>- Receptacle (female, 3/0 Thru 4/0)</li> <li>- Accessory Kit with 35 ft. (10.7 m) 2/0 electrode cable with lug, 30 ft. (9.1 m)</li> </ul>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	10	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>2/0 work cable with lugs, headshield, filter plate, cover plate, work clamp and electrode holder, 400-amp capacity</p> <ul style="list-style-type: none"> <li>- 12-Pin to 6-Pin Adapter</li> <li>- Remote Output Control with 12-Pin Universal Connector (25 ft, 7.6 m)</li> <li>- Remote Control Adapter</li> <li>- Remote current control for TIG welding, 25 ft (7.6m) (12-pin)</li> <li>- Arc Start Switch</li> <li>- TIG Adapter Kit 17V</li> <li>- 17V Air-Cooled TIG Starter Kit with torch, parts kit, flowmeter/ regulator, 10 ft. (3.0 m) gas hose, work clamp and cable, and carrying case</li> <li>- Multiprocessor Wire Feeder: <ul style="list-style-type: none"> <li>- Input Power: 15-110VDC</li> <li>- Output Capacity Current/Duty Cycle: 450A/60%</li> <li>- Wire Feed Speed Range ipm (m/min): 50-700 (1.3-17.7)</li> <li>- Includes: Internal Contactor, Gas Solenoid; Flowmeter, Arc Sensing Lead &amp; Clip, 15 ft. (4.5 m), 2 Gun Bushings</li> </ul> </li> </ul> <p>Warranty: 3 years with English Manual</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-056	Welding and Cutting Outfit	<p>Heavy duty gas welding and cutting kit  Welds up to 9mm cuts to a thickness of 150mm  Set includes:  2-stage regulators; Acetylene/ Oxygen Pressure Regulator: 9296-15-510/9296-125-540  Welding Torch with Check Valves Mixer  3 welding tips/ welding nozzle # 1, 2 and 5  OAW spark igniter - Reverse-flow (flashback arrestor) check valves 90° head  Cutting Attachment: 73-3 - Torch Handle: 43-2  20ft, 1/4 in Twin Hose Completed with Fittings  Wrench  Bag/ casing  English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	6	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-057	GTAW (TIG) Welding Machine	<p>Processes: AC/DC TIG, Stick  Max Rating: 200 Input Power:  Voltage/Phase/Hertz: 230/1/50/60  Rated Output: Current/Duty Cycle:  TIG:  200A/25%; Stick: 170A/20%  Input Current @ Rated Output: 22A;  25A  Output Range: TIG: 10-200A; Stick: 10-170A</p> <p><b>Includes:</b>  TIG Torch - 150 amp air-cooled torch package with flexible head and 12.5 ft. cable assembly with adapter  #7 nozzles, 1/16 in. (1.6 mm) and 3/32 in. (2.4 mm) collets, collet bodies and Tungsten  Foot Control with 25 ft. (7.6 m) cable assembly  Gas Regulator/ Flowmeter and 10 ft. (3 m) Gas Hose Kit  200A Stick Electrode Holder with cable and adapter  Ground Clamp and Cable with adapter</p> <p>Warranty: 3 years  with English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	7	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-058	Advanced Multi-Process Welder	<p>Processes: Stick, DC TIG, Pulsed DC TIG, MIG, Pulsed MIG, Flux-Cored</p> <p>Input Voltage: 200/208/220/230/380/400/415/460/575/3/50/60</p> <p>Input Current @ Rated Output: 3 Ph./40% Duty Cycle: 80/73/41/37/29A; 3 Ph./100% Duty Cycle: 60/54/30/27/21A</p> <p>Output Range: 5-550 Amps</p> <p>Rated Output: GMAW: 550A/41.5V/40%; GMAW: 450A/36.5V/100%</p> <p>Weight/Dimensions (H x W x D): 150 lbs. (68 Kg) / 22.5 x 14 x 24.8 in</p> <p>Warranty: 5 Years</p> <p><b>Accessories:</b> Dual Cylinder Inverter &amp; Wire Feeder Cart Inverter Cart Mounting Kit 115V Auxiliary Power Kit Drive Roll Kit .040 in (1.0 mm) Solid Wire 10 ft. (3.0 m) input power cord TIG Torch to Stud Adapter Cable, 2 ft. (3.7 m) Gas Hose Stick Electrode Holder and Cable with connector, 12.5 ft. cable length Parts Kit for 20H-320 and PTW-20 TIG Torches including collets, collet bodies, a back cap, alumina nozzles and tungsten's in a variety of sizes, in carry enclosable box TIG Torch with a 320A 100% Duty</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	5	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p>Cycle  Arc Start Switch  12-Pin to 6-Pin Adapter  Foot Amptrol with 25 ft. (7.6 m) cable assembly  TIG Adapter Kit Adapter Assembly  200 Amp Semi Automatic Air-Cooled Gun set for MIG or flux-cored Contact Tip, 0.625 in. (15.9 mm) Thread-On Gas Nozzle with 1/8 in. (3.2 mm) recess, Thread-On Diffuser, Gun Connector, Gun Liner  300 Amp Semi Automatic Air-Cooled Gun set for MIG or flux-cored Contact Tip, 0.625 in. (15.9 mm) Thread-On Gas Nozzle with 1/8 in. (3.2 mm) recess, Thread-On Diffuser, Gun Connector, Gun Liner  Drive Roll Kit .035 in (0.9 mm) Solid Wire  Drive Roll Kit .040-.045 in (1.0-1.1 mm) Cored Wire  Weld cable package with connectors, work clamps, 10 ft. (3.0 m) work cable and 10 ft. (3.0 m) electrode cable, rated 350 amps, 60% duty cycle  Flowmeter/ regulator, 10 ft. (3.0 m) gas hose  One Gallon of Low Conductivity Coolant  Advanced Dual Bench Wire Feeder  Solid Wire Size Range: .025 - 1/16 in  Cored Wire Size Range: .035 - .120 in  Wire Speed Range: 50-700 ipm</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p><b>Inclusion:</b>  User interface  Standard #2 - #4-gun adapter  20 tooth pinion gear  Heavy duty wire reel stand  8 ft. (2.4 m) control cable  USB  Advanced Module 40V DC:  At least 11 Waveforms with over 600 Weld Modes  Input Power: 40 V DC  Rated Output Capacity  Current/Voltage/Duty Cycle: 100%  Duty Cycle: 300A@32V; 40% Duty Cycle: 350A@34V; Peak (Max.): 600A</p> <p>Power Source Output Pigtail Adapter Cable, 25 ft. (7.6 m)  Remote Voltage Sense Lead  Output Receptacle  Differential Input and Output  Shielding Gas Input  Water Cooler:  Coolers Type: Under Power Source  Cooling Capacity (BTU): 4540 BTU/hr. (1.33 kW) @ 1 L/min  Tank Capacity (gal): 2.375 Gallons  Input Power: 115/1/60</p> <p>Warranty: 3 Years  with English manual</p>								

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-059	Stationary Electrode Oven	Stationary Rod Oven Input voltage: 115-120/ 220-240 Capacity: 350-400 lbs. stick up to 18 inches electrode Chamber Diameter / Depth: 18 x 19 inches, aluminum steel 2-3 layers, 6 partition Insulation: 2 inches Fiberglass Temperature Range: 100-550° F (38-288° C) Minimum ambient operating temperature: 32° F Chamber temperature: max 250° F Heating Element: Two elements - 1000 watts total with Oven Thermometer Kit  with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	5	units
11-060	Portable Rod Oven	Input voltage: 220-240 Capacity: 4.5 kg up to 457 mm electrode Chamber Size: Dia / Depth - 7.3 x 50 cm Insulation: 3.8 cm Fiberglass Temperature Range: Preset at 149°C Minimum ambient operating temperature: 0°C to maintain a rod oven chamber temperature of 120°C Heating Element: 75 Watt Wire Wrapped  with English Manual	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	7	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-061	CNC Plasma Cutting Machine	<p>Working area: 4ft x 8ft  Input Power Voltage/Phase /Hertz:  380-400-415/460/575V/ 3Ph/50/60Hz  Rated Output: Current/V/Duty Cycle:  125A/175V/100%  Input Current @ Rated Output:  3PH/100% 40/40//40/33/28  Output Range:3PH 20-125A  Air Pressure Required: 90-120 PSI  (6.21 -8.27 Bar)  Air Flow Rate: 550 SCFH @90 PSI  (260 SLPM @6.21 Bar)  Max. Production Cut Capacity (pierce start) in Mild Steel at 32 ipm: 1 in  Maximum Cut Capacity (edge start) in Mild Steel at 14 ipm: 1.5 in</p> <p><i>Include:</i></p> <p><b>1. Transformer</b>  - 75 KVA Dry Type Transformer  - Copper  - 3 Ø  - 60 Hz  - Primary Voltage: 460/440/420 Volts  - Secondary Voltage: 230 Volts  - Wye-Delta Connection  - Class H Insulation  - High Grade Silicon Core  - Temperature Rise: 150oC in NEMA 1 Enclosure</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	1	unit

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
		<p><b>2. Air Compressor</b></p> <ul style="list-style-type: none"> <li>- 3HP</li> <li>- Air Delivery: 9.88 cfm @ 80psi</li> <li>- Tank Capacity: 110 liters</li> <li>- Peak Current: 25A</li> <li>- Working Pressure: 85-115psi</li> <li>- Input Voltage: 220V/ 1ph/ 60Hz</li> <li>- Speed: 1,725 RPM</li> </ul> <p>with English Manual</p>								
11-062	CNC Water Jet Cutting Machine	<p>Stainless/Metal/Granite cutting Voltage: 220-480V/50/60HZ/3PH Power: 37KW/40-50HP Max Cutting: 1500mm Min Cutting: 0-200mm</p> <ul style="list-style-type: none"> <li>- with 75 KVA Dry Type Transformer Copper 3 Ø 60 Hz Primary Voltage: 460/440/420 Volts Secondary Voltage: 230 Volts Wye-Delta Connection Class H Insulation High Grade Silicon Core Temperature Rise: 150oC in NEMA 1 Enclosure Output Range: 10-815A</li> </ul> <p>with English Manual</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	1	unit

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-063	Industrial Vacuum Cleaner	Rated power (W): 1200 Voltage Supply (V): 220-240 Frequency (Hz): 50/60 Airflow (l/sec): 38 Vacuum max. (kpa): 27 Sound pressure level (dB(A)): 66 Container capacity (L): 12.25 Dust bag capacity (L): 6.25 Application: Wet and Dry	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units
11-064	Fume Extraction System	Wall Mount w/ Filter Dual Arm Welding Fume Extractor Base Unit Filter capacity: 538 ft <sup>2</sup> (50 m <sup>2</sup> ) Filter Type: Cellulose  Inclusions: Filter, filter housing; Hoses – 8 in./203mm diameter (2), hose clamps (4), rubber seals (2), Non-return valves (2), 6-8 in. (152 - 203 mm) reducers (2), 6 in. (152 mm) adapters (2), Mounting bracket  Features: Generous Airflow: 735 CFM with Prism Flexible 10 ft. or 13 ft. Extraction Arms and Prism 2400 Fan	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	15	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-069	Magnetic Drill Press	2", 2-speed Power input : 1,200 W, 220-240 V, 50-60 Hz No load speed : 300-450 rpm Cutter holder : 19mm Weldon Shank (3/4) Drill travel: 4-3/8"	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - Installation, Commissioning and Training	1 Year	Yes	Yes	10	units
11-071	Oxy-Acetylene Welding Set	<ul style="list-style-type: none"> <li>• Handle mixer cutting attachment</li> <li>• Check valves</li> <li>• Cutting tips</li> <li>• Welding tip</li> <li>• Single stage oxygen regulator</li> <li>• Single stage fuel gas regulator</li> </ul> <p>Accessories</p> <ul style="list-style-type: none"> <li>• 6m hose (4300591)</li> <li>• goggles (4304482)</li> <li>• Lighter (26s)</li> <li>• Flints (26l)</li> <li>• Tip cleaner</li> <li>• Cylinder key</li> <li>• 2 cylinders Acetylene Tank</li> <li>• 4 cylinders Oxygen Tank</li> </ul>	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - Installation, Commissioning and Training	1 Year	Yes	Yes	4	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-074	Advanced Submerged Arc Welding Machine	<p>Processes: Stick, TIG, MIG, Flux-cored, Submerged Arc, Gouging  Input Power: 380/460/575/3/50/60  Rated Output Current/Voltage/Duty Cycle: 750A/44V/60% / 650A/44V/100%  Input Current @ Rated Output: 61/50/40/57/47/38</p> <p>- with 75 KVA Dry Type Transformer  Copper  3 Ø  60 Hz  Primary Voltage: 460/440/420 Volts  Secondary Voltage: 230 Volts  Wye-Delta Connection  Class H Insulation  High Grade Silicon Core  Temperature Rise: 150oC in NEMA 1 Enclosure  Output Range: 10-815A</p> <p>- with Submerged Arc DC Wire Feeder  Input Power: 115 VAC 50/60 Hz  Rated Output Current / Duty Cycle: 600A / 100%; 1100A / 100% (with water cooling)  Wire Feed Speed Range ipm (m/min): 100 - 400 (2.5 - 10.2)  Wire Size Range Solid in. (mm): 3/32 - 3/16" (2.4 - 4.8)</p> <p>Technology Transfer/Training with English Manual  Warranty: 3 Years</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-076	Plasma Cutter	<p>Input Power: Voltage/Phase/Hertz: 200-208/230/380/460/575/3/50/60  Rated Output: Current/Voltage/Duty Cycle: 100A/140V/60%  Input Current @ Rated Output: 3PH/60% 49/43/27/22/18  Output Range: 25-100A  Gas Pressure Required: 87 to 109 PSI (6.0-7.5 Bar)  Gas Flow Rate: 380 SCFH @ 80 PSI, 180 SLPM @ 5.5 Bar  Cut capacity at 23 ipm: 1 in  Cut capacity at 14 ipm: 1.25 in  Severance capacity at 8 ipm: 1.5 in  With Plasma Circle Cutting Kit</p> <p>- with Air Compressor  3HP belt driven  Air Delivery: 9.88 cfm @ 80psi  Tank Capacity: 110 liters  Peak Current: 25A  Working Pressure: 85-115psi  Input Voltage: 220V/ 1ph/ 60Hz  Speed: 1,725 RPM</p> <p>Technology Transfer/Training  With English Manual  Warranty: 3 Years</p>	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> <li>- Installation, Commissioning and Training</li> </ul>	1 Year	Yes	Yes	2	units

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-008	Welding Respirator	- Reusable half mask respirator - Thermoplastic Elastomer (TPE) - Large - Adjustable strap - with filter section	PPE	Brochure with picture and data sheet	- Type of material used - Functionality testing	1 Year	N/A	N/A	26	pcs
11-009	Welding Coverall	Material: Flame retardant leather with multiple pockets closable with velcro Manufactured according to EN ISO 11611:2007 CLASS 1/A1 A2 Size: Large Color: Blue	PPE	Brochure with picture and data sheet	- Type of material used - Functionality testing	1 Year	N/A	N/A	26	pcs
11-010	Welding Hood	Adjustable cowhide split leather welding caps with neck shoulder drape Unisex KEVLAR thread stitched for extra durability and flame retardant Velcro design for easier putting on and taking off Leather outer is heat and spark proof and an inner cotton lining for maximum comfort Color: blue/orange/red/green	PPE	Brochure with picture and data sheet	- Type of material used - Functionality testing	1 Year	N/A	N/A	26	pcs
11-050	Welding Curtain	6 X 6 ft (1.8 X 1.8 m) fiberglass-based material Compliance ANSI / FM 4950 Approved	PPE	Brochure with picture and data sheet	- Type of material used - Measurement of dimension - Functionality testing	1 Year	N/A	N/A	25	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-066	Auto Darkening Welding Mask	<p>Wall Mount w/ Filter Dual Arm Welding Fume Extractor Base Unit  Filter capacity: 538 ft<sup>2</sup> (50 m<sup>2</sup>)  Filter Type: Cellulose</p> <p>Inclusions: Filter, filter housing; Hoses – 8 in./203mm diameter (2), hose clamps (4), rubber seals (2), Non-return valves (2), 6-8 in. (152 - 203 mm) reducers (2), 6 in. (152 mm) adapters (2), Mounting bracket</p> <p>Features:  Generous Airflow: 735 CFM with Prism Flexible 10 ft. or 13 ft. Extraction Arms and Prism 2400 Fan</p>	PPE	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Type of material used</li> <li>- Measurement of dimension</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	26	pcs
11-012	Welding Nozzle Tip Cleaning Kit	<p>Shell Material : Aluminum  Needle Material : Stainless Steel  Needle Length : 70mm  Needle Quantity : 13  Tip Number : 6, 7, 8, 10, 12, 14, 15, 16, 17, 18, 22, 24, 26  Drill Size: 77-76, 75-74, 73-71, 70-68, 67-65, 64-62, 61-60, 59-58, 57, 56, 55-54, 53-52, 51-49  with one file</p>	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	10	sets
11-013	Anti Spattering Agent	paste 300 g	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity</li> <li>- Functionality testing</li> </ul>	N/A	N/A	N/A	7	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-016	Wrap-Around Pipe Template	- Size: 4" x 60" - contains 45 degree angle markings, protractors, scale (in inch) and constants table with Metal Clip	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Measurement of dimension	1 Year N/A	N/A	N/A	25	sets
11-017	Welding Inspection Gauge Tool Kits	• Welding Seam Gauge Size: approx. 100 x 60mm • MG-8 Welding Gauge Size: approx. 100 x 69mm • Adjustable Fillet Weld Gauge Size: approx. 80 x 76mm • MG-11 Welding Gauge Size: approx. 108 x 32mm • V-Wac Gage Biting Edge Welding Gauge Size: approx. 102 x 32mm • High Low Welding Gauge Size: approx. 158 x 64mm • Stainless Steel	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Measurement of dimension	1 Year	N/A	N/A	4	sets
11-020	Cutting disc	Stone 180x3x22mm ( 7"x1/8"x7/8") 10 pcs/box	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	501	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-021	Grinding disc	Stone 180x6x22mm (7"x1/4"x7/8") 25 pcs/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> </ul> Functionality testing	1 Year	N/A	N/A	501	pcs
11-023	Circular Saw Blade, 12"	Outer diameter: 12" (305mm) No. of teeth: 60 Material: Mild Steel	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> </ul> - Functionality testing	1 Year	N/A	N/A	51	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-024	Polishing Wire Brush Wheel	Diameter: 5, 6, and 8 inch Material: Steel Wire Thickness: 25mm/0.98inch Wire: 0.3mm With Reducers Adaptor	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	50	sets
11-025	Electrodes E6011	E6011 3.2 mm dia x 350 mm 20 kg/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	25	boxes

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-026	Electrodes E7018	E7018 3.2 mm dia x 350 mm 20 kg/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	40	boxes
11-027	Electrodes E308/309	E308/309 2.4/ 2.5 mm dia x 300 mm 1 kg/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	100	boxes

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-029	Electrodes E6013 (3.2mm)	E6013 3.2 mm dia x 350 mm 20 kg/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	40	boxes
11-028	Electrodes E6013 (2.5mm)	E6013 2.5 mm dia x 300 mm 20 kg/box	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	100	boxes

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-030	Filler wire (FCAW)	FCAW E71T-1 (or equivalent) 1.2 mm dia 5 kg/spool	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	40	spools
11-031	Filler wire MIG, 0.8 mm	MIG/GMAW E70S-2 (or equivalent) 0.8 mm dia 5 kg/spool	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	40	spools

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-032	Filler wire (TIG)	TIG ER70S-6 tube 2.4 mm dia 5 kg/pack	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- - Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	40	packs
11-033	Tungsten electrode	EWTh-2 2.4 mm x 175mm 10 pcs/pack	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	50	packs
11-035	Mild Steel plate	3.2mm x 2400mm x 1200 mm	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity and material</li> <li>- Measurement of dimension</li> </ul>	1 Year	N/A	N/A	30	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-036	Steel pipe, 150mm	ASTM A53/A106 Gr B Sch 40 150 mm dia. x 6 m	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity and material</li> <li>- Measurement of dimension</li> </ul>	1 Year	N/A	N/A	40	pcs
11-037	Steel pipe, 50mm	ASTM A53/A106 Gr B Sch 40 50 mm dia. x 6 m	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity and material</li> <li>- Measurement of dimension</li> </ul>	1 Year	N/A	N/A	40	pcs
11-038	Steel pipe, Sch 80	ASTM A53/A106 Gr B Sch 80 150 mm dia. x 6 m	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity and material</li> <li>- Measurement of dimension</li> </ul>	1 Year	N/A	N/A	50	pcs
11-047	Industrial Extension cord (Electrical)	Wheel type 50 Meters Heavy Duty Royal Cord 4 socket 220V Insulation: Synthetic Rubber	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	15	pcs

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Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-067	Circular Saw Blade, 14"	Outer diameter: 14" (356mm) No. of teeth: 66 Material: Mild Steel	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	51	pcs
11-068	Filler wire MIG, 1.2 mm	MIG/GMAW E309 1.2 mm 5 kgs/spool	Consumables	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	50	spools

*Spencer*  
*of*

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	On-site Warranty	Training	English Manual	Qty	Unit
11-073	Shielding gas cylinder tank	75% argon, 25% CO2 Tank size: 50 lbs	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	1 Year	N/A	N/A	12	pcs

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

\_\_\_\_\_  
Name of Company/Bidder                      Signature over Printed Name of Authorized Representative                      Date

*Spec on R*