

- 2) The drive sampler shall be driven to a depth of 18 inches or as directed by the PPA representative and the number of blows shall be recorded for each 6-inch depth of penetration. If the samples obtained are less than 12 inches long, the sampling operation shall be repeated.

## 2. Undisturbed Sampling of Soils

### 1. Shelby-Tube

This work shall be performed in accordance with ASTM or ASSHTO procedure and the following provisions. Where discrepancies exist between these provisions and ASTM and ASSHTO specifications, these specifications will prevail. All procedures are subject to the approval of the PPA Engineer.

In layers of soft to medium stiff cohesive soils (i.e. N-values ranging between 2 to 7 blows per foot of soil penetration), undisturbed Shelby-tube samples shall be obtained at intervals of not more than ten (10) meters or otherwise directed by the PPA Engineer. Undisturbed samples are required for consolidation and unconfined compression tests and other specified laboratory tests.

The following procedures shall be adopted:

Clean out the hole to the depth of sampling such that the soil immediately below the casing shall be as undisturbed as possible. The casing shall be kept above the sampling position.

Attach a 70 mm diameter thin-wall tube sample to the drill rod and let it rest on the bottom of the hole.

Push the sampler into the soil either manually or by hydraulic jack with a continuous and rapid motion without impact or twisting to fill the sampler. In no case shall the sampler tube be driven with a hammer or pushed further than the length provided for the soil sampler. If resistance is encountered when manually pushing the sampler tube, a heavy weight may be used without hammering to drive the sampler.

Before retrieving the tube, turn the rod at least two (2) revolutions to shear the sampler off, at the bottom. Raise the rod and detach the tube sampler.

Remove and store the disturbed material at the ends of the tube and preserve the undisturbed section in the tube as specified in Section III. Great care must be observed in handling and transporting the samples.

- a. General. Undisturbed Shelby tube samples, 2-1/2 inches in diameter x 24 inches long, shall be taken from all holes as specified herein and called for in these Technical Specifications.

Undisturbed samples shall be taken in cohesive soils whenever the soil conditions would permit driving of the Shelby tube sampler.

- b. Sampler Description. The thin wall tube (Shelby tube) sampler shall consist of 16 or 18 gauge barrel, approximately 36 inches, or longer and will be equipped with a reliable check valve at the top. The tubes shall be provided with a sharp cutting edge and a positive inside clearance. The inside diameter of the cutting edge shall be 0.7 to 1.5 percent less than the inside diameter of the sampler tube.

- c. Sampling Procedure. Before each sample is taken, the casing or borehole shall be carefully cleaned out with a deflected jet or clean out auger as approved by the PPA. The inside of the tube shall be thoroughly cleansed prior to taking the sample. The sampler shall be forced into the soil at a distance of 24 inches at the rate ranging from ¼ to ½ foot per second by hydraulic pressure. The sampler shall not be driven with a drop hammer to obtain samples. No undisturbed samples shall be accepted if the recovery is less than 24 inches long, unless expressly approved by the PPA field representative. After an acceptable undisturbed sample is obtained, the sample shall be preserved as specified in Section 8 "Preserving Samples."

In layers of soft to medium stiff cohesive soils (i.e. N-values ranging between 2 to 7 blows per foot of soil penetration), undisturbed Shelby-tube samples shall be obtained at an interval of not more than ten meters or as otherwise directed by the PPA Engineer.

### 3. Rock Coring

- a. General. The term rock shall apply to any material that cannot be sampled by drive sampling as described herein. Where rock layers or boulders are encountered in the overburden above the specified bottom elevation of any borings, it shall be cored as described under "Penetration on Boulders or Rock Layers." Where ledge rock is encountered above the specified bottom elevation of any boring, it shall be cored to the depths as specified in the Proposal and as directed by PPA representative.
- b. Sampler Description. Rock coring shall be performed with a double tube swivel type core barrel as standardized by the Diamond Core Drill Manufacturers Association (DCMA) equipped with diamond-set bottom discharge core bits and standard core lifters and core gage. Core barrels shall be of 5 to 10 ft. length to obtain a continuous rock core 5 feet long, and unless otherwise specified or directed by PPA representative, the sampler shall produce a minimum core of 1-3/4 inches in diameter.
- c. Sampling Procedure. Casing through overburden shall be seated tightly on the rock at the elevation of the rock coring. The Contractor shall operate his drills at such speeds and with such water pressures that will ensure maximum core recovery in whatever kind of rock is being drilled. Where soft or broken rocks are encountered the Contractor shall reduce the length of "runs" to less than 1.5m. as may be required to reduce core loss and core disturbance to the minimum.

Failure to comply with the foregoing procedures shall constitute justification for PPA to require redrilling at the Contractor's expense of any boring from which the core recovery is unsatisfactory. The Contractor shall exercise particular care in recording water losses, rod jerks and other unusual experience that will throw light on the nature and extent of any fractures in the core samples.

### 4. Preserving Samples

- a. General. The Contractor shall provide material, equipment and labor necessary for preserving samples. Wax or masking tape shall be used to ensure proper sealing of sample containers.
- b. Drive Samples. Representative specimen of each sample shall be preserved. The containers for preserving samples shall be maximum ten-ounce large-necked, round, screw top, air-tight, durable clear plastic jars, and the specimen shall be sealed with a threaded cap, and cohesive soil

samples shall be further sealed by dipping the cap and threads into wax immediately after capping.

Each glass jar or undisturbed sample core liner shall have weatherproof labels giving the following information:

Project: \_\_\_\_\_  
Type of Sample: \_\_\_\_\_  
Borehole No: \_\_\_\_\_ Elevation: \_\_\_\_\_ Location: \_\_\_\_\_  
Coordinates of the borehole: \_\_\_\_\_  
Jar No.: \_\_\_\_\_  
Top Elevation of Hole: \_\_\_\_\_ Depth of Sample: \_\_\_\_\_  
Visual Description of Samples: \_\_\_\_\_  
Penetration (Blows/15 cm): \_\_\_\_\_

Shipping boxes: Each box of samples shall be identified with weatherproof labels or marking indicating the following:

Project Description: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Boring No.: \_\_\_\_\_ Sample No.: \_\_\_\_\_

- c. Undisturbed Samples. Undisturbed samples from boring for preservation shall be treated in the following manner. A maximum of one inch of the undisturbed materials from the top and bottom of each sample shall be preserved as prescribed for Drive Samples. The ends of the sample tube shall be filled to the top with wax added in the increments to prevent voids, after which they shall be capped with tight fitting copper or galvanized steel caps bound on with friction tape and dipped in wax. Undisturbed samples shall be labeled and identified as directed by PPA.

- d. Rock Cores. Rock cores shall be suitably boxed, marked and identified in a manner satisfactory to PPA. Cores shall be boxed in the same sequence in which they were obtained in the field.

Cores from each drilling run shall be separated from adjacent with from wooden blocks on which the depths of the beginning and end of the run shall be clearly, accurately and permanently indicated. Cores of soft rock which may be damaged in the normal course of shipping shall be further preserved by wrapping them first in polyethylene plastic. The container itself shall be marked to show borehole number, box number, depth and the date the sample was taken.

## 5. Records

- a. General. The Contractor shall keep accurate driller's logs and records of all work accomplished under this contract and shall deliver complete, legible copies of these logs and records to PPA upon completion of the work or at such other time or times as he may be directed. The PPA or his representative shall have the right to examine such records at any time prior to their delivery to him. Separate logs shall be made for each boring. All depths and elevations shall be measured in meters, and shall be referenced to proper benchmarks or datum as designated by PPA representative.
- b. Records. Records shall contain the following information:
- 1) Results of all details of each borehole arranged in tabular form, giving full information on the location, type of boring, vertical arrangement, and the thickness and classification of the materials penetrated.
  - 2) Location, elevation and depth, type, number and date of each sample and test taken.
  - 3) Heights of drop and weight of drop hammer for taken drive samples.

- 4) Size and length of casing used in each borehole.
- 5) Length in inches of samples of coring run.
- 6) Length in recovery for all samples and coring.
- 7) Elevation of refusal or rock if encountered.
- 8) Approximate force required to press in undisturbed samples.
- 9) Driving energy in inch-pounds and blow count data for six-inch penetration of drive sampler and for each twelve-inch penetration of casing.

6. Reference Elevation

The seabed elevation of each borehole should be included in the boring log based on Mean Lower Low Water (MLLW). Elevations above MLLW shall be marked positive (+) while those below shall be marked negative (-). In the absence of Tide Gauge in the area for locating the level of the MLLW, the elevation of the permanent existing structures such as pier, wharf, finish pavement of back-up area, may be used as reference.

7. Submission of Samples

At such time as PPA may direct, all samples and cores selected by the Consultant shall be carefully boxed and shipped accordingly. Boxing shall be made in such a manner that will protect all soil and core samples from excessive disturbance while being shipped to the Soils Laboratory for testing. Payment for shipping samples shall be included in the bid proposal.

**V. MEASUREMENT AND PAYMENT**

The quantities listed in the Proposal are approximate only and do not govern final payment. Payments to the Contractor will be made only for the actual quantities of the contract items performed in accordance with the Technical Specifications and shall be considered as full compensation for furnishing all labor, materials, equipment plant, facilities, and services for the performance of the work.

**VI. SETS OF TESTS REQUIRED AND REPORTS**

- A. Soil Classification. Soils shall be described in accordance with the Unified Soil Classification System (USCS). Each individual stratum shall be measured and described in writing. All thin layers, joints or partings shall be noted. Slices of samples may be prepared and slowly air-dried to reveal stratifications and laminations.

The visual description shall state the color, class of soil (gravel, sand, silt, clay or peat), the relative sizes of non-cohesive soil particles (coarse, medium or fine sand) and the relative cohesiveness and strength of clayey soils (high, medium or low). Any significant factors shall be noted such as the presence of shells, varves, roots and odor of the soil. All soil samples shall be tested in accordance with the ASTM or AASHTO specifications where applicable.

a. Monthly Progress Report

The Consultant shall prepare the Monthly Progress Report (MPR) in a form to be approved by the PPA qualified representative and submit to Port Planning and Design Department (PPDD) on the 25<sup>th</sup> day of each reporting period. The MPR shall consist, but not limited to the following:

1. Overall summary of accomplishment
2. Core drilling progress
3. Laboratory test accomplished
4. Schedule of work
5. List of equipment used
6. Organizational chart
7. Detailed progress chart or S-Curve

b. Partial Reports of Investigation Results

The Consultant shall submit partial reports consisting of completed results of boring in the form of a final boring log and soil profile for immediate use in the preliminary design work.

c. **Photographs**

Photographs showing the borehole drilling and sampling at each site shall be taken by the Consultant and form part of the report. The photographs shall depict the following:

1. Equipment used
2. Core drilling operation
3. Water level measurements
4. Performance of SPT sampling
5. All cores and SPT sample placed in core boxes
6. Date photographs were taken
7. Location or station

- B. **Final Report** After completion of the laboratory-testing program, a draft report clearly defining and summarizing all the works performed together with the 3D settlement analysis and analysis on the rate of backfilling to counteract/avoid slip failure for projects where there are proposed reclamation (back-up areas, causeway), for traffic load of 500 and 750 pounds per square foot (psf), soil bearing capacity, pile capacity, recommended foundation and pile length depending on the type of structure to be constructed, including the findings and recommendations of a competent Soils Engineer of the Contractor, shall be submitted to PPA. The draft report (3 copies) shall be book-bound and shall contain among others a description of the test procedure, the number of tests for each type, boring logs, maps, summary tables of the results and complete details and analysis/computation and evaluation of the results of each test, grain size analysis curves, summary or recommended soil particles and Atterberg Limit worksheets.

In determining the pile bearing capacity as option/recommendation for foundation works, the Soil Engineer shall use the Design Manual for Ports and Harbor Facilities in the PPA. The provisions in the Design Manual shall serve as the technical reference in computing the bearing capacity of pile foundation based on the recorded borehole logs.

The Final Geotechnical Report shall contain the methodology of geotechnical investigation performed, the result of field investigation including field logs, description of site conditions, profile of soil conditions, result of laboratory tests, summary of geotechnical data and photos. The Final Report (7 copies) in book-bound form and (1 copy) in electronic media (CD-R disks and/or CD-RW disks) in a format and form replicating the paper-print copies, incorporating all revisions deemed appropriate by the Philippine Ports Authority should be submitted within 20 days after receipt of comments on the Draft Final Report from the PPA. The boreholes logs, development plan indicating the actual borehole location and soil profile shall be submitted in AUTOCAD format.

## VII. **PAY ITEMS**

A. **Mobilization and Demobilization**

1. Payment will be made at the contract lump sum price for mobilization and demobilization for this exploration work, and shall include full compensation for all labor, materials, transportation charges, and incidentals necessary to complete the mobilization, manning and demobilization of all equipment, including the drilling rigs, appurtenances, supports, etc. Payment on this item will be made only after completion of fieldwork for this exploration.

B. **Boring**

1. Measurement will be made based on the actual depth of soil boring in lineal meter of the borehole in place and accepted.
2. Payment will be computed based on the number of linear meters, measured as provided above, using the contract unit price for borings. Such payment shall

include full compensation for furnishing, installing and removing the drill rig and accessories for all drilling work, penetrating boulders or hard layers encountered, installing and removing casing, for submitting records or borings and/or excavation for incidentals necessary to complete the item.

**C. Standard Penetration Tests (SPT)**

1. Each test performed and accepted will be measured as a complete unit.
2. Payment will be made and measured based on the actual number of units performed and at the applicable unit price for SPT.

**D. Undisturbed Sample (UDS)**

1. Each sample taken and accepted will be measured as a complete unit.
2. Payment will be made and measured based on the actual number of units performed and at the applicable unit price for UDS.

**E. Coring in Rocks**

1. Measurement for payment will be made based on the actual number of lineal meters penetrated with the use of coring bit in rock, boulder, gravel, or hard formations.
2. Payment will be computed based on the actual number or lineal meters measured as specified above and at the applicable contract unit price for coring in rock.

**F. Laboratory Tests**

Payment will be made based on the actual number of specified tests, as required in the specification, or as may be required by PPA, and at the applicable contract unit price.

**G. Equipment and Miscellaneous Items**

The Contractor shall specify the major equipment whether owned, rented or leased and to be purchased that will be utilized in the performance of these services, their main specifications and the estimated times of use shown in an equipment utilization schedule. The minimum equipment requirements for this undertaking are as follows:

Quantity	Unit	Particulars
3	units	Rotary Spindle Hydraulic Rig; two (2) – owned; one (1) - leased
3	units	3.5hp Water Supply Pump; (three (3) - owned)
1	unit	5hp Duplex (two piston) Engine Water Pump; Owned or leased
3	sets	Tripod (three (3) - owned)
24	pcs.	NW Casing (twenty (24) - owned)
60	pcs.	AW Rod (sixty (60) - owned)
3	sets	Split Spoon with 70 kgs. Jar Hammer plus Plate three (3) – owned)
3	pcs.	NQ Core Barrel (three (3)- owned)
3	pcs.	Startling Barrel (three (3)- owned)
3	sets	Water Swivel (three (3)- owned)
3	assemblies	Drilling Barge or Pontoon with at least 4 anchors for each project site (three (3)- owned)
1	unit	Motorized Service Boat (owned or leased)
2	sets	Surveying Equipment (Total Station, Theodolite or GPS) (One (1) – owned and One (1) - leased)

Payment of purchased office and other equipment such as computers, printers, copiers, peripherals and accessories shall be made upon turnover to PPA. Similarly, miscellaneous items such as rental of service vehicles, shipment of samples, and employment of security services, provision of safety signage (caution tape and barricades) and individual safety gears/gadgets of the drilling team e.g. safety shoes,

safety vest, hard hat, goggles, gloves, safety belts, among others, shall be made in lump sum after the work has been completed.

**VIII. BILLING AND OTHER FORMS**

The Contractor shall prepare their billing and other forms in accordance with those that may be prescribed by PPA.

**IX. REQUIRED EXPERTISE AND PROPOSALS**

The Contractor shall specify the key personnel or experts that will be utilized in the performance of these services, their qualifications (education, training and experience) and the times that they will serve shown in a manpower schedule. The following minimum specialization is anticipated to be required in the Study:

- Project Manager/Geotechnical Engineer/Planner
- Deputy Project Manager/Port Engineer/Planner
- Geologist/Geotechnical Engineer
- Civil Engineer
- Geodetic Engineer
- Laboratory Chief

**X. REPORTS**

The Draft and Final Reports shall include the results of all required tests performed and accepted on this exploration work including the settlement analysis and analysis on the rate of backfilling to counteract/avoid slip failure for projects where there are proposed reclamation (back-up areas, causeway). The report shall include the findings, evaluations and recommendations as more specifically defined in Section No. VI.B.

**XI. LIQUIDATED DAMAGES FOR DELAY**

If the Consultant fails to deliver any or all of the Services within the period(s) specified in this Contract, the *Philippine Ports Authority* shall, without prejudice to its other remedies under this Contract and other Applicable Law, deduct from the contract price, as liquidated damages, as sum equivalent to one-tenth of one percent of the price of the unperformed portion of the Services for each day of delay based on the approved contract schedule up to a maximum deduction of ten percent (10%) of the contract price. Once the maximum is reached, the *Philippine Ports Authority* may consider termination of this Contract pursuant to GCC Clause 27.

**XII. APPROVED BUDGET FOR THE CONTRACT (ABC)**

The Approved Budget for the Contract is Php18,183,401.90

**XIII. SELECTION CRITERIA FOR PROPOSAL**

The shortlisted Consultants shall be evaluated using the **Quality-Cost Based Evaluation (QCBE)** procedure under R.A. 9184 and its Revised IRR at **eighty percent (80%)** for the **Technical Proposal** (with a Minimum Qualifying Mark of 70%) and **twenty percent (20%)** for the **Financial Proposal**.

  
**ELVIS R. MEDALLA**  
Acting Manager, PPDD



## ***Section VII. BIDDING FORMS***



## TPF 1. TECHNICAL PROPOSAL SUBMISSION FORM

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*[Date]*

*[Name and address of the Procuring Entity]*

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for the PROCUREMENT OF TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS in accordance with your Bidding Documents dated *[insert date]* and our Bid. We are hereby submitting our Bid, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope.

In accordance with ITB Clause 21.1, we confirm that the information contained in the eligibility documents submitted earlier together with the Expression of Interest remain correct as of the date of bid submission.

If negotiations are held during the period of bid validity, *i.e.*, before *[insert date]*, we undertake to negotiate on the basis of the proposed staff. Our Bid is binding upon us and subject to the modifications resulting from contract negotiations.

In accordance with GCC Clause 18 we acknowledge and accept the PROCURING ENTITY's right to inspect and audit all records relating to our Bid irrespective of whether we enter into a contract with the Procuring Entity as a result of this Bid or not.

We understand you are not bound to accept any Bid received for the selection of a consultant for the Project.

We acknowledge that failure to sign this Technical Proposal Submission Form and the abovementioned Financial Proposal Submission Form shall be a ground for the rejection of our Bid.

We remain,

Yours sincerely,

Authorized Signature:  
Name and Title of Signatory:  
Name of Firm:  
Address:

## TPF 2. CONSULTANT'S REFERENCES

### Relevant Services Carried Out in the Last Five Years That Best Illustrate Qualifications

Using the format below, provide information on each project for which your firm/entity, either individually, as a corporate entity, or as one of the major companies within an association, was legally contracted.

Project Name:		Country:
Location within Country:		Professional Staff Provided by Your Firm/Entity(profiles):
Name of Client:		Nº of Staff:
Address:		Nº of Staff-Months; Duration of Project:
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services (in Current US\$):
Name of Associated Consultants, if any:		Nº of Months of Professional Staff Provided by Associated Consultants:
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:		
Narrative Description of Project:		
Description of Actual Services Provided by Your Staff:		

Consultant's Name: \_\_\_\_\_

**TPF 3. COMMENTS AND SUGGESTIONS OF CONSULTANT ON THE TERMS OF  
REFERENCE AND ON DATA, SERVICES, AND FACILITIES TO BE PROVIDED BY  
THE PROCURING ENTITY**

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**On the Terms of Reference:**

- 1.
- 2.
- 3.
- 4.
- 5.

**On the data, services, and facilities to be provided by the Procuring Entity:**

- 1.
- 2.
- 3.
- 4.
- 5.

**TPF 4. DESCRIPTION OF THE METHODOLOGY AND WORK PLAN FOR  
PERFORMING THE PROJECT**

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**TPF 5. TEAM COMPOSITION AND TASK PROJECTS**

<b>1. Technical/Managerial Staff</b>		
Name	Position	Task

<b>2. Support Staff</b>		
Name	Position	Task

3 Where applicable, indicate relationships among the Consultant and any partner and/or subconsultant, and relationship to the Procuring Entity, the Funding Source and other parties or stakeholders, if any, involved in the project.

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## **TPF 6. FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF**

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**Proposed Position:** \_\_\_\_\_

**Name of Firm:** \_\_\_\_\_

**Name of Staff:** \_\_\_\_\_

**Profession:** \_\_\_\_\_

**Date of Birth:** \_\_\_\_\_

**Years with Firm/Entity:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_

**Membership in Professional Societies:** \_\_\_\_\_

\_\_\_\_\_

**Detailed Tasks Assigned:** \_\_\_\_\_

\_\_\_\_\_

### **Key Qualifications:**

*[Give an outline of staff member's experience and training most pertinent to tasks on project. Describe degree of responsibility held by staff member on relevant previous projects and give dates and locations. Use about half a page.]*

\_\_\_\_\_

### **Education:**

*[Summarize college/university and other specialized education of staff members, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]*

\_\_\_\_\_

### **Employment Record:**

*[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of projects. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]*

\_\_\_\_\_

**Languages:**

[For each language, indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]

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**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

**Commitment:**

I also commit to work for the Project in accordance with the time schedule as indicated in the contract once the firm is awarded the Project.

\_\_\_\_\_  
[Signature of staff member and authorized representative of the firm] Date: \_\_\_\_\_  
Day/Month/Year

Full name of staff member: \_\_\_\_\_  
Full name of authorized representative: \_\_\_\_\_

**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 \_\_\_\_.

# TPF 7. TIME SCHEDULE FOR PROFESSIONAL PERSONNEL

Name	Position	Reports Due/Activities	Months (in the Form of a Bar Chart)												Number of Months		
			1	2	3	4	5	6	7	8	9	10	11	12			
																	Subtotal (1)
																	Subtotal (2)
																	Subtotal (3)
																	Subtotal (4)

Full-time: \_\_\_\_\_ Part-time: \_\_\_\_\_  
 Reports Due: \_\_\_\_\_  
 Activities Duration: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 (Authorized representative)  
 Full Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_



## TPF 8. ACTIVITY (WORK) SCHEDULE

### A. Field Investigation and Study Items

	<i>[1st, 2nd, etc. are months from the start of project.]</i>												
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	
Activity (Work)													
_____													
_____													
_____													
_____													

### B. Completion and Submission of Reports

Reports	Date
1. Inception Report	
2. Interim Progress Report (a) First Status Report (b) Second Status Report	
3. Draft Report	
4. Final Report	

Omnibus Sworn Statement (Revised)  
[shall be submitted with the Bid]

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REPUBLIC OF THE PHILIPPINES )  
CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

AFFIDAVIT

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

1. [Select one, delete the other:]

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. [Select one, delete the other:]

[If a sole proprietorship:] 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 [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] 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 [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, 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, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

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 Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, 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;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, 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;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, 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 responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

a. Carefully examining all of the Bidding Documents;

b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;

c. Making an estimate of the facilities available and needed for the contract to be bid, if any, and

d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].

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.

10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to

deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

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

[Insert NAME OF BIDDER OR ITS  
AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

## **Bid-Securing Declaration**

**(REPUBLIC OF THE PHILIPPINES)**  
**CITY OF \_\_\_\_\_ ) S.S.**  
**\_\_\_\_\_**

**Invitation to Bid** *[Insert reference number]*

**To:** *[Insert name and address of the Procuring Entity]*

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 Highest Rated 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].

**[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]**  
**[Insert 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** \_\_\_\_.

## FPF 1. FINANCIAL PROPOSAL SUBMISSION FORM

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*[Date]*

*[Name and address of the Procuring Entity]*

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for the PROCUREMENT OF TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS in accordance with your Bidding Documents dated *[insert date]* and our Bid (Technical and Financial Proposals). Our attached Financial Proposal is for the sum of *[amount in words and figures]*. This amount is exclusive of the local taxes, which we have estimated at *[amount(s) in words and figures]*.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the bid validity period, *i.e.*, *[Date]*.

In accordance with GCC Clause 51, we acknowledge and accept the Procuring Entity's right to inspect and audit all records relating to our Bid irrespective of whether we enter into a contract with the Procuring Entity as a result of this Bid.

We confirm that we have read, understood and accept the contents of the Instructions to Bidders (ITB), the Bid Data Sheet (BDS), General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Terms of Reference (TOR), the provisions relating to the eligibility of Consultant and the applicable guidelines for the procurement rules of the Funding Source, any and all Bid bulletins issued and other attachments and inclusions included in the Bidding Documents sent to us.

We understand you are not bound to accept any Bid you receive.

We remain,

Yours sincerely,  
Authorized Signature:  
Name and Title of Signatory:  
Name of Firm:  
Address:

## FPF 2. SUMMARY OF COSTS

Costs	Currency(ies) <sup>7</sup>	Amount in Philippine Peso
Subtotal		
Local Taxes		
Total Amount of Financial Proposal		

<sup>7</sup> In cases of contracts involving foreign consultants, indicate the exchange rate used.



**FPF 3. BREAKDOWN OF PRICE PER ACTIVITY**

Activity No.: _____	Activity No.: _____	Description: _____
Price Component	Currency(ies) <sup>8</sup>	Amount in Philippine Peso
Remuneration		
Reimbursables		
Miscellaneous Expenses		
Subtotal		_____

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<sup>8</sup> In cases of contracts involving foreign consultants, indicate the exchange rate used.

#### FPF 4. BREAKDOWN OF REMUNERATION PER ACTIVITY

Activity No. _____		Name: _____	
Names	Position	Input <sup>9</sup>	Remuneration Currency(ies) Rate Amount
Regular staff			
Local staff			
Consultants			
Grand Total			_____

<sup>9</sup> Staff months, days, or hours as appropriate.

# **FPF 5. REIMBURSABLES PER ACTIVITY**

Activity No: \_\_\_\_\_ Name: \_\_\_\_\_

No.	Description	Unit	Quantity	Unit Price In	Total Amount In
1.	International flights	Trip			
2.	Miscellaneous travel expenses	Trip			
3.	Subsistence allowance	Day			
4.	Local transportation costs <sup>10</sup>				
5.	Office rent/accommodation/ clerical assistance				
	Grand Total				

<sup>10</sup> Local transportation costs are not included if local transportation is being made available by the Entity. Similarly, in the project site, office rent/accommodations/clerical assistance costs are not to be included if being made available by the Entity.

## FPF 6. MISCELLANEOUS EXPENSES

Activity No. \_\_\_\_\_ Activity Name: \_\_\_\_\_

No.	Description	Unit	Quantity	Unit Price	Total Amount
1.	Communication costs between _____ and _____ (telephone, telegram, telex)				
2.	Drafting, reproduction of reports				
3.	Equipment: vehicles, computers, etc.				
4.	Software				
	Grand Total				_____

**TECHNICAL SERVICES FOR THE CONDUCT  
OF SOIL INVESTIGATION AT SELECTED PORTS**

ITEMS	UNIT	QUANTITY	UNIT PRICE	AMOUNT
<b>A. REMUNERATION</b>				
1. Billing Rate Key Staff	MM			
EVAT (12% of 1)				
<b>TOTAL A.1</b>				
2. Billing Support Staff	MM			
EVAT (12% of 2)				
<b>TOTAL A.2</b>				
<b>TOTAL FOR A</b>				
<b>B. REIMBURSABLE COST</b>				
1. Office Supplies/Running Cost	lot	1.00		
2. Communication Expenses	lot	1.00		
3. Safety and Health Program	lot	1.00		
4. Transportation Expenses (Air/Land/Sea Fare/Per Diem)	lot	1.00		
5. Service Vehicle	lot	1.00		
Applicable VAT (5% of 1 to 5)				
<b>TOTAL FOR B</b>				
<b>C. FIELD WORKS/STUDIES (Inclusive of Vat)</b>	lot	1.00		
<b>TOTAL COST</b>				-

**TECHNICAL SERVICES FOR THE CONDUCT OF  
SOIL INVESTIGATION AT SELECTED PORTS**

POSITION	INPUTS (man-months)	BASIC SALARY PER MONTH	MULTIPLIER	BILLING RATE PER MONTH	AMOUNT
<b>A. Key Staff</b>					
1. Project Manager/Geotechnical Engineer/Planner					
2. Deputy Proj. Manager/Port Engineer/Planner					
3. Geologist					
4. Civil Engineer					
5. Geodetic Engineer					
6. Laboratory Chief					
<b>SUBTOTAL</b>					
				EVAT 12%	-
<b>B. Support Staff</b>					
1. Administrative Officer/Secretary					
2. Computer Operator/Clerk Typist					
3. AutoCAD Operator/Draftsman					
<b>SUBTOTAL</b>					
				EVAT 12%	-
<b>TOTAL REMUNERATION COST</b>					-

## **FORM OF CONTRACT AGREEMENT**

---

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of Procuring Entity]* (hereinafter called the "Entity") and *[name and address of Consultant]* (hereinafter called the "Consultant").

WHEREAS, the Entity is desirous that the Consultant execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the bid for *[insert the amount in specified currency in numbers and words]* by the Consultant for the execution and completion of such Consulting Services and the remedying of any defects therein.

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be attached, deemed to form, and be read and construed as part of this Agreement, to wit:
  - (a) General and Special Conditions of Contract;
  - (b) Terms of Reference
  - (c) Request for Expression of Interest;
  - (d) Instructions to Bidders;
  - (e) Bid Data Sheet;
  - (f) Addenda and/or Supplemental/Bid Bulletins, if any;
  - (g) Bid forms, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents/statements submitted (e.g., bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  - (h) Eligibility requirements, documents and/or statements;
  - (i) Performance Security;
  - (j) Notice of Award of Contract and the Bidder's conforme thereto;
  - (k) Other contract documents that may be required by existing laws and/or the Entity.
3. In consideration of the payments to be made by the Entity to the Consultant as hereinafter mentioned, the Consultant hereby covenants with the Entity to execute and complete the Consulting Services and remedy any defects therein in conformity with the provisions of this Consultant in all respects.

4. The Entity hereby covenants to pay the Consultant in consideration of the execution and completion of the Consulting Services, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

Binding Signature of Procuring Entity

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Binding Signature of Consultant

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*[Addendum showing the corrections, if any, made during the bid evaluation should be attached with this agreement]*



# **BILL OF QUANTITIES**

Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
<b>BILL OF QUANTITIES</b>					

# **BILL OF QUANTITIES**

Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
1.01	Mobilization, demobilization				
	Team A (Cleveria, Cagayan; Apari, Cagayan; Currímao, Ilocos Norte; Capinpin, Bataan; Calapan, Oriental Mindoro, Puerto Galera, Or. Mindoro)	lot	1		
	Team B (Culasi, Roxas, Capiz; Basiao, Ivisan, Capiz; Tagbilaran, Bohol; Jagna, Bohol; Getafe, Bohol; Catagbacan, Loon, Bohol)	lot	1		
	Team C (Calatagan, Batangas; Balanacan, Mogpog, Marinduque; Matnog, Sorsogon; Opol, Misamis Or.; Lawigan, Bislig, Surigao del Sur; Cantilan, Surigao del Sur)	lot	1		
TOTAL FOR BILL NO. 1					

# **BILL OF QUANTITIES**

Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
	<b>OFFSHORE BOREHOLE</b>				
	Claveria, Cagayan	lot	1		
	Capinpipin, Bataan	lot	1		
	Calatagan, Batangas	lot	1		
	Calapan, Oriental Mindoro	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		
	Culasi, Roxas, Capiz	lot	1		
	Basiao, Ivisan, Capiz	lot	1		
	Tagbilaran, Bohol	lot	1		
	Jagna, Bohol	lot	1		
	Getafe, Bohol	lot	1		
	Catagbacan, Loon, Bohol	lot	1		

# **BILL OF QUANTITIES**

Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
	Lawigan, Surigao del Sur	lot	1		
	Cantilan, Surigao del Sur	lot	1		
	<b>INLAND BOREHOLE</b>				
	Matnog, Sorsogon	lot	1		
	<b>OFFSHORE AND INLAND BOREHOLE</b>				
	Aparri, Cagayan	lot	1		
	Curimaog, Ilocos Norte	lot	1		
	Balanacan, Magpog, Marinduque	lot	1		
	Opol, Misamis Oriental	lot	1		
<b>TOTAL FOR BILL NO. 2</b>					-

# **BILL OF QUANTITIES** Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
	Capinpin, Bataan	lot	1		
	Culasi, Roxas, Capiz	lot	1		
	Claveria, Cagayan	lot	1		
	Appari, Cagayan	lot	1		
	Curinao, Ilocos Norte	lot	1		
	Calatagan, Batangas	lot	1		
	Balanacan, Magpog, Marinduque	lot	1		
	Calapan, Oriental Mindoro	lot	1		
	Basiao, Ivisan, Capiz	lot	1		
	Tagbilaran, Bohol	lot	1		
	Getafe, Bohol	lot	1		
	Jagna, Bohol	lot	1		

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration

Date:

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
	Catagbacan, Loon, Bohol	lot	1		
	Lawigan, Bislig, Surigao del Sur	lot	1		
	Cantilan, Surigao del Sur	lot	1		
	Opol, Misamis Oriental	lot	1		
	Matnog, Sorsogon	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		
<b>TOTAL FOR BILL NO. 3</b>					
<b>BILL NO. 4</b>	<b>TECHNICAL EVALUATION REPORT</b>				
	Capinpin, Bataan	lot	1		
	Culasi, Roxas, Capiz	lot	1		
	Claveria, Cagayan	lot	1		
	Appari, Cagayan	lot	1		
	Currimao, Ilocos Norte	lot	1		
	Calatagan, Batangas	lot	1		
	Balanacan, Mogpog, Marinduque	lot	1		

# **BILL OF QUANTITIES**

Conduct of Soil Investigation/Exploration

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
Date:					
	Catapan, Oriental Mindoro	lot	1		
	Bastao, Ivisan, Capiz	lot	1		
	Tagbilaran, Bohol	lot	1		
	Getafe, Bohol	lot	1		
	Jagna, Bohol	lot	1		
	Catagbacan, Loon, Bohol	lot	1		
	Lawigan, Bislig, Surigao del Sur	lot	1		
	Cantilan, Surigao del Sur	lot	1		
	Opol, Misamis Oriental	lot	1		
	Matnog, Sorsogon	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		
TOTAL FOR BILL NO. 4					

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Port of Aparri, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
<b>BILL OF QUANTITIES</b>					-



## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Aparri, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
1.01	Mobilization, demobilization	Lump Sum	1		
TOTAL FOR BILL NO. 1					•

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Port of Aparri, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	1		
2.03	Drilling on ordinary soils	meter	35		
2.04	Coring of rocks/gravel	meter	5		
2.05	SPT at 1.5m interval	test	24		
2.06	Undisturbed sampling (UDS)	sample	1		
2.07	Safety Gears/Equipment	lot	1		
2.08	<b>INLAND BOREHOLE (1 BH @ 30m)</b> Hole to hole transfer and setting-up including staking of borehole locations	holes	1		
2.09	Drilling on ordinary soils	meter	25		
2.10	Coring of rocks/gravel	meter	5		
2.11	SPT at 1.5m interval	test	17		
2.12	Undisturbed sampling (UDS)	sample	1		
<b>TOTAL FOR BILL NO. 2</b>					<b>•</b>

**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Port of Aparri, Cagayan**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
3.01	Visual Classification	test	49		
3.02	Moisture Content	test	41		
3.03	Grain Size analysis	test	41		
3.04	Atterberg Units	test	41		
3.05	Organic Content	test	41		
3.06	Specific Gravity	test	41		
3.07	Unit Weight	test	41		
3.08	Unconfined Compression	test	2		
3.09	Consolidation	test	2		
<b>TOTAL FOR BILL NO. 3</b>					<b>-</b>

**BILL OF QUANTITIES**  
 Conduct of Soil Investigation/Exploration  
 Port of Aparri, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 4</b>	<b>TECHNICAL EVALUATION REPORT</b>				
4.01	Technical Evaluation Report Preparation	Lump sum	1		
<b>TOTAL FOR BILL NO. 4</b>					.

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Claveria, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
BILL OF QUANTITIES					-

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Claveria, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
1.01	Mobilization, demobilization	Lump Sum	1		
TOTAL FOR BILL NO. 1					.

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Claveria, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	<b>OFFSHORE BOREHOLE (3 BH @ 40m)</b> Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	3		
2.03	Drilling on ordinary soils	meter	105		
2.04	Coring of rocks/gravel	meter	15		
2.05	SPT at 1.5m interval	test	72		
2.06	Undisturbed sampling (UDS)	sample	3		
2.07	Safety Gears/Equipment	lot	0		
2.08	<b>INLAND BOREHOLE (0 BH @ 30m)</b> Hole to hole transfer and setting-up including staking of borehole locations	holes	0		
2.09	Drilling on ordinary soils	meter	0		
2.10	Coring of rocks/gravel	meter	0		
2.11	SPT at 1.5m interval	test	0		
2.12	Undisturbed sampling (UDS)	sample	0		
<b>TOTAL FOR BILL NO. 2</b>					-

**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Claveria, Cagayan**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
3.01	Visual Classification	test	84		
3.02	Moisture Content	test	72		
3.03	Grain Size analysis	test	72		
3.04	Atterberg Units	test	72		
3.05	Organic Content	test	72		
3.06	Specific Gravity	test	72		
3.07	Unit Weight	test	72		
3.08	Unconfined Compression	test	3		
3.09	Consolidation	test	3		
<b>TOTAL FOR BILL NO. 3</b>					<b>-</b>



**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Claveria, Cagayan**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 4</b>	<b>TECHNICAL EVALUATION REPORT</b>				
4.01	Technical Evaluation Report Preparation	Lump sum	1		
<b>TOTAL FOR BILL NO. 4</b>					-

**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Port of Currimaos, Ilocos Norte**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
<b>BILL OF QUANTITIES</b>					<b>-</b>

**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Port of Currímao, Ilocos Norte**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
1.01	Mobilization, demobilization	Lump Sum	1		
TOTAL FOR BILL NO. 1					-

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Port of Currimao, Ilocos Norte

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	<b>OFFSHORE BOREHOLE (1 BH @ 40m)</b> Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	1		
2.03	Drilling on ordinary soils	meter	35		
2.04	Coring of rocks/gravel	meter	5		
2.05	SPT at 1.5m interval	test	24		
2.06	Undisturbed sampling (UDS)	sample	1		
2.07	Safety Gears/Equipment	lot	0		
2.08	<b>INLAND BOREHOLE (2 BH @ 30m)</b> Hole to hole transfer and setting-up including staking of borehole locations	holes	2		
2.09	Drilling on ordinary soils	meter	50		
2.10	Coring of rocks/gravel	meter	10		
2.11	SPT at 1.5m interval	test	34		
2.12	Undisturbed sampling (UDS)	sample	2		
<b>TOTAL FOR BILL NO. 2</b>					<b>•</b>

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Port of Currimao, Ilocos Norte

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
3.01	Visual Classification	test	70		
3.02	Moisture Content	test	58		
3.03	Grain Size analysis	test	58		
3.04	Atterberg Units	test	58		
3.05	Organic Content	test	58		
3.06	Specific Gravity	test	58		
3.07	Unit Weight	test	58		
3.08	Unconfined Compression	test	3		
3.09	Consolidation	test	3		
<b>TOTAL FOR BILL NO. 3</b>					<b>-</b>

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Currimao, Ilocos Norte

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 4	TECHNICAL EVALUATION REPORT				
4.01	Technical Evaluation Report Preparation	Lump sum	1		
TOTAL FOR BILL NO. 4					.

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Capinpin, Orion, Bataan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
BILL OF QUANTITIES					-

**BILL OF QUANTITIES**  
 Conduct of Soil Investigation/Exploration  
 Port of Capinpin, Orion, Bataan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 1</b>	<b>MOBILIZATION AND DEMOBILIZATION</b>				
1.01	Mobilization, demobilization	Lump Sum	1		
<b>TOTAL FOR BILL NO. 1</b>					-



## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Capinpin, Orion, Bataan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	<b>OFFSHORE BOREHOLE (4 BH @ 40m)</b> Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	4		
2.03	Drilling on ordinary soils	meter	140		
2.04	Coring of rocks/gravel	meter	20		
2.05	SPT at 1.5m interval	test	96		
2.06	Undisturbed sampling (UDS)	sample	4		
2.07	Safety Gears/Equipment	lot	0		
2.08	<b>INLAND BOREHOLE (0 BH @ 30m)</b> Hole to hole transfer and setting-up including staking of borehole locations	holes	0		
2.09	Drilling on ordinary soils	meter	0		
2.10	Coring of rocks/gravel	meter	0		
2.11	SPT at 1.5m interval	test	0		
2.12	Undisturbed sampling (UDS)	sample	0		
<b>TOTAL FOR BILL NO. 2</b>					<b>•</b>

**BILL OF QUANTITIES**  
Conduct of Soil Investigation/Exploration  
Port of Capinpin, Orion, Bataan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
3.01	Visual Classification	test	112		
3.02	Moisture Content	test	96		
3.03	Grain Size analysis	test	96		
3.04	Atterberg Units	test	96		
3.05	Organic Content	test	96		
3.06	Specific Gravity	test	96		
3.07	Unit Weight	test	96		
3.08	Unconfined Compression	test	4		
3.09	Consolidation	test	4		
<b>TOTAL FOR BILL NO. 3</b>					

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Capinpin, Orion, Bataan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 4	TECHNICAL EVALUATION REPORT				
4.01	Technical Evaluation Report Preparation	Lump sum	1		
TOTAL FOR BILL NO. 4					.

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Calapan, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
<b>BILL OF QUANTITIES</b>					-

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Calapan, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
1.01	Mobilization, demobilization	Lump Sum	1		
TOTAL FOR BILL NO. 1					

**BILL OF QUANTITIES**  
**Conduct of Soil Investigation/Exploration**  
**Port of Calapan, Oriental Mindoro**

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	<b>OFFSHORE BOREHOLE (3 BH @ 40m)</b> Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	3		
2.03	Drilling on ordinary soils	meter	105		
2.04	Coring of rocks/gravel	meter	15		
2.05	SPT at 1.5m Interval	test	72		
2.06	Undisturbed sampling (UDS)	sample	3		
2.07	Safety Gears/Equipment	lot	0		
2.08	<b>INLAND BOREHOLE (0 BH @ 30m)</b> Hole to hole transfer and setting-up including staking of borehole locations	holes	0		
2.09	Drilling on ordinary soils	meter	0		
2.10	Coring of rocks/gravel	meter	0		
2.11	SPT at 1.5m Interval	test	0		
2.12	Undisturbed sampling (UDS)	sample	0		
<b>TOTAL FOR BILL NO. 2</b>					<b>*</b>

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Calapan, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 3</b>	<b>LABORATORY TEST</b>				
3.01	Visual Classification	test	84		
3.02	Molsture Content	test	72		
3.03	Grain Size analysis	test	72		
3.04	Atterberg Units	test	72		
3.05	Organic Content	test	72		
3.06	Specific Gravity	test	72		
3.07	Unit Weight	test	72		
3.08	Unconfined Compression	test	3		
3.09	Consolidation	test	3		
<b>TOTAL FOR BILL NO. 3</b>					<b>.</b>

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Calapan, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 4	TECHNICAL EVALUATION REPORT				
4.01	Technical Evaluation Report Preparation	Lump sum	1		
TOTAL FOR BILL NO. 4					



## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration

Port of Puerto Galera, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	MOBILIZATION AND DEMOBILIZATION				
BILL NO. 2	FIELD WORK				
BILL NO. 3	LABORATORY TEST				
BILL NO. 4	TECHNICAL EVALUATION REPORT				
<b>BILL OF QUANTITIES</b>					-

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Puerto Galera, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 1</b>	<b>MOBILIZATION AND DEMOBILIZATION</b>				
1.01	Mobilization, demobilization	Lump Sum	1		
<b>TOTAL FOR BILL NO. 1</b>					-

## BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration  
Port of Puerto Galera, Oriental Mindoro

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
<b>BILL NO. 2</b>	<b>FIELD WORK</b>				
2.01	<b>OFFSHORE BOREHOLE (2 BH @ 40m)</b> Fabrication and drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up Including staking of borehole locations	holes	2		
2.03	Drilling on ordinary soils	meter	70		
2.04	Coring of rocks/gravel	meter	10		
2.05	SPT at 1.5m interval	test	48		
2.06	Undisturbed sampling (UDS)	sample	2		
2.07	Safety Gears/Equipment	lot	0		
	<b>INLAND BOREHOLE (0 BH @ 30m)</b>				
2.08	Hole to hole transfer and setting-up Including staking of borehole locations	holes	0		
2.09	Drilling on ordinary soils	meter	0		
2.10	Coring of rocks/gravel	meter	0		
2.11	SPT at 1.5m interval	test	0		
2.12	Undisturbed sampling (UDS)	sample	0		
<b>TOTAL FOR BILL NO. 2</b>					<b>-</b>