

# PURCHASE/INSTALLATION OF RUNWAY EDGE LIGHTS (CIRCUIT - 1) FIXTURES AND ACCESSORIES AT GENERAL SANTOS AIRPORT

BID NO. 23-052-11 BRAVO

#### Sixth Edition July 2020

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## Glossary of Acronyms, Terms, and Abbreviations

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

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

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

**CDA** - Cooperative Development Authority.

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

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

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

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

EXW - Ex works.

**FCA** – "Free Carrier" shipping point.

**FOB** – "Free on Board" shipping point.

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

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

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

LGUs – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

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

**UN** – United Nations.

## Section I. Invitation to Bid

#### INVITATION TO BID FOR

#### PURCHASE/INSTALLATION OF RUNWAY EDGE LIGHTS (CIRCUIT -1) FIXTURES AND ACCESSORIES AT GENERAL SANTOS AIRPORT BID NO. 23-052-11 BRAVO

- 1. The Civil Aviation Authority of the Philippines through the CAAP Corporate Operating Budget CY 2023 intends to apply the sum of Ten Million One Hundred Ninety-two Thousand Two Hundred Sixty-two Pesos and One Centavo. (₱10,192,262.01) being the ABC to payments under the contract for Purchase/Installation of Runway Edge Lights (Circuit -1) Fixtures and Accessories at General Santos Airport with Bid No. 23-052-11 BRAVO. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The Civil Aviation Authority of the Philippines now invites bids for the above Procurement Project. Delivery of the Goods is required within Sixty (60) calendar days upon receipt of the Notice to Proceed (NTP). 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 **Civil Aviation Authority of the Philippines** and inspect the Bidding Documents at the address given below during Mondays to Fridays, except holidays, from 8:00 AM to 5:00 PM
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on 15 November 2023 to until the deadline of submission of bids from the given address below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-Eight Thousand Pesos (₱ 28,000.00) inclusive of 12% VAT. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

- 6. The Civil Aviation Authority of the Philippines will hold a **Pre-Bid Conference**<sup>1</sup> on **24 November 2023** @ **9:30 AM** through video conferencing or webcasting via Google Meet and Zoom Application which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before **06 December 2023** @ **9:30 AM**. 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 **06 December 2023** @ **9:30 AM** at the given address below and/or via Google Meet or Zoom applications. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The Civil Aviation Authority of the Philippines 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:

#### MR. GARY M. JADIE

Civil Aviation Authority of the Philippines BAC Head Secretariat MIA Road Pasay City Telefax No. – (02) 8 246 4988 loc. 2236 www.bac@caap.gov.ph

12. You may visit the following websites:

For downloading of Bidding Documents: www.caap.gov.ph

ATTY. DANJUN G. LUCAS

Chairperson, Bids & Awards Committee Civil Aviation Authority of the Philippines

<sup>&</sup>lt;sup>1</sup> May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.

## Section II. Instructions to Bidders

#### 1. Scope of Bid

The Procuring Entity, Civil Aviation Authority of the Philippines wishes to receive Bids for the Purchase/Installation of Runway Edge Lights (Circuit – 1) Fixtures and Accessories at General Santos Airport with identification number **Bid No. 23-052-11 BRAVO.** 

The Procurement Project (referred to herein as "Project") is composed of **one** (1) **lot**, *the* details of which are described in Section VII (Technical Specifications).

#### 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for **CY 2023** in the amount of ₱ **10,192,262.01**
- 2.2. The source of funding is the GOCC and GFIs, the proposed Corporate Operating Budget.

#### 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 limited to those allowed under the rules may participate in this Project.
  - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
  - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
  - iii. When the Goods sought to be procured are not available from local suppliers; or
  - iv. When there is a need to prevent situations that defeat competition or restrain trade.
- 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:

The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.

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 Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that **Subcontracting is not allowed.** 

7.2. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, or workmen.

#### 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or 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 the **five** (5) **year period** 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, exwarehouse, 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 the **BDS**.
  - 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 the **BDS**.

#### 13. Bid and Payment Currencies

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

#### 14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration<sup>2</sup> or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until <u>120 days</u> from the date of opening. 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.

#### 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.

<sup>&</sup>lt;sup>2</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

#### 19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's 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 14 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 follows:

One Project having several items that shall be awarded as one contract.

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, 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	For this purpose, contracts similar to the Project shall be:
	<ul> <li>a. Purchase/Supply/Delivery/Installation of Airfield Lighting Systems.</li> <li>b. Completed within <u>5 years</u> prior to deadline for the submission and receipt of bids.</li> </ul>
7.1	Subcontracting is not allowed for this Project.
A. Per CAAP Memorandum dated 17 September 2018 re: Disqua Prospective Bidders with Pending Case against the Government activities of the CAAP, all prospective bidders shall be submit the following;	
	1. Certification under oath attesting that they have no pending case(s) against the Government, in addition to the eligibility requirements for bidders as prescribed under the 2016 Revised Implementing Rules and Regulations (revised IRR) of RA 9184.
	2. Legal Clearance to be issued by the CAAP Enforcement and Legal Service with respect to the non-pendency of any cases of prospective bidders against the Authority.
	B. Certificate of Site Inspection and Other requirements.
	Other requirements as specified in Section VIII (Checklist of Technical and Financial Documents)
	Site Inspection Certificate shall be part of bid submission. ANS will coordinate for schedule of visit, Certificate of Site Inspection Form (Annex A), and any update. Bidder shall propose the schedule and send the details of their visiting personnel (e.g., name, photocopy of ID). Inspection can be conducted any day of the week from 8:00 am – 5:00 pm
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is <b>Mr. Jay Sandueta</b> , ANS Field Office Chief or his/her any authorized representative at General Santos Airport
	Bids not complying with above instructions shall be disqualified
12	The price of the Goods shall be quoted DDP <b>General Santos Airport, Fatima General Santos, Philippines</b> , or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:

	<ul> <li>a. The amount of not less than Php 203,845.24, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than Php 509,613.10 if bid security is in Surety Bond.</li> </ul>		
15	1. Each and every page thereof shall be initialed/signed by the duly authorized representative/s of the Bidder.  Submitted Eligibility, Technical and Financial documents shall be properly marked with index tabs (ear tab) and must be sequentially paginated in accurate order in the form i.e. "page 3 of 100". Page number of last page of the document (per envelope basis).		
	Pagination should be sequential based on the entire span of the whole documents inside the envelope.		
	Bids not complying with the above instructions shall be automatically disqualified.		
	2. Each Bidder shall submit <b>one</b> (1) original bid.		
21.1	No further instructions		

## 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 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 VII (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**

Special Conditions of Contract						
GCC Clause						
1	The Project Site is at General Santos Airport Filipino-American Friendship Avenue, General Santos City, South Cotabato Philippines					
	Delivery and Documents –					
	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:					
	[For Goods supplied from abroad, state:] "The delivery terms applicable to the Contract are DDP delivered General Santos Airport, Fatima General Santos Philippines. In accordance with INCOTERMS."					
	[For Goods supplied from within the Philippines, state:] "The delivery terms applicable to this Contract are delivered General Santos Airport, Fatima General Santos Philippines. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."					
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).					
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is <b>Mr. Jay R. Sandueta</b> , ANS Field Office Chief for Area 11 <b>or</b> his/her <b>authorized representative.</b>					
	Incidental Services –					
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:  a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; (e.g., start-up are activities that include configuring the equipment and testing its functionality.)  b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;  c. furnishing of accessories/spares for continuous operation of the supplied Goods;					
	<ul> <li>d. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>e. 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; and</li> </ul>					

f. training of the Procuring Entity's personnel, at the on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

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.

#### Spare Parts -

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- 1. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- 2. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI** (**Schedule of Requirements**) and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a **period of 10 years** 

Spare parts or components shall be supplied as promptly as possible, but in any case, within **three** (3) **months** of placing the order.

#### Packaging -

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.

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.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity: Civil Aviation Authority of the Philippines (CAAP)

Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications

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.

#### Transportation -

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.

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.

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.

	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 Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.  Intellectual Property Rights –			
	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.			
2.1	Payment shall be made upon completion or delivery of the Project.			
4.0	The Project requires the contractor to conduct the following test and inspection to identify any abnormalities before the equipment is put into full operation.  a. Transformer performance test (insulation test, short circuit test, open circuit test, polarity test, etc.)  b. Start-up test which includes insulation resistance test, continuity test, grounding system test, and voltage current verification, and functional test)  c. Commissioning test			
5.1	Warranty The Project has a total of <b>2</b> ( <b>two</b> ) <b>year warranty period</b> . This warranty covers a one (1) year full maintenance/service warranty upon the completion of the project [or under defective liability warranty period (DLP)] followed by another one (1) year Service Warranty period.  DLP refers to full maintenance service and replacement of defective parts at no extra cost to the procuring entity.			

## Section VI. Schedule of Requirements

The delivery schedule expressed as week stipulates hereafter a delivery date which is the date of delivery to the project site.

PURCHASE/INSTALLATION OF RUNWAY EDGE LIGHTS (circuit -1) FIXTURES and ACCESSORIES at GENERAL SANTOS AIRPORT.		Completion of Works within Sixty (60) calendar days or eight and a half (8.5) weeks		
Item Number	Description	Quantity	Total	Delivered, Weeks
1	GENERAL REQUIREMENTS			1 week
1.1	Mobilization and Demobilization	1 lot		
2	UNDERGROUND CABLE DUCTS/CONDUITS/GROUNDING SYSTEM (with provisions to layout pipe/cable, and terminate grounding system)			8.5 weeks
2.1	<b>Copper clad grounding rod</b> , 19mmΦ x 3	5 pcs		
2.2	Ground wire, 14 mm² bare copper wire	30 m		
2.3	PVC Conduit, 110 mmΦ schedule 40	5		
2.4	PVC Conduit 63 mmΦ schedule 40	8		
2.5	Exothermic Weld (Graphite Mold and Welding Power)	1 lot		
3	POWER, CONTROL, and MONITORING System, with provision of supply/installation of electrical equipment like REDL's CCR, dry-type transformer, circuit breakers, and panels.			8.5 weeks
3.1	Runway Edge Lights Constant Current Regulator (CCR) Thyristor controlled 15 KVA, 6.6 A, 220-240 VAC input, single phase complete with the following:  - 5 steps brightness control - Local and Remote Control, On/Off switch - Circuit Breaker and Lightning arrester - Open circuit and overcurrent protection - Earth Fault detector - Serial Mode Communication (Jbus/Mod-bus) - Fitting Accessories - Manual in English/Schematic Diagram - Power Cable	1 unit		
3.2	Dry-type Transformer and Wiring Requirements includes the following;	1 lot		

3.3	<ul> <li>480/230V, 20KVA, 60Hz single phase</li> <li>Indoor-type enclosure, floor mounted</li> <li>Mounting Foundation</li> <li>PEC Compliant</li> <li>14 mm² THHN Cu. Wire, 600V, line side cabling</li> <li>22 mm² THHN Cu. Wire, 600V, load side cabling</li> <li>Conduits</li> <li>Grounding system</li> <li>Molded Case Circuit Breaker (MCCB) 60AT, 480V, 2 pole</li> <li>Surface mounted NEMA 3R Metal enclosure</li> </ul>	1 lot	
	- complete with mounting accessories		
3.4	Molded Case Circuit Breaker (MCCB)  100AT, 230V, 60Hz, 2 Pole  - Surface mounted 3R Metal enclosure  - Complete with mounting accessories	1 lot	
4	RUNWAY EDGE LIGHTS (REDL) with provision of supply/installation of REDL lighting fixtures, transformers, and lamps for REDL Circuit - 1		8.5 weeks
4.1	High Intensity Bi-directional Elevated Runway Edge Lights (W/W) complete with  - Dual optical lenses  - Quartz lamps, 150 watts, 6.6 A, 1000 hours  - Frangible body  - Secondary cable assembly with FAA two pole plug	34 units	
4.2	High Intensity Bi-directional Elevated Runway Edge Light (W/Y) or (Y/W) complete with  - Dual optical lenses  - Yellow filter  - Quartz lamps, 150 watts, 6.6, 1000 hours  - Frangible body  - Secondary cable assembly with FAA two pole plug	20 units	
4.3	Isolation Transformer, 150 watts, 6.6A/6.6A, 5 KV, 60 Hz DEB FAA L-830 completely fitted with molded cable assemblies equipped with FAA L-823 connectors and plug with earthing terminal.	54 pcs,	
4.4	<i>Primary connector kit</i> , 54B-E4-E4 with static lock	54 pcs.	

4.5	Rubber tapes, #23	90 pcs.	
4.6	PVC Electrical tape #33	90 pcs	
4.7	Cylinder base top cover with Neoprene gasket and S/S screw	54 pcs	
5	MISCELLANEOUS (start-up testing, commissioning and supply/delivery of tools, appliances, spares, and other related accessories for preventive and corrective maintenance)		8.5 weeks
5.1	Tools/Appliances  - 1 unit of Insulation tester, 2000V, CAT III 1000V x 1  - 2 units of Light Meter	1 lot	
	Spare/Accessories		
5.2	High-intensity bi-directional elevated runway edge lights (W/W) complete with dual optical lenses, quarts lamps (150 watts 6.6A, 1000 hours), frangible body, secondary cable assembly with FAA two pole plug	10 pcs	
5.3	High-intensity bi-directional elevated runway edge lights (Y/W) complete with dual optical lenses, quarts lamps (150 watts 6.6A, 1000 hours), frangible body, secondary cable assembly with FAA two pole plug	10 pcs	

## Section VII. Technical Specifications

## **Technical Specifications**

Section	Specifications	Compliance Statement	Reference to support statement (also INDICATE PAGE No.)
1.	General Requirements		
1.1	Requirements Specifications		
1.1.1	The provisions of General Requirements are applicable to item of systems and are to be referred to in connection with Airfield Lighting Specifications.		
1.1.2	The contract duration shall be <b>sixty (60)</b> calendar days upon receipt of Notice to Proceed.  Delay in the supply/delivery of items specified under Section VI shall be subject for penalties.		
1.1.3	The contractor, unless otherwise specified shall furnish all labor, tools, equipment, materials, supplies, superintendence, and other incidentals and shall perform all operations and maintenance work necessary to the complete the work under the contract.		
1.1.4	The Contractor and/or its authorized representative shall secure <b>a certificate of site inspection</b> from the ANS Facility-In-Charge (or its authorized representative) at General Santos Airport.		
1.1.5	The Contractor shall submit the design document (shop drawings and installation plans) within twenty (20) calendar days to the procuring entity for ANS review/approval upon receipt of Notice-to-Proceed (NTP).		
1.1.6	Referring to item 1.1.5, if there are changes in the approved design, the CAAP must be notified. Reapproval may be requested by the CAAP, if there are changes in the design concept, approach, quantity, size or weight, power requirements, or performance.		
1.1.7	The Contractor shall submit the As-built drawings and plans to the procuring entity within seven (7) days prior to completion and/or delivery of the Project.		
Not less than thirty (30) days prior to the shipment of the related equipment or structures, two (2) final draft copies of installation instructions, drawings and maintenance operation manual shall be submitted to the Engineer for approval			
1.1.9	The Contractor shall prioritize the health and safety of workers and the public while complying with all relevant regulations and standards. This requires the implementation of a comprehensive safety program that includes hazard identification, risk assessment, and control measures. All workers and stakeholders should receive proper training and have access to necessary personal protective equipment. The		

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	worksite should be regularly monitored and evaluated for safety performance."	
1.1.10	The contractor has a duty to ensure the safety of all individuals and to prevent any damage to property in the course of their work or through the actions of their employees. In the event of any injury to persons or damage to property, the contractor shall be held responsible and shall be accountable for addressing any claims made against the Employer as a result of such injury and/or damage.	
1.1.11	The work must be performed to the highest standards and to the complete satisfaction of the Engineer/Project In-charge, who has the authority to reject any work or materials that do not meet the specifications and plans. The work must be carried out under the direction of the Engineer/Project In-charge.	
1.1.12	The contractor is obliged to collaborate fully and work in conjunction with other contractors in instances where their work is interrelated with other sections of the building.	
1.2	<b>Design Specifications</b>	
1.2.1	The Specification concerns the design (where applicable), manufacture, and delivery to Site, carrying out all works, installation and testing at the site, setting in operation & handling over in perfect operating and running condition.	
1.2.2	Works shown in the drawings and not mentioned or described in the Specification, and works described in the Specification and not shown in the drawings shall be considered as included in this scope of works and their execution shall be deemed included in the Contract Price.	
1.2.3	Any matter not provided in the Specification shall be determined through consultation between the CAAP and the Contractor	
1.2.4	The Contractor shall refer to published ATC procedures of General Santos Airport; and Reference Drawings for this Project as installation/design reference of proposed systems	
1.3	Standard Specifications	
1.3.1	The characteristics of the runway edge lighting system installation and other electrical installations shall conform to the following Standards;  1. ICAO Annex 14, Volume 1 latest edition 2. Aerodrome Design Manual, Part 4 latest edition 3. ICAO Aerodrome Design Manual, Part 5 Electrical System – latest edition 4. ICAO Airport Services Manual Part 8 & 9 of the latest edition 5. IEC International Standards (IEC-TC-97) for electrical installations for lighting and beaconing of aerodromes 6. Philippine Electrical Code, latest edition	

	Materials, devices, and smo the national and internation prevalent in the county of adequate modification shall interface with the facilities with the Philippine Electrica		
1.4	Material Specifica	tions	
1.4.1	General Requirements (M	laterials/Equipment)	
1.4.1.1	All materials and supplied/delivered/installed with the requirements in the		
1.4.1.2	The contractor shall be res correct and sufficient que equipment.		
1.4.1.3	The materials / equipment and installed including its a new and of latest model.		
1.4.1.4	The materials / equipment to be supplied/delivered and installed including its ancillaries shall be interchangeable with the components, parts, and accessories of the existing runway edge lighting system.		
1.4.1.5	The materials and equipment shall be open for inspection by the CAAP or his/her authorized representative.		
1.4.1.6	Any materials or equipmen not meeting the requireme or of these specifications sh	ents of relevant standards,	
1.4.2	Operating Conditions		
	Equipment and materials Specifications shall be cap under the following condition	able of working properly	
	Ambient temperature	10°C – 45°C (inside)	
		10°C - 55°C (outside)	
1.4.2.1	Relative humidity	Maximum 95%, inside room	
		Maximum 100%, outside room	
	Wind speed	60 meters/second, max.	
	Rainfall	~2200 mm per year,	
	389 mm/month (highest) up to 210 mm per hour		
1.4.3	Equipment/Materials Warranty Period		
1.4.3.1	The contractor shall be responsible for providing full maintenance and repair services for all the works for the duration of the Defects Liability Period and for a further 12 months period after the issue of the Defect Liability Certificate (the total period to be hereinafter known as the <b>Maintenance and Repair Period</b> .		

1.4.3.2	Maintenance and repair services shall include;  a. Routine maintenance and inspection as recommended in the Operation and Maintenance Manual.  b. Replacement of defective parts and/or spare parts  c. Repair services and emergency repair within 12 hours on-call from the maintenance personnel.	
1.4.3.3	The maintenance and repair services should, as far as is practical, be carried out in the presence of the CAAP personnel to serve as ongoing operational and maintenance training	
1.4.3.4	The contractor is responsible for ensuring that the electrical systems are free from any unintended grounding, poor workmanship, and defective materials, and this guarantee shall remain valid during the maintenance and repair period from the issuance of the Certificate of Completion. Should any defects arise within this timeframe, the contractor must rectify them at their own cost and without receiving further compensation	
1.4.4	Spare parts	
1.4.4.1	The Contractor shall assure the availability of spare parts of the same type substitutes of equal or better quality for at least ten (10) years after the issuance of acceptance certificate. Bidder shall submit Certificate of After Sales Support for at least 10 (ten) years.	
1.4.4.2	All such cases, containers, cable drums or other packages are liable to be opened for such examination as the Engineer may reasonably require, and all such opening and subsequently repacking shall be at the expense of the Contractor.	
1.4.4.3	Upon the approval of materials and equipment, the contractor must present a <b>list of recommended spare parts for a three-year usage</b> of each major piece of equipment supplied by CAAP. The list includes the current unit price and details of the supply source.	
1.4.5	Tools/Instrument	
1.4.5.1	Tools/appliances/measuring instrument for normal maintenance shall be supplied by the Contractor as indicated in the in Section VI.	
1.4.5.2	Each tools/appliance shall be clearly marked with its size and/or purpose where necessary	
1.4.5.3	The tools/appliance with appropriate boxes shall be handed over to the Engineer prior to issuance of the Taking-over Certificate	
1.4.5.4	The tools/appliance supplied shall not be used for erection purposes.	
1.4.5.5	The scope of tools/devices for assembly and maintenance shall include all customary tools/devices and tools which are specially made and/or required for complete assembling, dismantling, adjustment, and maintenance of all equipment.	

1.4.6	Equipment Operation and Protection	
1.4.6.1	Electrical panels shall be of self-contained cubicle type, floor standing or surface mounted with a full front face door, and/or rear access with cable entry from the bottom.	
1.4.6.2	Each electrical equipment shall be separated from another unit by a completely grounded steel plate. High tension and low-tension circuits shall also be separated by a completely grounded steel plate. The housing for the various components shall be constructed of fabricated steel.	
1.4.6.3	Sufficient ventilation should be ensured for the equipment to operate continuously within the specified ambient temperature, while also considering measures to prevent rodent-related issues.	
1.4.6.4	Precautions shall be taken to prevent hysteresis loss and eddy current loss.	
1.4.6.5	All Electrical Equipment shall be provided with a suitable grounding terminal.	
1.4.6.6	All wiring for control panels, circuit breakers, control switches, and similar components shall be executed in a tidy and organized manner, with cables appropriately clear of the panels and other surfaces to ensure airflow.  A. Wiring shall be color-coded as follows;	
	Green – grounding	
	Yellow – all wiring other than grounding cable.	
	B. All small wiring ends shall be marked to discriminate the circuits, voltage, current, fault circuit, etc.	
1.4.6.7	The molded case circuit breakers (MCCB) shall be manually operated, trip free mechanism with electromagnetic or thermal-magnetic type of tripping element.	
1.4.6.8	Equipment shall be provided with lamps that indicate the stage of operation and a lamp test circuit shall be provided on the panel accordingly. Light emitting diode shall be adopted rather than filament lamp.	
1.4.7	Materials/ Equipment Label	
1.4.7.1	All Circuit Breaker and other apparatus and controls shall be labelled in accordance with the requirements of this specifications.	
1.4.7.2	All label shall be Polycarbonate plastic or approved equal, engrave black lettering on white.	
1.4.7.3	Major equipment (e.g., CCR, and transformer) items shall be fitted with a main label mounted in a prominent position	
1.4.7.4	Labels shall designate circuit number and equipment function.	
1.4.7.5	Appropriately worded and sized warning labels engraved white on red shall be fastened to all covers or panels giving access to live equipment. Panels giving	

1.5.1.1	(30) days prior to any test carried out by the Contractor, two (2) sets of detailed test procedures and schedules to the CAAP for consideration and approval. Test procedures shall be comprehensive and	
	The Contractor shall perform all the test activities specified in this Section.  The Contractor shall prepare and submit, at <b>least thirty</b>	
1.5.1	The Contraction of all manifests and the test activities	
1.5	Test Specifications	
	underground to a depth of not less than 1.0m. Grounding resistance of the system shall not exceed 5 ohms.	
1.4.8.9	plates, or rods and connected with the grounding terminal of equipment.  The copper grounding plates and rods shall be installed	
1.4.8.8	Common grounding wire shall be installed in the cable pit. The wire shall be connected to copper grounding	
	manufacture or equivalent thereto  Equipment Grounding	
1.4.8.7	The grounding wires to be used in this work shall be manufactured and tested in accordance with the appropriate standards authorized in the country of	
	Grounding wires	
1.4.8.6	Common Grounding Wires  The lightning protection wires shall be installed above underground cables and power cables for linked circuits	
	its equivalent)	
1.4.8.5	Connections between grounding rods and the grounding cables shall be welded exothermically. (i.e. Cad weld or	
1.4.8.4	The common grounding counterpoise wires of the grounding system and lightning system shall be used for light fitting and light units.	
1.4.8.3	The grounding of equipment, lights, poles and masts shall be made mechanically and electrically to ensure the continuous system, and shall be conductive	
1.4.8.2	The grounding system shall be provided properly for safeguard to the person, equipment, light unit, and fitting etc.	
1.4.8.1	Light fittings, secondary cables, and secondary wires of isolating transformers, electrical ducts, and exterior lighting poles shall be grounded for lightning protection	
	Standard Grounding System	
1.4.8	Electrical Grounding Requirements	
1.4.7.6	Terminal strips shall be labelled to identify the circuit number, phase connection, terminal number and function – e.g., control, indication, protection, etc.	
	access to equipment at voltages of 500V and above shall additionally warn "DANGER – HIGH VOLTAGE".	

	shall demo	onstrate eaui	nme	ent	hara	dw	are compliance	
		requirements						
1.5.1.2	The entire work to be executed by the Contractor is subject to inspection and tests by the CAAP during installation and on completion at the Site, but the approval of the CAAP or the passing of any such inspection or test shall not, however, prejudice the right to reject the items or equipment if they do not comply with the Specification when installed.							
	Tests shall	include the fol	llow	ing:				
1.5.1.3	<ul> <li>Tests at factory by the Contractor/Manufacturer</li> <li>Tests at the Site during construction</li> <li>Start-up test/Commissioning Tests</li> <li>Reliability Tests</li> <li>Other tests</li> </ul>							
		actor should of according to					submit the test able.	
1.5.1.4	Table	1. Test Items	for	Rui	nway	y E	dge Lights	
		Test Item	1	2	3		Standard	
	Detail Composition (Quality)		0				Approved Shop Drawings	
	Appearance Test	& Structure	0		О		-do-	
	Dimensiona		О				-do-	
	Photometric		0			ļ.,	-do-	
	Waterproof Alignment		0	0	0	ŀ	FAA/ICAO spec.  Document for	
							Test and Inspection	
	Operation T	est		0	О		-do-	
	(2) Test (3) Con	t at factory by the t at the Site duri amissioning test	ng co t.	onstr	ructio	n.		
1.5.1.5	Table 2.		r Co (CC		ant (	Cui	rrent Regulator	
		Test Item	•		2	3	Standard	
		n Test (Quality)	0	'		0	Approved Shop Drawings	
	Appearance Test	& Structure	О				-do-	
	Dimensiona	l Test	0				-do-	
	Photometric		О				-do-	
		1) Transitional Response Test		'			-do-	
	Operation Test	2) Soft- starting Test	О				-do-	
		3) Brilliancy Tap Changing- over Test	0	(	)	О	-do-	
		4) Protective	0		)	0	-do-	
	<u> </u>	Device Test 5) Overall Operational	0		)	0	-do-	
		Test						

	T	-		-	T /7G G		
	Insulation Resistance Test	О	0	О	FAA / ICAO Specifications		
	Dielectric Test	0			-do-		
	Notes:	0	- 1		-40-		
	(1) Test at factory by the Contractor/Manufacturer. (2) Test at the Site during construction. (3) Commissioning test.						
1.5.1.6	Table 3. Test Items for Control Equipment				Equipment		
	Test Item Detail	1	2	3	Standard		
	Composition Test	О			Approved Shop		
	(Quality)				Drawings		
	Appearance & Structure Test	О		О	-do-		
	Dimensional Test	0			-do-		
	Insulation Resistance	0		0	-do-		
	Test						
	Operation Test	0	0	0	FAA/ICAO specifications		
	Dielectric Test	0			-do-		
	Notes:  (1) Test at factory by (2) Test at the Site du (3) Commissioning to	aring (					
	Test and Inspection Documents						
1.5.1.7	Prior to test and inspection, the Contractor shall submit the following document for approval;						
	<ol> <li>Complete description procedure of commissioning test at the site.</li> <li>Certified reading and test data results upon completion of each test in four (4) set of copies bound in book form prior to commission testing.</li> </ol>						
1.5.1.8	During the course of site installation, the Engineer shall have full right of making the test and inspection for the work, as he may deem necessary always with the participation of the employer's personnel in all test at site, if so requested by CAAP for the purpose of on-the-job-training. In this case, the Contractor may have part of the test conducted by such personnel but shall assume final responsibilities for test results.						
1.5.2	Electrical Test						
1.5.2.1	The Contractor shall conduct all preliminary field tests and trial operations (except for the final field inspection), which will be witnessed by CAAP. Ensure that all necessary labor, equipment, and materials are provided for the tests. CAAP's engineers / representative/s must be informed in advance of the dates and times for any tests, trial operations, or inspections. If any deficiencies are found, the contractor is responsible for fixing them and retesting the affected work at their own cost. The testing procedure must comply with established standard practices.						
1.5.3	Start-up / Commission	ing T	est				
	.,	9					

1.5.3.1	Commissioning tests of the system shall be carried out after it has been installed and preliminary tested. No commissioning test shall commence without prior approval of the Engineer to the schedule and procedure which are to be followed. At least five (5) working days' notice of the Contractor's readiness to start each site test shall be given to the Engineer.	
1.5.3.2	The contractor shall conduct the commissioning tests which, however, shall be carried out under the direction of the Engineer.	
1.5.4	Reliability Test	
1.5.4.1	When the Contractor considers that the installations are ready for commercial service, the Engineer shall be notified accordingly after the commissioning tests. When the Engineer agrees that the Works are ready for commercial service, each system will be required to operate under the working conditions, either continuously or intermittently as may be convenient, without failure or interruption of any kind for a period of not less than five (5) days.	
1.5.4.2	The system shall be operated by the Employer's staff during the reliability test period, but the Contractor will be allowed to make any minor adjustment which may be necessary, provided that such adjustments do not in any way interfere with, or prevent commercial use by the Employer.	
1.5.5	Other Test	
1.5.5.1	The Contractor shall carry out any test other than specified hereinabove wherever so required by the CAAP. All tests shall be carried out in the presence of the CAAP.	
1.5.6	Retest	
1.5.6.1	Should the systems or any portion thereof fail under test to give the performance required, then any further test(s) which may be considered necessary by the CAAP shall be carried out in a similar manner, but the whole cost of the repeated test(s) shall be borne by the Contractor.	
1.5.7	Rejection	
1.5.7.1	In any item fails to comply with the requirements specified in the Specification in any respect whatsoever at any stage of manufacture, test, erection or on final completion, the CAAP may reject the item or defective component thereof, whichever is considered necessary, and after adjustment or modification as directed by the CAAP, the Contractor shall submit the item for further inspection and/or test. In the event of the defect of any item being of such a nature that the requirements in the Specification cannot be fulfilled by adjustment or modification, such item is to be replaced by the Contractor at his own expense, to the entire satisfaction of the CAAP.	
2.	Detailed Requirements	
2.1	General	

2.1.1	The scope of work includes supply/delivery/installation of runway edge light fixtures, lamps, constant current regulator, transformer, and circuit breakers and panels design to energize circuit – 1 of runway edge lights for Runway 17/35 at General Santos Airport.	
2.1.2	The supply/installation of runway edge light fixtures and accessories for circuit -1 is designed to complete the interleave two circuits system restoring the integrity of the runway edge lighting system.	
2.1.3	The Contractor shall be responsible for the removal and dismantling of materials/ items (e.g. old transformer, old CCR equipment, old cables, structure, and ancillaries, etc.) from the site and its transport to CAAP designated area for storage and/or disposal.	
2.1.4	The Contractor shall provide CAAP an inventory list of all dismantled equipment/ materials prior to transport to CAAP designated area.	
2.1.5	The Bidder shall refer to Schedule of Requirements for minimum requirements; and Reference Drawings for the Project.	
2.2	Underground Cable Ducts, Conduits, and Grounding System Works	
2.2.1	Installation of protection and grounding system includes supply of the following materials; 19 mmФ grounding rod, 14 mm2 bare copper wire, 110 mmФ PVC conduit-schedule 40, 63 mmФ PVC conduit-schedule 40, and exothermic weld (Graphite mold and welding powder)	
2.2.2	Bare copper wires for counterpoise installations shall be stranded or PVC insulated wire with a minimum size of 14mm2. Preference will be given to 600 V polyvinyl-chloride insulated wires for long service life.	
2.2.3	The grounding wires to be used in this work shall be manufactured and tested in accordance with the appropriate Standards authorized in the country of manufacture or equivalent.	
2.3	Power, Control, and Monitoring System	
2.3.1	REDL's Constant Current Regulator (CCR)	
2.2.3.1	The CCR to be supplied/installed has the following specifications; Thyristor controlled of 15 KVA, 6.6A, 220-240 VAC input single phase, complete with following; 5 steps brightness control, local/remote control, on/off switch, circuit breaker and lightning arresters, open circuit and overcurrent protection, earth fault detector, serial mode communication (J-bus/mod-bus), filtering accessories, manual and schematic diagram, and power cable.	
2.3.2	Dry Type Transformer and wiring requirements	
2.3.2.1	The dry type transformer to be supplied and installed has the following specifications; 480/230V, 20kVA, 60Hz, single phase, indoor-type enclosure, floor mounted, mounting foundation, PEC compliant.	
2.3.2.2	Wirings shall include a 14 mm² THHN Cu. Wire, 600V, line side cabling	

2.3.2.3	22mm² THHN Copper wire, 600V, load side cabling	
2.3.2.4	Terminal lugs, conduits, and grounding system	
2.3.3	Molded Case Circuit Breaker (MCCB)	
2.3.3.1	Supply/installation of 60AT, 480V, 60Hz, 2 Pole Surface mounted NEMA 3R metal enclosure MCCB complete with mounting accessories	
2.3.3.2	Supply/installation of 100AT, 230V, 60Hz, 2 Pole Surface mounted NEMA 3R metal enclosure MCCB complete with mounting accessories	
2.4	Runway Edge Light Fixtures &Accessories	
2.4.1	Materials Specifications	
2.3.4.1	Supply/installation (as specified in the drawings) of 34 pcs. of high-intensity bi-directional elevated runway edge lights fixtures (W/W) complete with dual optical lenses, quartz lamps (150 watts, 6.6A, 1000 hours), with frangible body, and secondary cable assembly with FAA two pole plug	
2.3.4.2	Supply/installation (as specified in the drawings) of 20 pcs. of high-intensity bi-directional elevated runway edge lights fixtures (W/Y) complete with dual optical lenses, quartz lamps (150 watts, 6.6A, 1000 hours), with frangible body, yellow filter, and secondary cable assembly with FAA two pole plug	
2.3.4.3	Supply/installation of <b>54 pcs. of isolation transformer</b> with the following rating of 150 watts, 6.6A/6.6A, 5kV, 60Hz, Direct Earth Burial (DEB) FAA L-830 completely fitted with molded cable assemblies equipped with FAA L-823 connectors and plug and with earthing terminal	
2.3.4.4	Supply/installation of 54 pcs. of primary connector kit, 54b-E4-E4 with static lock	
2.4.2	Standard Specifications	
	Light Fittings Installation	
2.4.2.1	Each high intensity light fittings shall be of the bidirectional type with light distribution of an intensity of Category I (see Appendix 2, figure 2.3, and figure 2.4 of ICAO Annex 14) and each light fitting shall employ a Tungsten Halogen lamp of 6.6A, 150 watts, and 1000 hours average rated life	
2.4.2.2	Elevated light fittings shall be subjected to thermal shock test.	
2.4.2.3	Each fitting shall be of lightweight frangible construction suitable for L-867 transformer base and shall be of sufficient strength to withstand aircraft engine blast.	
2.4.2.4	Exterior finished color of elevated light fittings shall be yellow.	
2.4.2.5	Runway edge elevated type light fittings shall be installed on the breakable coupling is to be fitted to the L-867 transformer box in concrete encasement.	
2.4.2.6	Exact position of light fittings to be installed shall be subject to the approval of the CAAP. Prior to erecting the concrete base, the Contractor shall place temporary	

	markings to identify the actual installation positions of the light fittings determined by him, through detailed site survey, against corresponding positions indicated on the drawings, and shall notify the CAAP accordingly.	
	Runway Edge lights Installation	
2.4.2.7	Detailed installation of runway edge lighting fixtures is provided in the drawings as reference to be used in the execution of electrical works.	
2.4.2.8	Runway edge lights shall be placed along the full length of the runway and shall be in in two parallel rows equidistant from the centerline	
2.4.2.9	Runway edge lights shall be placed along the edges of the area declared for use as runway or outside the edges of the area at a distance of not more than 3 meters.	
2.4.2.10	Installation of runway edge lights at both edges of the runway 17/35 shall be uniformly spaced in rows at intervals of not more than 60 meters.	
2.4.2.11	In azimuth, the axis of the beams of the runway edge lights shall be parallel with the edge of the runway.	
2.4.2.12	Primary connectors shall be provided for termination to isolation transformers at approximately 60 meters interval.	
2.4.2.13	The overall height of elevated light shall not exceed 600 mm above ground level.	
	Brilliancy Control and Power Supply	
2.4.2.14	The runway edge lighting system shall be controlled in five (5) brilliancy steps of 100%, 25%, 5%, 1%, and 0.2% of the full brilliance control at the ANS powerplant and the control tower. The remote-control panel shall be interfaced with the new CCR.	
2.4.2.15	The runway edge lighting circuit no.1 shall be supplied from the old ANS power house operating on a constant current high voltage series loop circuit of 6.6 A at 100 percent brilliance.	
	Extension Cables-Secondary (600V, 2 PNCT Cable) and Wires to the Light Fitting.	
2.4.2.16	The extension cable between the isolating transformer and light fitting shall be 4.0 mm <sup>2</sup> double-conductors, ethylene-polypropylene rubber insulated, polychloroprene sheathed portable cable. 2 PNCT Cable shall be manufactured in accordance with JIS-C 3327.	
2.4.2.17	The secondary cables shall be provided either with a factory molded receptacle or factory molded plug, depending upon their location	
	Plugs and Receptacle	
2.4.2.18	Plugs and receptacles for the 5kV and 3kV single-conductor cables shall be designated for 25A current, and for the 600V, two-conductor cables for 20A.	
2.4.2.19	The plug and receptacle shall be water tight and will withstand continuous use under the designed ambient temperature range. The connector plug and receptacle shall resist a pulling force equal to a static weight of 5 kg	

	without becoming disconnected. All plugs and receptacles shall be identical and of uniform manufacture.	
2.4.2.20	Plug and receptacles shall be manufactured in accordance with ICAO Standard.	
2.4.2.21	The receptacle and the plug shall be factory molded on the cable end.	
	<u>Isolation Transformers</u>	
2.4.2.22	Isolating transformer shall be manufactured in accordance with ICAO Standard.	
2.4.2.23	The types and characteristics of the isolating transformer to be installed are given in the Materials Specifications under this section.	
2.4.2.24	All isolating transformers shall be suitable for use on series circuits with a current of 6.6 amperes.	
2.4.2.25	All isolating transformers shall be completely waterproof, shall withstand continuous use under the designated ambient temperatures and shall be suitable for burying in the ground or setting in transformer boxes, as required. Each transformer shall be completely sealed together with the lead cable joints, in black vulcanized rubber with polychloroprene sheathing of 7 mm or more in thickness to ensure water tightness.	
2.4.2.26	Two primary lead cables and one secondary lead cable shall be attached to the isolating transformer.	
2.4.2.27	The primary lead cables shall be 340mm +/- 30mm in length, single cored, 8 mm2 PN cables, the one with a receptacle and the other with a plug. The receptacle and the plug shall be factory molded.	
2.4.2.28	The secondary lead cable shall be of 600V 2 x 3.5 mm2 2 PNCT, 1100 mm +/- 50 mm in length in principle, and provided with a factory-molded receptacle. Isolating transformers shall show rating information. The Contractor shall examine necessary length of the secondary lead cable in consideration of the overall height of light.	
2.5	Miscellaneous	
2.5.1	Spare/tool and other accessories	
2.5.1.1	Supply/delivery/testing of one (1) insulation tester, 2000V, CAT III for preventive/corrective maintenance of runway lights	
2.5.1.2	Supply/delivery/testing of two (2) units of light meter for preventive maintenance of runway lights.	
2.5.1.3	Supply/delivery/testing of 10 pcs of high-intensity bi- directional runway edge lights (W/W) complete with dual optical lenses, quartz lamps (150 watts, 6.6A, 1000 hrs.), frangible body, and secondary cable assembly with two pole FAA plug.	
2.4.2.28	Supply/delivery/testing of 10 pcs of high-intensity bi- directional runway edge lights (Y/W) complete with dual optical lenses, quartz lamps (150 watts, 6.6A, 1000 hrs.), frangible body, and secondary cable assembly with two pole FAA plug.	

2.6	Other Additional Requirements	
2.6.1	Contractor's Facility	
2.6.1.1	The contractor must supply temporary accommodations for the workers assigned at the job site. The temporary shelter should be made of wooden material with a galvanized iron roof or a containerized shelter. Shelter whether made in wooden material or containerized must include cabinets for a first-aid kit and a fire extinguisher. The contractor is responsible for arranging necessary requirements and covering the costs for electrical power and water to the temporary facilities	
2.6.2	Manpower Requirements	
2.6.2.1	The Contractor shall be responsible for the site preparation of the facility that is necessary for the installation of the runway edge lights fixtures for circuit no. 1 of runway edge lightings at General Santos Airport and other related circuits/equipment.	
2.6.2.2	The Contractor shall supply qualified, experienced, skilled workers and sufficient number of manpower to meet the Project 's schedule of activities/completion as agreed in the contract between CAAP and the Contractor.	
2.6.3	Airport Safety and Security	
2.6.3.1	The Contractor and its authorized personnel shall strictly comply/adhere with the safety and security requirements of the General Santos Airport safety and security policies when entering the airport premises both airside and landside areas.	
2.6.4	Operation and Maintenance Manual	
2.6.4.1	The contractor shall furnish the necessary Operation and Maintenance Manuals covering all systems and equipment in the scope or work in three (3) bound copies. "OPERATION AND MAINTENANCE MANUAL" shall indicate in the cover as well as the name of equipment.	
2.6.5	Maintenance Personnel Training	
2.6.1	The contractor shall conduct a 3-day or a total of 24 hours training session to maintenance personnel (ALPT.).	
2.6.2	Topics covered in the training includes overview in the operation/maintenance of newly installed equipment such as runway edge lighting system and relevant subsystem (e.g., CCR, Transformer, and Ground-aids power plant operation	
2.6.3	A Training Certificate shall be given or issued to those participants who completed the 24 hours training session by the contractor.	

# Section VIII. Checklist of Technical and Financial Documents

## **Checklist of Technical and Financial Documents**

### I. TECHNICAL COMPONENT ENVELOPE

#### Class "A" Documents

<u>Leg</u>	<u>Legal Documents</u>				
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages)			
		in accordance with Section 8.5.2 of the IRR;			
$T_{oi}$	chnice	al Documents			
$\Box$	(b)	Statement of the prospective bidder of all its ongoing government and private			
_	(-)	contracts, including contracts awarded but not yet started, if any, whether			
		similar or not similar in nature and complexity to the contract to be bid; and			
	(c)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar			
		to the contract to be bid, except under conditions provided for in Sections			
		23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the			
	(4)	relevant period as provided in the Bidding Documents; and			
Ш	(d)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of			
		Notarized Bid Securing Declaration, ; and			
	(e)	Conformity with the Technical Specifications, which may include			
		production/delivery schedule, manpower requirements, and/or after-			
		sales/parts, if applicable; and			
	(f)	Original duly signed Omnibus Sworn Statement (OSS), and if applicable,			
	(1)	Original Notarized Secretary's Certificate in case of a corporation,			
		partnership, or cooperative; or Original Special Power of Attorney of all			
		members of the joint venture giving full power and authority to its officer to			
		sign the OSS and do acts to represent the Bidder.			
	(g)	Certification under oath attesting that they have no pending case(s) against			
		the Government, in addition to the eligibility requirements for bidders as			
		prescribed under the 2016 Revised Implementing Rules and Regulations (revised IRR) of RA9184			
		(levised litte) of little for			
	(h)	Legal Clearance to be issued by the CAAP Enforcement and Legal Service			
		with respect to the non-pendency of any cases of prospective bidders against			
		the Authority.			
	(i)	The following documents shall be submitted together with the Technical			
		Proposal:			
П		1. Certificate of Site Inspection, <b>Annex A</b> duly signed by the ANS Facility-in-			
		Charge of General Santos Airport or his/her duly authorized representative; and			
		This shall include all of the following documents as attachment to the Certificate of Site Inspection;			
		Certificate of Site hispection,			
		a. Copy of company ID of the person who conducted the site inspection;			
		and			

		<ul> <li>b. Copy of the airport/facility visitor's logbook appearing the names and signatures of inspectors; <u>and</u></li> </ul>	
		c. Picture of the proposed site including the personnel who conducted the site inspection together with the ANS Facility-in-Charge or his/her duly authorized representative; <b>and</b>	
	2	Single line diagram or Electrical Layout showing equipment/devices supplied.	
	3. Certificate of exclusive or authorized distributorship issued by the original equipment manufacturer (OEM) of equipment to be supplied.		
	4	Bid Bulletin (if any)	
Fin	ancial	<u>Documents</u>	
	(j)	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.	
		Class "B" Documents	
	(k)	If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence <u>or</u> duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.	
II. FIN	ANCI	AL COMPONENT ENVELOPE	
	(1)	Original of duly signed and accomplished Financial Bid Form, ; and	
	(m)	Original of duly signed and accomplished Price Schedule(s),	
<u>Oth</u>	ier doc	umentary requirements under RA No. 9184 (as applicable)	
	(n)	[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.	
	(0)	Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.	

### **CERTIFICATE OF SITE INSPECTION**

This is to CERTIFY that [Bidder's Name or Bidder's Representative], [Position] of [Company's Name], has conducted the required Site Inspection for the bidding of the project Purchase/Installation of Runway Edge Light Fixtures (Circuit – 1) and Accessories at General Santos Airport.

Issued this (dd/mm/yyyy)	
	Facility In-Charge or Authorized
	Representative

