



TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY (TESDA)

BID DOCUMENTS

Procurement of Learning Systems for RTC-NCR – Rebidding

TESDA-CO-2022-12

**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.

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	4
Section I. Invitation to Bid.....	7
Section II. Instructions to Bidders.....	12
1. Scope of Bid	13
2. Funding Information.....	13
3. Bidding Requirements	13
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	13
5. Eligible Bidders.....	14
6. Origin of Goods	14
7. Subcontracts	14
8. Pre-Bid Conference	14
9. Clarification and Amendment of Bidding Documents	14
10. Documents comprising the Bid: Eligibility and Technical Components	14
11. Documents comprising the Bid: Financial Component	15
12. Bid Prices	15
13. Bid and Payment Currencies	16
14. Bid Security	16
15. Sealing and Marking of Bids	16
16. Deadline for Submission of Bids	17
17. Opening and Preliminary Examination of Bids	17
18. Domestic Preference	17
19. Detailed Evaluation and Comparison of Bids	17
20. Post-Qualification	18
21. Signing of the Contract	18
Section III. Bid Data Sheet	19
Section IV. General Conditions of Contract	34
1. Scope of Contract	36
2. Advance Payment and Terms of Payment	36
3. Performance Security	36
4. Inspection and Tests	36
5. Warranty	37
6. Liability of the Supplier	37
Section V. Special Conditions of Contract	38
Section VI. Schedule of Requirements	43
Section VII. Technical Specifications	45
Section VIII. Checklist of Technical and Financial Documents	212

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 – REBIDDING

1. The Technical Education and Skills Development Authority (TESDA), through the General Appropriations Act (GAA) CY 2021 Continuing Appropriations intends to apply the sum of Two Hundred Thirty-Eight Million Nine Hundred Seven Thousand Seven Hundred Thirty-Five Pesos and 68/100 (P238,907,735.68) for the Procurement of Learning Systems for RTC-NCR – Rebidding 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	P861,557.45
2	Building Management and Automation System	P13,958,813.65
3	Power Generation Equipment and Supplies	P9,631,278.77
4	Industrial Automation, Mechatronics and Robotics	P2,332,801.95
5	Electronics/Electrical Tools and Equipment	P832,247.80
6	Hand Tools and Measuring Instruments	P704,226.89
7	Fabrication Tools, Equipment and Supplies	P1,417,908.06
8	IT Equipment	P39,295,354.68
9	Multimedia Equipment	P38,536,077.45
10	Photography and Videography Equipment	P46,090,661.00
11	Photo and Video Editing Equipment and Software	P69,416,491.58
12	Furniture	P11,482,926.09
13	Air Conditioning, Refrigeration and Water Dispenser	P4,347,390.31
TOTAL		P238,907,735.68

2. The TESDA now invites bids for the above Procurement Project. Delivery of the Goods is required within **sixty (60)** 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 29 July 2022.**
5. A complete set of Bidding Documents may be acquired by interested Bidders beginning **29 July 2022** 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	861,557.45	1,000.000
2	13,958,813.65	25,000.000
3	9,631,278.77	10,000.000
4	2,332,801.95	5,000.000
5	832,247.80	1,000.000
6	704,226.89	1,000.000
7	1,417,908.06	5,000.000
8	39,295,354.68	25,000.000
9	38,536,077.45	25,000.000
10	46,090,661.00	25,000.000
11	69,416,491.58	50,000.000
12	11,482,926.09	25,000.000
13	4,347,390.31	5,000.000

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.

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 **9 August 2022 at 10:00 a.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** **NOT LATER THAN 8 August 2022**, together with the following details:

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- 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 **23 August 2022 at 10:00 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 **23 August 2022 at 11:00 a.m.**, at the Gabriela Silang Room, TESDA Women's Center, Gate 1, TESDA Complex, Building 2, East 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 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 COVID19 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.

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.

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:

Ms. ARCADIA CRESELDA P. BALINAS

Head, BAC Secretariat

4th Floor, BAC Secretariat Office

TESDA Administration Building

East Service Road, South Luzon Expressway (SLEX)

Fort Bonifacio, Taguig City 1630

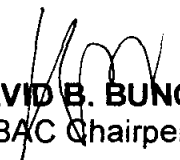
Telefax: (02) 8893-8296

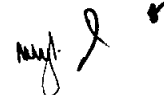
Viber No.: 09999550108

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: 28 July 2022


DAVID B. BUNGALLON
BAC Chairperson



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 – Rebidding** with identification number **TESDA-CO-2022-12**.

The Procurement Project (referred to herein as “Project”) is composed of **thirteen (13) lots**, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding for **General Appropriations Act (GAA) CY 2021 Continuing Appropriations** in the amount of **Two Hundred Thirty-Eight Million Nine Hundred Seven Thousand Seven Hundred Thirty-Five Pesos and 68/100 (P238,907,735.68)**.

2.2. The source of funding is the **General Appropriations Act FY 2021 (Continuing Appropriations)**.

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.

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 **5 August 2022 at 10:00 a.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.

- 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 Declaration¹ 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 **21 December 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.

¹ 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.

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.

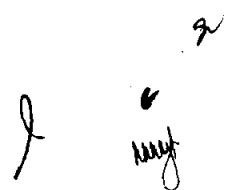
- 19.4. The Project shall be awarded as one (1) Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids 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**.



Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																																					
5.3	<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="margin-left: 80px; width: 80%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Lot No.</th> <th style="width: 40%;">Lot Name</th> <th style="width: 50%;">Nature of SLCC</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Advertising & 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 rowspan="3">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>Power Generation Equipment and Supplies</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Industrial Automation, Mechatronics and Robotics</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Electronics/Electrical Tools and Equipment</td> <td rowspan="3">Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Hand Tools and Measuring Instruments</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Fabrication Tools, Equipment and Supplies</td> </tr> <tr> <td style="text-align: center;">8</td> <td>IT Equipment</td> <td rowspan="3">Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment, photo and video editing equipment</td> </tr> <tr> <td style="text-align: center;">9</td> <td>Multimedia Equipment</td> </tr> <tr> <td style="text-align: center;">10</td> <td>Photography and Videography Equipment</td> </tr> <tr> <td style="text-align: center;">11</td> <td>Photo and Video Editing Equipment and Software</td> <td></td> </tr> <tr> <td style="text-align: center;">12</td> <td>Furniture</td> <td>Contracts similar to the supply/setup of office furniture</td> </tr> <tr> <td style="text-align: center;">13</td> <td>Air Conditioning, Refrigeration and Water Dispenser</td> <td>Contract similar to supply and/or installation of air-conditioning equipment</td> </tr> </tbody> </table> <p style="margin-left: 80px; margin-top: 10px;">The foregoing contract/s must be at least equivalent to fifty percent (50%) of the ABC of the bid/ded lot/s; and</p> <p style="margin-left: 40px;">b. completed within five (5) years prior to the deadline for the submission and receipt of bids.</p>	Lot No.	Lot Name	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	Power Generation Equipment and Supplies	4	Industrial Automation, Mechatronics and Robotics	5	Electronics/Electrical Tools and Equipment	Contract similar the supply of hand tools, power tools, measuring instruments and/or training equipment	6	Hand Tools and Measuring Instruments	7	Fabrication Tools, Equipment and Supplies	8	IT Equipment	Contract similar to supply and set-up of IT equipment, multimedia, photography and/or videography equipment, photo and video editing equipment	9	Multimedia Equipment	10	Photography and Videography Equipment	11	Photo and Video Editing Equipment and Software		12	Furniture	Contracts similar to the supply/setup of office furniture	13	Air Conditioning, Refrigeration and Water Dispenser	Contract similar to supply and/or installation of air-conditioning equipment
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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.																																				

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ITB Clause			
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:		
	Lot No.	Title	Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)
1		Advertising & Brand Communication	₱17,231.15
2		Building Management and Automation System	₱279,176.27
3		Power Generation Equipment and Supplies	₱192,625.58
4		Industrial Automation, Mechatronics and Robotics	₱46,656.04
5		Electronics/Electrical Tools and Equipment	₱16,644.96
6		Hand Tools and Measuring Instruments	₱14,084.54
7		Fabrication Tools, Equipment and Supplies	₱28,358.16
8		IT Equipment	₱785,907.09
9		Multimedia Equipment	₱770,721.55
10		Photography and Videography Equipment	₱921,813.22
11		Photo and Video Editing Equipment and Software	₱1,388,329.83
12		Furniture	₱229,658.52
13		Air Conditioning, Refrigeration and Water Dispenser	₱86,947.81
15	Each Bidder shall submit one copy of the first and second components of its Bid. 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.		

ITB Clause					
19.3		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	₱861,557.45
2	Building Management and Automation System	1. Smart Outlet	50	pcs	₱13,958,813.65
		2. Smart Door Lock	50	units	
		3. Smart Switch, 2-gang	50	pcs	
		4. Smart Switch, 3-gang	50	pcs	
		5. Smart Doorbell	30	units	
		6. Smart Camera	30	units	
		7. Smart Window Sensor	20	units	
		8. Smart Plug Adapter	30	pcs	
		9. Smart Bulb	60	pcs	
		10. Smart Vacuum	5	units	
		11. Smart Hub/Control Gateway	20	units	
		12. Smart Motorized Roller Blinds	20	units	
		13. Wired to Wireless Automation Bridge	20	units	
		14. Smart Temperature and Humidity Sensor	20	units	
		15. Smart Circuit Breaker, 20A	40	pcs	
		16. Smart Circuit Breaker, 30A	40	pcs	
		17. Smart Circuit Breaker, 60A	20	pcs	
		18. Smart Circuit Breaker, 100A	10	pcs	
		19. Smart Assistant	15	units	
		20. Water Level Sensor/Smart Float Switch	30	units	
		21. Light Sensor	30	units	
		22. Relay Module	10	pcs	
		23. Addressable Fire Alarm Control Panel	10	sets	
		24. BMS Demo Kit	4	sets	
		25. CRS Demo Kit	4	sets	
		26. Security Demo Kit	4	sets	

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ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
3	Power Generation Equipment and Supplies	1. Grid Connected Solar PV, 15kW	5	units	₱9,631,278.77	
		2. Grid Connected Solar PV, 5kW	5	units		
		3. Grid Connect, 3.8kW	5	units		
		4. Grid Connect, 5kW	5	units		
		5. Grid Connect with power limiter, 5kW	10	units		
		6. Solar Module, 300 to 350W	60	units		
		7. Solar Module, 400 to 450W	60	units		
		8. Solar Module, 200 to 250W	60	units		
		9. Solar Site Analysis tool	5	sets		
		10. Mounting rail	100	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	1	set		
		16. Computerized Battery Analyzer	5	units		
4	Industrial Automation, Mechatronics and Robotics	1. Human Machine Interface	5	units	₱2,332,801.95	
		2. Variable Frequency Drive	10	units		
		3. Double Acting Cylinder	50	pcs		
		4. Reed Switch	100	pcs		
		5. 5/2 Way Double Solenoid Valve	50	pcs		
		6. 5/2 Way Single Solenoid Valve	50	pcs		
		7. Filter Regulator Lubricator	20	pcs		
5	Electronics/ Electrical Tools and Equipment	1. Digital Oscilloscope	5	units	₱832,247.80	
		2. Insulation Tester	4	units		
		3. Earth Resistance Tester	5	units		
		4. Thermal Camera	5	units		
		5. Soldering Station	10	sets		

ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
6	Hand Tools and Measuring Instruments	1. Multi weld plier	25	pcs	P704,226.89	
		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	9	pcs		
		22. Pipe Wrench	5	pcs		
		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	9	pcs		

ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
7	Fabrication Tools, Equipment and Supplies	1. Acrylic sheet 2.0 mm	20	pcs	P1,417,908.06
		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. Band Saw Machine	2	units	
		11. Table Saw Machine with Stand	5	units	
		12. Miter Saw	5	units	
		13. Drill Press Machine	5	units	
		14. Jig Saw	5	units	
		15. Cordless Portable Planer	5	units	
		16. Cordless Sander	10	units	
		17. Circular Saw	5	units	
		18. Tube Bender Kit	5	sets	
8	IT Equipment	1. Computer Tower Workstation 32 GB with Dual Monitor	28	units	P39,295,354.68
		2. Laptop i9	65	sets	
		3. Laptop	10	sets	
		4. Graphics Pen Tablet	28	sets	
		5. UPS 600W	28	sets	
		6. A3 Colour Laser Printer	2	sets	
		7. A4 Printer	11	sets	
		8. CAD Plotter	1	set	
		9. Label Printer	5	units	
		10. Flash Drive	25	pcs	
		11. External Drive Storage	10	pcs	
		12. Wired Headset	28	sets	
		13. 24U rack cabinet	1	set	

ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
9	Multimedia Equipment	1. 3D Printer	5	sets	P38,536,077.45	
		2. IP 4K Pan-Tilt-Zoom Camera with NDI	4	units		
		3. IP remote control panel for PTZ cameras	1	set		
		4. 55" LED TV Smart Multi View Monitor	3	sets		
		5. 55" LED TV Smart Monitor	1	set		
		6. 43" Teleprompter Monitor	1	set		
		7. 65" Interactive Display	7	sets		
		8. Rack Frame	1	pc		
		9. Embedder / Disembedder	2	units		
		10. USB Audio Interface	2	units		
		11. HDMI to USB 3.0 Capture Box	3	units		
		12. Playback Software	1	license		
		13. Digital Audio Mixer	1	set		
		14. Digital Snake	1	set		
		15. Wideband Wireless Receiver	1	set		
		16. Narrow Band Beltpack Transmitter	2	sets		
		17. Wideband Antenna w/ Booster	2	sets		
		18. IEM Transmitter	1	set		
		19. IEM Receiver	2	sets		
		20. Digital Audio Reference Meter	1	set		
		21. Speaker Monitor Powered	2	sets		
		22. 12" Powered Bi Amplified Monitor Speaker	2	sets		
		23. Professional Large Diaphragm Headphone	12	sets		
		24. Intercom System	1	set		

ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
		25. Channel A-B linking	2	sets	
		26. Communication Headset	3	sets	
		27. 9" Communication Microphone	3	sets	
		28. Studio Furnitures	6	sets	
		29. DNXIQ I/O Interface	6	units	
		30. 16-17" Production Monitor	6	sets	
		31. 5" Powered Studio Bi amp Monitor	12	sets	
		32. Advance Panel	1	unit	
		33. Digital Audio Interface	3	units	
		34. 88Keys MIDI Keyboard Controller	1	set	
		35. Eucon Desktop Control Surface Control Panel	3	units	
		36. Smart-UPS 900W	6	sets	
		37. Post Production Furniture	2	sets	
		38. SDI/HDMI Wireless Video Transmission System	3	sets	
		39. Short Shotgun Microphone	3	sets	
		40. 2-Person Camera-Mount Wireless Combo Microphone System Kit	3	sets	
		41. Custom Server Rack	1	set	
		42. 17.3" Full HD 12G-SDI LCD Monitor	2	sets	
		43. 9 Feet x 12 Feet LED Wall Configuration	2	sets	
		44. LED Video Wall Playback Software	1	set	
		45. Multi Touch Interactive Whiteboard	16	sets	

**ITB
Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
10	Photography and Videography Equipment	1. 12 Channel Digital Video Switcher	1	unit	P46,090,661.00
		2. Video Tripod	8	sets	
		3. H.264 Video Streaming Encoder and Recorder	1	set	
		4. Teleprompter	1	set	
		5. Multichannel Video Recorder	1	set	
		6. Dual 1x4 12G-SDI Distribution Amplifiers	2	units	
		7. Point Source Daylight LED	5	sets	
		8. RGBW Light Panel	5	sets	
		9. Barn Door	5	pcs	
		10. 10.8 ft. Light Stand	10	pcs	
		11. Chroma Green Screen	2	pcs	
		12. 90cm Omnidirectional Soft Light Modifier	5	pcs	
		13. 12G SDI Coaxial Cable	2	rolls	
		14. BNC Connector	2	pcs	
		15. XLR Connector	130	pcs	
		16. PL Connector	60	pcs	
		17. Audio Cable Balance	2	rolls	
		18. 4K MOS 1/3" Sensor Camcorder	2	sets	
		19. On-Camera Variable Color LED Light (3200 to 9500K)	3	sets	
		20. Protective Rain Cover for ENG Camera	3	sets	
		21. 7" HDR Pro/Cinema Monitor-Recorder-Switcher with Accessory Kit	3	sets	
		22. Full Frame Mirrorless Digital Camera and Video Camera	3	sets	

**ITB
Clause**

Lot No.	Title	Item/s	Quantity	Unit	ABC
		23. Tripod	3	sets	
		24. Studio Lights 400 w	2	sets	
		25. Studio Lights 600 w	2	sets	
		26. Studio Lights 1200 w	2	sets	
		27. Power pack electronic flash system	1	set	
		28. Flash Trigger	3	sets	
		29. Light Meter	1	set	
		30. Reflective bowl	4	sets	
		31. Speedring	4	sets	
		32. Umbrella	1	set	
		33. Softbox small	1	set	
		34. Softbox big	1	set	
		35. Stripbox long	1	set	
		36. Stripbox short	1	set	
		37. Beauty Dish	1	set	
		38. Barndoor	2	sets	
		39. Honeycomb	2	sets	
		40. Snoot with grid	1	set	
		41. Reflector round	5	sets	
		42. Reflector Ellipse	5	sets	
		43. Light stands	9	sets	
		44. Backlight Light Stand	1	set	
		45. Boom Stands	1	set	
		46. Backgrounds	1	set	
		47. Background stand	1	set	
		48. Reflector holder	3	sets	
		49. Ultra Low Dry Cabinet	1	set	
		50. Additional Camera/Backup Camera for eTESDA (Canon)	2	sets	
		51. Network RX Station for Camcorders	1	set	
		52. Camera Tripod	3	sets	
		53. Wireless Camera Adapter	3	sets	
		54. Focus Puller Motorized	3	sets	
		55. 5" 4K Video Assist System	3	set	
		56. Battery Powered Centralized Synchronization System	2	sets	

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ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
		57. 32-Channel/36-Track Portable Mixer-Recorder	1	set	
		58. Linear Fader Control Surface for 888 and Scorpio Mixer-Recorders	1	set	
		59. Dual SuperSlot Wireless Module for 8-Series Mixer/Recorder	1	set	
		60. 4 Channel Wireless Microphone System	2	sets	
		61. Dual Channel Wireless Microphone Receiver	1	set	
		62. M-S stereo shotgun microphone ENG Package	2	sets	
		63. Multi D-Tap Heavy-Duty Digital Battery (V-Mount)	2	sets	
		64. Wireless Plug-On XLR Transmitter	2	sets	
		65. Reference headphones	2	sets	
		66. 31" Native 4K Monitor	1	set	
		67. 9" 4RU Rack Mount Monitor	1	set	
		68. 16x16 SDI 12G SDI Router	1	set	
		69. 1RU Control Panel for KUMO Routers	1	set	
		70. Play Out Work Station	1	set	
		71. Capture / Play Back Desktop i/O	1	set	
		72. Drone Camera, 7 km range	1	set	

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ITB Clause					
Lot No.	Title	Item/s	Quantity	Unit	ABC
11	Photo and Video Editing Equipment and Software	1. SketchUp Pro	28	licenses	P69,416,491.58
		2. Final Cut Pro	2	licenses	
		3. Adobe Courses with Learning Management System	1	license	
		4. Adobe Certified Professional Certification	1,200	licenses	
		5. Adobe Creative Cloud for Enterprise All Apps	50	licenses	
		6. Autodesk Learning Management System	1	license	
		7. Office Home and Business 2021	200	licenses	
		8. Autodesk Certified User Certification	1,000	licenses	
		9. Color Grading Software	1	license	
		10. Sound Effects Library	1	set	
		11. Music Instrument Sound Library	1	set	
		12. Ultimate Perpetual License Audio and Music Creation Software	3	sets	
		13. Standalone Computer, 24 inch	28	sets	
		14. Standalone Computer, 32 inch	6	sets	
		15. Laptop Computers	3	sets	
		16. Laptop, 16 core	47	sets	
		17. Tablet	56	sets	

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ITB Clause						
Lot No.	Title	Item/s	Quantity	Unit	ABC	
12	Furniture	1. Trainers' Table	19	pcs	P11,482,926.09	
		2. Trainees' Table Steel Square Legs	139	pcs		
		3. Movable Square Table	50	pcs		
		4. Swivel Chair	291	pcs		
		5. Swing Door Cabinet	15	pcs		
		6. Glass Cabinet	18	pcs		
		7. Lockers	18	pcs		
		8. L-Shape Table	25	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		
13	Air Conditioning, Refrigeration and Water Dispenser	1. Air Conditioning Unit, Split Type	53	sets	P4,347,390.31	
		2. Air Conditioning Unit, Window Type, Non- inverter	4	sets		
		3. Air Conditioning Unit, Window Type, Inverter	4	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		
20.1	<ul style="list-style-type: none"> • 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. 					

ITB Clause	
	<ul style="list-style-type: none"> • 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"). • 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. * • Latest Annual Income Tax Returns (BIR Form 1701 or 1702) as filed through the Electronic Filing and Payment System (eFPS). * • Either of the following: <ul style="list-style-type: none"> a. Value Added Tax Returns (Forms 2550M and 2550Q) covering the previous six (6) months as filed thru eFPS; or b. Percentage Tax Returns (Form 2551M) covering the previous six (6) months as filed thru eFPS * Pursuant to BIR Revenue Regulations No. 03-2005 dated 16 February 2005. • Valid and updated PhilGEPS Certificate of Registration (Platinum Membership) submitted during post-qualification. However, if during the post-qualification period, said Certificate of Registration is no longer valid, the bidder concerned shall submit the updated one. • 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. • 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.
21.2	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:

- EXCELLENT
- VERY SATISFACTORY
- SATISFACTORY
- POOR

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 – Rebidding**.

Issued this _____ day of _____ in _____, Philippines.

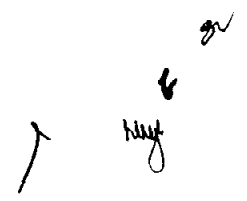
Name of Company (Bidder's Client)

Signature over Printed Name of Authorized Representative

Address

E-mail Address

Tel./Fax No.



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>Delivery and Documents –</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 the Regional Training Center - National Capital Region, Gate 2, TESDA Complex, East Service Road, South Luzon Expressway (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>Mr. RIZAL S. BAUTISTA Administrator Bldg. 14, Gate 2, TESDA Complex East Service Road, Taguig Email: rtcncr@tesda.gov.ph</p> <p>Incidental Services –</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"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;

GCC Clause	
	<ul style="list-style-type: none"> c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; 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; 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 f. Delivery of tools and equipment to the RTC NCR at no additional cost to the Procuring Entity. <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>Spare Parts – Not available.</p>
	<p>Packaging –</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>

GCC Clause	
	<p>Transportation –</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> <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>Intellectual Property Rights –</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.

GCC Clause	
3	<p>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.</p>
4	<p>A. Goods</p> <p>The supplied goods will be evaluated in terms of:</p> <ul style="list-style-type: none"> • Correctness and of quantity vis-à-vis quantity • Compliance of actual goods to the submitted proposal in the post-qualification evaluation (This includes accessories indicated in some items.) • Signs of physical defects, such dents, broken parts, etc. • Quality of work for items requiring installation and set-up • Functionality and features <p>B. Training</p> <p>The training will be evaluated in terms of:</p> <ul style="list-style-type: none"> • Completeness of scope, duration and arrangement vis-à-vis training proposal submitted in the post qualification evaluation.
5.1	<ul style="list-style-type: none"> • One (1) year on-site warranty for all items except those that are classified as accessories and consumables. This also includes replacement of goods found to be defective within seven (7) days from the date of acceptance. • For Item No. 13-001 (Air Conditioning Unit, Split Type), warranty shall be: <ul style="list-style-type: none"> ➤ 1 year on Parts and Labor ➤ 5 years on Compressor

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GCC Clause	
	<ul style="list-style-type: none">• Free technical support for items classified as e-learning for the duration of subscription, and at least 1 year for perpetual license applications.

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 sixty (60) calendar days upon receipt of Notice to Proceed
2	Building Management and Automation System	
3	Power Generation Equipment and Supplies	
4	Industrial Automation, Mechatronics and Robotics	
5	Electronics/Electrical Tools and Equipment	
6	Hand Tools and Measuring Instruments	
7	Fabrication Tools, Equipment and Supplies	
8	IT Equipment	
9	Multimedia Equipment	
10	Photography and Videography Equipment	
11	Photo and Video Editing Equipment and Software	
12	Furniture	
13	Air Conditioning, Refrigeration and Water Dispenser	

A. Scope of work

This project shall cover the following:

1. delivery, installation, commissioning of goods; and
2. training of trainers

B. Installation Requirements and Arrangements

The end-user shall ensure that the installation site for the equipment is ready prior to the delivery of goods. This may include:

- o Provision of equipment layout; and/or
- o Access to source line (power and/or water). Tapping/connection point should not be more than 10ft away from the location of the equipment to be installed.

The supplier shall cover for the cost of the following:

- o Electrical system – which may include the following: enclosure/s, protective device(s), conduit and wires (10ft.)
- o Piping requirement for installation of Air Conditioning system – copper tube for the refrigerants (At least 5 AC units have pipe length of maximum 30 ft., the rest are back-to-back), drainpipes (22ft of PVC)
- o Frame/Mounting platform/fixtures
- o Provision of special/proprietary tools and/or instrument needed for the installation and/or configuration of the equipment. This tool/instrument shall be turned over to the end user as part of the equipment package.

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C. Training Requirements and Arrangements

The project covers two levels of training:

- Level 1: Utilization and maintenance (1~2 days)

The winning bidder per lot will provide short training on the familiarization, utilization, and maintenance of each equipment.

- Level 2: Technology specific training (10 days per lot)

The winning bidder on the following lot will provide a comprehensive training, see details below:

- Lot # 2: Building management system and building automation

The training should cover installation, configuration, development of programs using different cases of building management and automation system.

- Lot # 3: Power Generation Equipment and Supplies

The training should cover design, installation set-up, configuration and troubleshooting of different electrical power generation systems. The training should also cover a walk through on the course and learning materials that comes with the package.

- Lot # 4: Industrial Automation, Mechatronics and Robotics

The training should cover design, installation set-up, configuration and integration of HMI and VFD systems to mechatronics systems. Training should also cover User Interface designing and development.

- Lot #10: Photography and videography equipment

The training should cover light set-up, indoor photography, outdoor photography and videography, landscape photography

- Lot # 11: Photo and video editing equipment and software

- The training should cover familiarization with the different equipment and software and its application to post-production activities such as photo editing, photo printing, video editing and exporting

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

Section VII. Technical Specifications

Technical Specifications

Lot 1 : Advertising & Brand Communication

APPROVED BUDGET : Eight Hundred Sixty-One Thousand Five Hundred Fifty-
FOR THE CONTRACT : Seven Pesos and 45/100 (P861,557.45)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
01-001	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 stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date

ANNEX B1

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
01-001	Holographic Human Configuration	<ul style="list-style-type: none"> • 3 Units Solo Large Device 75 cm - Four-ray LED-based rotor that can project 3D content at up to 670 RPM - Generates high-definition 3D visuals & videos - Supports 16M+ colors for digital excellence - Compact & portable - Simple device installation & dismantling - Custom configuration: any size - Unparalleled quality holographic 4K images - With audio-enabled 3D holograms - Possibility to create interactive user experience using SDK <p>Inclusion:</p> <ul style="list-style-type: none"> • 4 Units Wall Portable HH - Device compatibility: Wall made of 3 Solo L devices - Length: 153 cm x 73 cm x 92 cm / 60.2" x 28.7" x 36.2" (w/o device) - Quick installation and assembly - Highly mobile with leveling wheels - Vertical display from near ground level to 1.5 meters • 1 Unit Master Box • 1 Unit Frame with Glass Box and alignment mount • 1 RJ Wires • 1 CMS software License • 1 3D Content Services • 12 Month Subscription 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of dimension - Functionality test - Checking of specification (offered vs. actual) - Check package completeness 	1 Year	Yes	Yes	1	set

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

Technical Specifications

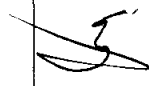
Lot 2 : Building Management and Automation System

APPROVED BUDGET FOR THE CONTRACT : Thirteen Million Nine Hundred Fifty-Eight Thousand Eight Hundred Thirteen Pesos and 65/100 (P13,958,813.65)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
02-001	Smart Outlet	Kindly refer to the technical specifications attached as Annex B2.	50	pcs			
02-002	Smart Door Lock	Kindly refer to the technical specifications attached as Annex B2.	50	units			
02-003	Smart Switch, 2-gang	Kindly refer to the technical specifications attached as Annex B2.	50	pcs			
02-004	Smart Switch, 3-gang	Kindly refer to the technical specifications attached as Annex B2.	50	pcs			
02-005	Smart Doorbell	Kindly refer to the technical specifications attached as Annex B2.	30	units			
02-006	Smart Camera	Kindly refer to the technical specifications attached as Annex B2.	30	units			
02-007	Smart Window Sensor	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-008	Smart Plug Adapter	Kindly refer to the technical specifications attached as Annex B2.	30	pcs			
02-009	Smart Bulb	Kindly refer to the technical specifications attached as Annex B2.	60	pcs			



Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
02-010	Smart Vacuum	Kindly refer to the technical specifications attached as Annex B2.	5	units			
02-011	Smart Hub/Control Gateway	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-012	Smart Motorized Roller Blinds	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-013	Wired to Wireless Automation Bridge	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-014	Smart Temperature and Humidity Sensor	Kindly refer to the technical specifications attached as Annex B2.	20	units			
02-015	Smart Circuit Breaker, 20A	Kindly refer to the technical specifications attached as Annex B2.	40	pcs			
02-016	Smart Circuit Breaker, 30A	Kindly refer to the technical specifications attached as Annex B2.	40	pcs			
02-017	Smart Circuit Breaker, 60A	Kindly refer to the technical specifications attached as Annex B2.	20	pcs			
02-018	Smart Circuit Breaker, 100A	Kindly refer to the technical specifications attached as Annex B2.	10	pcs			
02-019	Smart Assistant	Kindly refer to the technical specifications attached as Annex B2.	15	units			
02-020	Water Level Sensor/ Smart Float Switch	Kindly refer to the technical specifications attached as Annex B2.	30	units			



ANNEX B2

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-001	Smart Outlet	<ul style="list-style-type: none"> • WiFi and Gateway Supported • Input Voltage: 200 to 240 V • Frequency: 50 to 60 Hz • Maximum Current: 6 to 10 A • Frequency Band 2.4 GHz, 5GHz • Wall-mounted, Flush-type 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	N/A	50	pcs
02-002	Smart Door Lock	<ul style="list-style-type: none"> • Access Type: Password, RFID, Key and Fingerprint Scanner • Features: View Access logs through mobile phone app, Can be integrated with Voice Assistant, Supports Bluetooth pairing • WiFi Frequency 2.4 GHz, 5GHz • Battery-operated (AA Battery) • With manual key override in case of battery failure • with English Manual 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	50	units
02-003	Smart Switch, 2-gang	<ul style="list-style-type: none"> • Gateway Supported • Input Voltage: 200 to 240 V • Frequency: 50 to 60 Hz • Maximum Current: 6 to 10 A • Certification: CE RoHS FCC • 2 Gang • Frequency Band 2.4 GHz, 5GHz • Wall-mounted, Flush-type • Features: Remote control through mobile phone app, Can be integrated with Voice Assistant 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	N/A	50	pcs

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

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

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-009	Smart Bulb	<ul style="list-style-type: none"> • LED • RGB - 16 M colors • Input Voltage: 200 to 240 V • Frequency: 50 to 60 Hz • Power Rating: at least 10 W • Frequency Band 2.4 GHz, 5GHz • WiFi and Gateway Supported • Dimmable • App Control 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	N/A	60	pcs
02-010	Smart Vacuum	<ul style="list-style-type: none"> • Wet and dry • Automatic • Compatibility: Any Voice assistant or Gateway • Input Voltage: 14 to 24 V Battery Operated • Rated Power: at least 30 W • Capacity: at least 500 mL (200mL water and 300mL dust) • Noise Level: at most 55 dB • Voice, Remote and App Control 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units
02-011	Smart Hub/Control Gateway	<ul style="list-style-type: none"> • Zigbee Smart Gateway Control • Zigbee Alliance 3.0 • For Wired (LAN) Connection - up to 200 max device support • For Wireless (WIFI) Connection - up to 100 max device support • Material: Fireproof, anti-flaming PC V0+ • Power Adapter included 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	20	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-012	Smart Motorized Roller Blinds	<ul style="list-style-type: none"> • WiFi and Gateway Supported • APP and Manual Control • Frequency Band 2.4 GHz, 5GHz • Compatible with a variety of shades, blinds, curtains, and drapes • Includes autovolt (80-240 VAC) power supply adapter • with ball solar panel, chain and nylon cord 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	20	units
02-013	Wired to Wireless Automation Bridge	<ul style="list-style-type: none"> • Supports Google, Amazon and Alexa • Features: Geofencing, Automation, Voice Control and Mobile App 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	Yes	20	units
02-014	Smart Temperature and Humidity Sensor	<p>supports wired and wireless feedback</p> <p>Temperature range detection: -20 — 60 Deg.C (+/- 3 Deg.C)</p> <p>Humidity detection range: 0 — 100 pct RH (+/- 3pct)</p> <p>Connection: Wired or Wireless</p> <p>Power Supply: 12 to 24V</p>	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	20	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-015	Smart Circuit Breaker, 20A	<ul style="list-style-type: none"> • Supports Wired home automation and Wireless (internet) Control • Ampere Rating: 20 to 25 A • Voltage Rating: 200 to 250 V • Frequency Rating: 50 to 60 Hz • Installation/Mounting: Din Rail • Phase: Single • WiFi Range: at least 2.4 GHz • Impact Withstand Voltage: atmost 6kV • Short Circuit Breaking Capacity: atleast 10kA • Protection Grade: IP20 (CE Certificate) • Ambient Temperature: -25 °C to +65 °C • Installation Category: II, III 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	Yes	40	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-016	Smart Circuit Breaker, 30A	<ul style="list-style-type: none"> • Supports Wired Home Automation and Wireless (Internet) Control • Ampere Rating: 30 to 32 A • Voltage Rating: 200 to 250 V • Frequency Rating: 50 to 60 Hz • Installation/Mounting: Din Rail • Phase: Single • WiFi Range: at least 2.4 GHz • Impact Withstand Voltage: atmost 6kV • Short Circuit Breaking Capacity: at least 10kA • Protection Grade: IP20 (CE Certificate) • Ambient Temperature: -25 °C to +65 °C • Installation Category: II, III 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	Yes	40	pcs




Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-017	Smart Circuit Breaker, 60A	<ul style="list-style-type: none"> • Supports Wired home automation and Wireless (internet) Control • Ampere Rating: 60 to 63 A • Voltage Rating: 200 to 250 V • Frequency Rating: 50 to 60 Hz • Installation/Mounting: Din Rail • Phase: Single • Frequency Band 2.4 GHz, 5GHz • Impact Withstand Voltage: atmost 6kV • Short Circuit Breaking Capacity: at least 10kA • Protection Grade: IP20 (CE Certificate) • Ambient Temperature: -25 °C to +65 °C • Installation Category: II, III 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	20	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-018	Smart Circuit Breaker, 100A	<ul style="list-style-type: none"> • Supports Wired home automation and Wireless (internet) Control • Ampere Rating: 100 to 105 A • Voltage Rating: 200 to 250 V • Frequency Rating: 50 to 60 Hz • Installation/Mounting: Din Rail • Phase: Single • Frequency Band 2.4 GHz, 5GHz • Impact Withstand Voltage: atmost 6kV • Short Circuit Breaking Capacity: at least 10kA • Protection Grade: IP20 (CE Certificate) • Ambient Temperature: -25 °C to +65 °C • Installation Category: II, III 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	10	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-019	Smart Assistant	<ul style="list-style-type: none"> • Built-In Assistant • Display: 7" WSVGA Touchscreen (1024 x 600) • With Microphones • Wi-Fi & Bluetooth Wireless Connectivity • Built-in Full-Range Speaker • Control Compatible Smart Devices • Processor: 1.9 GHz ARM Quad-Core • Frequency Band 2.4 GHz, 5GHz • Power Consumption: 15 W • Material: Fabric, Plastic or both • Power Supply: at least 5VDC 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	15	units
02-020	Water Level Sensor/Smart Float Switch	<ul style="list-style-type: none"> • Support: WiFi and Gateway Supported • Power Supply: at least 5 V • Frequency Band 2.4 GHz, 5GHz 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	30	units
02-021	Light Sensor	<ul style="list-style-type: none"> • WiFi and Gateway Supported • Power Supply: at least 5 V • Frequency Band 2.4 GHz, 5GHz 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	30	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-022	Relay Module	<ul style="list-style-type: none"> • 8 channel • Voltage Rating: 5V • 3 terminals per SPDT relay 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	6 months	Yes	Yes	10	pcs
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"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	10	sets
02-024	BMS Demo Kit	refer to Technical Specification of Item Code 02-024	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - 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	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
02-025	CRS Demo Kit	refer to Technical Specification of Item Code 02-025	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	sets
02-026	Security Demo Kit	refer to Technical Specification of Item Code 02-026	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	sets

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Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date

TECHNICAL SPECIFICATION

Name of the Equipment	Addressable Fire Alarm Control Panel
Item Code	02-023
Technology Area(s)	Building Management and 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: $\leq 3\text{mA}$
- Alarm Current: $\leq 60\text{mA}$
- Alarm SPL: $\geq 100\text{dB}$
- Flash Period: 1.0S
- Working Temperature: $-10^{\circ}\text{C}-50^{\circ}\text{C}$

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

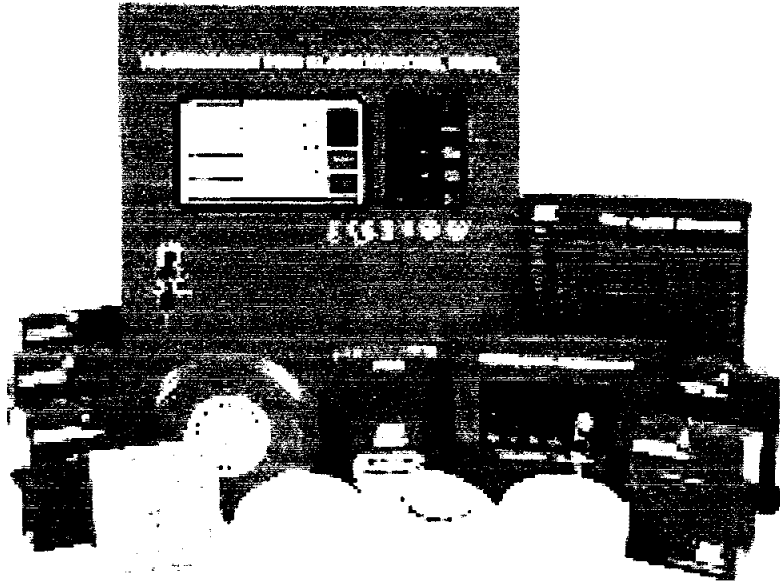
Addressable Smoke Detector

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



Picture for reference only

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TECHNICAL SPECIFICATION

Name of The Learning System	BMS Demo Kit
Item Code	02-024
Technology Area(s)	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:

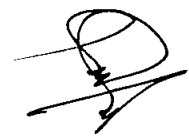
- IP addressing
- BACnet/IP communications
- DHCP for easy network configuration

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
- 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 $\pm 20\%$ 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 k Ω
 - 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
 - temperature sensor
 - humidity sensor
 - Control type
 - + button
 - - button
 - Arrow button
 - 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
 - +/- 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.

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

TECHNICAL SPECIFICATION

Name of The Learning System	CRS Demo Kit
Item Code	02-025
Technology Area(s)	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

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TECHNICAL SPECIFICATION

Name of The Learning System	Security Demo Kit
Item Code	02-026
Technology Area(s)	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)
- 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

● **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

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Name of Company/Bidder

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Technical Specifications

Lot 3 : Power Generation Equipment and Supplies

APPROVED BUDGET : Nine Million Six Hundred Thirty-One Thousand Two
 FOR THE CONTRACT : Hundred Seventy-Eight Pesos and 77/100
 (P9,631,278.77)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
03-001	Grid Connected Solar PV, 15kW	Kindly refer to the technical specifications attached as Annex B3 .	5	units			
03-002	Grid Connected Solar PV, 5kW	Kindly refer to the technical specifications attached as Annex B3 .	5	units			
03-003	Grid Connect, 3.8kW	Kindly refer to the technical specifications attached as Annex B3 .	5	units			
03-004	Grid Connect, 5kW	Kindly refer to the technical specifications attached as Annex B3 .	5	units			
03-005	Grid Connect with power limiter, 5kW	Kindly refer to the technical specifications attached as Annex B3 .	10	units			
03-006	Solar Module, 300 to 350W	Kindly refer to the technical specifications attached as Annex B3 .	60	units			
03-007	Solar Module, 400 to 450W	Kindly refer to the technical specifications attached as Annex B3 .	60	units			
03-008	Solar Module, 200 to 250W	Kindly refer to the technical specifications attached as Annex B3 .	60	units			
03-009	Solar Site Analysis tool	Kindly refer to the technical specifications attached as Annex B3 .	5	sets			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
03-010	Mounting rail	Kindly refer to the technical specifications attached as Annex B3.	100	pcs			
03-011	Splice	Kindly refer to the technical specifications attached as Annex B3.	50	pcs			
03-012	Mid Clamp	Kindly refer to the technical specifications attached as Annex B3.	300	pcs			
03-013	End Clamp	Kindly refer to the technical specifications attached as Annex B3.	300	pcs			
03-014	Grounding Lug	Kindly refer to the technical specifications attached as Annex B3.	100	pcs			
03-015	Solar PV Complete Test Kit	Kindly refer to the technical specifications attached as Annex B3.	1	set			
03-016	Computerized Battery Analyzer	Kindly refer to the technical specifications attached as Annex B3.	5	units			

* 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.

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