

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Procurement of GOODS

Government of the Republic of the Philippines

Procurement of Geographical Information
System

Project Identification Number:
DOT-BAC-IB NO. 2024-037

**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

Procurement of Geographical Information System DOT-BAC-IB NO. 2024-037

1. The *Department of Tourism (DOT)*, through the *General Appropriation Act 2024* intends to *Twenty-Three Million Pesos (PhP 23,000,000.00) inclusive of applicable taxes*, being the ABC to payments under the contract for *“Procurement of Geographical Information System”*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *DOT* now invites bids for the above Procurement Project. Delivery of the Goods is required **10 calendar days upon receipt of notice to proceed**. Bidders should have completed, within *ten (10) 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 the Bids and Awards Committee (BAC) Secretariat through the contact details given below and inspect the Bidding Documents as posted on the websites of the DOT and the Philippine Government Electronic Procurement System (PhilGEPS).
5. A complete set of Bidding Documents may be acquired by interested Bidders from *November 16, 2024 to December 06, 2024 (8:00 a.m. to 5:00 p.m.)* and *December 09, 2024 (until 9:00 a.m.)* from the given address and website(s) 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-Five Thousand Philippine Pesos (PhP25,000.00) OR deposited to:*

Account Name	Department of Tourism-Regular Trust
Account Number	00-0-05002-407-4
Beneficiary's Bank	Development Bank of the Philippines (DBP)
Bank Branch	F. Zobel Branch
Address	809 J.P Rizal corner F. Zobel St., Makati City, Philippines

(Note: Pls. send copy of the Transaction report or any proof of payment at the email address vccervantes@tourism.gov.ph)

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of DOT, provided that **bidders shall pay the non-refundable fee for the Bidding Documents not later than the submission of their bids.**

6. The **DOT** will hold a Pre-Bid Conference on **November 25, 2024 at 1:00 p.m.** at the **4th Floor, Conference Room, DOT Bldg., No. 351 Sen. Gil Puyat Avenue, Makati City**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission **on or before December 09, 2024 at 9:00 a.m. only** at the office address indicated below. 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 **December 09, 2024 at 11:30 a.m.** at the **4th Floor, Conference Room, DOT Bldg., No. 351 Sen. Gil Puyat Avenue, Makati City**.
10. All documents shall be current and updated and any missing document in the checklist is a ground for outright rejection of the bid. Bidder shall submit **one (1) original** and **five (5) photocopies** of the first and second components of its bid in sealed envelope.

To facilitate the evaluation of the bids, bidders are advised to follow the arrangement in the checklist when placed in an Envelope, with documents bounded, tabbed and labeled accordingly.
11. The **DOT** 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 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:
Mr. GODOFREDO R. MALDONADO, JR.
Head, DOT-BAC Secretariat
Procurement Management Division
4th Floor, DOT Bldg.
351 Sen. Gil Puyat Ave., Makati City
Telephone Nos. 8459-5200 to 30 Loc. 425
Email Address: dot.bac@tourism.gov.ph
Website Address: www.tourism.gov.ph
13. You may visit the following websites:
For downloading of Bidding Documents: **www.tourism.gov.ph /www.philgeps.gov.ph**

(Original Signed)
USEC. FERDINAND C. JUMAPAO
DOT-BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

- I. The Procuring Entity, **Department of Tourism**, wishes to receive Bids for the **Procurement of Geographical Information System** with Project Identification Number **DOT-BAC-IB NO. 2024-037**.

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 FY 2024 in the amount of **Twenty-Three Million Pesos (PhP 23,000,000.00)**. The period for the performance of the obligations under the Contract shall not go beyond the validity of the appropriation for the Project.
- 2.2. The source of funding is the FY 2024 General Appropriations Act.

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.
- 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 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.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on **November 25, 2024 at 1:00 p.m.** at the **4th Floor, Conference Room, DOT Bldg., No. 351 Sen. Gil Puyat Avenue, Makati City**, 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 **ten (10) 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 Declaration 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 *one hundred twenty (120) calendar days from the date of opening of bids*. 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 as indicated in *paragraph 10 of the IB*. 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

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

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 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

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

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 style="list-style-type: none"> a. project with the same nature as the project to be bid; b. completed within <i>ten (10)</i> years prior to the deadline for the submission and receipt of bids.
7.1	<i>Subcontracting is not allowed.</i>
12	<i>Not applicable</i>
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: <ul style="list-style-type: none"> a. The amount of not less than <i>PhP 460,000.00</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>PhP 1,150,000.00</i>, if bid security is in Surety Bond.
19.3	<i>No further instructions</i>
20	<i>No further instructions</i>
21	<i>No further instructions</i>

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

- 6.1. 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.
- 6.2. 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>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 Project Site is: Mr. Paul Brian Lao Project Officer pdlao@tourism.gov.ph</p>
2.2	<i>Partial payment is not allowed.</i>
4	<i>The deliverables shall be subject to the inspection and acceptance of the Project Officer.</i>

Section VI. Schedule of Requirements

Section VI. Schedule of Requirements

Item No.	Description	Quantity	Total	Delivered, Weeks/Months
1	Procurement of Geographical Information System	1 lot	1 lot	<ul style="list-style-type: none"> • Delivery of Subscription is 10 calendar days upon receipt of notice to proceed • Helpdesk support for One year • Field Data Collection and Management Using ArcGIS (Workshop) 20pax • Two (2) GIS Chief Project lead acts as the overall in charge of the Department of Tourism GIS project for one (1) year contract

*More detailed service requirements and technical specifications are found under Section VII. Technical Specifications. *

Conforme:

Name of Bidder's/Representative

Signature

Date

Section VII. Technical Specifications

Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[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</i></p>

		<p><i>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></p>
	<p>Scope of the Services</p> <p>The IT Supplier shall provide and comply to the following:</p> <ol style="list-style-type: none"> 1. Shall deliver the following subscription maintenance and requirements: <ul style="list-style-type: none"> • 1 x Enterprise Standard up to Four Cores License • 3 x Desktop Standard Single Use • 3 x GIS Pro Standard Online Annual Subscription • 14 x Desktop Basic Single Use • 14 x GIS Pro Basic Online Annual Subscription • 5 x 3D Analyst for Desktop Single Use • 5 x 3D Analyst for GIS Online Annual Subscription • 5 x Spatial Analyst for Desktop Single Use License • 5 x Spatial Analyst for GIS Online Annual Subscription • 1 x GIS Insights in ArcGIS Enterprise • 40 x Enterprise Mobile Worker License • 5 x GIS Online Creator Annual Subscription 2. The IT supplier shall provide a flexible framework to help the organization reach its vision and meet business objectives and maximize your organization's GIS investment WITH CLOUD STORAGE AND BUNDLED NAMED USER WITH SERVICE CREDITS- Clarification on service credits: Equivalent online credits to purchase online services such as cloud storage, special tools and map styles. 3. The IT Supplier must be a <i>certified distributor of the software</i> or brand being offered. 	

	<ol style="list-style-type: none"> 4. The IT Supplier must provide security control FedRAMP Tailored Low—GIS Online Certification that maps to National Institute of Standards and Technology Special Publication 800-53 (Rev. 4) which maps to the ISO 27001 5. Delivery service shall be free of charge; Delivery at DOT main office, 351 Sen Gil Puyat Ave Makati City. 6. The IT supplier should have provided GIS software and components within the past 10 years, the value of which has at least 50% of the ABC cost of the project 7. The IT supplier must have a good track record and submit organizational structure and ISO 9001. 8. The IT supplier must provide a warranty statement granting technical support services for 12 months through phone, email and onsite which will start being served right after delivery. 9. The IT supplier shall have at least ten (10) years extensive experience in using, installing and configuring the GIS software with technical support personnel certified as GIS Specialists by the software manufacturer. 10. The IT supplier shall have at least ten (10) years of experience in implementing GIS projects for national governments agencies. 11. The IT supplier must provide/shall have a training facility with at least ten (10) years of experience in providing related training courses and with trainers who are certified to conduct software training by the software manufacturer. 12. The IT supplier must provide trainer/s who are certified by the GIS manufacturer and at least one (1) GIS Specialist to teach GIS. <ul style="list-style-type: none"> • Certified in Courses: <ul style="list-style-type: none"> ○ ArcGIS Desktop Associate 10.3 ○ Enterprise Geodata Management Associate 10.5 ○ Enterprise Geodata Management Professional 19.001 ○ CompTIA CTT+ Classroom Trainer 	
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Technical Specification

Enterprise GIS

The Enterprise GIS must let users access powerful mapping and analytics and share geospatial data from a web browser. The Enterprise GIS should be deployable in various platforms—behind the firewall or in the cloud. It should be able to provide GIS capabilities to users the organization to improve workflows and deliver better results.

The Enterprise GIS should provide the following:

- **A secure enterprise deployment**— the Enterprise GIS is a secure, enterprise-ready GIS platform. It should be able to integrate with existing identity stores to provide a seamless experience for the users
- **Data management**— the Enterprise GIS should give users secure access to the data they need for their maps, analytics, and decisions. Existing databases can be used to store and manage enterprise data. It can also be configured with ready-to-use data storage that doesn't require additional administration or cost. In addition, it should provide access to a curated collection of basemaps, imagery, and authoritative maps and data.
- **Mapping and visualization**—With Enterprise GIS, users can visualize their data spatially, helping them see patterns and connections. Users should be able to showcase their data through simple web maps, tailored web pages, ready-to-use apps, and custom apps for any device. Users should also be able to share their maps and apps with others—within the organization, colleagues in other organizations, and members of the public.
- **Spatial analytics**— the Enterprise GIS should provide analytic tools that help users uncover spatial relationships, find the best locations and routes, detect patterns and hot spots, and model predictions.

The Enterprise GIS is an important part of the GIS platform. It should allow users to organize, manage, analyze, and share their enterprise content while maintaining complete control over data security and access.

Desktop GIS

The Desktop GIS should be a next-generation professional desktop GIS software. The Desktop GIS software must provide the tools to create 2D and 3D maps, perform spatial analysis, integrate and manage data, and process imagery. It should also be able to connect to the Enterprise GIS and Cloud GIS, allowing users to access, publish, and share maps and other hosted services, both within the organization and online. The Desktop GIS should provide a broad set of professional authoring, editing, and analysis tools that turn data into authoritative maps.

Specifically, the Desktop GIS should have the following capabilities:

I. Mapping—Map Interaction

1) Map Navigation

- (a) The GIS desktop software must allow users to pan around the map.
- (b) The GIS desktop software must allow users to zoom in and out of the map.
- (c) The GIS desktop software must allow users to zoom to the extent of a specified layer.
- (d) The GIS desktop software must allow users to save and manage map views.
- (e) The GIS desktop software must allow users to pan and zoom to selected features.
- (f) The GIS desktop software must support a movable window that shows a view of the full extent of the map (overview window).

2) Queries

- (a) The GIS desktop software must allow users to identify features on the map.
- (b) The GIS desktop software must allow users to measure distances and areas on the map.
- (c) The GIS desktop software must allow users to build queries that find and select features based on their geographic location.
- (d) The GIS desktop software must allow users to build queries that find and select features based on their specific attributes.
- (e) The GIS desktop software must allow users to use hyperlinks contained in attribute data.

3) Find Features

- (a) The GIS desktop software must allow users to find the closest specified feature.
- (b) The GIS desktop software must allow users to find features within a set distance.
- (c) The GIS desktop software must allow users to find features by attribute value.
- (d) The GIS desktop software must allow users to find features by point.
- (e) The GIS desktop software must allow users to find features by drawing a line.
- (f) The GIS desktop software must allow users to find features by drawing a polygon.
- (g) The GIS desktop software must allow users to find drive-time polygons.
- (h) The GIS desktop software must allow users to find drive distance polygons.

II. Mapping—Map Display

1) General Mapping

- (a) The GIS desktop software must allow users to view a page layout of the map.
- (b) The GIS desktop software must allow users to visualize a specific set of data.
- (c) The GIS desktop software must have the ability to interactively display data stored in different projections on the same map.
- (d) The GIS desktop software must allow users to set the transparency properties of different data layers.
- (e) The GIS desktop software must allow users to specify minimum and maximum scales for displaying data.
- (f) The GIS desktop software must allow users to clip the map display to a feature or graphic.
- (g) The GIS desktop software must allow users to create graticules.
- (h) The GIS desktop software must allow users to create measured grids.
- (i) The GIS desktop software must allow users to create reference grids.
- (j) The GIS desktop software must allow users to add layers on the fly.
- (k) The GIS desktop software must allow users to change the rendering of layers “on the fly”.
- (l) The GIS desktop software must allow users to change the rendering of layers permanently.
- (m) The GIS desktop software must allow users to change the order in which layers are drawn.

	<p>2) Tabular Data</p> <ul style="list-style-type: none"> (a) The GIS desktop software must allow users to create on the Fly Dynamic Joins between different Databases. (b) The GIS desktop software must allow users to create and use one-to-many relationships. (c) The GIS desktop software must be able to generate statistics for tabular data. (d) The GIS desktop software must be able to summarize tabular data. (e) The GIS desktop software must allow users to sort tabular data by multiple attributes. (f) The GIS desktop software must allow users to connect to and work with remote database tables. (g) The GIS desktop software must allow users to display tabular x,y point data on a map. <p>3) Vector Data Display</p> <ul style="list-style-type: none"> (a) The GIS desktop software must allow users to specify the color in which selected data is displayed. (b) The GIS desktop software must allow users to set scale dependencies for symbology. (c) The GIS desktop software must allow users to interactively exclude specific features from the display. (d) The GIS desktop software must allow users to control which data fields are accessible from the map. <p>4) Thematic Vector Data Classification</p> <ul style="list-style-type: none"> (a) The GIS desktop software must be able to draw features with a single symbol. (b) The GIS desktop software must be able to draw features based on the attribute values that identify them. (c) The GIS desktop software must be able to draw features using graduated colors. (d) The GIS desktop software must be able to draw features using graduated symbols. (e) The GIS desktop software must be able to draw features using proportional symbols. (f) The GIS desktop software must be able to draw features using dot-density symbols. (g) The GIS desktop software must be able to symbolize features by pie and bar charts. (h) The GIS desktop software must be able to symbolize features based on multiple attributes at the same time. 	
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	<p>(i) The GIS desktop software must provide an interactive histogram for data classification.</p> <p>5) Symbology</p> <p>(a) The GIS desktop software must allow users to interactively compose symbols.</p> <p>(b) The GIS desktop software must allow users to control draw order.</p> <p>(c) The GIS desktop software must contain a library of pre-defined symbols.</p> <p>(d) The GIS desktop software must be able to use custom predefined symbols.</p> <p>(e) The GIS desktop software must allow users to create symbol halos.</p> <p>(f) The GIS desktop software must allow users to define symbols for fill, lines, outlines, and points.</p> <p>(g) The GIS desktop software must support user-imported graphic fill patterns.</p> <p>(h) The GIS desktop software must support custom TTF markers.</p> <p>6) Elevation Surface Display</p> <p>(a) The GIS desktop software must be able to display faces, nodes, and triangles.</p> <p>(b) The GIS desktop software must be able to display slope.</p> <p>(c) The GIS desktop software must be able to display hill shade.</p> <p>(d) The GIS desktop software must be able to display aspect.</p> <p>(e) The GIS desktop software must be able to display elevation.</p> <p>(f) The GIS desktop software must allow users to interactively determine the position of a light source in order to customize surface display.</p> <p>III. Mapping – Page Layout and Printing</p> <p>1) Map Printing</p> <p>(a) The GIS desktop software must support the following export formats for map documents:</p> <p>(i) Map titles</p> <p>(ii) Text on the map layout</p> <p>(iii) Neatlines</p> <p>(iv) Legends</p> <p>(v) North arrows</p> <p>(vi) Scale bars</p> <p>(vii) Scale text</p> <p>(viii) Pictures</p> <p>(ix) OLE objects</p>	
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	<ul style="list-style-type: none"> a. Measured reference grid b. Graticules (b) The GIS desktop software must support the following export formats for map documents: <ul style="list-style-type: none"> (i) Enhanced Metafile (EMF) (ii) Windows Bitmap (BMP) (iii) Encapsulated PostScript (EPS) (iv) Tagged Image File Format (TIFF) (v) Portable Document Format (PDF) (vi) Joint Photographics Experts Group (JPEG) (vii) Portable Network Graphics (PNG) (viii) Graphic Interchange Format (GIF) (ix) Scalable Vector Graphics (SVG) (x) Adobe Illustrator (AI) (xi) PostScript Color Separates (with page marks) (xii) Delivery Methods (c) The GIS desktop software must be able to deliver exported maps by providing a URL to the file location on the server. (d) The GIS desktop software must be able to stream MIME data directly to client. <p>2) Printing</p> <ul style="list-style-type: none"> (a) The GIS desktop software must allow users to print using standard Windows print drivers. (b) The GIS desktop software must allow users to print using PostScript. (c) The GIS desktop software must allow users to process print jobs on a server for faster printing. <p>IV. Mapping – Map Text</p> <p>1) Labels</p> <ul style="list-style-type: none"> (a) The GIS desktop software must support dynamic, on-the-fly labeling. (b) The GIS desktop software must automatically detect conflict during label placement. (c) The GIS desktop software must support placement rules to specify the importance of labels over features. (d) The GIS desktop software must allow label placement rules to set the importance of labels versus features. (e) The GIS desktop software must include a library of pre-defined label styles. (f) The GIS desktop software must support pre-defined dynamic labeling schemes for each map layer. (g) The GIS desktop software must allow users to control which features in a layer display labels. <p>2) Annotation</p>	
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	<ul style="list-style-type: none"> (a) The GIS desktop software must support geodatabase annotation. (b) The GIS desktop software must support feature-linked annotation. (c) The GIS desktop software must support callouts for labels. (d) The GIS desktop software must spline tools for labels. (e) The GIS desktop software must allow users to use paragraph labels. (f) The GIS desktop software must allow users to create text annotation data from labels. <p>3) Annotation Editing</p> <ul style="list-style-type: none"> (a) The GIS desktop software must allow users to interactively move annotation. (b) The GIS desktop software must allow users to interactively rotate annotation. (c) The GIS desktop software must allow users to interactively scale annotation. (d) The GIS desktop software must allow users to add horizontal or angled annotation. (e) The GIS desktop software must allow users to create annotation that follows a curved line. (f) The GIS desktop software must allow users to create annotation that follows the shape of an existing feature. (g) The GIS desktop software must be able to dynamically pull annotation values from layers in the map. (h) The GIS desktop software must allow users to interactively manage annotation that could not be placed during initial annotation creation. (i) The GIS desktop software must allow users to independently edit each word in an annotation string. (j) The GIS desktop software must allow users to flip annotation strings. (k) The GIS desktop software must allow users to interactively modify the curvature and orientation of a line. <p>4) Annotation and Dimension Management</p> <ul style="list-style-type: none"> (a) The GIS desktop software must be able to store annotation in a geodatabase or map document. (b) The GIS desktop software must allow users to create annotation subclasses. (c) The GIS desktop software must allow users to create aligned dimensions which display the true distance between points. 	
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- (d) The GIS desktop software must allow users to create linear dimensions which display horizontal, vertical, or an angular distance between points.
- (e) The GIS desktop software must allow users to create and edit feature-linked annotation feature classes in a geodatabase.

V. Mapping—Address Matching

- 1) Geocoding Tool
 - (a) The GIS desktop software must be able to geocode single addresses.
 - (b) The GIS desktop software must be able to return an address or intersection when users provide an x,y coordinate (reverse geocoding).
 - (c) The GIS desktop software must support batch geocoding.
 - (d) The GIS desktop software must provide tools to process addresses that cannot be found.
 - (e) The GIS desktop software must be able to use multiple geocoding services (indexes) per data source.
 - (f) The GIS desktop software must be able to aggregate multiple geocoding services into a single geocoding service (composite locator).

VI. Data Management

- (a) The GIS desktop software must allow users to create dynamic features from geocoded locations.
- (b) The GIS desktop software must persist geocoded locations as a permanent dataset.

VII. Mapping – Routing

- 1) Routing Capabilities
 - (a) The GIS desktop software must accommodate nationwide USA multipoint street routing.
 - (b) The GIS desktop software must accommodate North American (United States and Canada) multipoint street routing.
 - (c) The GIS desktop software must allow users to find quickest routes.
 - (d) The GIS desktop software must allow users to find shortest routes.
 - (e) The GIS desktop software must allow users to optimize the ordering of midpoints along a route.
 - (f) The GIS desktop software must be able to generate routes that avoid traffic or other barriers.

- (g) The GIS desktop software must be able to generate driving directions.
- (h) The GIS desktop software must be able to generate turn-by-turn maps.
- (i) The GIS desktop software must allow users to select highway preference along routes.

VIII. Data Support and Interoperability—Raster

- 1) The GIS desktop software must support direct read of the following raster formats:
 - (a). Arc Digitized Raster Graphics (ADRG)
 - (b). ArcSDE Rasters
 - (c). Band Interleaved by Line (ESRI BIL)
 - (d). Band Interleaved by Pixel (ESRI BIP)
 - (e). Band Sequential (ESRI BSQ)
 - (f). BMP
 - (a). Device Independent Bitmap (DIB)
 - (b). Microsoft Windows Bitmap
 - (c). Compressed ARC Digitized Raster Graphics (CADRG)
 - (d). Controlled Image Base (CIB)
 - (e). DIGEST
 - (f). ASRP
 - (g). Universal Polar Stereographic (UPS)
 - (h). Universal Transverse Mercator (UTM)
 - (i). Standard Raster Product (USRP)
 - (j). Digital Terrain Elevation Data (DTED)
 - (k). ER Mapper
 - (l). ERDAS 7.5 GIS
 - (m). ERDAS 7.5 LAN
 - (n). ERDAS RAW
 - (o). Graphic Interchange Format (GIF)
 - (p). Intergraph Raster Files: CIT—Binary Data
 - (q). Intergraph Raster Files: COT—Grayscale Data
 - (r). Joint Photographics Experts Group (JPEG)
 - (s). Joint File Interchange Format (JFIF)
 - (t). JPEG 2000
 - (u). Multiresolution Seamless Image Database (MrSID Gen. 2 and 3)
 - (v). National Imagery Transmission Format (NITF)
 - (w). Portable Network Graphics (PNG)
 - (x). The GIS desktop software must support direct read and write of the following raster formats:
 - (y). ERDAS IMAGINE
 - (z). ESRI GRID and GRID Stack
 - (aa). Tagged Image File Format (TIFF)
 - (bb). Display

- 2) The GIS desktop software must be able to display multiband images by assigning RGB values to the bands.
- 3) The GIS desktop software must support individual band settings.
- 4) The GIS desktop software must display each unique value with a discrete color.
- 5) The GIS desktop software must display image values using a color map.
- 6) The GIS desktop software must display multiband raster data using RGB values.
- 7) The GIS desktop software must be able to save current display statistics to an XML file.
- 8) The GIS desktop software must allow users to control raster display contrast and brightness.
- 9) The GIS desktop software must be able to display raster catalog tiles as a time series.
- 10) The GIS desktop software must allow users to import renderers or statistics from another layer.
- 11) The GIS desktop software must support the following algorithms for contrast stretches:
 - 1) Standard deviation
 - 2) Histogram equalize
 - 3) Minimum-maximum
 - 4) Display Statistics
- 12) The GIS desktop software must be able to display statistics based on the entire raster dataset.
- 13) The GIS desktop software must be able to display statistics based on the display extent.
- 14) The GIS desktop software must be able to display statistics based on a custom extent.
- 15) The GIS desktop software must support the following display resample methods:
 - 1) Nearest neighbor
 - 2) Bilinear interpolation
 - 3) Cubic Convolution
- 16) The GIS desktop software must support the following display classification methods:
 - 1) Interval
 - 2) Defined Interval
 - 3) Quantile
 - 4) Natural breaks (Jenks)
 - 5) Standard Deviation

IX. Data Support and Interoperability—Document and Data Support

- 1) Map and Symbology Files
 - (a) GIS desktop software must read published map files.

- (b) The GIS desktop software must allow users to create and edit map documents.
- (c) The GIS desktop software must allow users to leverage map templates to standardize maps.

X. Data Support and Interoperability—Data Sources

- I. The GIS desktop software must be able to read the following data types:
 - (a). Geodatabase
 - (b). Shapefiles
 - (c). Smart Data Compression (SDC) data
 - (d). Vector Product Format (VPF) data
 - (e). Web services
 - (f). ArcGIS Server services
 - (g). OGC Web Map Server (WMS)
 - (h). OGC Web Feature Service (WFS)
- 2) The GIS desktop software must be able to directly edit the following data sources:
 - (a). Personal geodatabase simple features
 - (b). Personal geodatabase simple features checked out from a multiuser geodatabase
 - (c). Shapefiles
 - (d). Multiuser geodatabase features
 - (e). The GIS desktop software must support direct read of the following CAD data formats:
 - (f). Autodesk Drawing Exchange Format (DXF)
 - (g). AutoCAD drawing file (DWG)
 - (h). MicroStation DGN files
- 3) The GIS desktop software must support direct read of the following additional formats:
 - (a). Text (TXT)
 - (b). ESRI INFO files
 - (c). OLE DB Connections
 - (d). ODBC Connections
 - (e). Microsoft Access

XI. Data Editing

- 1) General Editing
 - (a). The GIS desktop software must allow users to simultaneously edit multiple layers.
 - (b). The GIS desktop software must support unlimited undo operations.
 - (c). The GIS desktop software must support unlimited redo operations.

	<p>(d). The GIS desktop software must integrate with ArcPad for field editing.</p> <p>(e). The GIS desktop software must allow users to make measurements using any selected unit.</p> <p>(f). The GIS desktop software must be able to scale features when individual vertices are moved.</p> <p>2) Snapping</p> <p>(a). The GIS desktop software must be able to snap features to existing vertices.</p> <p>(b). The GIS desktop software must be able to snap features to existing edges.</p> <p>(c). The GIS desktop software must be able to snap features to existing endpoints.</p> <p>(d). The GIS desktop software must be able to snap features to existing midpoints.</p> <p>(e). The GIS desktop software must be able to snap features to perpendicular points.</p> <p>(f). The GIS desktop software must allow users to set snapping tolerance by pixels.</p> <p>(g). The GIS desktop software must allow users to set snapping tolerance by map units.</p> <p>(h). The GIS desktop software must allow users to set snapping tolerance interactively.</p> <p>3) Geometry Construction</p> <p>(a). The GIS desktop software must allow users to constrain the next segment by direction.</p> <p>(b). The GIS desktop software must allow users to constrain the next segment with a deflection angle from the last segment.</p> <p>(c). The GIS desktop software must allow users to constrain the next segment by length.</p> <p>(d). The GIS desktop software must allow users to specify an exact x,y location for a new vertex.</p> <p>(e). The GIS desktop software must allow users to specify an x,y difference from the last vertex.</p> <p>(f). The GIS desktop software must allow users to constrain the next segment to be parallel to the last segment.</p> <p>(g). The GIS desktop software must allow users to constrain the next segment to be perpendicular to the last segment.</p> <p>(h). The GIS desktop software must allow users to constrain the next segment based on an angle from an existing feature segment on the map.</p> <p>(i). The GIS desktop software must allow users to create geometry from existing features in the map.</p> <p>(j). The GIS desktop software must allow users to create a curve tangent to the last segment.</p>	
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	<p>(k). The GIS desktop software must allow users to finish a polygon by generating perpendicular segments from the first and last segment.</p> <p>(l). The GIS desktop software must allow users to flip the orientation of the geometry.</p> <p>(m). The GIS desktop software must allow users to trim geometry to a specific length.</p> <p>4) Geometry Creation</p> <p>(a). The GIS desktop software must support point-and-click on-screen digitizing.</p> <p>(b). The GIS desktop software must support stream digitizing.</p> <p>(c). The GIS desktop software must allow users to add a coordinate based on an angle from one location and a distance from another.</p> <p>(d). The GIS desktop software must allow users to add a coordinate based on the implied intersection of two segments.</p> <p>(e). The GIS desktop software must allow users to construct a true curve.</p> <p>(f). The GIS desktop software must allow users to construct a tangent curve.</p> <p>(g). The GIS desktop software must allow users to add a coordinate based on a distance from two known locations.</p> <p>(h). The GIS desktop software must allow users to add a coordinate at the midpoint between two known locations.</p> <p>(i). The GIS desktop software must allow users to add coordinates along existing coordinates.</p> <p>5) Feature Manipulation</p> <p>(a). The GIS desktop software must allow users to create features using new geometry.</p> <p>(b). The GIS desktop software must allow users to create new polygons using the geometry of existing features (auto-complete polygons).</p> <p>(c). The GIS desktop software must allow users to reshape existing features.</p> <p>(d). The GIS desktop software must allow users to cut polygon features.</p> <p>(e). The GIS desktop software must allow users to create mirror copies of existing features.</p> <p>(f). The GIS desktop software must allow users to extend or trim existing features.</p> <p>(g). The GIS desktop software must allow users to add, delete, interactively move, or modify the coordinate values for vertex locations of existing features.</p>	
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	<p>6) Feature Editing Tools</p> <ul style="list-style-type: none"> (a). The GIS desktop software must provide move, rotate, delete, copy, and paste tools. (b). The GIS desktop software must allow users to split a line at a distance. (c). The GIS desktop software must allow users to split a line at a percentage. (d). The GIS desktop software must allow users to divide a line based on distance. (e). The GIS desktop software must allow users to divide a line based on a number of segments. (f). The GIS desktop software must allow users to divide a line based on a measure value (m-coordinate). (g). The GIS desktop software must allow users to buffer features. (h). The GIS desktop software must allow users to copy lines parallel to their existing location. (i). The GIS desktop software must allow users to merge existing features. (j). The GIS desktop software must allow users to create new features by merging features in the same or another layer (union). (k). The GIS desktop software must allow users to create new features from the buffer of existing features. (l). The GIS desktop software must allow users to create new polygons by intersecting existing feature classes. (m). The GIS desktop software must allow users to clip one or more polygons with another polygon. (n). The GIS desktop software must allow users to extend or trim lines with other features in the map. <p>7) Attribute Editing</p> <ul style="list-style-type: none"> (a). The GIS desktop software must allow users to modify each selected row individually or as a group. (b). The GIS desktop software must allow users to copy attributes to one or more rows simultaneously. (c). The GIS desktop software must allow users to calculate attribute values using scripts. (d). The GIS desktop software must allow users to validate attribute values using rules defining valid values. <p>8) Multipart Features (Point, Line, Polygon)</p> <ul style="list-style-type: none"> (a). The GIS desktop software must allow users to add parts to multipart features. (b). The GIS desktop software must allow users to delete parts of multipart features. (c). The GIS desktop software must allow users to zoom to parts of multipart features. (d). The GIS desktop software must allow users to add vertex locations. 	
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	<p>(e). The GIS desktop software must allow users to delete vertex locations.</p> <p>(f). The GIS desktop software must allow users to edit vertex locations.</p> <p>(g). The GIS desktop software must allow users to create separate features from each part (explode)</p> <p>9) Map Navigation while Editing</p> <p>(a). The GIS desktop software must allow users to zoom to feature vertices.</p> <p>(b). The GIS desktop software must allow users to zoom to feature parts.</p> <p>(c). The GIS desktop software must allow users to interactively pan and zoom using editing tools and shortcut keys.</p> <p>10) The GIS desktop software must allow users to pan and zoom to unplaced annotation or the feature associated with the unplaced annotation. Vector Data Transformations</p> <p>(a). The GIS desktop software must support transformation through rubber sheeting.</p> <p>(b). The GIS desktop software must support affine transformation.</p> <p>(c). The GIS desktop software must support similarity transformation.</p> <p>(d). The GIS desktop software must support projective transformation.</p> <p>(e). The GIS desktop software must support transformation through edgematching.</p> <p>(f). The GIS desktop software must be able to transfer accurate attributes from features with inaccurate geometry to features with accurate geometry (conflation).</p> <p>(g). The GIS desktop software must allow users to copy feature geometry from one location or layer to another.</p> <p>11) Generalization</p> <p>(a). The GIS desktop software must allow users to smooth line features.</p> <p>(b). The GIS desktop software must allow users to simplify the shape of line features.</p> <p>XII. Data Automation-Multiuser Geodatabase Editing</p> <p>1) General Editing</p>	
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- (a). The GIS desktop software must allow multiple editors to simultaneously edit the same feature classes in a multiuser geodatabase.
- (b). The GIS desktop software must be able to isolate editing projects in separate versions to enable a variety of workflows.
- (c). The GIS desktop software must allow users to merge geodatabase versions (reconcile and post).
- (d). The GIS desktop software must allow users to delete geodatabase versions.

2) Disconnected Editing

- (a). The GIS desktop software must allow users to check out raster and vector data from a multiuser geodatabase using spatial and attribute filters.
- (b). The GIS desktop software must be able to package edits made to a checkout geodatabase in an XML file.
- (c). The GIS desktop software must allow users to check in edits to a multiuser geodatabase from a checkout geodatabase.

XIII. Data Automation—Spatial Referencing Image Data (Georeferencing)

1) Tools

- (a). The GIS desktop software must allow users to shift, flip, rotate, or fit an image to the display.
- (b). The GIS desktop software must allow users to interactively specify control points.
- (c). The GIS desktop software must allow users to save and load control points with error and accuracy information.
- (d). The GIS desktop software must support the following transformation methods:
 - 1st order polynomial
 - 2nd order polynomial
 - 3rd order polynomial

XIV. Data Management

1) General

- (a). The GIS desktop software must allow users to create personal geodatabases.
- (b). The GIS desktop software must allow users to create personal geodatabase feature classes.
- (c). The GIS desktop software must allow users to create shapefiles.
- (d). The GIS desktop software must allow users to search for GIS data by the following:

	<ul style="list-style-type: none"> • Name • Type • Location • Date • Metadata <p>2) Geodatabase Administration</p> <p>(a). The GIS desktop software must allow users to create and load vector and raster data into a multiuser geodatabase.</p> <p>(b). The GIS desktop software must allow users to create tables and feature classes that store custom objects and features.</p> <p>(c). The GIS desktop software must update RDBMS statistics for GIS data.</p> <p>3) Attribute Validation</p> <p>(a). Create and Edit Relationships between Features</p> <ul style="list-style-type: none"> • The GIS desktop software must support one-to-one relationships. • The GIS desktop software must support one-to-many relationships. • The GIS desktop software must support many-to-many relationships. • The GIS desktop software must allow users to specify cardinality rules for relationships. • The GIS desktop software must be able to store attributes for relationships. <p>4) Geodatabase Relationship Behavior</p> <p>(a). When users move a feature, The GIS desktop software must also move any related features.</p> <p>(b). When users delete a feature, The GIS desktop software must also delete any related features.</p> <p>XV. Topology</p> <p>1) Map Display</p> <p>(a). The GIS desktop software must display a summary of the errors and exceptions in the topology.</p> <p>(b). The GIS desktop software must display the feature classes in the topology.</p> <p>(c). The GIS desktop software must display the rules in the topology.</p> <p>(d). The GIS desktop software must allow users to display the errors in the map.</p> <p>(e). The GIS desktop software must allow users to display the exceptions in the map.</p>	
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	<p>(f). The GIS desktop software must allow users to display the dirty areas in the map.</p> <p>2) Editing</p> <p>(a). The GIS desktop software must allow users to construct and edit topologies created from layers in the map.</p> <p>(b). The GIS desktop software must allow users to move topological edges and nodes.</p> <p>(c). The GIS desktop software must show or select adjacent or connected features.</p> <p>(d). The GIS desktop software must allow users to reshape shared edges between features.</p> <p>(e). The GIS desktop software must allow users to modify the coordinates of shared edges or nodes.</p> <p>(f). The GIS desktop software must allow users to split shared edges at a specific point, distance, or percentage along the edge.</p> <p>(g). The GIS desktop software must allow users to move edges and nodes to a specific location.</p> <p>(h). The GIS desktop software must allow users to shift edges and nodes based on an offset from their current location.</p> <p>(i). The GIS desktop software must allow users to merge connected edges.</p> <p>(j). The GIS desktop software must allow users to control which adjacent or connected features move when a shared edge or node is moved.</p> <p>(k). The GIS desktop software must allow users to construct polygons from lines or lines from polygons.</p> <p>(l). The GIS desktop software must allow users to split lines where they intersect.</p> <p>(m). The GIS desktop software must be able to validate a specific area or the entire topology.</p> <p>(n). The GIS desktop software must allow users to search for errors of a specific type in a specific area of the topology</p> <p>(o). The GIS desktop software must allow users to search for errors of a specific type in the entire topology.</p> <p>(p). The GIS desktop software must allow users to inspect errors by zooming, panning, or selecting the appropriate features.</p> <p>(q). The GIS desktop software must support the following fix operations for geodatabase topology rule violations:</p> <ul style="list-style-type: none"> • Delete features • Subtract features • Create features • Merge features 	
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	<ul style="list-style-type: none"> • Snap features • Extend lines • Trim lines • Split lines • Explode features • Simplify features • Geodatabase Topology Management <p>(r). The GIS desktop software must allow users to create and manage geodatabase topology.</p> <p>(s). The GIS desktop software must allow users to specify a hierarchy for vertex snapping during topology creation.</p> <p>(t). The GIS desktop software must support the following geodatabase topology rules:</p> <ul style="list-style-type: none"> • Polygons contain points • Polygons must not overlap • Polygons must not have gaps • Polygons must not overlap with polygons in another feature class • Polygons must be covered by one polygon in another feature class • Polygons must be covered by one or more polygons in another feature class • Polygons from two feature classes must cover each other • Polygon boundaries must be covered by lines of another feature class • Polygon boundaries must be covered by the boundaries of polygons in another feature class • Lines must not overlap • Lines must be single part • Lines must not self-overlap • Lines must not overlap with lines in another feature class • Lines must not have dangles • Lines must not have pseudo nodes • Lines must not intersect • Lines must not self-intersect • Line endpoints must be covered by points of another feature class • Lines must be covered by polygon boundaries of another feature class • Lines must not intersect or touch interior • Lines must be covered by lines of another feature class • Points must be covered by lines of another feature class • Points must be inside polygons 	
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- Points must be covered by the endpoints of lines
- Points must be covered by the boundary of polygons of another feature class

XVI. Linear Referencing (Routes)

1) Display

- (a). The GIS desktop software must allow users to find and display dynamic segmentation events (point, linear, and continuous) on routes.

2) Editing

- (a). The GIS desktop software must allow users to interactively modify m-coordinate values.
- (b). The GIS desktop software must allow users to interactively drop m-coordinates.
- (c). The GIS desktop software must allow users to create routes for selected lines using the length of the features, a field value, or specific to and from measures.
- (d). The GIS desktop software must allow users to edit a portion of a line without affecting the measures on the rest of the line.
- (e). The GIS desktop software must allow users to adjust one route using points along the route (calibrate).
- (f). The GIS desktop software must allow users to calculate measures using to and from measures for a line.
- (g). The GIS desktop software must allow users to set the digitized direction of the line to match measure values.
- (h). The GIS desktop software must allow users to calculate measures based on the length of a line.
- (i). The GIS desktop software must allow users to drop all the measures for a line.
- (j). The GIS desktop software must allow users to calculate unknown measures using interpolation based on existing measures.
- (k). The GIS desktop software must allow users to add a value to all measures on a line.
- (l). The GIS desktop software must allow users to multiply all measures on a line by a factor.
- (m). The GIS desktop software must allow users to add a vertex at a specified measure.

3) Included Client Applications

- (a). The GIS desktop software must include the following application templates:
 - Map viewer template

- Page layout template
- Geocoding template
- Search template
- Thematic map template
- Buffer selection template
- Web service catalog template

Online GIS

Online GIS is a cloud-based mapping and analysis platform that delivers location intelligence to users, anywhere, on any device. With Online GIS, users can create data-driven maps, use spatial analysis to learn more about their data, and share insights with others through useful apps. Online GIS should have a software-as-a-service (SaaS) model and must be capable to support many users.

The Online GIS shall have the following capabilities:

- 1) Provides a central location to store, manage, and share spatial data in the form of web maps, apps and web layers. The web layers stored in the Online GIS will provide the base for visualization, analysis, and editing workflows.
- 2) Allow users to build data-driven maps.
- 3) Allow users to navigate on the map (zoom in, zoom out, pan)
- 4) Search for locations using built-in locator service
- 5) Allow users to get additional perspectives by filtering data and changing map symbology
- 6) It shall be able to share GIS data as web layers or web maps
- 7) It shall be allow the organization to embed maps hosted in Online GIS in a website, social media post, or blog.
- 8) It shall be able to share map in a variety ready-to-use apps.
- 9) It shall be able to create and share Department of Tourism’s data through configurable application templates, app builders or APIs.
- 10) It shall include Department of Tourism maps in dashboards providing a real-time visual view of people, assets, and events.
- 11) Includes an administration page that monitors the usage of Online GIS resources and users.
- 12) Includes Online GIS access for 11 Desktop GIS users
- 13) Includes 1,100 Online GIS service credits that will be consumed for online services such as cloud feature storage, geoprocessing and spatial analysis tasks.

GIS Dashboards

GIS Dashboards is a configurable web app that will allow users to convey important information at a glance. GIS Dashboards can present data and analytics through interactive visualizations arranged on a single screen. These dashboards provide a high-level view of key information, helping users make decisions, visualize trends, monitor status in real time. GIS dashboards should be configurable for any audience that needs an easy way to view and filter information to get the answers they need.

GIS Dashboard should have the following capabilities:

- Display data in the form of maps, charts, graphs, lists and indicators
- Support interactive data filtering between dashboard elements
- Support dynamic map navigation
- Must be configurable and deployable without programming

3D Analyst Extension

3D Analyst provides powerful and advanced visualization, analysis, and surface generation tools. GIS 3D Analyst can seamlessly view extremely large sets of data in three dimensions from multiple viewpoints, query a surface, and create a realistic perspective image that drapes raster and vector data over a surface.

- Build and visualize surface, subsurface, terrain, and draped features
- Manage 3D GIS data by editing in a 3D view
- Perform viewshed, corridor, line-of-sight, and 3D volumetric analyses; spot height interpolation profiling; and steepest path determination.
- View and create KML and view lidar data
- Create contours and terrains
- Import Collaborative Design Activity (COLLADA), SketchUp, 3D Studio, and OpenFlight files
- Use free 3D globes and imagery from GISSM Online services
- Calculate surface area, volume, slope, aspect, hill shade, and contours.

Spatial Analyst Extension

Spatial analyst provides a broad range of powerful spatial modeling and analysis tools. Must be able create, query,

map, and analyze cell-based raster data; perform integrated raster/vector analysis; derive new information from existing data; query information across multiple data layers; and fully integrate cell-based raster data with traditional vector data sources. Integrated with the geoprocessing framework, GIS Spatial Analyst offers easy access to numerous functions in model builder, a graphic modeling tool.

- Convert features (point, line, or polygon) to rasters.
- Create raster buffers based on distance from or proximity to features or rasters.
- Generate density maps and continuous surfaces from point features
- Derive contour, slope, viewshed, aspect, and hillshades of these surfaces
- Perform map algebra (Boolean queries and algebraic calculations
- Conduct neighborhood and zone analyses
- Carry out discrete cell-by-cell analysis

Warranty and Technical Services

a) Helpdesk support

- 1) Shall be provided for one (1) year after the installation of the software.
- 2) The GIS Technical Support Team is available to answer technical questions and troubleshoot problems relating to the GIS software products through calls and emails.
- 3) Helpdesk support available from 8:30 a.m. to 5:30 p.m., Monday through Friday, excluding holidays.
- 4) Shall provide four (4)-hour response time upon receipt of call and next business day on-site visit when necessary.

Advantage Program

Advantage program is a flexible framework to help the organization reach its vision and meet business objectives and maximize organization's GIS investment. The program provides proactive technical advisory, annual planning/review meeting, a collaboratively developed work plan, technology updates, as well as access to consulting services, premium technical support and training.

- Collaborate with a trusted advisor who will work proactively with the team through key meetings and regular communication;

- Develop a plan for implementing a location strategy that drives innovation and idea incubation throughout the organization;
- Access select support, training, and consulting services, as needed, to achieve organization objectives; and
- Receive strategic advice and planning to support the staff, introduce GIS across the organization, and solve key business problems.

(a). Configuration of Mobile Applications (iOS & Android) and Dashboard

Two (2) GIS Chief Project Lead for Department of Tourism for One (1) year Contract

- Acts as the overall in charge of the Department of Tourism GIS Project.
- Evaluates and assess the daily report
- Prepares reports and summary of Department of Tourism GIS project.

Deliverables:

- 1) Installation Media and License for latest version
- 2) One (1) year telephone and e-mail technical support from date of delivery
- 3) Free twelve (12) months software maintenance to cover upgrade to latest version when available.
- 4) Helpdesk support for one year
- 5) Supplier must conduct software training

Description
Geographic Information System Subscription Maintenance
1 x Enterprise Standard up to Four Cores License
3 x Desktop Standard Single Use
3 x GIS Pro Standard Online Annual Subscription
14 x Desktop Basic Single Use
14 x GIS Pro Basic Online Annual Subscription
5 x 3D Analyst for Desktop Single Use
5 x 3D Analyst for GIS Online Annual Subscription
5 x Spatial Analyst for Desktop Single Use License
5 x Spatial Analyst for GIS Online Annual Subscription
1 x GIS Insights in ArcGIS Enterprise
40 x Enterprise Mobile Worker License
5 x GIS Online Creator Annual Subscription

	<p>Helpdesk support for One year Field Data Collection and Management Using ArcGIS (Workshop) 20pax Two (2) GIS Chief Project lead acts as the overall in charge of the Department of Tourism GIS project for one (1) year contract. Systems Advantage Program is a flexible framework to help the organization reach its vision of adopting ArcGIS to meet business objectives and maximize your organization's GIS investment</p> <p>WITH CLOUD STORAGE AND BUNDLED NAMED USER WITH SERVICE CREDITS- Clarification on service credits: Equivalent <i>online credits to purchase online services such as cloud storage, special tools and map styles</i></p>	
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Conforme:

Name of Bidder's/Representative

Signature

Date

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR.

Technical Documents

- (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 (**Annex "A"**); **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 relevant period as provided in the Bidding Documents (Note: This statement shall be supported with end-user's acceptance or official receipt(s) or sales invoice issued for the contract) (**Annex "B"**); **and**
- (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 (**Annex C"**); **and**
- (e) Conformity with the Technical Specifications (**Section VII**), which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable (**Section VI**); **and**
- (f) Original duly signed Omnibus Sworn Statement (OSS) (**Annex "D"**); **and** if applicable, 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.

Financial Documents

- (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (**Annex "E"**);
or
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

- (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;
or
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. FINANCIAL COMPONENT ENVELOPE

- (i) Original of duly signed and accomplished Financial Bid Form (**Annex “F”**);
and
- (j) Original of duly signed and accomplished Price Schedule(s) (**Annex “G”**).

Other documentary requirements under RA No. 9184 (as applicable)

- (k) *[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.
- (l) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

