

CONTRACT NO. LOG MSSP 2020-11-079-GRJ

SUPPLY OF LABOR AND MATERIALS FOR THE STABILIZATION OF RIVER BANKS FOR 8000 LM AT BARANGAY SAN BERNARDO, TIWI, ALBAY PR No. HO-TWT20-013/SVP200930-ZT

Cynthia O. Fermo
CYNTHIA O. FERMO
President

BY:

KNOW ALL MEN BY THESE PRESENTS:

This Contract, made and entered into in Quezon City, Philippines, by and between:

The NATIONAL POWER CORPORATION, a government-owned and controlled corporation duly organized and existing under and by virtue of Republic Act No. 6395, as amended, with its principal office address at BIR Road Corner Quezon Avenue, Diliman, Quezon City, Philippines, represented herein by its Vice President, Corporate Affairs Group, MR. RENE B. BARRUELA, who is duly authorized to represent it in this transaction, hereinafter referred to as "NPC".

- and -

CAPALONGA MANGROVE DEVELOPMENT ASSOCIATION, INC., a corporation duly organized and existing under the laws of the Republic of the Philippines, with principal office address at Barangay Camagsaan, Capalonga, Camarines Norte, herein represented by its President, MS. CYNTHIA O. FERMO, who is duly authorized to represent it in this transaction, hereinafter referred to as the CONTRACTOR.

EMIL R. RAVIZ
(CONTRACTOR)
GENERAL MANAGER

WITNESSETH: That -

WHEREAS, NPC thru its Tiwi Watershed Area Team, Watershed Management Department, needs a contract for the Supply of Labor and Materials for the Stabilization of River Banks for 8000 lm at Barangay San Bernardo, Tiwi, Albay;

WHEREAS, NPC thru its Tiwi Watershed Area Team needs to rehabilitate the identified open, denuded and marginal portions of NPC watershed areas (specifically riparian zones) through vegetative means to support power-generating plants for sustained operation, contribution to climate change mitigation and biodiversity conservation;

WHEREAS, to be able to assess and determine the overall status of the following projects:

- a. Year 1 - Stabilization of River Banks (To supply labor and materials for 8000 lm at San Bernardo, Tiwi, Albay;
- b. Year 2 - Stabilization of River Banks;
- c. Year 3 - Stabilization of River Banks;

Contract between NPC and Capalonga Mangrove Development Association, Inc. Supply of Labor and Materials for the Stabilization of River Banks for 8000 lm at Barangay San Bernardo, Tiwi, Albay Contract No. LOG MSSP 2020-11-079-GRJ

RENE B. BARRUELA
Vice President, CAG

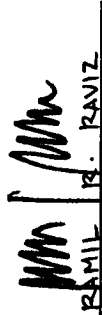
EMMANUEL A. UMALI
Department Manager, WMD (NPC)


BY:

BY:

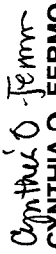

REME B. BARRUELA
Vice President, CAG

SIGNED IN THE PRESENCE OF:


RAMIL B. RAVIS
(CONTRACTOR)
GENERAL MANAGER


EMMANUEL A. UMALI
Department Manager, WMD
(NPC)

BY:


CYNTHIA O. FERMO
President

WHEREAS, CONTRACTOR, after having represented and warranted itself as capable, competent and duly licensed to undertake the Supply of Labor and Materials for the Stabilization of River Banks for 8000 Im at Barangay San Bernardo, Tiwi, Albay, submitted the single calculated and responsive quotation in a Negotiated Procurement (Small Value Procurement) conducted by the Bids and Awards Committee on 30 September 2020 for the said undertaking;

WHEREAS, NPC accepted the offer of the CONTRACTOR;

NOW, THEREFORE, in view of the foregoing premises and in consideration of the mutual covenants stipulated hereinafter provided, the parties hereby agree as follows:

ARTICLE I
DOCUMENTS COMPRISING THE CONTRACT

The following documents are hereby incorporated and made part of this Contract as though fully written out and set forth herein insofar as they are not inconsistent with the terms thereof.

1. NPC Terms of Reference for Alternative Mode of Procurement (Small Value Procurement); Supply of Labor and Materials for the Stabilization of River Banks for 8000 Im at Barangay San Bernardo, Tiwi, Albay (PR No. HO-TWT20-013 / SVP200930-ZT);
2. Result of Bid Opening and Post-qualification Report dated 19 October 2020;
3. Bid Proposal of the CONTRACTOR dated 25 September 2020;
4. Notice of Award dated 24 November 2020; and
5. Notice to Proceed

The documents mentioned above shall collectively be referred to as "Contract Documents".

In the event that there are any discrepancies/inconsistencies between the provisions of this Contract and the Contract Documents mentioned above, the former shall govern. Should there be any discrepancies/ inconsistencies among the Contract Documents, the document with the latest date shall prevail.

ARTICLE II
PROJECT LOCATION AND CONTRACT DURATION

The project site is located at Tiwi Watershed Area, Barangay Bernardo, Tiwi, Albay.

The project shall commence immediately upon issuance of the Notice to Proceed and the completion period shall be within three (3) years reckoned from the contract effectivity date stated in the Notice to Proceed (NTP).

Contract between NPC and Capalonga Mangrove Development Association, Inc.
Supply of Labor and Materials for the Stabilization of River Banks for
8000 Im at Barangay San Bernardo, Tiwi, Albay
Contract No. LOG MSSP 2020-11-079-GRJ

BY: *Cynthia O. Fermo*
CYNTHIA O. FERMO
President

**ARTICLE III
COVERAGE**

- a. Perimeter surveying and mapping
- b. Monumenting/marketing of corners
- c. Production and/or procurement of seedlings
- d. Plantation establishment and operation
- e. Plantation Maintenance
 - i. Ring weeding/cultivation and fertilizer application
 - ii. Replanting and fertilizer application
- f. Plantation Protection
 - i. Pest and disease detection and control
 - ii. Foot patrol works

**ARTICLE IV
SCOPE OF WORK**

1. Perimeter Surveying and Mapping of Areas to be Planted

- 1.1 Boundary shall be delineated using standard surveying procedures and equipment.
- 1.2 The area shall be tied to a known reference point such as the Bureau of Lands Location Monument, Universal Transverse Mercator (UTM) Monuments, GPS reading, kilometer post or any other permanent structure.
- 1.3 Map scale of the perimeter survey shall be as follows:
 - 1.3.1 1:3,000 for areas 10 hectares and below
 - 1.3.2 1:5,000 for areas more than 10 hectares up to 30 hectares
 - 1.3.3 1:7,500 for areas more than 30 hectares up to 50 hectares
 - 1.3.4 1:10,000 for areas more than 50 hectares
 - 1.3.5 To be drawn and plotted on an A3-size tracing paper.
 - 1.3.6 Technical description and remarks for every point shall be clearly indicated duly signed and sealed by a forester/geodetic engineer.
- 1.4 Non-plantable areas shall be reflected in the map indicating the total aggregate area. Upon deducting the non-plantable areas, the total available area for reforestation shall be the target area (in hectare).

SIGNED IN THE PRESENCE OF:

Ramil R. Raniz
RAMIL R. RANIZ
(CONTRACTOR)
GENERAL MANAGER

Emmanuel A. Umali
EMMANUEL A. UMALI
Department Manager, WMD
(NPC)

BY: *Rejne B. Barruela*
REJNE B. BARRUELA
Vice President, CAG

Contract between NPC and Capalonga Mangrove Development Association, Inc.
Supply of Labor and Materials for the Stabilization of River Banks for
8000 lm at Barangay San Bernardo, Tiwi, Albay
Contract No. LOG MSSP 2020-11-079-GRJ


BY:


RENE B. BARRUELA
Vice President, CAG

SIGNED IN THE


EMMANUEL A. UMALI
Department Manager, WMD
(NPC)

PRESENCE OF:


RAMIL R. RANIZ
(CONTRACTOR)
GENERAL MANAGER

BY:


CYNTHIA O. FERMO
President

2. Monumenting/marking of corners

- 2.1 Steel (GI pipe 2" diameter) orange-colored posts 150cm tall with reinforced concrete at the base (30cm) shall be installed on all corners of the grid inside the project area. Corner points shall be UTM-fed and coordinates supplied by GPS.
- 2.2 The monument shall be marked with northing and easting values (in meters).

3. Procurement and/or Production of Seedlings

- 3.1 Seedlings shall be potted, healthy, vigorous and free from pests and diseases.
- 3.2 Seedlings shall have a minimum height of 0.40 meters and a maximum height of 0.80 meters from the root collar. (same size category shall be planted together in the field to avoid intra-specific competition)
- 3.3 Procured/produced seedlings from other location shall be delivered at the project site at least one (1) month before outplanting to acclimatize with the local site condition.
- 3.4 The species and quantity of seedlings required are included in Annex "A" (Project Profile).
- 3.5 Procured/produced seedlings shall be placed in a temporary nursery shed near the planting site to minimize damage or mortality with enough space (approximately 30 square meters per hectare or service area) and water supply.

4. Plantation Establishment and Operation

4.1 Site preparation

- 4.1.1 Site preparation prior to outplanting shall be a combination of either strip brushing, ring weeding/spot clearing or any other method/strategy depending on species suitability.
- 4.1.2 If using strip brushing method, planting strips measuring at least 1 meter wide along the contour shall be cultivated, followed by removal/exposure of roots and rhizomes, leaving approximately 2 meter wide uncultivated strips between the cultivated strips.
- 4.1.3 Number of planting strips depends on the configuration of the plantation site (Annex "B" – Planting Layout/Design).
- 4.1.4 If using ring weeding, approximately 50-cm. radius around the seedling shall be cultivated, uproot all roots and rhizomes and loosen the soil.

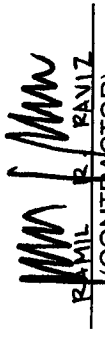
Contract between NPC and Capalonga Mangrove Development Association, Inc.
Supply of Labor and Materials for the Stabilization of River Banks for
8000 lm at Barangay San Bernardo, Tiwi, Albay
Contract No. LOG MSSP 2020-11-079-GRJ

BY:


REME B. BARRUELA
Vice President, CAG

SIGNED IN THE PRESENCE OF:


EMMANUEL A. UMALI
Department Manager, WMD
(NPC)


RAMIL R. RAVIZ
(CONTRACTOR)
GENERAL MANAGER

BY:


CYNTHIA O. FERMO
President

4.2 **Staking**

- 4.2.1 Staking at prescribed spacing should be done.
- 4.2.2 Stakes should be at least 1 meter in height so it can be easily located during hole digging and planting.
- 4.2.3 Locally available materials can be used as stakes, provided the gathering and collection shall be approved and supervised by a representative of concerned WAT.

4.3 **Hole digging**

- 4.3.1 For all plastic bag size, a clearance of 2 inches around the seedlings should be considered in determining the hole size to fit the seedlings into the hole.
- 4.3.2 The hole depth depends on the size of the bag. It should have a clearance of 2 inches around the pot and 3 inches from the base to determine the hole depth.

4.4 **Seedling transport**

- 4.4.1 Seedlings should be carefully transported to the planting site from the nursery.
- 4.4.2 To avoid damage/injury during transport, use containers such as sacks, baskets (kaing), wooden boxes etc.
- 4.4.3 Prior to seedling transport, seedlings may not be watered for more firm attachment of roots to the soil.

4.5 **Planting**

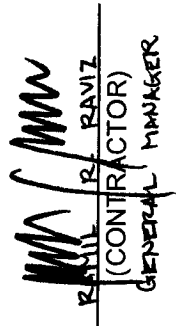
- 4.5.1 Planting should start **at the onset of the rainy season** (usually after one or two heavy rains) using the attached planting design/layout. For potted seedlings, be sure to remove the plastic container (polyethylene bags) and avoid breaking the earthball.
- 4.5.2 Put the removed plastic bags on top of the stakes to serve as a location marker and evidence that the plastic bag was removed. (However, after inspection, the Contractor shall collect the plastic bags for proper disposal).
- 4.5.3 When putting the seedling into the planting hole, the upper part of the earthball must be slightly lower than the edge of the hole. Soil is filled into the spaces (putting the topsoil first), then tamped firmly all around to prevent from inclining.

Contract between NPC and Capalonga Mangrove Development Association, Inc.
Supply of Labor and Materials for the Stabilization of River Banks for
8000 lm at Barangay San Bernardo, Tiwi, Albay
Contract No. LOG MSSP 2020-11-079-GRJ

BY:


RENE B. BARRUELA
Vice President, CAG

SIGNED IN THE PRESENCE OF:


R. RAVI
(CONTRACTOR)
GENERAL MANAGER


EMMANUEL A. UMALI
Department Manager, WMD
(NPC)

BY:


CYNTHIA O. FERMO
President

5. Plantation Maintenance

5.1 Ring weeding / spot cultivation, mulching and fertilizer application

- 5.1.1 Ring weeding and spot cultivation is approximately 50-cm radius around the seedling, uproot all roots and rhizomes and loosen the soil.
- 5.1.2 Mulch is approximately 50-cm radius around the seedling; mulch thickness about 10-cm; remove mulch prior to ring weeding then replace after each ring weeding.
- 5.1.3 Ring weeding and fertilizer application frequency is as follows:

Year	Schedule
1	3 passes (1, 2 & 3 months after planting) for ring weeding and 2 passes for fertilizer application (1 and 3 months after planting)
2	3 passes (quarter 1, 3 & 4) for ring weeding and 2 passes for fertilizer application (quarter 1 & 3)
3	3 passes (quarter 1, 3 & 4) for ring weeding and 2 passes for fertilizer application (quarter 1 & 3)

5.2 Replanting and fertilizer application

- 5.2.1 Replanting is required if survival rate is less than 80%.
- 5.2.2 Inventory should be done one month after outplanting to determine the survival rate, then replanting should be done
- 5.2.3 Any additional replanting should be done during the next planting season.
- 5.2.4 To determine the survival rate, a 10 percent random sampling using the strip method will be done during the following dates:
 - 5.2.4.1 about one month after planting; and
 - 5.2.4.2 at the end of the rainy season during year 1;

Contract between NPC and Capalonga Mangrove Development Association, Inc.
Supply of Labor and Materials for the Stabilization of River Banks for
8000 Im at Barangay San Bernardo, Tiwi, Albay
Contract No. LOG MSSP 2020-11-079-GRJ