slow to ensure that the Services are completed in accordance with the Staffing Schedule, the Procuring Entity shall so notify the Consultant in writing and the Consultant shall at its sole cost and expense, thereupon take such steps as necessary, subject to the Procuring Entity's approval, or as reasonably required by the Procuring Entity, to expedite progress so as to ensure that the Services are completed in accordance with the Staffing Schedule.

55.4. Final payment pursuant to the Payment Schedule in Appendices IV and V shall be made by the Procuring Entity after the final report has been submitted by the Consultant and approved by the Procuring Entity.

55.5. Termination - Upon the receipt or giving of any notice referred to in **GCC** Clause 29 and if the Consultant is not in default under this Contract and has partly or substantially performed its obligation under this Contract up to the date of termination and has taken immediate steps to bring the Services to a close in prompt and orderly manner, there shall be an equitable reduction in the maximum amount payable under this Contract to reflect the reduction in the Services, provided that in no event shall the Consultant receive less than his actual costs up to the effective date of the termination, plus a reasonable allowance for overhead and profit.

55.6. Unless otherwise provided in the **SCC**, no additional payment for variation order, if any, shall be allowed for this Contract.

56. 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 Procuring Entity shall, without prejudice to its other remedies under this Contract and under the Applicable Law, deduct from the contract price, as liquidated damages, a 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. Once the amount of liquidated damages reaches ten percent (10%) of the total amount of contract, the Procuring Entity may consider termination of this Contract pursuant to **GCC** Clause 27.

Section V. SPECIAL CONDITIONS OF CONTRACT

Section V. Special Conditions of Contract

GCC Clause	
1.1(g)	The Funding Source is: PPA's Corporate Budget for CY 2025.
6.2(b)	For a period of two years after the expiration of this Contract, the Consultant shall not engage, and shall cause its Personnel as well as their Subconsultants and its Personnel not to engage, in the activity of a purchaser (directly or indirectly) of the assets on which they advised the Procuring Entity under this Contract nor in the activity of an adviser (directly or indirectly) of potential purchasers of such assets. The Consultant also agree that their affiliates shall be disqualified for the same period of time from engaging in the said activities.
7	"Not applicable".
8	The person designated as resident project manager in Appendix III shall serve in that capacity, as specified in **GCC** Clause 8.
10	No further instructions.
12	The Authorized Representatives are as follows: For the Procuring Entity: **MARK JON S. PALOMAR** **Chairperson, HO-BAC-EP-CON** For the Consultant: _____
15.1	The addresses are: **Philippine Ports Authority** **MARK JON S. PALOMAR** **Chairperson, HO-BAC-EP-CON** Address: **PPA Bldg., A. Bonifacio Drive, South Harbor, Port Area, Manila** Facsimile: Telephone Nos. 85278374-77 loc. 610 Email Address: mjspalomar@ppa.com.ph

	Consultants: Attention: Address:_____ Facsimile:_____ Email Address: _____
15.2	Notice shall be deemed to be effective as follows: (a) in the case of personal delivery or registered mail, on delivery; (b) in the case of facsimiles, within 1 hour following confirmed transmission; or (c) in the case of telegrams, within 1 day following confirmed transmission.
18.3	Consultant's account where payment may be made:_____
19	No further instructions.
20	All partners to the joint venture shall be jointly and severally liable to the Procuring Entity.
22	None
24	The time period shall be 8 months or such other time period as the parties may agree in writing.
34.2	Any and all disputes arising from the implementation of this contract shall be submitted to arbitration in the Philippines according to the provisions of Republic Acts 876 and 9285, as required in Section 59 of the IRR of RA 9184.
35.1	The drawings, specifications, designs, reports, other documents and software prepared by the Consultant for the Procuring Entity under this Contract that shall become and remain the property of the Procuring Entity are as follows: (a) Technical and Survey Reports (b) Special Reports (c) Draft Final Report (hard & electronic copy) (d) Final Report (hard & electronic copy)

38.1(d)	The Consultant's actions requiring the Procuring Entity's prior approval are: (a) Progress Billing. (b) Key Personnel Replacement. (c) Contract Time Extension (at no cost to Procuring Entity).
39.5	The Consultant may change its Key Personnel only for justifiable reasons as may be determined by the Procuring Entity, such as death, serious illness, incapacity of an individual Consultant, resignation, among others, or until after fifty percent (50%) of the Personnel's man-months have been served. Violators will be fined an amount equal to the refund of the replaced Personnel's basic rate, which should be at least fifty percent (50%) of the total basic rate for the duration of the engagement.
42.1	No further instructions.
42.4(c)	No further instructions.
52.1	The total ceiling amount in Philippine Pesos is ₱ 31,515,131.22.
52.2	No further instructions.
53.2	No additional instructions.
53.4	The following expenditures in foreign currency shall be reimbursed in local currency at the exchange rate used on the date of Bid opening: 1. a per diem allowance for each of the foreign or local Personnel for every day in which such Personnel shall be absent from his home office and shall be outside the country of the Government for the purpose of the Services at the daily rate specified in Appendix IV; 2. the following transportation costs: (a) the cost of international transportation of the foreign Personnel and, as specified below, eligible dependents of the foreign Personnel, by the most appropriate means of transport and the most direct practicable route to and from the Consultant's home office; in the case of air travel, this shall be by less than first class; (b) the cost of transportation to and from the Government's country of eligible dependents who shall be the spouse and not more than two (2) unmarried dependent children under eighteen (18) years of age of those of the foreign Personnel assigned to resident duty in the Government's country for the purpose of the Services for periods of six (6)

	consecutive months or longer, provided that the stay of such dependents in the Government's country shall have been for not less than three (3) consecutive months, duration. If the project period for resident staff of the foreign Personnel shall be thirty (30) months or more, one extra economy class air trip for their eligible dependents for every twenty-four (24)-month project shall be reimbursed; (c) for the air travel of each of the foreign Personnel, and each eligible dependent, the cost of excess baggage up to twenty (20) kilograms per person, or the equivalent in cost of unaccompanied baggage or air freight; and (d) miscellaneous travel expenses such as the cost of transportation to and from airports, airport taxes, passport, visas, travel permits, vaccinations, etc., at a fixed unit price per round trip as specified in Appendix IV; 3. the cost of communications (other than those arising in the Government's country) reasonably required by the Consultant for the purposes of the Services; 4. the cost of printing, reproducing and shipping of the documents, reports, drawings, etc. specified in Appendix IV; 5. the cost of acquisition, shipment and handling of the following equipment, instruments, materials and supplies required for the Services: *[insert amount]*; 6. the cost of shipment of personal effects up to *[insert amount]*; 7. the cost of programming and use of, and communication between, the computers for the purposes of the Services at the rate set forth in Appendix IV; 8. the cost of training of the Procuring Entity's personnel outside the Government's country, as specified in Appendix IV; 9. the cost of laboratory tests on materials, model tests and other technical services authorized or requested by the Procuring Entity, as specified in Appendix IV; 10. the foreign currency cost of any subcontract required for the Services and approved in writing by the Procuring Entity; 11. the cost of items not covered in the foregoing but which may be required by the Consultant for completion of the Services, subject to the prior authorization in writing by the Procuring Entity; and 12. any such additional payments in foreign currency for properly procured items as the Parties may have agreed upon.

	NOTE: *Items that are not applicable should be deleted; others may be added.* The reimbursable expenditures in local currency shall be as follows: 1. the cost of the following locally procured items: local transportation, office accommodations, camp facilities, camp services, subcontracted services, soil testing, equipment rentals, supplies, utilities and communication charges arising in the Government's country, all if and to the extent required for the purpose of the Services, at rates specified in Appendix IV; 2. the cost of equipment, materials and supplies to be procured locally in the Government's country as specified in Appendix IV; 3. the local currency cost of any subcontract required for the Services and approved in writing by the Procuring Entity; 4. any such additional payments in local currency for properly procured items as the Parties may have agreed upon pursuant to this Contract; and 5. the ordinary and necessary cost of such further items as may be required by the Consultant which are actually, directly, and necessarily used for the purpose of the Services, as agreed in writing by the Procuring Entity. ***NOTE:*** *Items that are not applicable should be deleted.*
53.5(a)	The following provisions shall apply to the advance payment and the advance payment guarantee: (a) An advance payment of 15% in Philippine peso shall be made within 30 days after the Effective Date. The advance payment shall be set off by the Procuring Entity in equal installments against the statements for the first 5 months of the Services until the advance payment has been fully set off. (b) The advance payment shall be made only upon the submission to and acceptance by the Procuring Entity of an irrevocable standby letter of credit issued by an entity acceptable to the agency and of an amount equivalent to the advance payment.
53.5(c)	The interest rate is: *0%*.
55.6	No further instructions.

Section VI. TERMS OF REFERENCE

Republic of the Philippines
PHILIPPINE PORTS AUTHORITY
TERMS OF REFERENCE FOR THE CONSULTANCY SERVICES FOR THE TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS (PACKAGE 13)

I. OBJECTIVE

The purpose of this package of soil investigation is to obtain the needed information for foundation design analysis and for the evaluation of alternative type of structures.

II. GENERAL

There are no existing or updated records on soil investigations at the following selected ports site on which to base the preliminary or detailed engineering design of structures to be constructed thereat:

Port	Proposed Project
Luzon	
1. PPA Head Office Bldg., Manila	Extension and Improvement of PPA H.O. Building
2. Batangas, Batangas	Construction of OSW Port
3. Lucena, Quezon	Port Expansion Project
4. Polillo, Quezon	Port Expansion Project
5. Catanauan, Quezon	Port Development Project
6. Puerto Galera, Sitio Hondura, Poblacion, Puerto Galera, Or. Mindoro	Construction of Welcome Center and Parking Area
7. Plaridel, Siain, Quezon	Port Development/Improvement Project
8. San Narciso, Quezon	Port Development Project
9. Linapacan, Palawan	Port Improve Project
10. Matnog, Sorsogon	Port Expansion Project
11. Tandoc, Siruma, Cam. Sur	Port Expansion Project
Visayas	
1. Alegria, Buruanga, Aklan	Port Expansion Project Phase II
2. Estancia, Iloilo	Port Improvement/Expansion Project
3. Getafe, Bohol	Port Expansion Project
4. Candijay, Bohol	Port Development Project
5. Oton, Iloilo	Port Development Project
6. Can-aybon, Sulat, Eastern Samar	Port Development Project
7. Carigara, Leyte	Port Expansion Project
Mindanao	
1. Gingoog, Misamis Oriental	Port Development Project
2. Cagdianao, Dinagat Island	Port Development Project

The PPA may order additions or deletions from this package.

III. SCOPE OF WORK

A. Coverage

The work shall cover the drilling of and testing of soil samples from sixty-seven (67) boreholes, of which sixty (60) shall be drilled offshore each to a depth up to 40 meters below seabed and seven (7) shall be drilled inland to a depth up to 30 meters below existing ground line maximum for each borehole, respectively and/or there is 5 consecutive SPT N values of at least 50 blows but with less than 1 foot (30 cm.) of soil penetration recorded during two (2) – successive 15 cm. penetrations of the Split-Spoon Sampler or 4.5-meters coring into bedrock, whichever comes first. Soil boring/drilling deeper than 40 meters or 30 meters in the case of Offshore boreholes or Inland boreholes, respectively, shall be referred to the PPA Engineer/Authorized Representative witnessing the drilling on-site. However, the minimum depth of drilling for both offshore and inland boreholes is 15 meters deep. All boreholes must be referred to benchmarks designated by the PPA. The actual number of boreholes, their locations and depths are subject to change depending on field conditions. A Geodetic Engineer shall determine the actual location of the borehole based on the coordinates specified in the development plan using GPS technology/system. The contract duration for this package is eight (8) months from the receipt by the winning bidder of the Notice to Proceed (NTP).

B. Description of Work

1. Soil Exploration. This shall consist of drilling test holes, classification of soils and making of field tests on soil characteristics. In addition, laboratory tests shall be made as specified. The Consultant should be able to identify areas with geological, problems and difficulties, which could affect the stability of the proposed structures i.e. buildings, pier/wharf, back-up area, causeway, etc. A complete report shall be required giving soil classifications and their engineering characteristics including a ***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)***. The dimension of the back-up area shall be coordinated with PPA.

   - Depth of seabed with respect to Mean Lower Low Water (MLLW)
   - Soil borings through ordinary soils (depth: 0-40m)
   - Soil borings through hard soils/rock (depth: 5m)
   - Split-spoon sampling (1m interval for the first 3 meters, 1.5m interval thereafter or when there is noticeable change in the soil characteristics based on texture and color, whichever comes first
   - Standard Penetration Tests (similar to split-spoon sampling criteria)
   - Undisturbed sampling using thin-walled Shelby tube sampler (one sampler every 10m deep when there is encountered soft to medium stiff cohesive samples with SPT readings ranging from 2 to 7 blows per foot of soil penetration)
   - Stop criterion of soil boring for each borehole when: there is 5 consecutive SPT N values of at least 50 blows but with less than 1 foot (30 cm.) of soil penetration recorded during (two) 2 – successive 15 cm. penetrations of the Split-Spoon Sampler or 4.5-meters coring into bedrock or 40 meters below sea bed level in the case of offshore boreholes or 30 meters deep below Existing Ground Line in the case of inland boreholes, whichever comes first. Soil boring/drilling deeper than 40 meters or 30 meters in the case of offshore boreholes or inland boreholes, respectively shall be referred to the PPA Engineer/Authorized Representative witnessing the drilling on-site. **However, the minimum depth of drilling for both offshore and inland boreholes is 15 meters deep.**

   Pertinent ASTM standards are to be met in the conduct of the investigation.

   If rock is encountered, holes shall be terminated after core drilling continuously for five (5) meters in the rock.

   a. Soil Classification. Soils shall be described according to the Unified Classification System of ASTM D2487. A visual field classification of soils by a competent Geologist or Geotechnical Engineer supplemented by laboratory tests shall be made.

   b. Penetration. The Standard Penetration Test (SPT) shall be carried out in accordance with ASTM D1586. Disturbed (split-spoon) samples shall be performed at intervals of 1 meter for the first 3 meters and every 1.5 meters thereafter. Representative samples shall be collected and shipped for laboratory testing. At least one undisturbed (Shelby tube) sample, 2½ inch diameter x 24" long or larger, shall be extracted from each distinct soft to medium stiff cohesive stratum. The depth of the undisturbed sample shall be subject to the directions of PPA.

   c. Testing . The soil/rock samples to be scheduled for laboratory tests shall be selected by the Consultant. The types of test shall be referred to ASTM standard procedures as follows:

1)	Visual Soil Classification (SPT)	ASTM D2488/D2487 2217/ASTM D1586
2)	Gradation	ASTM D422/E100 Part 41
3)	Atterberg Limits	ASTM 421/423
4)	Natural Water Content	ASTM D2216
5)	Unit Weight	ASTM 2049/D1556/D2167

6)	Organic Content	ASTM D2974
7)	Specific Gravity	ASTM D854/C127
8)	Consolidation Test	ASTM D2435
9)	Unconfined Compression Test	ASTM D2166-06

The Consultant shall have their owned laboratory where the testing of soil samples shall be done.

2. Procedure

a. Pre-drilling Coordination Meeting. Prior to the mobilization of the drilling teams/crews of the Contractor to the priority port sites, a coordination meeting with the PPA Engineers in charge of monitoring the project activities to discuss among others, other parameters that maybe required relevant to the specific structure to be constructed, the type and size of structures (pier, causeway, wharf, back-up area, building, among others) to be built on each port site as clearly indicated in the Port Development Plan in relation to the borehole location and designation as superimposed therewith.

b. Technical Advice. The Contractor's Experts/Engineers shall be available, if consulted, to give/submit their professional written opinion on technical matters that may arise in the course of the PPA Engineer's design of such foundation structures and during the implementation of the proposed structure.

c. Inspection. No work shall be performed in the absence of an authorized representative of the PPA.

The Contractor shall not remove casing or equipment from any completed boring except with the express permission of the authorized representative and until said representative has had the opportunity to obtain all relevant data prior to removal.

d. Size of Boring in Sampling. Samples shall be obtained either intermittently or continuously as specified herein with a minimum diameter of 1-3/8 inch. The sizes of boreholes shall be sufficient for the above size of sample. Intermittent sampling shall mean disturbed (split-spoon) samples taken at specified intervals and undisturbed (Shelby tube) samples at each change of soil type or if soft cohesive soils are required, they shall be obtained with thin-wall samplers. Samples shall be prepared in accordance with the applicable requirements of the section herein on "Preserving Samples."

e. Penetration on Boulders or Rock Layers. Boulders or rock layers encountered in drilling shall be cored to determine the character and size or thickness of the materials. After coring, the hole may be enlarged by reaming or by other means as approved by the PPA. Where it will be necessary to reduce the size of the borehole in order to reach the target depth and obtain the required samples, the minimum casing diameter shall be of such size as to permit the use of a 1-5/8 inch core bit.

3. Supplemental Boring

a. Abandoned Borings. Borings that are abandoned or lost before reaching the required depth, or from which unsatisfactory samples are obtained, shall be supplemented by other borings adjacent to the original in order to obtain satisfactory samples and the required information. Penetration to the depth where the original boring was abandoned may be made by any method selected by the Contractor that in the opinion of the PPA will permit satisfactory completion and sampling below the elevation not satisfactorily reached by the abandoned boring.

b. False Start. It is intended that the borings be made so as to clear all underwater pipes, conduits, and other underwater structures. However, should the Contractor be unable to complete any boring due to underwater structures, obstacles or obstructions which the PPA considers are of unusual nature and that failure to penetrate them is not the fault of the Contractor's method or equipment, a false start will be allowed. In such cases, if directed by the PPA representative, another boring will be made in the adjacent vicinity.

4. Casing

a. Advancing. Boring through overburden soils shall be suitably cased to permit obtaining samples of the size or sizes specified or as directed. Casing may consist of standard pipes and couplings or flush pointed pipes, and shall be advanced vertically by driving, chopping and washing, coring or by any method consistent with the manner and type of sampling described for the specified boring, and as approved by the PPA. In all borings where rock is to be cored below the cased overburden, the casing shall be firmly seated to the rock, and the hole cleaned of all loose material before commencing coring operations.

b. Removal. All casings shall remain the property of the Contractor and shall be removed on the completion of the work.

IV. SOIL INVESTIGATION FOR PROPOSED STRUCTURES

Sub-surface exploration shall be carried out at proposed sites for revetment and proposed engineering structures in order to obtain sufficient and adequate subsoil data for the preliminary or detailed engineering design of the project.

a.) Soil Borings and Core Drilling

Borings through underlying soils shall be advanced by drilling with either diamond or carbide NW casing shoe bits or such other method consistent with the manner and types of soil sampling to be employed, as may be approved by the PPA Engineer. Borings shall be cased to permit soil sampling by split-spoon and Shelby tube methods and shall extend down to the program depth of boreholes at respective area covered by the survey or deeper as directed by the PPA Engineer on-site.

For coring into rock or hard strata, rotary drilling method shall be employed. Core drillings shall be performed in accordance with ASTM or AASHTO procedures and the following provisions. At the start of coring, the casings through the substrata shall be tightly seated. The coring of rocks shall employ NQ size double tube core barrels or triple tube core barrels, to provide a sample run from 0.5 m to 1.5 m long within the liner, and shall be continued 4.50 m penetration deep into the bedrock. Length of recovered rock in each run shall be recorded and recovery expressed as a percentage of total recovery for each drilling run. Cores shall be recovered and placed in core boxes in the correct sequence. Core boxes shall be of robust timber construction and to the satisfaction of the PPA Engineer. The Contractor shall exercise particular care in recording water losses, rod jerks, and other unusual coring

experience that is supplementary to the core record, and shall indicate, the nature and the extent of any fracturing.

The Contractor shall record groundwater levels in each boring upon completion of boring, during the removal of the casings and 24 hours after the removal of the casing. Where the borings are made over a period of several days, the ground water readings shall be made each evening at the end of the drilling operations, and each morning prior to the resumption of drilling. In all cases the recorded data shall include the date and time of reading.

b.) Standard Penetration Test and Split-Spoon Sampling

This work shall be performed in accordance with ASTM of AASHTO standard procedures, and the following provisions. Where discrepancies exist, these specifications shall govern. All procedures are subject to the approval of the PPA Engineer.

Representative soil samples (disturbed) shall be obtained at regular intervals of 1.0 meter for the first 3 meters or every 1.50 meters interval, thereafter or every change in soil characteristics, whichever is observed first.

Split-spoon sampler shall be driven into the soil at the bottom of the cleaned out casing using a 64.0 kg. hammer falling 75 cm. The hammer will be raised preferably by means of a mechanical free drop system. The sampler shall have a steel shoe with a sharp cutting edge, and a reliable check valve. A record shall be made of the number of blows for the sampler to penetrate the first 15 cm. and is called the seating drive. The sampler shall be driven a further 30 cm. or until 60 to 70 blows of the hammer have been applied. The number of blows for each 15 cm penetration shall be recorded. The penetration resistance, N, will be the total number of blows required to drive the sampler the last 30 cm.

If the sampler is driven less than a total of 45 cm, the penetration resistance shall be number of blows for the last 30 cm of penetration. If less than 30 cm. is penetrated, the number of blows shall be stated and the depth of penetration measured. If the rate of penetration of the sampler is less than 2.5 cm for the 50 blows, refusal shall be considered to have been obtained.

The sampler shoe shall be provided or fitted with a flap valve to obtain samples in soils that are too granular to be retained in the sampler.

Tests shall be repeated if necessary to obtain acceptable samples. However, the sampler shall not be driven more than 60 cm below the bottom of the casing, in which case, the casing shall be advanced before repeating the test procedure.

The split-spoon retrieved from the hole shall be handled carefully and shall be opened, with minimum disturbance of the sample, then placed into a clean plastic sheeting bag for visual classification. The soil sample shall be preserved and stored as specified in Section III. If the sampler is found to contain more than one type of soil, each type shall be classified and preserved separately.

1. Split Spoon Drive Sampling

   a. Sampler Description. Samplers for drive samples shall be of the standard split spoon type having an outside diameter of two (2) inches and an inside diameter of one and three eighths (1-3/8) inches for NW size holes. The sampler shall have a minimum inside length of sixteen (16) inches and shall be equipped with hardened tool shoe valve at the top. The Contractor shall also provide a core catcher at the bottom of the sampler when difficulty is experienced in recovering samples.

   b. Sampling Procedures. At the points where drive samples are to be taken, advancement of the borehole shall be stopped and the hole or

casing shall be completely cleaned of disturbed soil, segregated coarse material and any clay adhering to the walls of the casing. The cleaning shall extend to at least the bottom edge of the casing and should preferably advance the hole a few inches further in order to by-pass disturbance caused by the cutting edge of the casing. Cleaning shall be done with shielded jets suitable to the relative resistance of the various subsurface strata; the drive sampler shall be driven in the following manner:

1) The 1-3/8 inch inside diameter drive sampler shall be driven with a 140-lb. hammer a free fall of 30 inches.
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 deep 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 25th 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 **(in both pre-stressed concrete pile and 500/700 mm diameter steel pipe pile)** depending on the type of structure to be constructed, including the findings and recommendations of a competent Geotechnical 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 of recommended soil particles and Atterberg Limit worksheets.

In determining the pile bearing capacity as option/recommendation for foundation works, the Geotechnical 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.

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; (four (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-four (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)
2	sets	Surveying Equipment (GPS or Total Station) (One (1) – owned and One (1) - leased)

Similarly, miscellaneous items such as 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 (Civil Engineer with specialization in Geotechnical Engineering)
- Deputy Project Manager/Port Engineer
- Geotechnical Engineer (Civil 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.

XII. 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 the 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.

XIII. APPROVED BUDGET FOR THE CONTRACT (ABC)

The **Approved Budget for the Contract** is **PhP31,515,131.22**.

XIV. SELECTION CRITERIA FOR PROPOSAL

The shortlisted consultants shall be evaluated using **Quality-Cost Based Evaluation (QCBE)** procedure under R.A. 9184 and its Revised IRR at **eighty-five percent (85%)** for the **Technical Proposal** (with a Minimum Qualifying Mark of 70%) and **fifteen percent (15%)** for the **Financial Proposal.**

Prepared by:

RYAN JOSEPH F. CARIÑO
Environmental Specialist A

Checked by:

DANTE B. TEJADA
Principal Engineer A

Reviewed by:

MELODY E. ESPIRIDION
Manager, PPD

Recommending Approval:

REYNAND C. PARAFINA
Manager, PPDD

Approved:

JAMES J. GANTALAO
Assistant General Manager for Engineering

Section VII. BIDDING FORMS

TPF 1. TECHNICAL PROPOSAL SUBMISSION FORM

[Date]

[Name and address of the Procuring Entity]

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for the CONSULTANCY SERVICES FOR THE TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS (PACKAGE 13) 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.

<table>
<tr><td colspan="2">Project Name:</td><td>Country:</td></tr>
<tr><td colspan="2">Location within Country:</td><td>Professional Staff Provided by Your Firm/Entity(profiles):</td></tr>
<tr><td colspan="2">Name of Client:</td><td>Nº of Staff:</td></tr>
<tr><td colspan="2">Address:</td><td>Nº of Staff-Months; Duration of Project:</td></tr>
<tr><td>Start Date (Month/Year):</td><td>Completion Date (Month/Year):</td><td>Approx. Value of Services (in Current US$):</td></tr>
<tr><td colspan="2">Name of Associated Consultants, if any:</td><td>Nº of Months of Professional Staff Provided by Associated Consultants:</td></tr>
<tr><td colspan="3">Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed:</td></tr>
<tr><td colspan="3">Narrative Description of Project:</td></tr>
<tr><td colspan="3">Description of Actual Services Provided by Your Staff:</td></tr>
</table>

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

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

TPF 5. TEAM COMPOSITION AND TASK PROJECTS

1. Technical/Managerial Staff		
Name	Position	Task

2. Support Staff		
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.

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

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.*]

_____

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.

_____ Date: _____
[Signature of staff member and authorized representative of the firm] *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

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

	[1st, 2nd, etc. are months from the start of project.]												
	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]

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, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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, Procurement Agent if engaged, 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 Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

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

BID SECURING DECLARATION
Project Identification No.: *[Insert 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 procurement 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 the 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 No. 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; and
    c. I am/we are declared 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 OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

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

FPF 1. FINANCIAL PROPOSAL SUBMISSION FORM

[Date]

[Name and address of the Procuring Entity]

Ladies/Gentlemen:

We, the undersigned, offer to provide the consulting services for the CONSULTANCY SERVICES FOR THE TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS (PACKAGE 13) 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)[7]	Amount in Philippine Peso
Subtotal		
Local Taxes		
Total Amount of Financial Proposal		_____

[7] 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)[8]	Amount in Philippine Peso
Remuneration Reimbursables Miscellaneous Expenses Subtotal		_____

[8] 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[9]	Remuneration Currency(ies) Rate	Amount
Regular staff Local staff Consultants Grand Total				_____

9 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[10]				
5.	Office rent/accommodation/ clerical assistance				
	Grand Total				_____

10 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				_____

CONSULTANCY SERVICES FOR THE TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS (Package 13)

ITEMS	UNIT	QUANTITY	UNIT PRICE	AMOUNT
A. REMUNERATION				
1. Billing Rate Key Staff	MM			
EVAT (12% of 1)				
TOTAL A.1				
2. Billing Support Staff	MM			
EVAT (12% of 2)				
TOTAL A.2				
TOTAL FOR A				
B. REIMBURSABLE COST				
1. Office Supplies	month	8.00		
2. Printing/Binding/Reproduction of Reports	lot	1.00		
3. Communication Expenses	lot	1.00		
4. Transportation Expenses (Air/Land/Sea Fare/Per Diem)	lot	1.00		
TOTAL FOR B				
C. FIELD WORKS/STUDIES	lot	1.00		
TOTAL COST				

CONSULTANCY SERVICES FOR THE TECHNICAL SERVICES FOR THE CONDUCT OF SOIL INVESTIGATION AT SELECTED PORTS (PACKAGE 13)

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

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

_____

Binding Signature of Consultant

_____

[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 (Package 13)

(SUMMARY)

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 (Package 13)

(SUMMARY)

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	lot	1		
	Team B	lot	1		
	Team C	lot	1		
	TOTAL FOR BILL NO. 1				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	FIELD WORK				
	OFFSHORE BOREHOLE				
	Lucena, Quezon	lot	1		
	Catanauan, Quezon	lot	1		
	San Narciso, Quezon	lot	1		
	Polilio, Quezon	lot	1		
	Matnog, Sorsogon	lot	1		
	Tandoc, Siruma, Camarines Sur	lot	1		
	Candijay, Bohol	lot	1		
	Getafe, Bohol	lot	1		
	Oton, Iloilo	lot	1		
	Estancia, Iloilo	lot	1		
	Alegria, Buruanga, Aklan	lot	1		
	Linapacan, Palawan	lot	1		
	Can-aybon, Sulat, Eastern Leyte	lot	1		

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
	Carigara, Leyte	lot	1		
	Cagdianao, Dinagat Island	lot	1		
	INLAND BOREHOLE				
	PPA Head Office, Manila	lot	1		
	OFFSHORE AND INLAND BOREHOLE				
	Plaridel (Siain), Quezon	lot	1		
	Gingoog, Misamis Oriental	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		
	Batangas, Batangas	lot	1		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	LABORATORY TEST				
	PPA Head Office, Manila	lot	1		
	Lucena, Quezon	lot	1		
	Catanauan, Quezon	lot	1		
	San Narciso, Quezon	lot	1		
	Plaridel (Siain), Quezon	lot	1		
	Polilio, Quezon	lot	1		
	Matnog, Sorsogon	lot	1		
	Tandoc, Siruma, Camarines Sur	lot	1		
	Candijay, Bohol	lot	1		
	Carigara, Leyte	lot	1		
	Getafe, Bohol	lot	1		
	Oton, Iloilo	lot	1		
	Estancia, Iloilo	lot	1		
	Alegria, Buruanga, Aklan	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
	Linapacan, Palawan	lot	1		
	Batangas, Batangas	lot	1		
	Can-aybon, Sulat, Eastern Leyte	lot	1		
	Cagdianao, Dinagat Island	lot	1		
	Gingoog, Misamis Oriental	lot	1		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

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				
	PPA Head Office, Manila	lot	1		
	Lucena, Quezon	lot	1		
	Catanauan, Quezon	lot	1		
	San Narciso, Quezon	lot	1		
	Plaridel (Siain), Quezon	lot	1		
	Polilio, Quezon	lot	1		
	Matnog, Sorsogon	lot	1		
	Tandoc, Siruma, Camarines Sur	lot	1		
	Candijay, Bohol	lot	1		
	Carigara, Leyte	lot	1		
	Getafe, Bohol	lot	1		
	Oton, Iloilo	lot	1		
	Estancia, Iloilo	lot	1		
	Alegria, Buruanga, Aklan	lot	1		
	Puerto Galera, Oriental Mindoro	lot	1		

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

(SUMMARY)

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
	Linapacan, Palawan	lot	1		
	Batangas, Batangas	lot	1		
	Can-aybon, Sulat, Eastern Leyte	lot	1		
	Cagdianao, Dinagat Island	lot	1		
	Gingoog, Misamis Oriental	lot	1		
	TOTAL FOR BILL NO. 4				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

PPA Head Office, Manila

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 (Package 13)

PPA Head Office, Manila

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 (Package 13)

PPA Head Office, Manila

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

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

PPA Head Office, Manila

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
3.01	Visual Classification	test	42		
3.02	Moisture Content	test	34		
3.03	Grain Size analysis	test	34		
3.04	Atterberg Units	test	34		
3.05	Organic Content	test	34		
3.06	Specific Gravity	test	34		
3.07	Unit Weight	test	34		
3.08	Unconfined Compression	test	2		
3.09	Consolidation	test	2		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

PPA Head Office, Manila

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 (Package 13)

Port of Batangas, Batangas

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 (Package 13)

Port of Batangas, Batangas

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 (Package 13)

Port of Batangas, Batangas

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	FIELD WORK				
	OFFSHORE BOREHOLE (2 BH @ 40m)				
2.01	Fabrication of 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		
	INLAND BOREHOLE (2 BH @ 30m)				
2.08	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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Batangas, Batangas

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
3.01	Visual Classification	test	98		
3.02	Moisture Content	test	82		
3.03	Grain Size analysis	test	82		
3.04	Atterberg Units	test	82		
3.05	Organic Content	test	82		
3.06	Specific Gravity	test	82		
3.07	Unit Weight	test	82		
3.08	Unconfined Compression	test	4		
3.09	Consolidation	test	4		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Batangas, Batangas

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 (Package 13)

Port of Lucena, Quezon

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 (Package 13)

Port of Lucena, Quezon

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 (Package 13)

Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	**FIELD WORK**				
	OFFSHORE BOREHOLE (5 BH @ 40m)				
2.01	Fabrication of drilling platform	lump sum	1		
2.02	Hole to hole transfer and setting-up including staking of borehole locations	holes	5		
2.03	Drilling on ordinary soils	meter	175		
2.04	Coring of rocks/gravel	meter	25		
2.05	SPT at 1.5m interval	test	120		
2.06	Undisturbed sampling (UDS)	sample	5		
2.07	Safety Gears/Equipment	lot	0		
	INLAND BOREHOLE (0 BH @ 30m)				
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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
3.01	Visual Classification	test	140		
3.02	Moisture Content	test	120		
3.03	Grain Size analysis	test	120		
3.04	Atterberg Units	test	120		
3.05	Organic Content	test	120		
3.06	Specific Gravity	test	120		
3.07	Unit Weight	test	120		
3.08	Unconfined Compression	test	5		
3.09	Consolidation	test	5		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Lucena, Quezon

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 (Package 13)

Port of Polilio, Quezon

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 (Package 13)

Port of Polillo, Quezon

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 (Package 13)

Port of Polillo, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	**FIELD WORK**				
	OFFSHORE BOREHOLE (3 BH @ 40m)				
2.01	Fabrication of 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		
	INLAND BOREHOLE (0 BH @ 30m)				
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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Polillo, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
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		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Polillo, Quezon

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 (Package 13)

Port of Catanauan, Quezon

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

Conduct of Soil Investigation/Exploration (Package 13)
Port of Catanauan, Quezon

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 (Package 13)
Port of Catanauan, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	**FIELD WORK**				
	OFFSHORE BOREHOLE (3 BH @ 40m)				
2.01	Fabrication of 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		
	INLAND BOREHOLE (0 BH @ 30m)				
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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)
Port of Catanauan, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
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		
				TOTAL FOR BILL NO. 3	

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)
Port of Catanauan, Quezon

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 (Package 13)

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				
	BILL OF QUANTITIES				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

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**				
1.01	Mobilization, demobilization	Lump Sum	1		
	TOTAL FOR BILL NO. 1				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

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. 2	**FIELD WORK**				
	OFFSHORE BOREHOLE (2 BH @ 40m)				
2.01	Fabrication of 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		
	INLAND BOREHOLE (1 BH @ 30m)				
2.08	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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

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. 3	**LABORATORY TEST**				
3.01	Visual Classification	test	77		
3.02	Moisture Content	test	65		
3.03	Grain Size analysis	test	65		
3.04	Atterberg Units	test	65		
3.05	Organic Content	test	65		
3.06	Specific Gravity	test	65		
3.07	Unit Weight	test	65		
3.08	Unconfined Compression	test	3		
3.09	Consolidation	test	3		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

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. 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 (Package 13)

Port of Plaridel (Siain), Quezon

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 (Package 13)

Port of Plaridel (Sialn), Quezon

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 (Package 13)

Port of Plaridel (Slain), Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 2	**FIELD WORK**				
	OFFSHORE BOREHOLE (3 BH @ 40m)				
2.01	Fabrication of 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		
	INLAND BOREHOLE (1 BH @ 30m)				
2.08	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		
	TOTAL FOR BILL NO. 2				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Plaridel (Siain), Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	**LABORATORY TEST**				
3.01	Visual Classification	test	105		
3.02	Moisture Content	test	89		
3.03	Grain Size analysis	test	89		
3.04	Atterberg Units	test	89		
3.05	Organic Content	test	89		
3.06	Specific Gravity	test	89		
3.07	Unit Weight	test	89		
3.08	Unconfined Compression	test	4		
3.09	Consolidation	test	4		
	TOTAL FOR BILL NO. 3				

BILL OF QUANTITIES

Conduct of Soil Investigation/Exploration (Package 13)

Port of Plaridel (Siain), Quezon

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 (Package 13)

Port of San Narciso, Quezon

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				