

<b>BILL OF QUANTITIES</b>					
<b>Project Title : SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PRIMARY SURVEILLANCE RADAR AND MONOPULSE SECONDARY SURVEILLANCE RADAR</b>					
Item No.	Description	Quantity	Unit	Unit Cost (PhP)	Total Amount (PhP)
<b>1.0</b>	<b>General Requirements</b>				
1.1	Mobilization & Demobilization	1.00	lot		
1.2	Temporary Facilities including CIAC PMO Engineers	1.00	lot		
1.2.1	Furniture/Fixtures, Equipment & Appliances for the Field Office for the Engineer (rental basis)	1.00	lot		
1.2.2	laptop with minimum 8gb ram and 1tb storage (rental basis)	10	units		
1.2.3	office supplies	1.00	lot		
1.2.4	cellular phone units (rental basis) capable to take high definition photos with a 500 pesos monthly load.	10	units		
1.3	Safety Requirements (Personal Protective Equipment, Barriers/Barricades, Markings, Signages, Lightings, Two-Way Radio & others as required by MOS & other regulatory agencies)	1.00	lot		
	<b>Total 1.0</b>				
<b>2.0</b>	<b>Equipment (RADAR)</b>				
2.1	Radar equipment (PSR)				
	a. PSR S-Band system including antenna, drive unit and weather channel.	1.00	set		
2.2	Radar equipment (MSSR)				
	a. 2 Channel Secondary Surveillance Radar Mode S including Antenna Pedestal	1.00	set		
2.3	Spare Parts	1.00	lot		
	<b>Total 2.0</b>				
<b>3.0</b>	<b>Local and Remote Control &amp; Monitoring System</b>	1.00	lot		
	for PSR and MSSR complete with accessories and Service Terminal Notebook				
	<b>Total 3.0</b>				
<b>4.0</b>	<b>Standard Tools &amp; Test Instruments</b>	1.00	lot		
	<b>Total 4.0</b>				
<b>5.0</b>	<b>Radome</b>	1.00	set		
	<b>Total 5.0</b>				
<b>6.0</b>	<b>System Ancillaries</b>	1.00	lot		
	( Lightning Protection, Working Rope and Safety Equipment, Obstruction Light, Fire Detection and Alarm System)				
	<b>Total 6.0</b>				
<b>7.0</b>	<b>Civil Works</b>				
7.1	Radar Equipment Building	1.00	lot		
7.2.	Radar Facility Renovation	1.00	lot		
7.3	Radar Antenna Tower	1.00	lot		
	<b>Total 7.0</b>				
<b>8.0</b>	<b>UPS (OEM recommendation)</b>	1.00	lot		
	Dual redundant UPS				
	<b>Total 8.0</b>				
<b>9.0</b>	<b>Two Generators</b>	1.00	lot		
	- Outdoor diesel generator with fuel tank, including ATS				
	- Conduits, Cables, Pipes, Cable Trays and other accessories				
	- Concrete Foundation				
	- Reserve Fuel Tank				
	<b>Total 9.0</b>				
<b>10.0</b>	<b>Electro-Mechanical</b>				
	a. Electrical wirings & conduits, Lightings, Panel Board, outlets, accessories, surge arrester, ground rods,	1.00	lot		

	Power Cable Trenching, Pipe laying/earth grounding, Transformers				
	Air Conditioning Unit for Radar Equipment Building and Radar Facility	1.00	lot		
	<b>Total 10.0</b>				
<b>11.0</b>	<b>Communication Infrastructure</b>				
	a. Fiber optic media converter/hub and Ancillaries, complete with: - Fiber optic communication link including fiber optic patch cord - Enclosures & other necessary accessories	1.00	lot		
	b. Microwave Link	1.00	lot		
	<b>Total 11.0</b>				
<b>12.0</b>	<b>Installation, Testing, Commissioning, Trainings and other related services</b>				
12.1	Equipment Installation of PRS, MSSR, Antenna	1.00	lot		
12.2	Radar data Integration, Surveying and Measurements	1.00	lot		
12.3	Project Management and Supervision	1.00	lot		
12.4	Design and As Built Drawings	1.00	lot		
12.5.	Commissioning and Site Acceptance Test	1.00	lot		
12.6	Radar Flight Check	1.00	lot		
12.7	Construction/Maintenance Vehicle (2 Units)	1.00	lot		
12.8	Local On Site Training	1.00	lot		
12.9	Factory Training ( Technical)	1.00	lot		
12.10	Factory Acceptance Test (FAT)	1.00	lot		
12.11	Maintenance Contract for 2 years during Defects Liability Period and Spare Parts	1.00	lot		
12.12	Airfreight Charges, Insurance Charges, Custom Brokerage, Storage, Delivery on Site Charges	1.00	lot		
	<b>Total 12.0</b>				
	<b>GRAND TOTAL</b> <b>1.0+2.0+3.0+4.0+5.0+6.0+7.0+8.0+9.0+10.0+11.0+12.0</b>				
	<b>TOTAL PROJECT COST</b>				

**TOTAL BID AMOUNT :**

**BID AMOUNT IN WORDS:**

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\_\_\_\_\_

**Name of Bidder's Authorized Representative:** \_\_\_\_\_

**Position/Designation:** \_\_\_\_\_

## Checklist of Technical and Financial Documents

### I. TECHNICAL COMPONENT ENVELOPE

#### *Class "A" Documents*

##### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**or**
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;  
**and**
- (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

##### Technical Documents

- (e) 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**
- (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (g) Philippine Contractors Accreditation Board (PCAB) License;  
**or**  
Special PCAB License in case of Joint Ventures;  
**and** registration for the type and cost of the contract to be bid; **and**
- (h) 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**
- (i) Project Requirements, which shall include the following:
  - a. Organizational chart for the contract to be bid;
  - b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
  - c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
  - d. The prospective bidders shall also submit the following documents / certificates with the Technical Documents :
    - Certificate of After Sales Support and Spare Parts Availability for Fifteen (15) years from the Contractor ; and
    - Bidders/Contractors shall submit Certificate of Warranty for 2 years.
- (j) Original duly signed Omnibus Sworn Statement (OSS);  
**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.
- (k) Original Notarized Affidavit of No Pending Case. In case of joint venture or consortium, each partner of the joint venture or consortium shall submit their

respective certification, under oath.

Financial Documents

- (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

***Class "B" Documents***

- (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR.

**II. FINANCIAL COMPONENT ENVELOPE**

- (o) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (q) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (r) Cash Flow by Quarter.