

40. Progress Payments

- 40.1) The Contractor may submit a request for payment for Work accomplished. Such request for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.
- 40.2) The Procuring Entity shall deduct the following from the certified gross amounts to be paid to the contractor as progress payment:
- (a) Cumulative value of the work previously certified and paid for.
 - (b) Portion of the advance payment to be recouped for the month.
 - (c) Retention money in accordance with the condition of contract.
 - (d) Amount to cover third party liabilities.
 - (e) Amount to cover uncorrected discovered defects in the works.
- 40.3) Payments shall be adjusted by deducting therefrom the amounts for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Procuring Entity's Representative within twenty eight (28) days from the date each certificate was issued. No payment of interest for delayed payments and adjustments shall be made by the Procuring Entity.
- 40.4) The first progress payment may be paid by the Procuring Entity to the Contractor provided that at least twenty percent (20%) of the work has been accomplished as certified by the Procuring Entity's Representative.
- 40.5) Items of the Works for which a price of "0" (zero) has been entered will not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

41. Payment Certificates

- 41.1) The Contractor shall submit to the Procuring Entity's Representative monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
- 41.2) The Procuring Entity's Representative shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- 41.3) The value of Work executed shall:
- (a) be determined by the Procuring Entity's Representative;
 - (b) comprise the value of the quantities of the items in the Bill of Quantities completed; and
 - (c) include the valuations of approved variations.

- 41.4) The Procuring Entity's Representative may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

42. Retention

- 42.1) The Procuring Entity shall retain from each payment due to the Contractor an amount equal to a percentage thereof using the rate as specified in GCC Sub-Clause 42.1).
- 42.2) Progress payments are subject to retention of ten percent (10%), referred to as the "retention money." Such retention shall be based on the total amount due to the Contractor prior to any deduction and shall be retained from every progress payment until fifty percent (50%) of the value of Works, as determined by the Procuring Entity, are completed. If, after fifty percent (50%) completion, the Work is satisfactorily done and on schedule, no additional retention shall be made; otherwise, the ten percent (10%) retention shall again be imposed using the rate specified therefor.
- 42.3) The total "retention money" shall be due for release upon final acceptance of the Works. The Contractor may, however, request the substitution of the retention money for each progress billing with irrevocable standby letters of credit from a commercial bank, bank guarantees or surety bonds callable on demand, of amounts equivalent to the retention money substituted for and acceptable to the Procuring Entity, provided that the project is on schedule and is satisfactorily undertaken. Otherwise, the ten (10%) percent retention shall be made. Said irrevocable standby letters of credit, bank guarantees and/or surety bonds, to be posted in favor of the Government shall be valid for a duration to be determined by the concerned implementing office/agency or Procuring Entity and will answer for the purpose for which the ten (10%) percent retention is intended, i.e., to cover uncorrected discovered defects and third party liabilities.
- 42.4) On completion of the whole Works, the Contractor may substitute retention money with an "on demand" Bank guarantee in a form acceptable to the Procuring Entity.

43. Variation Orders

- 43.1) Variation Orders may be issued by the Procuring Entity to cover any increase/decrease in quantities, including the introduction of new work items that are not included in the original contract or reclassification of work items that are either due to change of plans, design or alignment to suit actual field conditions resulting in disparity between the preconstruction plans used for purposes of bidding and the "as staked plans" or construction drawings prepared after a joint survey by the Contractor and the Procuring Entity after award of the contract, provided that the cumulative amount of the Variation Order does not exceed ten percent (10%) of the original project cost. The addition/deletion of Works should be within the general scope of the project as bid and awarded. The scope of works shall not be reduced so as to accommodate a positive Variation Order. A Variation Order may either be in the form of a Change Order or Extra Work Order.

- 43.2) A Change Order may be issued by the Procuring Entity to cover any increase/decrease in quantities of original Work items in the contract.
- 43.3) An Extra Work Order may be issued by the Procuring Entity to cover the introduction of new work necessary for the completion, improvement or protection of the project which were not included as items of Work in the original contract, such as, where there are subsurface or latent physical conditions at the site differing materially from those indicated in the contract, or where there are duly unknown physical conditions at the site of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the Work or character provided for in the contract.
- 43.4) Any cumulative Variation Order beyond ten percent (10%) shall be subject of another contract to be bid out if the works are separable from the original contract. In exceptional cases where it is urgently necessary to complete the original scope of work, the HoPE may authorize a positive Variation Order go beyond ten percent (10%) but not more than twenty percent (20%) of the original contract price, subject to the guidelines to be determined by the GPPB: *Provided, however,* That appropriate sanctions shall be imposed on the designer, consultant or official responsible for the original detailed engineering design which failed to consider the Variation Order beyond ten percent (10%).
- 43.5) In claiming for any Variation Order, the Contractor shall, within seven (7) calendar days after such work has been commenced or after the circumstances leading to such condition(s) leading to the extra cost, and within twenty-eight (28) calendar days deliver a written communication giving full and detailed particulars of any extra cost in order that it may be investigated at that time. Failure to provide either of such notices in the time stipulated shall constitute a waiver by the contractor for any claim. The preparation and submission of Variation Orders are as follows:
- (a) If the Procuring Entity's representative/Project Engineer believes that a Change Order or Extra Work Order should be issued, he shall prepare the proposed Order accompanied with the notices submitted by the Contractor, the plans therefore, his computations as to the quantities of the additional works involved per item indicating the specific stations where such works are needed, the date of his inspections and investigations thereon, and the log book thereof, and a detailed estimate of the unit cost of such items of work, together with his justifications for the need of such Change Order or Extra Work Order, and shall submit the same to the HoPE for approval.
 - (b) The HoPE or his duly authorized representative, upon receipt of the proposed Change Order or Extra Work Order shall immediately instruct the appropriate technical staff or office of the Procuring Entity to conduct an on-the-spot investigation to verify the need for the Work to be prosecuted and to review the proposed plan, and prices of the work involved.

- (c) The technical staff or appropriate office of the Procuring Entity shall submit a report of their findings and recommendations, together with the supporting documents, to the Head of Procuring Entity or his duly authorized representative for consideration.
- (d) The HoPE or his duly authorized representative, acting upon the recommendation of the technical staff or appropriate office, shall approve the Change Order or Extra Work Order after being satisfied that the same is justified, necessary, and in order.
- (e) The timeframe for the processing of Variation Orders from the preparation up to the approval by the Procuring Entity concerned shall not exceed thirty (30) calendar days.

44. Contract Completion

Once the project reaches an accomplishment of ninety five (95%) of the total contract amount, the Procuring Entity may create an inspectorate team to make preliminary inspection and submit a punch-list to the Contractor in preparation for the final turnover of the project. Said punch-list will contain, among others, the remaining Works, Work deficiencies for necessary corrections, and the specific duration/time to fully complete the project considering the approved remaining contract time. This, however, shall not preclude the claim of the Procuring Entity for liquidated damages.

45. Suspension of Work

- 45.1) The Procuring Entity shall have the authority to suspend the work wholly or partly by written order for such period as may be deemed necessary, due to *force majeure* or any fortuitous events or for failure on the part of the Contractor to correct bad conditions which are unsafe for workers or for the general public, to carry out valid orders given by the Procuring Entity or to perform any provisions of the contract, or due to adjustment of plans to suit field conditions as found necessary during construction. The Contractor shall immediately comply with such order to suspend the work wholly or partly.
- 45.2) The Contractor or its duly authorized representative shall have the right to suspend work operation on any or all projects/activities along the critical path of activities after fifteen (15) calendar days from date of receipt of written notice from the Contractor to the district engineer/regional director/consultant or equivalent official, as the case may be, due to the following:
 - (a) There exist right-of-way problems which prohibit the Contractor from performing work in accordance with the approved construction schedule.
 - (b) Requisite construction plans which must be owner-furnished are not issued to the contractor precluding any work called for by such plans.
 - (c) Peace and order conditions make it extremely dangerous, if not possible, to work. However, this condition must be certified in

writing by the Philippine National Police (PNP) station which has responsibility over the affected area and confirmed by the Department of Interior and Local Government (DILG) Regional Director.

- (d) There is failure on the part of the Procuring Entity to deliver government-furnished materials and equipment as stipulated in the contract.
- (e) Delay in the payment of Contractor's claim for progress billing beyond forty-five (45) calendar days from the time the Contractor's claim has been certified to by the procuring entity's authorized representative that the documents are complete unless there are justifiable reasons thereof which shall be communicated in writing to the Contractor.

45.3) In case of total suspension, or suspension of activities along the critical path, which is not due to any fault of the Contractor, the elapsed time between the effectivity of the order suspending operation and the order to resume work shall be allowed the Contractor by adjusting the contract time accordingly.

46. Payment on Termination

- 46.1) If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Procuring Entity's Representative shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the SCC. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.
- 46.2) If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Procuring Entity's Representative shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
- 46.3) The net balance due shall be paid or repaid within twenty eight (28) days from the notice of termination.
- 46.4) If the Contractor has terminated the Contract under GCC Clauses 17 or 18, the Procuring Entity shall promptly return the Performance Security to the Contractor.

47. Extension of Contract Time

- 47.1) Should the amount of additional work of any kind or other special circumstances of any kind whatsoever occur such as to fairly entitle the contractor to an extension of contract time, the Procuring Entity shall determine the amount of such extension; provided that the Procuring Entity is not bound to take into account any claim for an extension of time unless the Contractor has, prior to the

expiration of the contract time and within thirty (30) calendar days after such work has been commenced or after the circumstances leading to such claim have arisen, delivered to the Procuring Entity notices in order that it could have investigated them at that time. Failure to provide such notice shall constitute a waiver by the Contractor of any claim. Upon receipt of full and detailed particulars, the Procuring Entity shall examine the facts and extent of the delay and shall extend the contract time completing the contract work when, in the Procuring Entity's opinion, the findings of facts justify an extension.

- 47.2) No extension of contract time shall be granted the Contractor due to (a) ordinary unfavorable weather conditions and (b) inexcusable failure or negligence of Contractor to provide the required equipment, supplies or materials.
- 47.3) Extension of contract time may be granted only when the affected activities fall within the critical path of the PERT/CPM network.
- 47.4) No extension of contract time shall be granted when the reason given to support the request for extension was already considered in the determination of the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection.
- 47.5) Extension of contract time shall be granted for rainy/unworkable days considered unfavorable for the prosecution of the works at the site, based on the actual conditions obtained at the site, in excess of the number of rainy/unworkable days pre-determined by the Procuring Entity in relation to the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection, and/or for equivalent period of delay due to major calamities such as exceptionally destructive typhoons, floods and earthquakes, and epidemics, and for causes such as non-delivery on time of materials, working drawings, or written information to be furnished by the Procuring Entity, non-acquisition of permit to enter private properties or non-execution of deed of sale or donation within the right-of-way resulting in complete paralyzation of construction activities, and other meritorious causes as determined by the Procuring Entity's Representative and approved by the HoPE. Shortage of construction materials, general labor strikes, and peace and order problems that disrupt construction operations through no fault of the Contractor may be considered as additional grounds for extension of contract time provided they are publicly felt and certified by appropriate government agencies such as DTI, DOLE, DILG, and DND, among others. The written consent of bondsmen must be attached to any request of the Contractor for extension of contract time and submitted to the Procuring Entity for consideration and the validity of the Performance Security shall be correspondingly extended.

48. Price Adjustment

Except for extraordinary circumstances as determined by NEDA and approved by the GPPB, no price escalation shall be allowed. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GoP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

49. Completion

The Contractor shall request the Procuring Entity's Representative to issue a certificate of Completion of the Works, and the Procuring Entity's Representative will do so upon deciding that the work is completed.

50. Taking Over

The Procuring Entity shall take over the Site and the Works within seven (7) days from the date the Procuring Entity's Representative issues a certificate of Completion.

51. Operating and Maintenance Manuals

- 51.1) If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the SCC.
- 51.2) If the Contractor does not supply the Drawings and/or manuals by the dates stated in the SCC, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative shall withhold the amount stated in the SCC from payments due to the Contractor.

SECTION V
SPECIAL CONDITIONS OF
CONTRACT

Special Conditions of Contract

| SCC Clause | |
|------------|--|
| 1.17 | The Intended Completion Date is 150 calendar days from commencement of work, inclusive of the estimated Four (4) calendar days considered unfavorable to the prosecution of the works at site. |
| 1.22 | <p>The work consists of :</p> <ul style="list-style-type: none"> - Construction, delivery and offshore installation of Aids to Marine Navigation System; - Supply, construct and delivery at staging area of solar-powered lighted buoy assembly; - Offshore commissioning, testing and observation of Aids to Marine Navigation. |
| 1.23 | <p>The Procuring Entity's Representative is:</p> <p style="text-align: center;">ATTY. MARK JON S. PALOMAR Chairperson, HO-BAC-EP</p> <p style="text-align: center;">5th Floor PPA Building Bonifacio Drive, South Harbor, Port Area, Manila</p> |
| 1.24 | The Site is located at CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO and is defined in drawing/s |
| 1.28 | The Start Date is the date of receipt of the notice to proceed by the Contractor. |
| 1.31 | 1. Refer to the Bidder's Responsibilities under 6.1 of ITB-5 and GCC 4 – 5 |
| 2.2 | <i>None</i> |

| SCC Clause | |
|------------|---|
| 5.1 | The Procuring Entity shall give possession of all parts of the Site to the Contractor upon mobilization of equipment. |
| 6.5 | The Contractor shall employ the following Key Personnel : a. Project Manager b. Project Engineer c. Construction Safety and Health Officer d. Foreman e. Others |
| 7.4(c) | No further instructions. |
| 7.7 | No further instructions. |
| 8.1 | No further instructions. |
| 10.0 | None |
| 12.3 | No further instructions. |
| 12.5 | One (1) year from the project completion up to final acceptance by PPA. |
| 13.0 | No additional provision. If the Contractor is a joint venture, "All partners to the joint venture shall be jointly and severally liable to the Procuring Entity." |
| 18.3(h)(i) | No further instructions. |
| 21.2 | The Arbiter is: (To be appointed) |
| 29.1 | No day works are applicable to the contract. |
| 31.1 | The Contractor shall submit the Program of Work to the Procuring Entity's Representative within _____ days of delivery of the Notice of Award. |

| SCC Clause | |
|------------|---|
| 31.3 | <p>The period between Program of Work updates is _____ days.</p> <p>The amount to be withheld for late submission of an updated Program of Work is _____ .</p> |
| 34.3 | <p>The Funding Source is the Philippine Ports Authority's Corporate Budget for CY 2020.</p> |
| 39.1 | <p>The provision on advance payments or mobilization fees in the terms and conditions of all contracts / purchase orders / job orders for goods, services and infrastructure projects that will be signed or executed shall henceforth be excluded.</p> |
| 40.1 | <p>No further instructions.</p> |
| 51.1 | <p>The date by which operating and maintenance manuals are required is _____.</p> <p>The date by which "as built" drawings are required is _____.</p> |
| 51.2 | <p>The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is _____.</p> |

SECTION VI
TECHNICAL SPECIFICATIONS

PROJECT NAME: *PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

6.01 SCOPE OF WORK

- **General Provisions**
 - To undertake the following works :
 1. *Mobilization/Demobilization and Cleaning/Clearing*
 2. *Provide environmental safety and health program in the execution of the project*
 3. *Provide the Upkeep and Maintenance of Temporary Facility and Service Vehicle (rental)*
 4. *Construction, delivery and Offshore installation of Aids to Marine Navigation System*
 5. *Supply, construct and offshore installation of Solar-powered Lighted Buoy Assembly*
 6. *Offshore Commissioning, Testing and Observation of Aids to Marine Navigation*
 7. *Reimbursable Items (Provide/Procure brand new equipment for use of PPA Engineers and Staff necessary for the proper implementation of the project)*
 - The work includes the furnishing of all labor, materials, plants, and equipment required to complete/finish the works in accordance with the Specifications.
- **Work Schedules**
 - After examinations of all relevant data, coordination needs, work constraints, equipment to be used and other matters, a PERT/CPM diagram showing the detailed schedule/duration and sequences for the execution of work shall be submitted to the Engineer for approval within 15 days before the proposed commencement of the Works.

6.02 EQUIPMENT/LAYOUT OF WORK

- **Plant**
 - The Contractor shall keep on the job sufficient equipment and/or plant to meet the requirement of the project.
 - The equipment/plant shall be in satisfactorily operating conditions and capable of efficiently performing the works with safety as set forth herein and shall be subject to inspection by the Authority's Representative at all times.
- **Physical Data/Layout of Work**
 - ***The Authority does not guarantee to keep the project site free from obstructions.***
 - The Contractor shall conduct the work in such a manner as not to disrupt the flow of seacraft plying the navigational channel at all times.
 - The Contractor shall furnish, at his own expense, all platforms, equipment, range markers, temporary buoys, etc., and labor as may be required in laying out any part of the work.
 - The Contractor shall be responsible for the installation, maintenance, and preservation of all gauges, ranges, platforms and temporary buoys. Upon completion of the work, the Contractor shall promptly remove all ranges, markers, buoys and other marker places by him that may be detrimental to smooth passage of seacraft passing the channel.

6.03 CONCEPT OF THE SUPPLY, DELIVERY, AND INSTALLATION OF WORKS

- The PHILIPPINE PORTS AUTHORITY (PPA), hereinafter referred to as the employer wishes to receive bids for the Construction, Supply, Deliver and Offshore Installation of **Fifty Three (53) units** of Navigational Aids System herein referred to as the works.
- The Invitation to Bid is open to contractors who are qualified and authorized under the Philippine Laws to undertake the works. However, only one (1) of the firms with interlocking directors or officers or interest shall be allowed to submit a bid. Failure to detect prior to bidding, any of these types of relationships do not constitute as a waiver by the Employer.
- Bid proposals are to be completed and to be submitted to the Employer in accordance with the Instructions to Bidders.
- The bidder/s shall bear all costs associated with the preparation and delivery of its bid and the Employer will in no case be responsible or liable whatsoever to those costs, regardless of the conduct or outcome of the bidding process.

6.04 CRITERIA IN THE SELECTION OF THE CONTRACTOR

- The contractor should be duly registered to operate a business/services with the LGU with valid and existing license Ports and Harbors and Offshore Engineering;
- The contractor should have undertaken similar in nature and complexity with at least 50% of the ABC for any major operations of Ports and Harbors or Offshore Engineering works as indicated in the Eligibility Statements;
- The contractor should have a **PCAB LICENSE OF LARGE A – Port, Harbor and Offshore Engineering**;
- The contractor should satisfy the minimum equipment requirement;
- The contractor should have no pending case with the Government;
- The contractor should be the lowest calculated and responsive bidder to undertake the required works;
- Among others required by BAC.

6.05 WORKS

- Description
 - This item shall consist of supplying, constructing, delivering and installing the required Navigational Aids System at the designated offshore site around **Calapan, Puerto Galera, Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro**.
- Progress of Work
 - Upon mobilizing sufficient labors, materials, plants, and equipment, the Contractor shall works at such hours as may be necessary, subject to existing laws, to ensure the prosecution of work in accordance with the approved schedule (PERT/CPM). If the Contractor falls behind the approved schedule, the Authority's Representative may require the Contractor to increase the number of shifts and/or equipment without extra cost to the Authority.
 - Failure of the Contractor to comply with the requirements shall be reasonable grounds to assume that the Contractor is not performing the work with such diligence as will ensure completion within the specified time, in which case, the Authority may be compelled to take steps to protect the interest of the PPA.
 - When the Contractor elects to work overtime and on Sundays and legal holidays, appropriate authority from those concerns must be secured and a notice of his intention to do so shall be submitted to the Authority's Representative within a reasonable time in advance thereof.

- The Contractor shall submit monthly reports within two (2) days after the end of the day covered by the report duly signed by the Contractor or his duly authorized representative and the authorized PPA representative. The report shall be made in forms and to be provided by the Authority.
- The Contractor shall take necessary measures to protect the life and health of his men in accordance with the existing laws and regulations of the Government. The Contractor shall provide safety devices to the Authority's personnel while on land or on board the equipment/plant in the performance of their official duties.
- The Contractor shall put up and maintain such markers and buoys as will prevent any accident in consequence of his work. No liability whatsoever attaches to the Authority if as a result of the installation, an accident happens in the project area. The Contractor shall hold the Authority free and harmless against any or all claims of persons involved in such accidents.

6.06 WORK DURATION

- The supply, delivery and installation works shall be completed within *ONE HUNDRED FIFTY (150) CALENDAR DAYS (INCLUSIVE OF SUNDAYS, HOLIDAYS AND UNWORKABLE WEATHER/SEA CONDITION)*.

6.07 INSPECTION

- No PPA Project Engineer or Authority's Representative is authorized to change any provisions of the specifications without the written authorization of the Authority.
- Nor shall the presence or absence of a PPA project Engineer or Authority's Representative relieve the Contractor from any of his responsibility under the Contract.

6.08 FACILITIES/ACCOMMODATION TO BE PROVIDED

- The Contractor shall provide the use of a vehicle with driver, boats, boatmen, laborers, equipment, appliances and materials forming part of the ordinary and usual equipment/plant and workforce as may be necessary for inspecting and supervising the supply, construction, delivery and installation of navigational aids system.
- The Contractor shall provide a temporary site facility for office and worksite purposes of the Contractor's Personnel and Authority's Representatives. The room shall be fully equipped and maintained to the satisfaction of the Authority. It shall be properly lighted and ventilated.

6.09 MODE OF PAYMENT

- The total amount to be paid for under this contract will be measured by the actual work accomplished after the work specified is completed or immediately after the cut-off date to be set if the Contractor opted for interim payments.
- Payments for supply, delivery and installation works will be made not often than once a month. Payments shall be made upon the estimates of work satisfactorily completed by the Contractor and accepted by the Authority during the preceding period.
- Upon such estimate, the Authority shall pay the Contractor a sum equal to ninety percent (90%) thereof up to and until such time as the total supply, delivery and installation works shall have been completed.
- The bid unit rate for supply, delivery, and works applies to any additional materials or works needed to complete the works.

PROJECT NAME: PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

**AIDS TO MARINE NAVIGATION SPECIFICATION AND PROPOSED LOCATION
(Duly Coordinated with Philippine Coast Guard)
PORT OF CALAPAN, ORIENTAL MINDORO**

| Buoy name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|-----------|---------------------------------|-----------------------------|------------|---------------------------------|---------------------------------|
| CM-PHM 1 | 13°26'5.7"N 121°11'16.99"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| CM-SHM 2 | 13°25'43.06"N 121°10'54.22"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| CM-PHM 3 | 13°25'57.58"N 121°11'34.90"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| CM-SHM 4 | 13°25'41.6"N 121°11'18.0"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |

PORT OF PUERTO GALERA (BALATERO), ORIENTAL MINDORO

| Buoy Name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|-----------|---------------------------------|-----------------------------|------------|---------------------------------|---------------------------------|
| PGM-LPM 1 | 13°30'48.38"N 120°56'13.36"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| PGM-LSM 2 | 13°30'48.49"N 120°55'52.76"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| PGM-LPM 3 | 13°30'29.08"N 120°56'11.95"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| PGM-LSM 4 | 13°30'28.57"N 120°55'58.62"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |

| | | | | | |
|-----------|---------------------------------|------------------------|---------------------------------------|--|---|
| PGM-NCM A | 13°32'14.50"N 120°56'57.03"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing | White: Very Quick or Quick |
| PGM-WCM B | 13°31'59.68"N 120°56'43.59"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| PGM-WCM C | 13°31'44.32"N 120°56'31.00"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| PGM-WCM D | 13°31'27.54"N 120°56'20.69"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| PGM-WCM E | 13°31'8.51"N 120°56'15.95"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| PGM-NCM F | 13°30'46.74"N 120°54'27.70"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing Upward | White: Very Quick or Quick |
| PGM-NCM G | 13°30'49.02"N 120°54'46.51"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing Upward | White: Very Quick or Quick |
| PGM-NCM H | 13°30'50.75"N 120°55'3.42"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing Upward | White: Very Quick or Quick |
| PGM-NCM I | 13°30'52.87"N 120°55'20.18"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing Upward | White: Very Quick or Quick |
| PGM-NCM J | 13°30'54.63"N 120°55'36.91"E | North Cardinal Mark | Black above Yellow | 2 Black Cones One Above the Other Pointing Upward | White: Very Quick or Quick |

PORT OF MANSALAY, ORIENTAL MINDORO

| Buoy name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|-----------|---------------------------------|-----------------------------|------------|---------------------------------|---------------------------------|
| M-LPM 1 | 12°30'22.69"N 121°27'8.31"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| M-LSM 2 | 12°30'35.02"N 121°27'28.52"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| M-LPM 3 | 12°30'41.55"N 121°27'1.55"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| M-LSM 4 | 12°30'50.34"N 121°27'17.95"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| M-LPM 5 | 12°31'2.6"N 121°26'53.91"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| M-LSM 6 | 12°31'7.71"N 121°27'6.6"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |

PORT OF ROXAS, ORIENTAL MINDORO

| Buoy name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|-----------|---------------------------------|-----------------------------|------------|---------------------------------|---------------------------------|
| R-PHM 1 | 12°34'44.01"N 121°32'21.58"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| R-SHM 2 | 12°35'21.09"N 121°32'49.79"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| R-PHM 3 | 12°35'2.96"N 121°32'4.91"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| R-SHM 4 | 12°35'30.12"N 121°32'27.87"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| R-PHM 5 | 12°35'20.06"N 121°31'49.58"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |

| | | | | | |
|---------|--------------------------------|--------------------------------|-----|------------------------------------|-------------------------|
| R-SHM 6 | 12°35'38.94"N 121°32'5.68"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
|---------|--------------------------------|--------------------------------|-----|------------------------------------|-------------------------|

PORT OF BULALACAO

| Buoy Name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|------------|---------------------------------|--------------------------------|---------------------------------------|--|--|
| Bul-LPHM 1 | 12°17'32.12"N 121°20'42.84"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| Bul-LSHM 2 | 12°17'44.15"N 121°21'23.90"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| Bul-LPHM 3 | 12°17'54.23"N 121°20'39.84"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| Bul-LSHM 4 | 12°18'5.72"N 121°21'14.69"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| Bul-LPHM 5 | 12°18'17.41"N 121°20'36.52"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| Bul-LSHM 6 | 12°18'26.86"N 121°21'5.37"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| Bul-SCM A | 12°14'45.22"N 121°22'43.37"E | South Cardinal Mark | Yellow above Black | 2 Black Cones One Above the Other Pointing Downward | White: VQ (6) + Long Flash every 10s or Q (6) + Long Flash ev15s |
| Bul-WCM B | 12°15'13.61"N 121°22'29.35"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| Bul-WCM D | 12°16'13.26"N 121°22'2.69"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
| Bul-WCM F | 12°17'12.95"N 121°21'36.98"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |

PORT OF SAN JOSE OCCIDENTAL MINDORO

| Buoy Name | Coordinates | Type of Buoy | Buoy Color | Top Mark | Light Color and Characteristics |
|-----------|---------------------------------|-----------------------------|---------------------------------|---|--|
| SJM-PHM 1 | 12°13'21.31"N 121° 6'41.30"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| SJM-SHM 2 | 12°13'34.46"N 121° 7'8.29"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| SJM-PHM 3 | 12°14'37.96"N 121° 6'5.47"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| SJM-SHM 4 | 12°14'45.35"N 121° 6'24.45"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| SJM-PHM 5 | 12°15'53.04"N 121° 5'29.11"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| SJM-SHM 6 | 12°15'58.50"N 121° 5'44.31"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| SJM-PHM 7 | 12°17'36.80"N 121° 4'49.75"E | Lateral Port Hand Mark | Green | Single Green Cylindrical Can | Fl 2 Green every 5 sec |
| SJM-SHM 8 | 12°17'46.13"N 121° 5'22.09"E | Lateral Starboard Hand Mark | Red | Single Red Cone Pointing Upward | Fl 2 Red every 5 sec |
| SJM-SCM A | 12°19'25.37"N 121° 2'39.42"E | South Cardinal Mark | Yellow above Black | 2 Black Cones One Above the Other Pointing Downward | White: VQ (6) + Long Flash every 10s or Q (6) + Long Flash every 15s |
| SJM-SCM B | 12°19'30.53"N 121° 3'38.79"E | South Cardinal Mark | Yellow above Black | 2 Black Cones One Above the Other Pointing Downward | White: VQ (6) + Long Flash every 10s or Q (6) + Long Flash every 15s |
| SJM-SCM C | 12°19'36.47"N 121° 4'38.06"E | South Cardinal Mark | Yellow above Black | 2 Black Cones One Above the Other Pointing Downward | White: VQ (6) + Long Flash every 10s or Q (6) + Long Flash every 15s |
| SJM-WCM D | 12°18'19.15"N 121° 5'24.71"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |

Proposed Construction and Offshore Installation of Aids to Marine Navigation, Mindoro Cluster : Ports of Calapan, Puerto Galera, Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro

| | | | | | |
|-----------|---------------------------------|-----------------------|---------------------------------------|---------------------------------|---|
| SJM-WCM E | 12°18'52.42"N 121° 5'28.37"E | West Cardinal Mark | Yellow w/ Horizontal Black Band | 2 Black Cones Point to Point | VQ (9) every 10 sec or Q (9) every 15 sec |
|-----------|---------------------------------|-----------------------|---------------------------------------|---------------------------------|---|

| LOCATION | TYPE OF BUOY | NO. OF BUOY | SUB- TOTAL |
|----------------|-----------------------------------|-------------|------------|
| Calapan Port | Lateral Port Hand Mark (LPM) | 2 | 4 |
| | Lateral Starboard Hand Mark (LSM) | 2 | |
| Puerto Galera | Lateral Port Hand Mark (LPM) | 2 | 14 |
| | Lateral Starboard Hand Mark (LSM) | 2 | |
| | North Cardinal Mark (NCM) | 6 | |
| | West Cardinal Mark (WCM) | 4 | |
| Mansalay Port | Lateral Port Hand Mark (LPM) | 3 | 6 |
| | Lateral Starboard Hand Mark (LSM) | 3 | |
| Roxas Port | Lateral Port Hand Mark (LPM) | 3 | 6 |
| | Lateral Starboard Hand Mark (LSM) | 3 | |
| San Jose Port | Lateral Port Hand Mark (LPM) | 5 | 13 |
| | Lateral Starboard Hand Mark (LSM) | 5 | |
| | North Cardinal Mark (NCM) | 3 | |
| Bulalacao Port | Lateral Port Hand Mark (LPM) | 3 | 10 |
| | Lateral Starboard Hand Mark (LSM) | 3 | |
| | South Cardinal Mark (NCM) | 1 | |
| | West Cardinal Mark (WCM) | 3 | |

TOTAL 53

SECTION VII
PROJECT DRAWINGS
(DEVELOPMENT PLANS)

**BUOY'S CHAIN AND CABLE BASE LENGTH (PROPOSED)
RE; AIDS TO MARINE NAVIGATION**

CALAPAN, ORIENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ACTUAL DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|--------------|-----------|---------------------------------|------------------|--------|--------|--------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | CM-PHM 1 | 13°26'5.7"N 121°11'16.99"E | 79.00 | 30.00 | 32 mm | 79.00 | 25 mm | 109.00 | X 1.4 |
| 2 | CM-SHM 2 | 13°25'43.06"N 121°10'54.22"E | 21.00 | 15.00 | 32 mm | 20.00 | 25 mm | 35.00 | X 1.7 |
| 3 | CM-PHM 3 | 13°25'57.58"N 121°11'34.90"E | 57.00 | 30.00 | 32 mm | 57.00 | 25 mm | 87.00 | X 1.5 |
| 4 | CM-SHM 4 | 13°25'41.6"N 121°11'18"E | 5.50 | 10.00 | 32 mm | 0.00 | 25 mm | 10.00 | X 1.8 |
| TOTAL | | | | 85.00 | | 156.00 | | 241.00 | |

PUERTO GALERA, ORIENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ACTUAL DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|--------------|-----------|---------------------------------|------------------|--------|--------|--------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | PGM-LPM 1 | 13°30'48.38"N 120°56'13.36"E | 15.00 | 10.00 | 32 mm | 15.00 | 25 mm | 25.00 | X 1.7 |
| 2 | PGM-LSM 2 | 13°30'48.49"N 120°55'52.76"E | 21.00 | 15.00 | 32 mm | 20.00 | 25 mm | 35.00 | X 1.7 |
| 3 | PGM-LPM 3 | 13°30'29.08"N 120°56'11.95"E | 21.00 | 15.00 | 32 mm | 20.00 | 25 mm | 35.00 | X 1.7 |
| 4 | PGM-LSM 4 | 13°30'28.57"N 120°55'58.62"E | 16.00 | 10.00 | 32 mm | 20.00 | 25 mm | 30.00 | X 1.9 |
| 5 | PGM-NCM A | 13°32'14.5"N 120°56'57.03"E | 72.00 | 30.00 | 32 mm | 72.00 | 25 mm | 102.00 | X 1.4 |
| 6 | PGM-WCM B | 13°31'59.68"N 120°56'43.59"E | 70.00 | 30.00 | 32 mm | 70.00 | 25 mm | 100.00 | X 1.4 |
| 7 | PGM-WCM C | 13°31'44.32"N 120°56'31.00"E | 64.00 | 30.00 | 32 mm | 64.00 | 25 mm | 94.00 | X 1.5 |
| 8 | PGM-WCM D | 13°31'27.54"N 120°56'20.69"E | 55.00 | 30.00 | 32 mm | 55.00 | 25 mm | 85.00 | X 1.5 |
| 9 | PGM-WCM E | 13°31'8.51"N 120°56'15.95"E | 15.00 | 10.00 | 32 mm | 15.00 | 25 mm | 25.00 | X 1.7 |
| 10 | PGM-NCM F | 13°30'46.74"N 120°54'27.70"E | 12.50 | 10.00 | 32 mm | 15.00 | 25 mm | 25.00 | X 2.0 |
| 11 | PGM-NCM G | 13°30'49.02"N 120°54'46.51"E | 23.50 | 15.00 | 32 mm | 25.00 | 25 mm | 40.00 | X 1.7 |
| 12 | PGM-NCM H | 13°30'50.75"N 120°55'3.42"E | 35.00 | 20.00 | 32 mm | 35.00 | 25 mm | 55.00 | X 1.6 |
| 13 | PGM-NCM I | 13°30'52.87"N 120°55'20.18"E | 16.50 | 10.00 | 32 mm | 20.00 | 25 mm | 30.00 | X 1.8 |
| 14 | PGM-NCM J | 13°30'54.63"N 120°55'36.91"E | 19.00 | 10.00 | 32 mm | 20.00 | 25 mm | 30.00 | X 1.6 |
| TOTAL | | | | 245.00 | | 466.00 | | 711.00 | |

NOTE:

- * Coordinates herein listed were provided by PCG-MSSC and depths were determined by actual survey of the area.

MANSALAY, ORIENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ESTIMATED DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|-----|-----------|---------------------------------|---------------------|--------|--------|--------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | M-LPM 1 | 12°30'22.69"N 121°27'8.31"E | 38.00 | 40.00 | 32 mm | 20.00 | 25 mm | 60.00 | X 1.5 |
| 2 | M-LSM 2 | 12°30'35.02"N 121°27'28.52"E | 37.00 | 35.00 | 32 mm | 20.00 | 25 mm | 55.00 | X 1.4 |
| 3 | M-LPM 3 | 12°30'41.55"N 121°27'1.55"E | 31.00 | 35.00 | 32 mm | 15.00 | 25 mm | 50.00 | X 1.6 |
| 4 | M-LSM 4 | 12°30'50.34"N 121°27'17.95"E | 24.20 | 25.00 | 32 mm | 15.00 | 25 mm | 40.00 | X 1.6 |
| 5 | M-LPM 5 | 12°31'2.6"N 121°26'53.91"E | 7.10 | 0.00 | 32 mm | 15.00 | 25 mm | 15.00 | X 2.1 |
| 6 | M-LSM 6 | 12°31'7.71"N 121°27'6.60"E | 3.60 | 0.00 | 32 mm | 10.00 | 25 mm | 10.00 | X 2.7 |

TOTAL

135.00
160

95.00
70

230.00

SAN JOSE, OCCIDENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ESTIMATED DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|-----|-----------|--------------------------------|---------------------|--------|--------|--------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | SJM-PHM 1 | 12°13'21.31"N 121°6'41.30"E | 21.20 | 15.00 | 32 mm | 20.00 | 25 mm | 35.00 | X 1.6 |
| 2 | SJM-SHM 2 | 12°13'34.46"N 121°7'8.29"E | 7.20 | 15.00 | 32 mm | 0.00 | 25 mm | 15.00 | X 2.0 |
| 3 | SJM-PHM 3 | 12°14'37.96"N 121°6'5.47"E | 28.20 | 15.00 | 32 mm | 30.00 | 25 mm | 45.00 | X 1.6 |
| 4 | SJM-SHM 4 | 12°14'45.35"N 121°6'24.45"E | 6.30 | 15.00 | 32 mm | 0.00 | 25 mm | 15.00 | X 2.4 |
| 5 | SJM-PHM 5 | 12°15'53.0"N 121°5'29.11"E | 17.60 | 10.00 | 32 mm | 20.00 | 25 mm | 30.00 | X 1.7 |
| 6 | SJM-SHM 6 | 12°15'58.50"N 121°5'44.31"E | 14.70 | 10.00 | 32 mm | 15.00 | 25 mm | 25.00 | X 1.7 |
| 7 | SJM-PHM 7 | 12°17'36.80"N 121°4'49.75"E | 24.40 | 15.00 | 32 mm | 25.00 | 25 mm | 40.00 | X 1.6 |
| 8 | SJM-SHM 8 | 12°17'46.13"N 121°5'22.09"E | 8.80 | 5.00 | 32 mm | 15.00 | 25 mm | 20.00 | X 2.3 |
| 9 | SJM-SCM A | 12°19'25.37"N 121°2'39.42"E | 14.90 | 10.00 | 32 mm | 15.00 | 25 mm | 25.00 | X 1.7 |
| 10 | SJM-SCM B | 12°19'30.53"N 121°3'38.79"E | 4.60 | 10.00 | 32 mm | 0.00 | 25 mm | 10.00 | X 2.2 |
| 11 | SJM-SCM C | 12°19'36.47"N 121°4'38.06"E | 8.40 | 15.00 | 32 mm | 0.00 | 25 mm | 15.00 | X 1.8 |
| 12 | SJM-WCM D | 12°18'19.15"N 121°5'24.71"E | 6.00 | 10.00 | 32 mm | 0.00 | 25 mm | 10.00 | X 1.7 |
| 13 | SJM-WCM E | 12°18'52.42"N 121°5'28.37"E | 5.90 | 10.00 | 32 mm | 0.00 | 25 mm | 10.00 | X 1.7 |

TOTAL

155.00

140.00

295.00

NOTE:

- * Coordinates herein listed were provided by PCG-MSSC and same were plotted on NAMRIA'S chart, thereon, depths were determined.

ROXAS, ORIENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ESTIMATED DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|--------------|-----------|---------------------------------|---------------------|---------------|--------|---------------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | R PHM 1 | 12°34'44.01"N 121°32'21.58"E | 198.00 | 198.00 | 32 mm | 30.00 | 25 mm | 228.00 | X 1.1 |
| 2 | R-SHM 2 | 12°35'21.09"N 121°32'49.79"E | 104.00 | 104.00 | 32 mm | 30.00 | 25 mm | 134.00 | X 1.2 |
| 3 | R PHM 3 | 12°35'2.96"N 121°32'4.91"E | 80.00 | 80.00 | 32 mm | 30.00 | 25 mm | 110.00 | X 1.3 |
| 4 | R-SHM 4 | 12°35'30.12"N 121°32'27.87"E | 8.00 | 0.00 | 32 mm | 15.00 | 25 mm | 15.00 | X 1.6 |
| 5 | R PHM 5 | 12°35'20.06"N 121°31'49.58"E | 3.60 | 0.00 | 32 mm | 10.00 | 25 mm | 10.00 | X 2.7 |
| 6 | R-SHM 6 | 12°35'38.94"N 121°32'5.68"E | 5.40 | 0.00 | 32 mm | 10.00 | 25 mm | 10.00 | X 1.8 |
| TOTAL | | | | 382.00 | | 125.00 | | 507.00 | |

BULALACAO, ORIENTAL MINDORO

| NO. | BUOY NAME | COORDINATES | ESTIMATED DEPTH (M) | CABLE | | CHAIN | | TOTAL (LENGTH) | RATIO W/ DEPTH |
|--------------|------------|---------------------------------|---------------------|---------------|--------|---------------|--------|----------------|----------------|
| | | | | LENGTH | (DIA.) | LENGTH | (DIA.) | | |
| 1 | Bul-LPHM 1 | 12°17'32.12"N 121°20'42.84"E | 43.70 | 25.00 | 32 mm | 40.00 | 25 mm | 65.00 | X 1.5 |
| 2 | Bul-LSHM 2 | 12°17'44.15"N 121°21'23.90"E | 41.00 | 20.00 | 32 mm | 40.00 | 25 mm | 60.00 | X 1.5 |
| 3 | Bul-LPHM 3 | 12°17'54.23"N 121°20'39.84"E | 40.00 | 20.00 | 32 mm | 40.00 | 25 mm | 60.00 | X 1.5 |
| 4 | Bul-LSHM 4 | 12°18'5.72"N 121°21'14.69"E | 40.00 | 20.00 | 32 mm | 40.00 | 25 mm | 60.00 | X 1.5 |
| 5 | Bul-LPHM 5 | 12°18'17.41"N 121°20'36.52"E | 32.90 | 15.00 | 32 mm | 35.00 | 25 mm | 50.00 | X 1.5 |
| 6 | Bul-LSHM 6 | 12°18'26.86"N 121°21'5.37"E | 34.70 | 20.00 | 32 mm | 35.00 | 25 mm | 55.00 | X 1.6 |
| 7 | Bul-SCM A | 12°14'45.22"N 121°22'43.37"E | 89.60 | 30.00 | 32 mm | 89.00 | 25 mm | 119.00 | X 1.3 |
| 8 | Bul-WCM B | 12°15'13.61"N 121°22'29.35"E | 81.00 | 30.00 | 32 mm | 81.00 | 25 mm | 111.00 | X 1.4 |
| 9 | Bul-WCM C | 12°16'13.26"N 121°22'2.69"E | 60.80 | 30.00 | 32 mm | 60.00 | 25 mm | 90.00 | X 1.5 |
| 10 | Bul-WCM D | 12°17'12.95"N 121°21'36.98"E | 52.00 | 30.00 | 32 mm | 50.00 | 25 mm | 80.00 | X 1.5 |
| TOTAL | | | | 240.00 | | 510.00 | | 750.00 | |

NOTE:

- * Coordinates herein listed were provided by PCG-MSSC and same were plotted on NAMRIA'S chart, thereon, depths were determined.

Prepared by:

FELIPE C. TEMPLONUEVO
Engineering Assistant A

Recommending Approval:

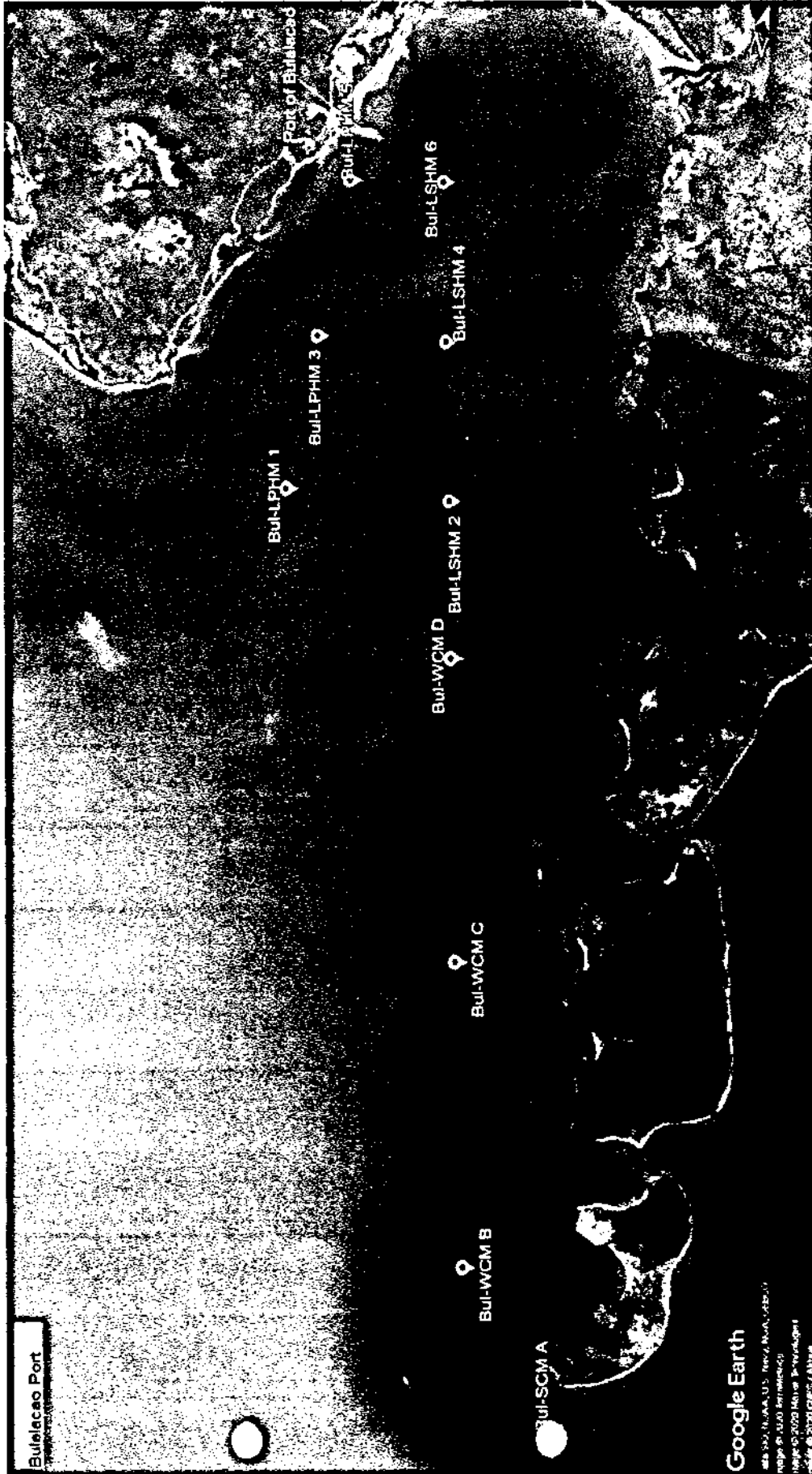
ROGERIO M. CASCANTE
Manager, PSD

Approved:

ROLANDO K. PEREZ
Manager, DSD

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Bulelacao Port

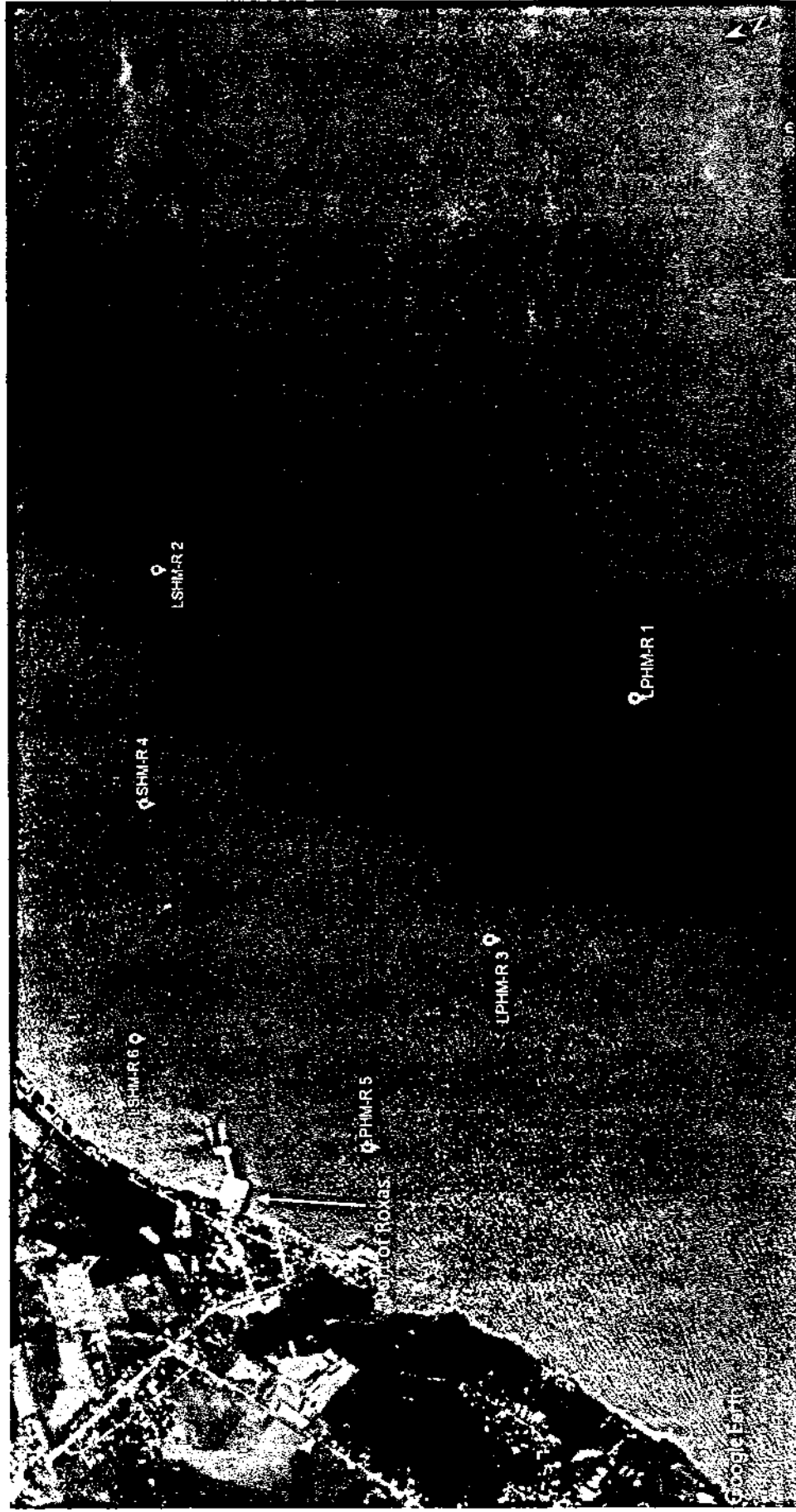
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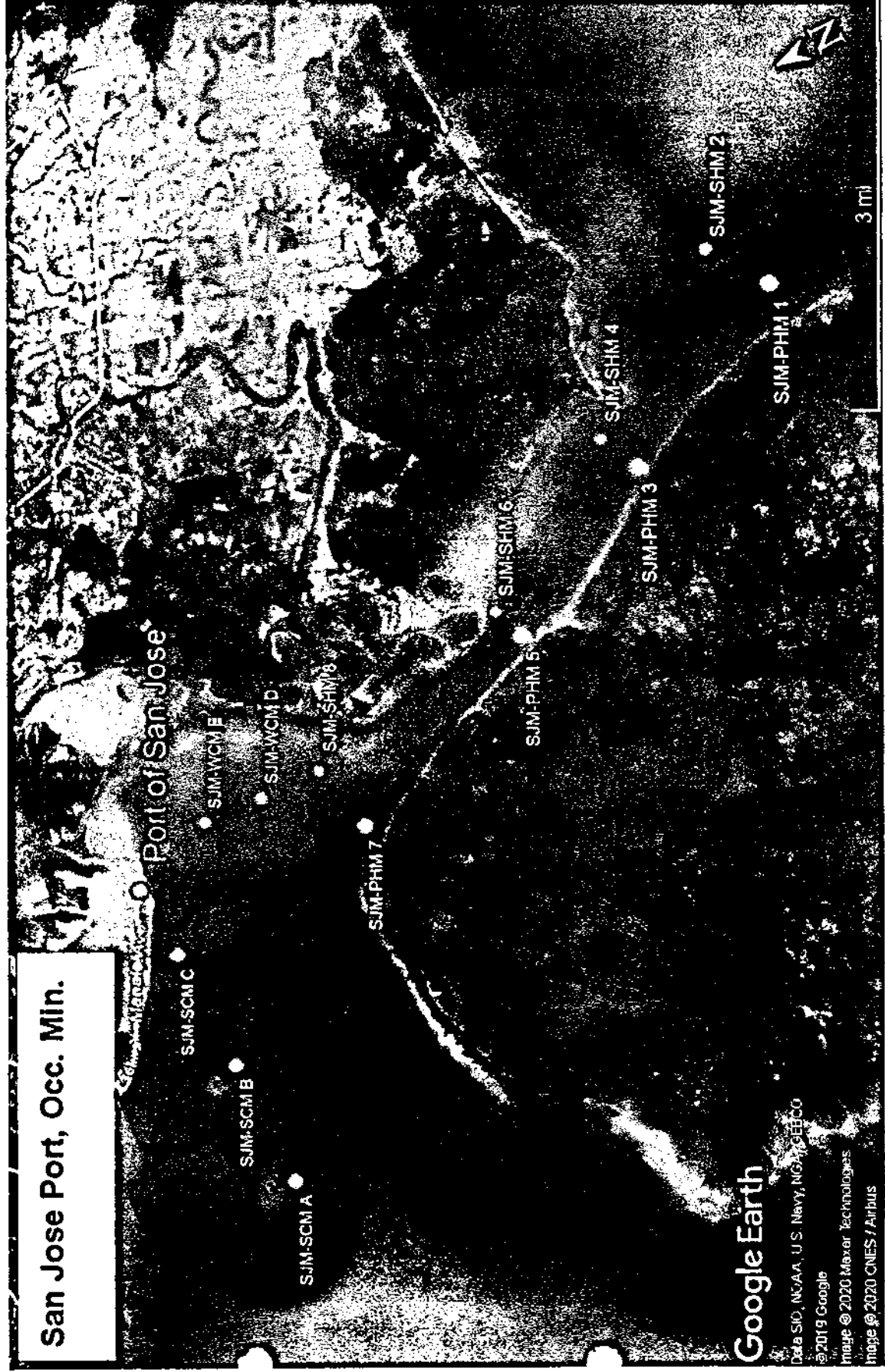
Mansalay Port



Roxas Port



San Jose Port, Occ. Min.



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SECTION VIII
BILL OF QUANTITIES
AND
ATTACHMENTS

BILL OF QUANTITIES
Proposed Construction and Offshore Installation of Aids to Marine Navigation, Mindoro Cluster : Ports of Calapan, Puerto Galera,
Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro

| NO. (1) | DESCRIPTION OF WORK (2) | UNIT (3) | QTY. (4) | UNIT PRICE (Pesos) (5) | AMOUNT (Pesos) (4) x (5) |
|--|---|-------------|-------------|------------------------------|--------------------------------|
| BILL NO. 1 | GENERAL EXPENSES | | | | |
| 1.01 | Mobilization/Demobilization and Cleaning/Clearing | I.s. | 1.00 | | |
| 1.02 | Provide Environmental Safety and Health Program in the execution of the project | I.s. | 1.00 | | |
| 1.03 | Provide the Upkeep and Maintenance of Temporary Facility | I.s. | 1.00 | | |
| TOTAL FOR BILL NO. 1 - GENERAL EXPENSES | | | | | |

BILL OF QUANTITIES
Proposed Construction and Offshore Installation of Aids to Marine Navigation, Mindoro Cluster : Ports of Calapan, Puerto Galera,
Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro

| NO. (1) | DESCRIPTION OF WORK (2) | UNIT (3) | QTY. (4) | UNIT PRICE (Pesos) (5) | AMOUNT (Pesos) (4) x (5) |
|-----------------------------|---|-------------|-------------|------------------------------|--------------------------------|
| BILL NO. 2 | CONSTRUCTION, DELIVERY AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION SYSTEM | | | | |
| 2.01 | Construction and delivery at site of mooring system | sets | 53.00 | | |
| 2.02 | Supply, delivery & installation at site of mooring chains | sets | 53.00 | | |
| 2.03 | Offshore Installation of mooring system at designated site, including buoys and navigational marine lights | sets | 53.00 | | |
| TOTAL FOR BILL NO. 2 | | | | | |

BILL OF QUANTITIES
Proposed Construction and Offshore Installation of Aids to Marine Navigation, Mindoro Cluster : Ports of Calapan, Puerto Galera,
Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro

| NO. (1) | DESCRIPTION OF WORK (2) | UNIT (3) | QTY. (4) | UNIT PRICE (Pesos) (5) | AMOUNT (Pesos) (4) x (5) |
|-----------------------------|--|---------------------------|---------------------------|---|---|
| BILL NO. 3 | SUPPLY, CONSTRUCT AND OFFSHORE INSTALLATION OF SOLAR-POWERED LIGHTED BUOYS ASSEMBLY | | | | |
| 3.01 | Supply, construct, deliver and install at staging area of polyethylene buoys | sets | 53.00 | | |
| 3.02 | Supply, test and install at site the Marine Lanterns Assembly | sets | 53.00 | | |
| TOTAL FOR BILL NO. 3 | | | | | |

BILL OF QUANTITIES
Proposed Construction and Offshore Installation of Aids to Marine Navigation, Mindoro Cluster : Ports of Calapan, Puerto Galera,
Mansalay, Roxas and Bulalacao, Oriental Mindoro and San Jose, Occidental Mindoro

| NO. (1) | DESCRIPTION OF WORK (2) | UNIT (3) | QTY. (4) | UNIT PRICE (Pesos) (5) | AMOUNT (Pesos) (4) x (5) |
|-----------------------------|---|-------------|-------------|------------------------------|--------------------------------|
| BILL NO. 4 | OFFSHORE COMMISSIONING, TESTING AND OBSERVATION OF AID TO MARINE NAVIGATION | | | | |
| 4.01 | Offshore commissioning, testing and observation of buoys and navigational marine lanterns | sets | 53.00 | | |
| TOTAL FOR BILL NO. 4 | | | | | |

FACILITIES TO BE PROVIDED FOR THE ENGINEER & HIS STAFF

PROJECT NAME : *PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

LOCATION : *CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

0

A. SITE OFFICE

The Contractor shall rent/lease a fully furnished and air-conditioned temporary site office for use of the Engineer and his staff with a floor area of at least 30 sq.m. It shall be provided or connected with electricity, portable water supply and drainage/sewerage system. The said site office shall have tiled bathroom/toilet complete with fixtures and partitions for at least two (2) rooms. The field office shall be located within or near the project site as approved by the Project Manager/Engineer.

B. OFFICE AND SURVEY EQUIPMENT

The Contractor shall purchase the following main items of brand new office and survey equipment for use of the Engineer and his staff. The Contractor shall make available for use of the Engineer other equipment as may be necessary for the proper functioning of the office. The procured equipment shall be the property of PPA. Operation and maintenance shall be borne by PPA after the completion of the project.

1 unit **SERVICE VEHICLE;** 6 speed A/T; 2.2 L; Max Power 147Hp @ 3,400 rpm Diesel/Gasoline with; Power Steering, Power Window and Power Door Lock capable; Includes Registration, Insurance, Misc.

1 unit **LAPTOP**

Operating System Windows 10 Home

- Processor Intel®
- Processor Type Core™ i5
- Processor Model i5-9300H
- Processor Speed 2.40 GHz
- Processor Core Quad-core (4 Core™)

Display & Graphics

- Graphics Controller Manufacturer NVIDIA®
- Graphics Controller Model GeForce® GTX 1650
- Graphics Memory Capacity Up to 4 GB
- Graphics Memory Technology GDDR5
- Graphics Memory Accessibility Dedicated
- Screen Size 39.6 cm (15.6")
- Display Screen Type LCD
- Display Screen Technology ComfyView In-plane Switching (IPS) Technology
- Screen Mode Full HD

- Backlight Technology LED
- Screen Resolution 1920 x 1080
- Standard Refresh Rate 144 Hz
- Memory 8 GB
- Memory Technology DDR4 SDRAM
- Number of Total Memory Slots 2

Storage

- Solid State Drive Configuration 1 x 512 GB
- Total Solid State Drive Capacity 512 GB
- Optical Drive Type No

Network & Communication

- Wireless LAN Standard IEEE 802.11ac
- Ethernet Technology Gigabit Ethernet
- Bluetooth Standard Bluetooth 5.0

Built-in Devices

- Microphone Yes
- Finger Print Reader No
- Number of Speakers 2
- Sound Mode Stereo

Interfaces/Ports

- HDMI Yes
- Number of USB 2.0 Ports 1
- Number of USB 3.1 Gen 1 Type-A Ports 2
- Number of USB 3.1 Gen 1 Type-C Ports 1
- Total Number of USB Ports 4
- USB Type-C Yes
- Network (RJ-45) Yes

Software

- Operating System Windows 10 Home
- Operating System Architecture 64-bit

Input Devices

- Pointing Device Type TouchPad
- Keyboard Yes
- Keyboard Backlight Yes

Battery Information

- Number of Cells 4-cell
- Battery Chemistry Lithium Ion (Li-Ion)
- Maximum Battery Run Time 8 Hour

Power Description

- Maximum Power Supply Wattage 135 W

Physical Characteristics

- Height 22.90 mm
- Width 363.4 mm
- Depth 259.1 mm

1 pc. OFFICE DESK PRINTER; Wide Format (A3)

• **Superb Quality and Cost-savings**

The L1455 prints black and white documents with razor sharp text that are water and smudge-resistant. Print lab-quality glossy photos on photo media paper at a high resolution output of 4800dpi. Each set of inks enables to yield 6,000 pages for black and 6,500 pages for colour.

- **Print up to A3+**
Print larger and clearer documents, spreadsheets, diagrams and charts to bring out maximum detail and clarity at A3+ size. The multi-function printer should support copying and faxing up to A3 size.
- **High Speed Duplex Printing**
The printer should be equipped with versatile, high-speed solutions for commercial, industrial and office printing.
- **Duplex Automatic Document Feeder**
The printer should be equipped with a 35-sheet duplex ADF unit for convenient scanning and copying of double-sided documents, even up to A3 size.
- **Convenient Connectivity**
- **Network Connectivity and Standalone Capability**
Equipped with Ethernet, Wi-Fi, and Wi-Fi Direct*, The printer should be perfect for office environments. Wi-Fi Direct acts as an access point, allowing up to four devices to connect directly to the printer at a time without a router.
- **LCD Screen**
Experience easy setup and PC-less operation with a 4.3" touchscreen colour LCD.
- **Dual 250 Sheets Input**
The printer should come equipped with dual 250-sheets input trays, allowing you to set 2 different paper sizes in separate trays, saving your time and effort in printing documents of different sizes." touchscreen colour LCD.
- **Single Sheet Rear Feeder**
A single sheet feeder lets you set labels, thick paper, envelopes and photo paper conveniently." touchscreen colour LCD.
- **Card Slots/USB Host Function**
The printer should come with card slots (SD Card & Memory Stick) and USB port for printing, scanning and saving

1 pc. **COMMUNICATION UNIT**

Display

- Liquid Retina display
- 12.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2732x2048-pixel resolution at 264 pixels per inch (ppi)
- ProMotion technology
- Wide colour display (P3)
- True Tone display
- Fingerprint-resistant oleophobic coating
- Fully laminated display
- Anti-reflective coating
- 1.8% reflectivity
- 600 nits brightness

Chip

- A12Z Bionic chip with 64-bit architecture
- Neural Engine
- Embedded M12 coprocessor

Camera

- Wide: 12MP, *f*/1.8 aperture
- Ultra Wide: 10MP, *f*/2.4 aperture and 125° field of view
- 2x optical zoom out; digital zoom up to 5x
- Five-element lens (Wide and Ultra Wide)
- Brighter True Tone flash
- Panorama (up to 63MP)

- Sapphire crystal lens cover
- Backside illumination sensor
- Hybrid IR filter
- Autofocus with Focus Pixels (Wide)
- Tap to focus with Focus Pixels (Wide)
- Wide colour capture for photos and Live Photos
- Exposure control
- Noise reduction
- Smart HDR for photos
- Auto image stabilisation
- Burst mode
- Timer mode
- Photo geotagging
- Image formats captured: HEIF and JPEG

Video Recording

- 4K video recording at 24 fps, 30 fps or 60 fps (Wide); 60 fps (Ultra Wide)
- 1080p HD video recording at 30 fps or 60 fps
- 720p HD video recording at 30 fps
- Brighter True Tone flash
- Slow-motion video support for 1080p at 120 fps or 240 fps (Wide); 240 fps (Ultra Wide)
- Time-lapse video with stabilisation
- Cinematic video stabilisation (1080p and 720p)
- Continuous autofocus video
- Noise reduction
- Take 8MP still photos while recording 4K video
- Playback zoom
- Video geotagging
- Video formats captured: HEVC and H.264

True Depth Camera

- 7MP photos
- Portrait mode
- Portrait Lighting
- Animoji and Memoji
- 1080p HD video recording at 30 fps or 60 fps
- Retina Flash
- $f/2.2$ aperture
- Wide colour capture for photos and Live Photos
- Smart HDR
- Backside illumination sensor
- Auto image stabilisation
- Burst mode
- Exposure control
- Timer mode

Video Calling

- FaceTime video
- iPad to any FaceTime-enabled device over Wi-Fi or mobile data

Audio Calling

- FaceTime audio
- iPad to any FaceTime-enabled device over Wi-Fi or mobile data

Operating System

- iPadOS

- iPadOS comes with powerful features and built-in apps designed to take advantage of the unique capabilities of iPad.

- 1 pc. **AERIAL IMAGING DRONE;** equipped with a 1-inch 20-megapixel sensor capable of shooting 4K/60 fps video and Burst Mode stills at 14 fps. The Flight Autonomy system includes five vision sensors for 2-directional obstacle sensing and forward-vision obstacle avoidance. Adoption of titanium alloy and magnesium alloy for increase rigidity of the airframe and reduces weight. Includes : Camera Drone, Remote controller, Four pairs of propellers, Flight Battery, Battery charger, 16GB MicroSD card, Power cable, Micro USB cable, USB OTG cable, Carrying case, and Gimbal clamp.

- Weight 3 lbs.
- Max Ascent Speed 13.4 MPH
- Max Descent Speed 8.9 MPH
- Max Forward Speed 45 MPH
- Max Ceiling 400 ft. (Electronically Limited)
- Max Flight Time 28 min.
- Operating Temp 32° to 104°F
- Satellite Systems GPS & GLONASS
- Obstacle Sensory Range 2 to 49 ft.
- Gimbal Control Range -90° to +30° Pitch
- Camera Sensor 1/2.3"
- Lens FOV 94°
- ISO Range 100-3200
- Max Image Size 4000x3000
- Max Video Size 4096x2160
- Max Video Bitrate 60 Mbps
- File Systems FAT32, exFAT
- Photo Formats JPEG, DNG
- Video Formats MP4, MOV, MPEG
- Charger Specs 17.4v, 100w
- Remote Frequency 2.400-2.483 GHz
- Max Transmission Range 3.1 mi.
- Battery Model Intelligent Flight PH4
- Battery Specs 5,350 mAh, 15.2v

EQUIPMENT REQUIREMENT

PROJECT NAME : *PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

LOCATION : *CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

Proposed Project Description :

CONSTRUCT, SUPPLY, DELIVER, INSTALL AND COMMISSION 53 SETS OF SOLAR-POWERED LIGHTED OCEAN BUOYS, INCLUDING MOORING SYSTEM, AT DESIGNATED OFFSHORE SITE

I. 1 unit **Crane Barge, Non-propelled (319 GWT) with 60T mechanically operated crane (Owned)**

1 unit **Tugboat, 500hp (Owned or Leased)**

Or

1 unit **Crane Barge, Self-propelled (319 GWT) with 60T mechanically operated crane (Owned)**

II. 1 unit **Concrete Mixer, One Bagger, Min. (Owned)**

III. 1 unit **Bar Cutter, Electric, 25mm dia., Min. (Owned)**

IV. 1 unit **Bar Bender, Electric, 25mm dia., Min. (Owned)**

BASIS OF PAYMENT FOR WORK ITEMS INCLUDED IN THE PROPOSAL

PROJECT NAME : *PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

LOCATION : *CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*

The work items included in the proposal and the basis of payments are as follows:

BILL NO. 1 - GENERAL EXPENSES

Item 1.01 Mobilization/Demobilization and Cleaning/Clearing.

The quantity to be paid for shall be the actual number of minimum equipment requirement enumerated in the bid documents mobilized, demobilized and cleaning of the site and accepted by the Engineer. The contract lump sum price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to mobilize and demobilize all the minimum equipment requirement enumerated in the bid documents including cleaning of the site. Fifty percent (50%) of the total amount shall be payable after the mobilization activity while the remaining (50%) payable after demobilization and cleaning.

Item 1.02 Provide Environmental Safety and Health Program in the execution of the project.

The quantity to be paid for shall be the actual rental for temporary site office and residence for the engineer and staff and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary for the provision of temporary site office and residence for the engineer and staff.

Item 1.03 Provide the Upkeep and Maintenance of Temporary Facility

The quantity to be paid for shall be the actual services rendered in maintaining the site office and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the maintenance of the temporary site office and residence as well as other expenses such as provision for electric power, telephone bill, potable water supply, janitorial and security services.

BILL NO. 2 – CONSTRUCTION, DELIVERY AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION SYSTEM

Item 2.01 Construction/Fabrication and delivery at site of the mooring system

Item 2.02 Supply, delivery and installation at site of the mooring chains

Item 2.03 Offshore Installation of mooring system at designated site, including buoys and navigational marine lights

The quantity to be paid for shall be the actual number of set/s supplied and delivered on site. However, 10% of the cost for the item/s delivered by the Contractor shall be temporarily withheld by PPA and shall only become demandable/payable upon installation and commissioning of the buoys.

Payment shall include freight and delivery cost; brokerage fees, if any; the cost of equipment, materials and labor in handling the items and all related works.

**BILL NO. 3 - SUPPLY, CONSTRUCT AND OFFSHORE INSTALLATION OF SOLAR- POWERED
LIGHTED BUOY ASSEMBLY**

- Item 3.01 Supply, construct, deliver and install at site 30 sets of polyethylene Buoys**
Item 3.02 Supply, test, deliver and install at site Marine Lanterns Assembly (Nav Aid)

The quantity to be paid for shall be the actual number of set/s supplied and delivered on site. However, 10% of the cost for the item/s delivered by the Contractor shall be temporarily withheld by PPA and shall only become demandable/payable upon installation and commissioning of the buoys. Payment shall include freight and delivery cost; brokerage fees, if any; the cost of equipment, materials and labor in handling the items and all related works.

**BILL NO. 4 – OFFSHORE COMMISSIONING, TESTING AND OBSERVATION OF AIDS TO
MARINE NAVIGATION**

- Item 4.01 Offshore commissioning, testing and observation of aids to marine navigation**

The quantity to be paid for shall be the actual number of navigational aids delivered and installed at the Entrance Channel. Payment shall be in accordance with the actual work accomplished include the cost of equipment, materials and labor in handling the items and all related works.

BILL NO. 5 - REIMBURSABLE ITEMS

- Item 5.01 Provide Office and Survey Equipment**

The quantity to be paid for shall be the actual number of office equipment, as enumerated on the bid documents, supplied and delivered in accordance with the specifications and accepted by the Engineer. The contract lump sum price shall be full compensation for providing all the reimbursable items. The amount of bid should not exceed the maximum amount stated in the Bid Data Sheet [ITB Clause 13.1 (a)]. Claims for payment shall be supported by Official Receipt(s) (OR). The amount to be paid for shall be the price indicated in the OR but should not exceed the contract lump sum price. Payment shall be in per item delivered with no OCM and Profit imputed in the unit cost.

SECTION IX

BIDDING FORMS

BID FORM

Date: _____
ITB No. _____ 2020

To: **Philippine Ports Authority**
Bonifacio Drive, South Harbor,
Port Area, Manila

We, the undersigned, declare that:

- a. We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract for the **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO;**
- b. We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid:

The total price of our Bid, excluding any discounts offered below is:

| BILL NO | DESCRIPTION | TOTAL AMOUNT |
|---------|--|--------------|
| 1 | GENERAL EXPENSES | P |
| 2 | CONSTRUCTION, DELIVERY AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION SYSTEM | |
| 3 | SUPPLY, CONSTRUCT AND DELIVERY OF SOLAR- POWERED LIGHTED BUOY ASSEMBLY | |
| 4 | OFFSHORE COMMISSIONING, TESTING AND OBSERVATION OF AIDS TO MARINE NAVIGATION | |
| 5 | REIMBURSABLE ITEMS | |
| | TOTAL AMOUNT OF BID (including VAT) | P |

The discounts offered and the methodology for their application are _____:

- c. Our Bid shall be valid for a period of 120 Calendar days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- d. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract;

- e. Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: [insert information];
- f. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- g. Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- h. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- i. We understand that you are not bound to accept the Lowest Evaluated Bid or any other Bid that you may receive.
- j. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO.**
- k. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

In the capacity of: _____

Signed: _____

Duly authorized to sign the Bid for and on behalf of: _____

Date: _____

**STATEMENT OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS,
INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED, WHETHER SIMILAR OR NOT SIMILAR IN NATURE**

| Name of the Contract or Title Of the Project 1] | Owner's Name and Address | Nature/ Scope of Work 2] | Contractor's Role (in percentage) 3] | Total Contract Value At | | | Date of Award 5] | Value of Outstanding Works | Estimated Time of Completion | % of Accomplishment | | Contract Duration 5] | |
|---|--------------------------|-----------------------------|---|-------------------------|-------------------------|---|---------------------|----------------------------|------------------------------|---------------------|--------|-------------------------|-----------|
| | | | | Award | Project Completion Date | Escalated Value to Present Prices 4] | | | | Planned | Actual | Start | Completed |
| A) Government Contracts I. On-going II. Awarded but not yet started B) Private Contracts I. On-going II. Awarded but not yet started | | | | | | | | | | | | | |

NOTE :

- 1] As appearing or defined in the contract entered/executed by the parties
- 2] With special reference to the Scope of Works as described/enumerated in the advertised Invitation To Bid.
- 3] Indicate whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium
- 4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso. Specify the "Escalation Factor" used to escalate the Contract Value from completion date to the advertisement date of the Invitation to Bid per section 23.11.2 (3) of R.A. 9184.
- 5] State Month and Year.

This notice shall be supported by:

- a) Notice of Award and/or Contract
- b) Notice to Proceed

Name of Firm/Applicant

Authorized Signing Official

Date

STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT (SLCC) SIMILAR TO THE CONTRACT TO BE BID

| Name of the Contract or Title Of the Project | Owner's Name and Address | Nature/ Scope of Work | Contractor's Role and Percentage of Participation | Total Contract Value At | | | Date of Award | Value of Outstanding Works | Contract Duration | |
|--|--------------------------|-----------------------|---|-------------------------|-------------------------|-----------------------------------|---------------|----------------------------|-------------------|-----------|
| | | | | Award | Project Completion Date | Escalated Value to Present Prices | | | Start | Completed |
| | | | | | | | | | | |

NOTE :

- 1] The prospective bidder must have completed as SLCC that is similar to the contract to be bid, and whose value, adjusted to current prices using the PSA consumer indices, must be at least fifty percent (50%) of the ABC to be bid.
- 2] This Statement shall be supported by:
 - a) Notice of Award and/or Notice to Proceed.
 - b) Project Owner's Certificate of Final Acceptance issued by the Owner other than the Contractor. Construction Performance Evaluation System (CPES) Final Rating, which must be at least satisfactorily.

Name of Firm/Applicant

Authorized Signing Official

Date

EXPERIENCE RECORD ON SIMILARLY COMPLETED PROJECTS

| Similar Major Operations of Work | Unit of Measure | Quantity | Title of the Project | | | | Unit of Measure | Quantity |
|---|-----------------|----------|----------------------|----------------------|----------------------|----------------------|-----------------|----------|
| | | | Title of the Project | Title of the Project | Title of the Project | Title of the Project | | |
| Experienced & Accredited in Ports, Harbors, & Offshore Engineering Projects, particularly related to: CONSTRUCTION, DELIVERY AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION SYSTEM | sets. | 27.00 | | | | | | |

NOTE: 1] Submit the Certificate of Completion/Certificate of Acceptance by the project owner, Final Recapitulation/Bill of Quantities and/or Constructor Performance Evaluation System (CPES) ratings, 1st, 2nd & Final visit (if applicable). Projects with no Certificate of Completion/Acceptance and Recapitulation/Bill of Quantities shall not be considered.

2] The Owner's Certificate of Final Acceptance; or the Contractors Performance Evaluation Summary (CPES) Final Rating and/or the Certificate of Completion, must be Satisfactorily.

Name of Firm/Applicant

Authorized Signing Official

Date

FINANCIAL DATA

- A. The prospective bidder's audited Financial Statements showing, among others, the prospective bidder's total and current assets and liabilities, stamped "RECEIVED" by the Bureau of Internal Revenue 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.

| | Year |
|------------------------------|------|
| 1. Total Assets | |
| 2. Current Assets | |
| 3. Total Liabilities | |
| 4. Current Liabilities | |
| 5. Net worth (1-3) | |
| 6. Net Working Capital (2-4) | |

- B. The computation of the bidders Net Financial Contracting Capacity (NFCC) must be at least equal to the ABC to be bid, as follows.

NFCC = [(current assets minus current liabilities) (15)] minus value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.

NFCC = _____

Attached herewith are certified true copies of the audited financial statements stamped received by the BIR or BIR authorized collecting agent for the latest/immediately preceding calendar year.

Name of Firm/Applicant

Authorized Signing Official

Date: _____

NOTES:

If Partnership or Joint Venture, each Partner or Member Firm of Joint venture shall submit separate financial statements

LIST OF CONTRACTOR'S PERSONNEL

I hereby declare that the following key personnel enumerated below, with attached resume/bio-data, including valid PRC License, for the various positions/functions, are available for the project applied for:

| Position of Key Personnel | Name | No. of Key Personnel | Similar Experience in the Position (Years) ¹⁾ | Total Experience in the Position (Years) | Attachment(s) | Annex(es) |
|--|------|----------------------|--|--|---|-----------|
| Project Manager | | | | | PRC License (CE/ME/GE Preferred) Complete Qualification and Experience Data Certificate of Commitment | Annex -- |
| Project Engineer | | | | | PRC License (CE/ME/GE Preferred) Complete Qualification and Experience Data Certificate of Commitment | Annex -- |
| Construction Safety and Health Officer | | | | | Certificate of Safety and Health Construction Related Course Issued by DOLE Accredited Trainings Complete Qualification and Experience Data Certificate of Commitment | Annex -- |
| Foreman | | | | | Complete Qualification and Experience Data Certificate of Commitment | Annex -- |
| Other Position(s) | | | | | Complete Qualification and Experience Data Certificate of Commitment | Annex -- |

NOTE: 1. Minimum qualification requirements: (work experience is similar in nature and complexity to the project to be bidded-out)

Project Manager - Five (5) years
Project Engineer - Three (3) years
Foreman - Five (5) years

Name of Firm/Applicant

Authorized Signing Official

Date

REVISED FORM (January 2011)

LIST OF CONTRACTOR'S EQUIPMENT UNITS

I hereby declare that the following equipment listed below which are owned, leased or under purchase agreement are in good operating condition and are available for the duration of the project:

| DESCRIPTION (Type, Model, Make) | No. of Unit(s) | Capacity Output 2} | Owned, Leased and/or under purchase agreement 1} | Submitted Proof of Ownership/Leased/ Purchase Agreement (Mark as Annex "A.....Z") | OTHER INFORMATION(S (As Applicable) | | | | |
|------------------------------------|-------------------|--------------------------|--|---|--|----------------------|--------------------------------|----------|--------|
| | | | | | Manufacturer | Engine Serial No. | Chassis No./ Name of Vessel | Location | Status |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

1) Indicate if owned or leased as listed in the Checklist/Bidding Documents. For owned equipment, as required, submit proof of ownership (i.e. deed of sale, sales invoice, official receipt). For Water Truck, Dump Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt. For owned barge/tugboat, submit Marina Certificate of Ownership and valid Cargo Ship Safety Certificate. For newly purchased barge/tugboat, submit Deed of Sale together with an application for Marina Certificate of Ownership duly received/authenticated by Marina with corresponding valid Cargo Ship Safety Certificate. For leased equipment, submit duly notarized copy of lease contract together with a copy of the Marina Owner's (Lessor's) Certificate and valid Cargo Ship Safety Certificate.

2) The unit of each equipment shall be as indicated in the Checklist/Bidding Documents, i.e. GW (for crane barge), DWT (for deck barge and hopper barge), TON (for crane, road roller and drop hammer), kg.-m/blast (for diesel hammer), cu.m (for dump truck), hp. (for tugboat, road grader, bulldozer and concrete vibrator), cfm (for compressor), gal. (for water truck with pump), amp. (for welding machine), bagger (for concrete mixer).

Name of Firm/Applicant

Authorized Signing Official

Date

REVISED FORM (January 2011)

OMNIBUS SWORN STATEMENT FOR SOLE PROPRIETORSHIP

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

AFFIDAVIT

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the sole proprietor of (Name of Bidder) with office address at _____;
2. As the owner and sole proprietor or authorized representative of (Name of Bidder), I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO** of the Philippine Ports Authority;
3. (Name of Bidder) is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government / foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. (Name of Bidder) is authorizing the PPA General Manager or its duly authorized representative(s) to verify all the documents submitted;
6. I am not related to the PPA General Manager, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end – user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. (Name of Bidder) complies with existing labor laws and standards; and
8. (Name of Bidder) is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document:
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;

- c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
- d) Inquire or secure Supplemental / Bid Bulletin(s) issued for **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO;**
9. (Name of Bidder) did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____
20 ____ at _____, Philippines.

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

OMNIBUS SWORN STATEMENT FOR PARTNERSHIP OR COOPERATIVE

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

AFFIDAVIT

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of (Name of Bidder) with office address at (Address);
2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO** of the Philippine Ports Authority, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate (whichever is applicable);
3. (Name of Bidder) is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government / foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. (Name of Bidder) is authorizing the PPA General Manager or its duly authorized representative(s) to verify all the documents submitted;
6. None of the officers and members of (Name of Bidder) is related to the PPA General Manager, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management office or the end- user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. (Name of Bidder) complies with existing labor laws and standards; and
8. (Bidder) is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

- d) Inquire or secure Supplemental / Bid Bulletin(s) issued for the **PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO**

9. (Name of Bidder) did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____
20 ____ at _____, Philippines.

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at ____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. _____ [date issued], [place issued]
IBP No. _____ [date issued], [place issued]

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

OMNIBUS SWORN STATEMENT FOR CORPORATION OR JOINT VENTURE

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

A F F I D A V I T

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of (Name of Bidder) with office address at _____;
2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for ***PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO*** of the Philippine Ports Authority, accompanied by the duly notarized Special Power of Attorney, Board Resolution, or Secretary's Certificate (whichever is applicable);
3. (Name of Bidder) is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government / foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. (Name of Bidder) is authorizing the PPA General Manager or its duly authorized representative(s) to verify all the documents submitted;
6. None of the officers, directors, and controlling stockholders of (Name of Bidder) is related to the PPA General Manager, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the or end- user unit and the project consultants by consanguinity or affinity up to the third civil degree;
7. (Name of Bidder) complies with existing labor laws and standards; and
8. (Name of Bidder) is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

- d) Inquire or secure Supplemental / Bid Bulletin(s) issued for the
**PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE
NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA,
MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE,
OCCIDENTAL MINDORO;**

9. (Name of Bidder) did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____
20 ____ at _____, Philippines.

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)S.S.

BID-SECURING DECLARATION
Invitation to Bid No. _____

To : Philippine Ports Authority
Bonifacio Drive, South Harbor,
Port Area, manila

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

Name of Bidder's Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

SUBSCRIBED AND SWORN to before me this ____ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____.

Witness my hand and seal this ____ day of *[month]* *[year]*.

NAME OF NOTARY PUBLIC

Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. __, *[date issued]*, *[place issued]*
IBP No. __, *[date issued]*, *[place issued]*
Doc. No. ____
Page No. ____
Book No. ____
Series of ____.

WORK/CONSTRUCTION METHODOLOGY

Name of Project :

PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

Proposed Project Description :

CONSTRUCT, SUPPLY, DELIVER, INSTALL AND COMMISSION 53 SETS OF SOLAR-POWERED LIGHTED OCEAN BUOYS, INCLUDING MOORING SYSTEM, AT DESIGNATED OFFSHORE SITE

Location:

CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

MINIMUM SCOPE OF WORK METHODOLOGY:

Upon receipt of Notice to Proceed (NTP), procurement for the mooring chains and marine lantern, and polyethylene buoys if preferred, shall be made.

Thereafter, shall mobilized sufficient labors, supplies, materials, plants and equipment for the construction of mooring system and solar-powered lighted buoys. The construction works shall be at such hours as may be necessary, subject to existing laws, to ensure the prosecution of work in accordance with the approved schedule (PERT/CPM).

After the completing the construction of the entire Navigational Aids system, it shall be delivered near the project site and it shall be loaded to a crane barge one (1) set at a time and shall be installed at the designated offshore site.

1. CONSTRUCTION, DELIVERY AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION SYSTEM
2. SUPPLY, CONSTRUCT AND OFFSHORE INSTALLATION OF SOLAR-POWERED LIGHTED BUOY ASSEMBLY
3. OFFSHORE COMMISSIONING, TESTING AND OBSERVATION OF AIDS TO MARINE NAVIGATION OPEN SEA DISPOSAL OF DREDGED MATERIALS

NOTES:

The narrative construction method will guide and familiarize the contractor and the PPA on how the project shall be carried out in accordance with the highest standard of workmanship.

The construction method shall be consistent with the Bar Chart / S-Curve Schedule, Equipment Schedule and Manpower Schedule.

Signature
(Authorized Signing Official)

MANPOWER SCHEDULE

Name of Project :

PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

Proposed Project Description :

CONSTRUCT, SUPPLY, DELIVER, INSTALL AND COMMISSION 53 SETS OF SOLAR-POWERED LIGHTED OCEAN BUOYS, INCLUDING MOORING SYSTEM, AT DESIGNATED OFFSHORE SITE

Location:

CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

| MANPOWER (Minimum) | Contract Duration | | | | | | | | | |
|--|-------------------|----|----|----|----|----|-----|-----|-----|-----|
| | 150 Calendar days | | | | | | | | | |
| | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 |
| Project Manager | | | | | | | | | | |
| Project Engineer | | | | | | | | | | |
| Safety Officer | | | | | | | | | | |
| Foreman | | | | | | | | | | |
| Specify other applicable positions, ie.: | | | | | | | | | | |
| 1) | | | | | | | | | | |
| 2) | | | | | | | | | | |
| 3) Others | | | | | | | | | | |

Signature
(Authorized Signing Official)

EQUIPMENT UTILIZATION SCHEDULE

Name of Project :

PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

Proposed Project Description :

CONSTRUCT, SUPPLY, DELIVER, INSTALL AND COMMISSION 53 SETS OF SOLAR-POWERED LIGHTED OCEAN BUOYS, INCLUDING MOORING SYSTEM, AT DESIGNATED OFFSHORE SITE

Location:

CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

| EQUIPMENT (Minimum) | Number Of Units | Contract Duration | | | | | | | | | |
|------------------------|--------------------|-------------------|----|----|----|----|----|-----|-----|-----|-----|
| | | 150 Calendar days | | | | | | | | | |
| | | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 |
| 1) | | | | | | | | | | | |
| 2) | | | | | | | | | | | |
| 3) | | | | | | | | | | | |
| 4) | | | | | | | | | | | |
| 5) | | | | | | | | | | | |
| 6) | | | | | | | | | | | |
| 7) | | | | | | | | | | | |
| | | | | | | | | | | | |

Signature
(Authorized Signing Official)

CASHFLOW BY QUARTER AND PAYMENT SCHEDULE

Name of Project :

PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

Proposed Project Description :

CONSTRUCT, SUPPLY, DELIVER, INSTALL AND COMMISSION 53 SETS OF SOLAR-POWERED LIGHTED OCEAN BUOYS, INCLUDING MOORING SYSTEM, AT DESIGNATED OFFSHORE SITE

Location:

CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO

| Project Duration (days or months) | Payment Schedule (Monthly, in Pesos) | Cash flow (Quarterly, In Pesos) |
|--|---|--|
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| | | |
| TOTAL | | |

NOTES

- The cash flow by quarter and payment schedule should be consistent with the Bar Chart and S-curb.
- Advance payment should be specified if contractor wants to avail.
- Payment schedule shall not be more than once a month.

Signature
(Authorized Signing Official)

SECTION X
CONTRACT FORM

Republic of the Philippines
PHILIPPINE PORTS AUTHORITY
PPA Building, Bonifacio Drive, South Harbor,
Port Area, Manila, Philippines

CONTRACT

**FOR THE PROPOSED CONSTRUCTION AND OFFSHORE INSTALLATION OF AIDS TO MARINE
NAVIGATION, MINDORO CLUSTER : PORTS OF CALAPAN, PUERTO GALERA, MANSALAY, ROXAS AND
BULALACAO, ORIENTAL MINDORO AND SAN JOSE, OCCIDENTAL MINDORO**

This Contract made and entered into this _____ day of _____ 2020, in Manila, Philippines, by and between:

PHILIPPINE PORTS AUTHORITY, a government instrumentality created under Presidential Decree No. 857, as amended, with principal office at PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila, represented herein by its duly authorized General Manager, **JAY DANIEL R. SANTIAGO**, and hereinafter referred to as "PPA";

- and -

_____, duly organized and existing in accordance with Philippine laws, with office and business address at _____, represented in this act by its _____, as evidenced by _____, a copy of which is hereto attached and made an integral part hereof as Annex "1", and hereinafter referred to as "CONTRACTOR".

WITNESSETH:

WHEREAS, in accordance with Republic Act No. 9184 and its 2016 Implementing Rules and Regulations (IRR), PPA advertised and posted on the PPA website and PhilGEPS, as well as on its bulletin board, an Invitation to Bid for the _____;

WHEREAS, in response to the said advertisement _____ bidders submitted their respective bids for the foregoing project;

WHEREAS, after the opening of bids on _____ and the conduct of bid evaluation and post-qualification, the bid submitted by the CONTRACTOR at its unit and lump sum prices set forth in its proposal was found to be the _____ Bid in the amount of _____ PESOS (), Philippine Currency;

WHEREAS, pursuant to Head Office BAC Resolution No. _____ Series of _____, award of contract was made to the CONTRACTOR in a Notice of Award dated _____, in the amount of _____ PESOS (), after submission of the required documents within the prescribed period and compliance to the conditions stipulated in the IRR;

WHEREAS, the CONTRACTOR duly accepted the award by signing its Conforme on the said Notice of Award;

NOW, THEREFORE, for and in consideration of the foregoing premises and the mutual stipulations herein contained, PPA and the CONTRACTOR have agreed, as follows:

1. In this Contract, words and expressions shall have the same meanings as are respectively assigned to them in the attached Contract Documents.
2. The following documents shall form part of this Contract:
 - A. Bid Documents consisting of the following:
 - A.1 Invitation to Bid;
 - A.2 Instructions to Bidders;
 - A.3 Bid Data Sheet;
 - A.4 General Conditions of Contract;
 - A.5 Special Conditions of Contract
 - A.6 Specifications;
 - A.7 Drawings/Plans;
 - A.8 Addenda and/or Supplemental/Bid Bulletins, if any;
 - B. Technical and Financial Proposals;
 - C. Performance Security;
 - D. Notice of Award of Contract with the Contractor's Conforme thereto; and
 - E. Other contract documents that may be required by existing laws and PPA, such as:
 - E.1 Construction Schedule and S-Curve;
 - E.2 Manpower Schedule;
 - E.3 Construction Methods;
 - E.4 Equipment Utilization Schedule;
 - E.5 Construction Safety and Health Program approved by the DOLE;
 - E.6 Pert/CPM
 - E.7 Duly Approved Program of Works and Cost Estimates;
 - E.8 Certificate of Availability of Funds;
 - E.9 Abstract of Bids; and
 - E.10 Resolution of Award

3. In consideration of the payments to be made by PPA, the CONTRACTOR commits to complete the Works and remedy any defects therein in conformity with the provisions of this Contract and Contract Documents.
3. In consideration of the execution and completion of the Works and remedying any defects therein, PPA commits to pay the Contract Price or such other sum as may become payable under the provisions of this Contract and Contract Documents.
5. This Contract shall become effective after the same shall have been signed by the Parties hereof.

IN WITNESS WHEREOF, the Parties have hereunto signed this Contract on the date and place first hereinabove written.

PHILIPPINE PORTS AUTHORITY

TIN NO. _____

By:

JAY DANIEL R. SANTIAGO
General Manager

WITNESSES:

ACKNOWLEDGMENT