



NATIONAL POWER CORPORATION

**MinGen**

**PHILIPPINE BIDDING DOCUMENTS**  
(Procurement of INFRASTRUCTURE PROJECTS)

FOR  
SLOPE PROTECTION AND DRAINAGE  
SYSTEM AT AGUS 7 SPILLWAY

P.R. No.: MG-A7T22-015

Contracts Management Office  
Logistics Division

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# ***Glossary of Terms, Abbreviations, and Acronyms***

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**Contractor** – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

**Foreign-funded Procurement or Foreign-Assisted Project** –Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**GFI** – Government Financial Institution.

**GOCC** –Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.

## ***Section I. Invitation to Bid***



NATIONAL POWER CORPORATION

**MinGen**

## **Invitation to Bid for *Slope Protection and Drainage System* at Agus 7 Spillway**

The *NATIONAL POWER CORPORATION-MINDANAO GENERATION*, through the approved Corporate Budget of NPC for CY 2022 intends to apply the sum of *Nine Million Eight Hundred Thousand Pesos (PHP9,800,000.00)* being the Approved Budget for the Contract (ABC) to payments under the contract for *Slope Protection and Drainage System at Agus 7 Spillway Fuentes, Iligan City (INFRA2022-AG7-011)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

1. The *NATIONAL POWER CORPORATION-MINDANAO GENERATION* now invites bids for the above Procurement Project. Completion of the Works is required *Eighty (80) calendar days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
2. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
3. Interested bidders may obtain further information from *BAC Secretariat, NATIONAL POWER CORPORATION-MINDANAO GENERATION* and inspect the Bidding Documents at the address given below from *8:00 AM – 5:00 PM Monday to Friday*.
4. A complete set of Bidding Documents may be acquired by interested Bidders on *August 3 - 23, 2022* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Ten Thousand Pesos (PHP 10,000.00)*. The Procuring Entity shall allow the bidder to pay online and present its proof of payment for the fees *in person, by facsimile, or through electronic means*. For those prospective bidders who wish to pay online, below are the details of the account:

Landbank Account name : NPC GENCO 5 COLLECTIONS FUND  
Landbank Account number : 0321-1689-14

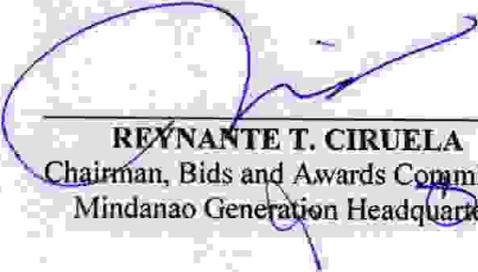
It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) provided that Bidders shall

- pay the applicable fee for the Bidding Documents not later than the submission of their bids.
5. The *NATIONAL POWER CORPORATION–MINDANAO GENERATION* will hold a Pre-Bid Conference on *August 11, 2022 at 9:00 AM* at *Bidding Room, NPC-Mindanao Generation Headquarters, Maria Cristina, Iligan City* and/or through videoconferencing/webcasting *via ZOOM*, which shall be open to prospective bidders. Interested online attendees are required to pre-register one (1) day before the scheduled pre-bidding conference. For pre-registration, contact tel. no. (063)-222-3459 or email [logistics\\_afd\\_mingen@napocor.gov.ph](mailto:logistics_afd_mingen@napocor.gov.ph).
  6. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before *August 23, 2022 at 9:30 AM*. Late bids shall not be accepted.
  7. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.
  8. Bid opening shall be on *August 23, 2022 at 9:30 AM* at the *Bidding Room, NPC-Mindanao Generation Headquarters, Maria Cristina, Iligan City*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
  9. *This project requires submission of at least:*
    - *Certificate of Site Inspection*
  10. The *NATIONAL POWER CORPORATION– MINDANAO GENERATION* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
  11. For further information, please refer to:

***BAC Secretariat***  
*Contracts Management Office*  
*Logistics Division*  
*Mindanao Generation Headquarters*  
*National Power Corporation*  
*Maria Cristina, Iligan City*  
*logistics\_afd\_mingen@napocor.gov.ph*  
*Tel. No.: (063)222-3459*  
*Fax No.: (063)223-8355/(063)223-4604*  
*www.napocor.gov.ph*

12. You may visit the following websites:

For downloading of Bidding Documents: <https://www.philgeps.gov.ph/> or  
<https://www.napocor.gov.ph/BCSD/bids.php>



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**REYNANTE T. CIRUELA**  
Chairman, Bids and Awards Committee  
Mindanao Generation Headquarters

**Date of PhilGEPS Publication: *03 August 2022***

**LIST OF PRIVATE SURETY COMPANIES ACCEPTABLE TO NPC  
AS OF 11 NOVEMBER 2018**

	<b>Name of Surety Company</b>	<b>Contact No.</b>
1	<b>ALPHA INSURANCE &amp; SURETY CO., INC.</b> Alpha Insurance Centre 1025 San Marcelino St., Ermita, Manila	<b>525-1301</b> <b>F - 522-6131</b>
2	<b>COMMONWEALTH INSURANCE COMPANY</b> 10/12F, BDO Plaza, 8737 Paseo de Roxas Makati City	<b>818-7628 loc 1253</b> <b>813-2685</b>
3	<b>COUNTRY BANKERS INSURANCE CORPORATION</b> Country Bankers Centre, 648 T. M. Kalaw Avenue Ermita, Manila	<b>524-0621 to 23</b>
4	<b>INTRA STRATA ASSURANCE CORP.</b> 8th Floor, 88 Corporate Center Building Sedeño cor. Valero St., Salcedo Vill, Makati City	<b>817-3031 to 34</b>
5	<b>LIBERTY INSURANCE CORPORATION</b> JCS Building, 119 Dela Rosa cor. Carlos Palanca Sts. Legaspi Village, Makati City	<b>819-1861 to 66</b>
6	<b>PACIFIC UNION INSURANCE COMPANY</b> Unit 2401 Antel Corporate Center 121 Valero St. Salcedo Village, Makati City	<b>845-1033 to 37</b>
7	<b>PRUDENTIAL GUARANTEE &amp; ASSURANCE, INC.</b> Coyuito House, 119 Palanca St. Legaspi Village, Makati City	<b>810-4916 to 35</b>
8	<b>STERLING INSURANCE COMPANY, INC.</b> 8F Zeta Annex II Building 191 Salcedo St., Legaspi Village, Makati City	<b>759-3082/759-2930/</b> <b>759-2921/</b> <b>892-3792</b>
9	<b>THE MERCANTILE INSURANCE CO. LTD.</b> Mercantile Insurance Building Corner General Luna & Beaterio Sts. Intramuros, Manila	<b>527-7701 to 20</b>
10	<b>TRAVELLERS INSURANCE SURETY CORPORATION</b> 10 <sup>th</sup> Floor, G. E. Antonio Building T.M. Kalaw corner J. Bocobo St., Ermita, Manila	<b>521-3822/400-9327</b>
11	<b>WESTERN GUARANTEE CORPORATION</b> Suite 508 BPI Office Condominium Plaza Cervantes, Binondo, Manila	<b>241-7401/242-1073</b>

**Note: Indicate in the performance, advance payment, retention and guarantee bond the following NPC Standard Terms & Conditions:**

- 1) The bond is a penal bond, callable on demand and the entire amount thereof shall be forfeited in favor of the Obligee upon default of the Principal without the need to prove or to show grounds or reasons for demand for the sum specified therein;
- 2) The amount claimed by the Obligee under this bond shall be paid in full and shall never be subject to any adjustment by the Surety;
- 3) In case of claim, the Surety shall pay such claim within sixty (60) days from receipt by the Surety of the Obligee's notice of claim/demand letter notwithstanding any objection thereto by the Principal.

4) *The proposed bond is valid until the issuance of NPC of the Cert. of Final Acceptance.*

## ***Section II. Instructions to Bidders***

## 1. Scope of Bid

The Procuring Entity, **NATIONAL POWER CORPORATION-MINDANAO GENERATION** invites Bids for the **SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY FUENTES, ILIGAN CITY, with Project Identification Number INFRA2022-AG7-011.**

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

## 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for CY 2022 in the amount of *Nine Million Eight Hundred Thousand Pesos (PHP9,800,000.00)*
- 2.2. The source of funding is:
  - a. GOCC and GFIs, the proposed Corporate Operating Budget.

## 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

#### **4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices**

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

#### **5. Eligible Bidders**

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

#### **6. Origin of Associated Goods**

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

#### **7. Subcontracts**

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address **and/or through videoconferencing/webcasting** as indicated in paragraph 6 of the **IB**.

## 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## 10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

## 11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents.**
- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## 12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

## 13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

## 14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in:*
  - a. Philippine Pesos,

## 15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

- 15.2. The Bid and bid security shall be valid until *One Hundred Twenty (120) Calendar Days from the Scheduled Bid Opening*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## **16. Sealing and Marking of Bids**

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## **17. Deadline for Submission of Bids**

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

## **18. Opening and Preliminary Examination of Bids**

- 18.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

## **20. Post Qualification**

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

## **21. Signing of the Contract**

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

### ***Section III. Bid Data Sheet***

## Bid Data Sheet

ITB Clause																	
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <b>Construction of Embankment, Flood and Slope Protection Structures</b>																
7.1	Subcontracting is not allowed.																
10.3	None																
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Key Personnel</u></th> <th style="text-align: left;"><u>General Expertise</u></th> <th style="text-align: left;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td>1 - Project Engineer</td> <td>Licensed Civil Engineer</td> <td>At least five (5) years experience in related works</td> </tr> <tr> <td rowspan="3">1 - Construction Foreman</td> <td>B.S. Civil Engineering Graduate</td> <td>At least three (3) years experience in similar works</td> </tr> <tr> <td>Civil Engineering Technology Graduate</td> <td>At least five (5) years experience in similar works</td> </tr> <tr> <td>Non-graduate</td> <td>At least five (5) years working experience as Construction Foreman in similar works</td> </tr> <tr> <td>1 - Construction Safety and Health Officer (SO2)</td> <td>Construction Safety Officer 2</td> <td>At least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project) welding/cutting works</td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Expertise</u>	<u>Relevant Experience</u>	1 - Project Engineer	Licensed Civil Engineer	At least five (5) years experience in related works	1 - Construction Foreman	B.S. Civil Engineering Graduate	At least three (3) years experience in similar works	Civil Engineering Technology Graduate	At least five (5) years experience in similar works	Non-graduate	At least five (5) years working experience as Construction Foreman in similar works	1 - Construction Safety and Health Officer (SO2)	Construction Safety Officer 2	At least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project) welding/cutting works
<u>Key Personnel</u>	<u>General Expertise</u>	<u>Relevant Experience</u>															
1 - Project Engineer	Licensed Civil Engineer	At least five (5) years experience in related works															
1 - Construction Foreman	B.S. Civil Engineering Graduate	At least three (3) years experience in similar works															
	Civil Engineering Technology Graduate	At least five (5) years experience in similar works															
	Non-graduate	At least five (5) years working experience as Construction Foreman in similar works															
1 - Construction Safety and Health Officer (SO2)	Construction Safety Officer 2	At least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project) welding/cutting works															

	<p>(1) Valid Professional Regulation Commission (PRC) license for professional personnel; (2) Certificate of Training with accreditation from DOLE for the Construction Safety &amp; Health Officer; (3) TESDA Training Certificate (NC II) of Welders, Electricians, Plumbers and etc. (if applicable) and (4) Diploma and/or Service Record/Certificate of Employment of previous and/or current employer for Project Engineer, Safety Officer, Construction Foreman, Welders, Electricians &amp; Plumbers, etc. (if applicable). to support their years of work experiences shall be submitted and included as an attachment in <b>Standard Form NPCMGNSF-INFR-05: List of Key Personnel Proposed to be Assigned to the Contract.</b></p> <p>Project Engineer or Foreman and Construction Safety &amp; Health Officer maybe one person, as long as he meets the requirements of the two positions. Provided however, that there is no overlapping of projects undertaken by the same contractor and supervised by the same person.</p> <p>The above key personnel must be either employed by the applicant or contracted by the applicant to be employed for the contract to be bid.</p>																											
<p>10.5</p>	<p>The minimum required equipment requirements are the following:</p> <table border="1" data-bbox="443 1099 1316 1417"> <thead> <tr> <th><u>Equipment</u></th> <th><u>Capacity</u></th> <th><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td>Backhoe w/ Breaker</td> <td>0.80 cu.m.</td> <td>One (1)</td> </tr> <tr> <td>Payloader</td> <td>1.50 cu.m.</td> <td>One (1)</td> </tr> <tr> <td>Dump Truck</td> <td>9.0 cu.m.</td> <td>One (1)</td> </tr> <tr> <td>Concrete Mixer</td> <td>1-bagger</td> <td>Two (2)</td> </tr> <tr> <td>Concrete Vibrator</td> <td>2.0 HP</td> <td>Two (2)</td> </tr> <tr> <td>Chainsaw</td> <td>2400W</td> <td>One (1)</td> </tr> <tr> <td>Demolition Hammer</td> <td>2400W</td> <td>One (1)</td> </tr> <tr> <td>Plate Compactor</td> <td>5 HP</td> <td>One (1)</td> </tr> </tbody> </table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	Backhoe w/ Breaker	0.80 cu.m.	One (1)	Payloader	1.50 cu.m.	One (1)	Dump Truck	9.0 cu.m.	One (1)	Concrete Mixer	1-bagger	Two (2)	Concrete Vibrator	2.0 HP	Two (2)	Chainsaw	2400W	One (1)	Demolition Hammer	2400W	One (1)	Plate Compactor	5 HP	One (1)
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<p>12</p>	<p>N/A</p>																											
<p>15.1</p>	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> <li>The amount of not less than <b>PHP196,000.00(2% of ABC)</b>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>The amount of not less than <b>PHP490,000.00(5% of ABC)</b>, if bid security is in Surety Bond.</li> </ol>																											

19.2	Partial bids are allowed, as follows:
20	<p>Additional documents to be submitted during Post-Qualification:</p> <ol style="list-style-type: none"> <li>1. Other appropriate licenses and permits required by law and stated in the Bidding documents.             <ol style="list-style-type: none"> <li>a. <i>Original Bank Statement year ending prior to bid opening;</i></li> <li>b. <i>Valid and updated PhilGEPS Registration (Platinum Membership) (all pages);</i></li> <li>c. <i>Registration Certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;</i></li> <li>d. <i>Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;</i></li> <li>e. <i>Valid Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR). Quarterly Income Tax Returns filed and paid through the BIR Electronic Filing and Payment System (eFPS);</i></li> <li>f. <i>The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission;</i></li> <li>g. <i>Philippine Contractors Accreditation Board (PCAB) License;</i></li> <li>h. <i>Board of Accountancy (BOA) Certificate;</i></li> </ol> </li> <li>2. <i>Contract and/or Notice of Award as supporting documents for NPC MinGen Form No. NPCMGNSF-INFRA-01, if applicable;</i></li> <li>3. <i>(a) Valid Professional Regulation Commission (PRC) license for professional personnel; (b) Certificate of Training with accreditation from DOLE for the Construction Safety &amp; Health Officer; (c) TESDA Training Certificate (NC II) of Welders or Electrician; and (d) Diploma and/or Service Record/Certificate of Employment of previous and/or current employer for Construction Foreman, Welders, Electrician &amp; Plumber - as supporting documents for NPC MinGen Form No. NPCMGNSF-INFRA-05, if applicable.</i></li> <li>4. <i>Certificate of Site Inspection issued by Plant/Department Manager or his authorized representative.</i></li> </ol>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, <u>prior to contract signing</u>, such as:</p> <ol style="list-style-type: none"> <li>a) Approved construction schedule and S-curve</li> <li>b) Approved manpower schedule</li> <li>c) Construction methods</li> </ol>

	<ul style="list-style-type: none"><li>d) Approved equipment utilization schedule</li><li>e) Construction safety and health program approved by the DOLE</li><li>f) Approved Project Evaluation Review Technique/Critical Path Method (PERT/CPM)</li></ul>
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## ***Section IV. General Conditions of Contract***

## 1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

## 2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

## 3. Possession of Site

- 4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- 4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

## 4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB Clause 10.3** and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

## **5. Performance Security**

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

## **6. Site Investigation Reports**

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

## **7. Warranty**

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

## **8. Liability of the Contractor**

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## 9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in ITB Clause 4.

## 10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

## 11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

## 12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

## 13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the

SCC, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

#### **14. Progress Payments**

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

#### **15. Operating and Maintenance Manuals**

- 15.1. If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the SCC.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

## ***Section V. Special Conditions of Contract***

## Special Conditions of Contract

GCC Clause	
2	<b>Sectional completion is not specified.</b>
4.1	The <b>Procuring Entity</b> shall give possession of the Site to the Contractor <i>on the start date.</i>
6	The site investigation reports are: <b>NONE</b>
7.2	<b>Fifteen (15) years</b>
10	Dayworks are not applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative <b>upon contract signing</b> or within <b>three (3)</b> days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <b>Fifty (50) %</b> of the billed amount. The updating of Program of Work shall be done bi-monthly.
13	The amount of the advance payment is <b>15% of contract amount and paid in lump sum.</b>
14	No further instruction.
15.1	The date by which operating and maintenance manuals are required is <b>upon completion of the project.</b>  The date by which "as built" drawings are required is <b>upon completion of the project.</b>
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <b>one hundred percent (100%) of the final billing.</b>

***Section VI. Specifications***

Q A b

## PROJECT HIGHLIGHTS

### PH-1.0 GENERAL

The Slope Protection and Drainage System at Agus 7 Spillway is essential to protect and prevent soil erosion and boulder of stones from cliff beside existing road.

### PH-2.0 LOCATION

The project is located at Agus 7 HEP Complex, Fuentes, Maria Cristina, Iligan City.

### PH-3.0 SCOPE OF WORK

The major activities shall include but not limited to the following:

#### Part I. Mobilization

#### Part II. General Requirements

- a. Occupational Safety and Health Program

#### Part III. Earthworks

- a. Site Clearing, Grubbing (Cutting of Vegetation, Trees and Uneven Terrain) and Hauling of Materials
- b. Clearing/Removal and Transferring of Rocks and Soil along Agus 7 Access Road, Open Lined Drainage Canal and Existing Soil Inside Culvert to designated area
- c. Removal of Damaged Structure, Existing Canal, Obstruction and Disposal
- d. Rock Excavation and Common Excavation Works for Proposed Slope Protection and Open Lined Canal
- e. Embankment from Excavation, Backfill, Gravel Fill and Compaction

#### Part IV. Fully-Grouted Hand-Laid Rock Riprap Slope Protection

- a. Piling of Boulders, Grouting and Plastering

#### Part V. Fully-Grouted Hand-Laid Rock Riprap Open Line Canal Drainage System

- a. Piling of Boulders, Grouting and Plastering

#### Part VI. Installation of Reinforced Concrete Wing-Headwall for Culvert and Concrete Edge Barrier

#### Part VII. Clean-Up Works and Demobilization

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**PH-4.0 CONTRACT PERIOD**

The work duration of the entire project is Eighty (80) Calendar Days reckoned from receipt of the Notice to Proceed.

The total contract period is inclusive of five (5) rainy/unworkable days considered unfavourable for the execution of works at site. The contract period shall be reckoned from the date of contract effectively as specified in the Notice to Proceed.

**PH-5.0 CONTRACTOR'S CLASSIFICATION**

The contractor must have a valid Philippine Contractor's Accreditation Board (PCAB) license of at least **Category C or D – General Engineering** with inter-agency registration of at least **Small B – Irrigation of Flood Control**.

**TECHNICAL SPECIFICATIONS**



In accordance with the specifications provided in the plans, the contractor shall furnish all materials, labor, tools, equipment and other incidentals, and shall undertake the complete at Agus 7 HEP, Brgy. Ma. Cristina, Fuentes, Iligan City.

All materials to be used shall conform to applicable standard. If upon visual inspection the materials appear to be of poor quality or fail to meet the standard, the NPC inspector has the authority to reject the same out rightly.

The Contractor shall perform all activities necessary for the completion of the project satisfactory to NPC and in accordance with the approved plans and these specifications.

### **Scope**

This section covers the construction and/or maintenance of access roads, drainage system and other appurtenant structures, moving-in of the Contractor's construction equipment, setting up of the Contractor's camp and the disposition of the Contractor's various facilities at the end of the Contract.

### **Moving-in**

The contractor shall bring to the site all his necessary construction equipment and plant and install all stationary construction equipment and plant at location and in the manner approved by the NPC. The Contractor shall submit sufficient detailed plans showing the proposed location of such stationary equipment and plant and other pertinent data. No installation of such stationary equipment shall be undertaken unless the corresponding plans have been approved by the NPC.

### **Contractor's Camp Facilities**

The Contractor shall provide and grade his camp site, construct his camp, employee housing, warehouse, machine and repair shops, fuel storage tanks and provide such related facilities and sanitary conveniences that the Contractor deems necessary for maintaining health, peace and order in the camp and work areas. The areas that may be used by the Contractor within the plant site shall be designated by the NPC.

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The Contractor shall provide, maintain and operate, under competent direction, such camps and facilities as are necessary for the housing, feeding and accommodation of his employees.

#### **Water Supply**

The Contractor shall, at his own expense, be responsible for the supply, installation, operation and maintenance of a safe and adequate supply of drinking and domestic water.

#### **Sewerage Disposal and Sanitation**

The Contractor shall, at his own expense, be responsible for the installation, operation and maintenance of an adequate sewerage disposal and sanitation system and shall provide adequate toilet and wash-up facilities for his employees at his camp and in the areas where work is being carried out.

The Contractor shall execute the work with due regard to adequate sanitary provisions and applicable codes and shall take all necessary steps to prevent the pollution of water in any spring, river, or other sources of water supply. All toilets or wash-up facilities shall be subject to the prior and continuing approval of the NPC.

#### **Fire Protection**

The Contractor shall observe all necessary precautions against fire, shall provide and maintain at his own expense, portable fire-fighting equipment he may deem necessary, and shall comply with all applicable laws of the Philippines relating thereto.

In the event of an uncontrollable fire occurring in the area of the Contractor's operation, the Contractor shall have to extinguish the fire immediately at his own expense, to the full extent of the manpower and equipment employed under the contract at the time of the fire.

The Contractor shall indemnify NPC against all liabilities, claims, damages and/or lawsuits arising thereto.

#### **Construction Power**

The Construction shall be responsible for providing his own electric power supply required for construction and erection/installation. If power is available from NPC and should the Contractor elect to utilize the NPC's power supply, he shall make an arrangement with NPC concerned group as to the billing rates and other requirements needed for direct connection to NPC.

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**Camp Security**

The Contractor shall provide his own security force to the extent that he deems necessary for maintaining peace and order in the camp and work areas and to safeguard materials and equipment. Nothing under the provisions of this paragraph shall relieve the Contractor from full responsibility for the maintenance of peace and order and protection of life and property in all areas where he operates.

**Construction Material Storage**

The Contractor is required to put up warehouse(s) with capacities sufficient to store the construction materials required in the work. The warehouse(s) shall be specifically for this contract, notwithstanding his other facilities in the site that may serve the purpose.

**Removal of Camp and Construction Facilities**

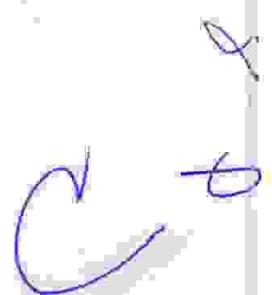
After the completion of the work covered by the contract and prior to acceptance of the completed work, the entire camp facilities of the Contractor, including its water supply system, electric distribution system, quarters, warehouses, shops, dining halls, commissaries, temporary shed and other facilities therein shall be removed by the Contractor. The site shall be cleared and cleaned as directed by the NPC.

**MEASUREMENT AND PAYMENT**

No separate measurement and payment will be made for the Contractor's Construction Facilities. The entire cost thereof shall be included in the various pay items in the Bill of Quantities.

**CARE OF WATER DURING CONSTRUCTION****Scope**

In accordance with the specifications contained in this section or otherwise directed, the Contractor shall construct and maintain all necessary temporary drainage ditches and other temporary protective works and he shall also furnish, install, maintain and operate necessary pumping equipment and other devices to protect construction operation free from water coming from any source, including rain.



**Drainage and Dewatering**

The Contractor shall be responsible for dewatering foundation areas so that work can be carried out on a suitably dry condition. The Contractor shall construct drainage ditches, holes, culverts, furnish, maintain and operate at his own expense all necessary pumps and other dewatering devices to keep all work area free from water.

After the work is completed and before it is accepted by the NPC, the Contractor shall remove all pumping equipment and shall remove, fill or plug all temporary drainage structures as directed, all at his expense.

**MEASUREMENT AND PAYMENT**

No separate measurement and payment will be made for the Care of Water during Construction operations. The cost of furnishing, constructing, maintaining, operating and removing of temporary drainage structure, pumping system and other dewatering devices necessary to keep construction operations free from water, shall be included in the various pay items in the Bill of Quantities for structures where such care of water is required.

**TS - 01 ENVIRONMENTAL AND CONSTRUCTION SAFETY AND HEALTH PROGRAM****Scope**

This Section pertains to the environmental and safety provisions, requirements and conditions that shall govern during the execution of all civil works under this project.

**General Conditions**

The Contractor shall ensure compliance with the applicable environmental and safety regulations, as well as ECC conditions, during installation/construction of this project through the implementation of measures that include, but not limited to the following:

- a. Designate a Safety Officer and a Pollution Control Officer who shall respectively handle all safety and environmental concerns of the project.

- b. Prepare and submit Construction Safety Health Plan (CSHP)
- c. Properly manage debris and various waste generated during installation/construction, such as the following:
  - Dispose of demolition and construction debris in a designated or NPC approved disposal area(s);
  - Stockpile (and cover if possible) or haul to the designated and/or pre developed dump sites (spoil disposal areas) that shall be provided with suitable drainage-equipped with sediments traps, stripped top soil, spoils from quarry/borrow sites and excavated materials;
  - Segregate solid wastes, such as empty cement sacks, scraps of tin or wood, used wires and other domestic garbage, for recycling or storage in NPC-approved temporary storage areas and further disposal to LGU-designated disposal sites
  - Properly handle, store and dispose off, through DENR-accredited transporter/treater, hazardous wastes i.e. used oils, paints, thinner. Etc.
- d. Limit construction activities that generate excessive noise to daytime works only to prevent nuisance to nearby residents during rest hours.
- e. As far as practicable, undertake site stripping, grading and excavation during dry weather.
- f. Construction/Installation shall be carried-out in a manner where landslides and erosions are minimized.
- g. Avoid unnecessary opening/clearing of areas outside construction sites or destruction of vegetable cover, especially cutting of existing trees; and to revegetate disturbed areas.
- h. Spray water, whenever and wherever necessary, to minimize dust generation.
- i. Provide PPE's and other safety provisions required by DOLE, for its project/site works.

**MEASUREMENT AND PAYMENT**

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Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

## TS - 02 EARTHWORKS

### a. Site Clearing, Grubbing (Cutting Of Vegetation, Trees And Uneven Terrain) And Hauling Of Materials

All surface objects and all trees, stumps, roots and other protruding obstructions, not designated to remain, shall be cleared and/or grubbed, including mowed as required, except as provided below:

1. Removal of undisturbed stumps and roots and nonperishable solid objects with a minimum depth of 1 meter below subgrade or slope of embankment will not be permitted.
2. In areas outside of the grading limits of cut and embankment areas, stumps and nonperishable solid objects shall be cut not more than 150 mm above the ground line or low water level.
3. Grubbing of pits, channel changes and ditches will be required only to the depth necessitated by the proposed excavation within such areas.

Except in areas to be excavated, stump holes and other holes from which obstructions are removed shall be backfilled with suitable material and compacted to the required density.

In areas where hand clearing as directed by NPC Engineer or Representative, no requirement of wheels or trucks shall be used. Care shall be taken to ensure that the grass, moss cover, or the natural ground is not disturbed. The materials shall be properly disposed. Materials and debris maybe disposed of by the methods and at locations approved by NPC Engineer or Representative, on or off the project. If disposal is by burying, the debris shall be placed in layers with the material so disturbed to avoid nesting. Each layer shall be covered or mixed with earth material by the land-fill method to fill all voids. The top layer of material buried shall be covered with at least 300mm of earth or other approved material and shall be graded, shaped and compacted to present a pleasing appearance. If the disposal location is off the project, the Contractor shall make all necessary arrangements with property owners in writing for obtaining suitable disposal locations which are outside the limits of view from the project. The cost involved shall be included in the unit bid price. A copy of such agreement shall be furnished to NPC Engineer or

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Representative. The disposal areas shall be seeded, fertilized and mulched at the Contractor's expense.

Woody material may be disposed of by chipping. The wood chips may be used for mulch, slope erosion control or may be uniformly spread over selected areas as directed by NPC Engineer or Representative. Wood chips used as mulch for slope erosion control shall have a maximum thickness of 12 mm and faces not exceeding 3,900 mm<sup>2</sup> on any individual surface area. Wood chips not designated for use under other sections shall be spread over the designated areas in layers not to exceed 75mm loose thickness. Diseased trees shall be buried or disposed of as directed by NPC Engineer or Representative. Timber cut inside the area staked for clearing shall be felled within the area to be cleared.

#### **MEASUREMENT AND PAYMENT**

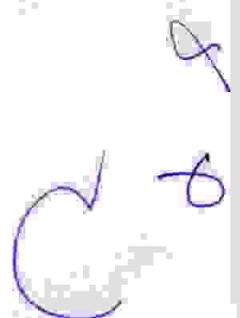
Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

#### **b. Clearing/Removal and Transferring of Rocks and Soil along Agus 7 Access Road, Open Lined Drainage Canal and Existing Soil Inside Culvert to designated area**

##### **Description**

This Item shall consist of the removal wholly or in part, and satisfactory disposal of rocks and Soil along Agus 7 Access Road, Open Lined Drainage Canal and Existing Soil inside Culvert which are not designated or permitted to remain at the site. Disposal Works of this Pay Item shall be placed to a designated area at MCCI or to End-User preferable site.

Selected Big Boulders and Soil found at Landslide shall be used as Embankment for the proposed Slope Protection along the River Bank. Transportation for these Materials to designated site shall also be included in this Pay Item. Contractor is obliged to follow the scope of works and must cooperate to the End User Decision in providing the necessary equipment to dispose the said materials.



**MEASUREMENT AND PAYMENT**

Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

**c. Removal of Damaged Structure, Existing Canal, Obstruction and Disposal****Description**

This Item shall consist of the removal wholly or in part, and satisfactory disposal of (all buildings, fences, structures) old pavements/slabs (abandoned pipe lines) and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract. (It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes and pits).

**Construction Requirements****General**

The Contractor shall perform the work described above, within and adjacent to the construction site, on Government land or easement, as shown on the Plans or as directed by NPC Engineer. All designated salvable material shall be removed, without unnecessary damage, in sections or pieces which may be readily transported, and shall be stored by the Contractor at specified places on the project or as otherwise shown in the Special Provisions. Salvaged material which are damaged thru negligence shall be replaced or restored at the Contractor's expense. Waste material may be disposed of by the Contractor in NPC-owned sites as shown in the Special Provision or permitted by NPC Engineer. Otherwise, the Contractor shall arrange disposal of waste at no expense to NPC and shall be in accordance with the requirements for disposal site selection and hauling activity stipulated in the Contract. Perishable material shall be handled as designated in Clearing and Grubbing. Nonperishable material may be disposed of outside the limits of view from the project with written permission of NPC, the property owner on whose property the material is placed. Copies of all agreements with property owners are to be furnished to the Engineer. Basements or cavities left by the structure removal shall be filled with acceptable material to the level of the surrounding ground and, if within prism of construction, shall be compacted to the required density.

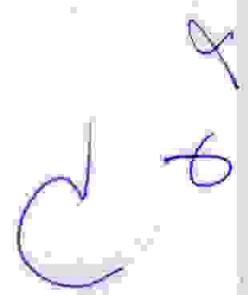
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All existing culverts and other drainage structures in use by traffic shall not be removed until satisfactory arrangements have been made to accommodate traffic. The removal of existing culverts within embankment areas will be required only as necessary for the installation of new structures. Abandoned culverts shall be broken down, crushed and sealed or plugged. All retrieved culvert for future use as determined by the Engineer shall be carefully removed and all precautions shall be employed to avoid breakage or structural damage to any of its part. All sections of structures removed which are not designated for stockpiling or re-laying shall become the property of NPC and be removed from the project or disposed of in a manner approved by NPC Engineer. Where such portions of existing structures lie wholly or in part within the limits for a new structure, they shall be removed as necessary to accommodate the construction of the proposed structure.

Structures designated to become the property of the Contractor shall be removed from the right-of-way. Blasting shall not be allowed, but other operations necessary for the removal of an existing structure or obstruction, which may damage new construction, shall be completed prior to placing the new work, unless otherwise provided in the Special Provisions. When removing manholes, catch basins or drop inlets, any functioning sewer lines connected to it shall be restored and properly connected. Satisfactory by-pass service shall be maintained during the construction operations.

Removal of portions of pavement, slabs, sidewalks, curbs, gutters, and similar structures shall be undertaken with sufficient care to avoid breakage or damage to the portion of the structures designated to remain. The portion of the structure shall be removed from an existing joint, or sawed and chipped to a true line with a vertical face. Before concrete removal begins, a saw cut, 19 mm deep when steel reinforcement is to remain and deeper when steel reinforcement is to be removed with concrete, shall be made into the surface of the concrete at the perimeter of the removal limits. Concrete shall be completely removed (exposing the deformed surface of the bar) from existing steel reinforcing bars which extend from the existing members and are specified to remain. Steel reinforcement that are to be removed shall be cut to a minimum of 25.4 mm behind the final surface, where void resulted to the removal thereof shall be filled with epoxy mortar and finished to a sound, smooth, uniform colored surface. The retained concrete surface at which fresh concrete surface will be placed shall be roughened, cleaned, and saturated. When a portion of existing concrete is removed without replacement, the concrete surface of the remaining portion shall be cleaned to a smooth surface of less than 1.6 mm profile. In case of damage to the remaining structure, it shall be repaired or replaced at the Contractor's expense. For structures with an asphalt wearing course, the wearing course shall be removed separately before removing the portion designated to be removed.

## MEASUREMENT AND PAYMENT



Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

**d. Rock Excavation and Common Excavation Works for Proposed Slope Protection and Open Lined Canal**

Rock excavation shall consist of excavation of igneous, sedimentary and metamorphic rocks matrixes with soil or sandy silt, and all boulders or other detached stones each having a volume of one cubic meter or more as determined by physical measurements or visually by the field engineer, which can be excavated using jackhammer, hydraulic excavator backhoe, or hydraulic vibratory breaker/hammer.

To protect workers from injuries and fatalities, preventive measures should be implemented when workers begin excavating. General Safety measures: inspect trenches daily before work begins; don't go near an unprotected trench; check weather conditions before work, be mindful of rain and storms; keep heavy equipment away from trench edges; be mindful of the location of utilities underground. Always wear proper protective equipment; don't work beneath raised loads. Planning and implementation of safety measures must be done by a competent person.

All excavation shall conformed to the line and grade. It shall be finished to reasonably smooth and uniform surfaces and no material shall be wasted without authority of the NPC Engineer. All excavation shall be in accordance with the standard engineering practice. The above mention project shall be furnish only with the approved drawing.

**MEASUREMENT AND PAYMENT**

Measurement and payment shall be made at the contract unit price or lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

**e. Embankment from Excavation, Backfill, Gravel Fill and Compaction**

All excavated materials, so far as suitable, shall be utilized as backfill or embankment. The surplus materials shall be disposed of in such manner as not to obstruct otherwise impair the efficiency or appearance of the structure.

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No excavated materials shall be deposited at any time so as to endanger the partly finished structure.

The excavation shall conform to the lines, grades, cross sections and dimensions shown on the Plans. NPC Engineer shall order the removal of any soft spots, debris or organic material exposed when excavated areas shall be trimmed cut to than even surface free of loose material and compact as specified by NPC Engineer to the density prescribed on the Plans

#### **Gravel Fill**

This Item shall consist of furnishing, placing and compacting an aggregate base course on a prepared subgrade/subbase in accordance with this Specification and the lines, grades, thickness and typical cross-sections shown on the Plans, or as established by NPC Engineer.

Aggregate for base course shall consist of hard, durable particles or fragments of crushed stone, crushed slag or crushed or natural gravel and filler of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable base.

#### **Backfill Materials**

This Item shall consist of placing Mixed Gravel, Sand and Soil and compacting for embankment of the proposed Slope Protection along the River Bank.

#### **MEASUREMENT AND PAYMENT**

Measurement and payment shall be made at the contract per lot price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

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**TS - 03 FULLY-GROUTED HAND-LAID ROCK RIPRAP SLOPE PROTECTION****a. Piling Of Boulders, Grouting And Plastering**

In accordance with the specifications contained in this section, the Contractor shall furnish all materials, labor, equipment and tools and perform all works from the construction of Fully-Grouted Hand Laid Rock Riprap and/or Stone Masonry, when required and as may be applicable in accordance with the drawings, or as otherwise directed/required by NPC.

**Materials****Boulders**

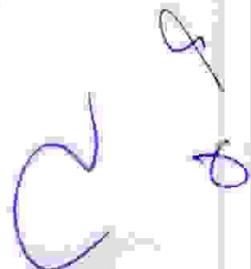
Some large boulders are scattered within the vicinity area which can be utilized, provided however, that these boulders are of no use. The Contractor shall furnished the remaining volume of large boulders needed for the completion of the works.

The Contractor shall supply and install sizes of 6" – 12" dia. and 12" – 20" dia. of boulders or as shown on the approved drawing. The Boulders shall be carefully picked and arranged so that adjacent rock surfaces match within the top elevation and along the vertical exposed face or channel side of rock.

Prior to placing the grout, any type of debris, fines, smaller rock, or silt shall be removed from around or under and on the boulders.

Grout Placement shall begin at the bottom of the lowest boulder and proceed upward to ensure no air voids exist between the grout, sub-base and boulders.

Grouted boulders shall be placed at the location as shown on the approved drawings.



### **Cobblestone**

Small boulders considered to be cobblestones are to be furnished and placed. Cobblestones shall consist hard, durable and selected stones free from seams, weathered parts, dirt or any other injurious material that may prevent the proper adhesion of the mortar. Minimum size shall be 10 centimeter id diameter or 0.0005 cubic meter. Stones placed beside the boulders shall be equal or less than the size in volume with the exception that smaller rocks maybe used for pinning and for filling the interstices or voids between them.

### **Mortar for Stone Masonry Works**

This part deals with the proportion, mixing and transportation of the mortars to be used for the grouted rip-rap and other relevant stone masonry works.

### **Materials**

1. Portland Cement – shall be furnished by the Contractor
2. Sand – Coarse and fine Sand shall consist of hard, tough, durable, uncoated particles acceptable to NPC. All foreign materials and dust shall be removed by processing.
3. Water – Water for mortar shall be free from oil, acid, alkali, vegetable matter or other deleterious substances and shall be reasonable clear and clean.

### **Proportioning**

The mortars shall be proportioned by volume as specified in the following table:

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Class of Mortar	Portland Cement	Hydrated Lime	Sand
A	1 PART	-	2 PARTS
B	1 PART	-	3 PARTS
C	1 PART	1/2 PART	3 PARTS
D	1 PART	1 1/2 PART	3 PARTS

The method of measuring materials for the mortar shall be such that the specified proportions of the mortar materials can be controlled and accurately maintained during the progress of the work.

The quantity of water shall be necessary one to obtain a satisfactory workability for the specific use of each mortar.

### Mixing

The mortar shall be mixed for a minimum of 2 minutes in a mechanically operated drum type mixer approved by NPC.

The mixer shall be rotated at the speed recommended by the manufacturers and the total quantity of materials mixed in any batch shall not exceed the rated capacity of the mixer.

The gauged amount of water shall be gradually introduced into the mixer, partly before the loading of the dry materials and partly immediately after the loading of the same has been completed.

The entire content of the drum shall be discharged before a new cycle of batching is started, and at all times, the inside of the drum shall be kept

free from build-up of materials. The mixer drum shall be thoroughly cleared-up prior to change of mix or on cessation of mixing.

Hand-mixing for small batches is permissible provided that the mortar is mixed up to the degree obtained with the mechanically operated mixer. If hand mixing of the mortar is permitted by NPC, the fine aggregates and cement shall be mixed dry in a tight box until the mixture assumes a uniform color, after which, water shall be added as the mixing continues.

### **Placing**

Stone shall be thoroughly wetted before placing and shall be laid by hand in full mortar beds, in courses approximately horizontal both in longitudinal and transverse directions. Stones will not be considered to be properly bedded until mortar exudes from the underside of the bedded stones. No voids in any part of the riprap will be permitted.

### **Transportation**

The equipment and the tools for transportation and for placing batched mortar shall ensure that contamination or loss of ingredients do not take place.

### **Weep holes**

Install three (3) rows of 3" diameter PVC Pipe S-1000 spaced at 1.50 meter center to center along the grouted riprap which will serve as weep holes.

### **End Protection Works**

Install 16mm dia. DSB Dowel for Revetment Riprap Connection Plastered with 150-200mm thk. Concrete.

## **MEASUREMENT AND PAYMENT**

Measurement and payment shall be made at the contract cubic meter (cu.m.) price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

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**TS - 04 FULLY-GROUTED HAND-LAID ROCK RIPRAP OPEN LINE CANAL DRAINAGE SYSTEM****a. Piling Of Boulders, Grouting And Plastering**

In accordance with the specifications contained in this section, the Contractor shall furnish all materials, labor, equipment and tools and perform all works for the construction of Fully-Grouted Hand Laid Rock Riprap and/or Stone Masonry, when required and as may be applicable in accordance with the drawings, or as otherwise directed/required by NPC.

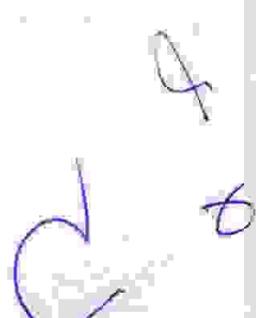
**Materials****Boulders**

Some large boulders are scattered within the vicinity area which can be utilized, provided however, that these boulders are of no use. The Contractor shall furnish the remaining volume of large boulders needed for the completion of the works.

The Contractor shall supply and install sizes of 6" – 12" dia. of boulders or as shown on the approved drawing. The Boulders shall be carefully picked and arranged so that adjacent rock surfaces match within the top elevation and along the vertical exposed face or channel side of rock.

Prior to placing the grout, any type of debris, fines, smaller rock, or silt shall be removed from around or under and on the boulders.

Grout Placement shall begin at the bottom of the lowest boulder and proceed upward to ensure no air voids exist between the grout, sub-base and boulders.



Grouted boulders shall be placed at the location as shown on the approved drawings.

### **Cobblestone**

Small boulders considered to be cobblestones are to be furnished and placed. Cobblestones shall consist hard, durable and selected stones free from seams, weathered parts, dirt or any other injurious material that may prevent the proper adhesion of the mortar. Minimum size shall be 10 centimeter id diameter ot 0.0005 cubic meter. Stones placed beside the boulders shall be equal or less than the size in volume with the exception that smaller rocks maybe used for pinning and for filling the interstices or voids between them.

### **Mortar for Stone Masonry Works**

This part deals with the proportion, mixing and transportation of the mortars to be used for the grouted rip-rap and other relevant stone masonry works.

### **Materials**

1. Portland Cement – shall be furnished by the Contractor
2. Sand – Coarse and fine Sand shall consist of hard, tough, durable, uncoated particles acceptable to NPC. All foreign materials and dust shall be removed by processing.
3. Water – Water for mortar shall be free from oil, acid, alkali, vegetable matter or other deleterious substances and shall be reasonable clear and clean.

### **MEASUREMENT AND PAYMENT**

Measurement and payment shall be made at the contract cubic meter (cu.m.) price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

**TS - 05 INSTALLATION OF REINFORCED CONCRETE WING-HEADWALL FOR  
 CULVERT AND CONCRETE EDGE BARRIER**

**GENERAL**

The work to be undertaken under this Section shall include all labor, materials, equipment, plant and other facilities and the satisfactory performance of all work necessary to complete all reinforced concrete work shown on the drawings and specified herein.

**MATERIALS**

**a) Cement**

Except as maybe otherwise provided in these specifications, cement shall conform to the "Specification for Portland Cement" (ASTM C 150 - Latest Revision) and shall be Type I

**b) Concrete Aggregates**

1.) Concrete aggregates shall be well graded, clean, hard particles of gravel or crushed rock conforming with the "Standard Specifications for Concrete Aggregates ( ASTM C - 33 Latest Revision).

2.) The maximum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between form and not larger than three fourth (3/4) of the minimum clear spacing between individual reinforcing bars or bundles of bars, and in no case larger 5.1 cm (2 in) in diameter except that larger diameter may be allowed in massive concreting with written permission from the Engineer.

**c) Water**

Water used in mixing concrete shall be clean and free from injuring amounts of oils, acids, alkali, organic materials or other substances that may be deleterious to concrete or steel.

**d) Reinforcing Steel**

All reinforcing steel bars used shall be new and free from rust, oil, defects, greases or kinks. They shall conform to the latest edition of ASTM "SPECIFICATIONS FOR DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT" Grade 40 as shown or latest equivalent Philippine Bureau of Standard Specifications. Deformed Steel Bars shall have the following unit weights:

SIZE (mm)	Kg/m	SIZE (mm)	Kg/m
6	0.222	20	2.466
8	0.395	25	3.854

10	0.616	28	4.833
12	0.888	32	6.313
16	1.579	36	7.991

**e) Admixture:**

To increase concrete workability and to control the set of concrete, the engineer can request that an admixture maybe added subject to his approval and it shall be borne by the Contractor.

Water – reducing admixtures, retarding admixtures, accelerating admixtures, water-reducing and retarding admixtures, and water reducing and accelerating admixtures shall conform to "Specification for Chemical Admixtures for Concrete" (ASTM C494).

Other admixtures required for specific construction conditions and conforming to ASTM (C494) "Standard Specification for Chemical Admixtures for Concrete" maybe incorporated in separate concrete design mixes and submitted to the responsible engineer for approval prior to their use.

**STORAGE OF MATERIALS**

Cement and aggregates shall be stored in such a manners to prevent deterioration or intrusion by foreign matter. Any material which has deteriorated or which has been damaged shall not be used for concrete. Steel shall be stored under cover or otherwise prevented from rusting.

**TESTING OF MATERIALS**

Cement and aggregates shall be stored in such a manner as to prevent deterioration or intrusion by foreign matter. Any material which has deteriorated or which has been damaged shall not be used for concrete. Steel shall be stored under cover or otherwise prevented from rusting.

The Owner or his duly authorized representative or the Engineer shall periodically order the test of any material supplied by the Contractor entering into concrete or reinforced concrete to determine its suitability for the intended purpose. Such tests shall be in accordance with the standards of the American Society for Testing and Materials, as noted elsewhere in these specifications. Samples shall be provided by the Contractor without cost to the Owner. Expenses for the testing and cost of transporting samples to testing laboratory shall be borne by the Contractor. Copies of results of tests shall be furnished to the Owner promptly. Compressive strength specimens for tests of concrete during construction shall be according to "Making and Curing of Concrete Compression and Flexural Strength Test Specimens in the field" (ASTM C-31).

**CONTROLLED STRENGTHS OF CONCRETE**

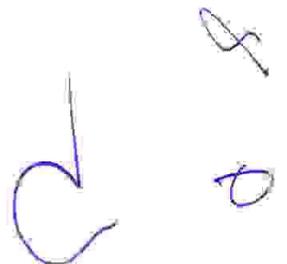
- 1.0.1 Concrete for structural elements shall develop a minimum **28-day compressive cylinder strength of 20.68 MPa (3,000 psi)**, unless otherwise specified in the plans.
- 1.0.2 Concrete for non-structural elements such as cradles, unreinforced encasements, thrust blocks, and partition walls shall develop a minimum **28-day compressive cylinder strength of 17.25 mega Pascal (2,500 psi)**, unless otherwise specified in the plans

#### METHOD OF DETERMINING STRENGTH TRIAL BATCH

The Contractor shall submit design mixed and test results of samples made in accordance with "Standard Method of Making and Curing Concrete Compression and Flexure Test Specimens in the Laboratory" (ASTM C-192 Latest Revision) and "Standard Method of Test for Compressive Strength of Molded Concrete Cylinders" (ASTM Designation C-39) for each strength required, stating the proposed slump and the proportional weights of cement, saturated surface dry aggregates, and water. These mixes shall be proved by the preliminary tests thirty (30) days before concreting and shall show a 28 day strength of fifteen percent (15%) higher than the ultimate strength required. No substitution shall be made in the materials or mixed without additional tests to show that quality of concrete is satisfactory.

#### CONCRETE PROPORTION AND CONSISTENCY

- a. The proportions of aggregate to cement for any concrete shall be such as to produce a mixture which will work readily into the corners and angles of the forms and around reinforcement with the method of placing employed on the work but without permitting the materials to segregate, or excess free water to collect on the surface. The combined aggregates shall be of such composition of sizes that when separated on the No. 4 standard sieve, the weight passing the sieve (fine aggregate) shall not be less than thirty percent (30%) of the total except that these proportions do not necessarily apply to lightweight aggregates.
- b. The methods of measuring concrete materials shall be such that proportions can be accurately controlled and easily checked at any time during the work. Measurement of materials for ready-mixed concrete shall conform with the "Standard Specifications for Ready mixed Concrete" (ASTM C-94, Latest Revision) where applicable.
- c. Aggregates shall be measured out by weight and to within one percent (1%). Cement shall conform to 40 kg (88 lb.) per bag and this is to be verified from time to time. Water shall be measured by weight or volume to within one and one half (1-1/2 %).
- d. The water shall in no case exceed 21.24 liters, and 25.67 liters (5.62 and 6.79 US gallons) per bag of cement for all concrete with specified strength of  $f_c$  respectively. Slumps shall be within the following limits:



Portion of Structure	Slump Millimeters	Inches
Columns and end supported beams, girders	50-100	2-4
Walls and thin Vertical sections	75-125	3-5
Footings, slabs on Grade and cantilevered beams and slabs	50-80	2-3

Slumps shall be according to "Test of Slump for Portland Cement Concrete" (ASTM C-143).

- e. **Classification and Design Mixture.** The mixtures for all classes of concrete shall be designed by the Contractor and approved by ICWS to obtain the compressive strength at the age of twenty eight (28) days as specified below.

Class	Size of Maximum Dia. of Aggregate	Minimum Compressive Strength	Designated Size of aggregate
Y	1/2" (12.5mm)	3,000 psi	12.5mm to 4.75mm
AA	3/4" (19mm)	3,000 psi	19mm to 4.75mm
A	1-1/2" (37.5mm)	3,000 psi	37.5mm to 4.75mm
B	2" (50mm)	2,400 psi	50mm to 4.75mm
C	3" (75mm)	2,400 psi	75mm to 4.75mm

- f. **Cement Content.** The minimum cement content per cubic meter of concrete for the different classes or gradation of aggregates shall be in accordance with the following:

Class and Gradation of Aggregates	Minimum Cement Content
Y with 1/2"	400 kgs/cu.m
AA with 3/4"	400 kgs/cu.m

A with 1-1/2"	360 kgs/cu.m
B with 2"	600 kgs/cu.m
C with 3"	270 kgs/cu.m
Z with 3"	340 kgs/cu.m

- g. Job mix adjustments on water content shall be allowed only with Engineer's permission and provided that cement is also added to maintain the original water cement ratio of the design mix.

**EXCLUSION OF WATER**

No concrete shall be placed in any structure until all water entering the space to be filled with concrete has been properly cut off or has been diverted by pipes, or other means, and carried out of the forms, clear of the work. No concrete shall be deposited under water without the explicit permission of the Engineer, and then only in strict accordance with his directions; nor shall the Contractor, without explicit permission allow still water to rise on any concrete until the concrete has attained its initial set. Water shall not be permitted to flow over the surface of any concrete in such manner and at such velocity as will injure the surface finish of the concrete. Pumping or other necessary dewatering operations for removing ground water, if required, will be subject to the approval of the Engineer.

**MIXING CONCRETE**

No hand mixing shall be allowed, except in case of emergency such as mixer breakdown during pouring operations and shall stop at the first allowed construction joints. All concrete shall be machine mixed for at least 1 minutes after all materials including water are in the mixing drum.

The mixer shall be of approved size and type which will insure a uniform distribution of material throughout the mass, it shall be equipped with a device for accurately measuring and controlling amount of water in each batch.

Placing of material in mixer shall be done in such a way that first batch of concrete materials placed in the mixer shall contain sufficient excess of cement, sand and water to coat the inside of the drum without reducing the cement content of the mix to be discharged.

Retempering, i.e., remixing with the addition of water to concrete that has been partially hardened shall not be permitted.

**PREPARATION OF SURFACES FOR CONCRETING**

Earth surfaces shall be thoroughly wetted by sprinkling prior to the placing of any concrete, and these surfaces shall be kept moist by frequent sprinkling up to the time of placing concrete thereon. The surface shall be free from standing water, mud, and debris at the time of placing concrete.

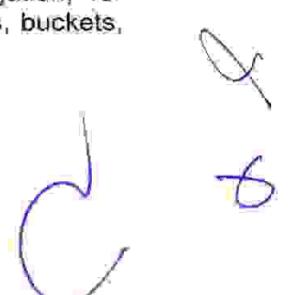
Concrete surfaces upon or against which concrete is to be placed, where the placement of the old concrete has been stopped or interrupted so that, in the opinion of the Engineer, the new concrete cannot be incorporated integrally with that previously placed, are defined as construction joints. The surfaces of horizontal joints shall be leveled with a wooden float to provide a reasonably smooth surface. A surface consisting largely of coarse aggregate shall be avoided. Except where the drawings call for joint surfaces to be painted, the joint surfaces shall be cleaned of all laitance, loose or defective concrete, and foreign material. Such cleaning shall be accompanied by sandblasting followed by thorough washing. All pools of water shall be removed from the surface of construction joints before the new concrete is placed. After the surfaces have been prepared to the satisfaction of the Engineer, all approximately horizontal construction joints shall be covered with a layer of mortar approximately 25mm (1") thick. The mortar shall have the same proportion of cement and sand as the regular concrete mixture, unless otherwise directed by the Engineer. The water-cement ratio of the mortar in place shall not exceed that of the concrete to be placed upon it, and the consistency of the mortar shall be suitable for placing and working in a manner hereinafter specified. The mortar shall be spread uniformly and shall be worked thoroughly into all irregularities of the surface, and wire brooms shall be used where possible to scrub the mortar into the surface. Concrete shall be placed immediately upon the fresh mortar.

When placing of concrete is to be interrupted long enough for the concrete to take a set, the working face shall be given a shape by the use of forms or other means that will secure proper union with subsequent work, provided that construction joints shall be made only where approved by the Engineer.

## PLACING OF CONCRETE

Concrete which upon or before placing is found not to conform with the requirements specified herein shall be rejected and immediately removed from the work. Concrete which is not placed in accordance with these specifications, or which is of inferior quality, as determined by the engineer, shall be removed and replaced by and at the expense of the Contractor. No concrete shall be placed except in a present of duly authorized representative of the Engineer. Concrete shall not be placed when unsuitable heat or wind will prevent proper placement and curing, as determined by the Engineer, prior to placing any concrete, the Contractor shall give the Engineer twenty four (24) hours written notice.

Concrete shall be deposited in its final position without segregation, re-handling, or flowing. Placing shall be done preferably with buggies, buckets,



or wheelborrows. No chutes will be allowed except to transfer concrete from hoppers to buggies, wheelborrows, or buckets in which case, they shall not exceed six (6) meters (20') in aggregate length.

Placing of concrete with a free drop or fall more than 1.20m (4') shall not be allowed, except when approved by the Engineer and when approved sheet metal conduits, pipes or "elephant trunks" are employed. When employed, these conveyors shall be kept full of concrete and the ends kept buried in the newly placed concrete as pouring progresses.

Concrete in forms shall be deposited in uniform horizontal layers not deeper than 450mm (18") and care shall be taken to avoid inclined layers or inclined construction joints except where such care required for sloping members. Each layer shall be placed while the previous layer is still soft. The rate of placing concrete in forms shall not exceed 1.5 meters (5') of vertical rise per hour.

**FORMS**

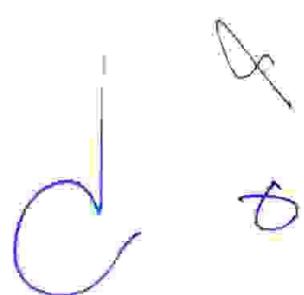
**General**

The Contractor shall provide forms to confine the concrete and shape it to the required lines. Plastering in general, shall not be allowed. The Contractor shall assume full responsibility for the adequate design of all forms and shall be smooth surface. However, forms which in the opinion of the Engineer are unsafe or inadequate in any respect may at any time be condemned by the Engineer; and the Contractor shall promptly remove the condemned forms from the work and replace them at his own expense. A sufficient number of forms of each kind shall be provided to permit the rate of progress to be maintained. Whenever in the opinion of the Engineer, additional forms are necessary to maintain the progress schedule such additional forms shall be provided by the Contractor at his own expense. The design and inspection of concrete forms, falsework, and shoring shall comply with applicable safety regulations, and as may be specified in the General Conditions of these specifications.

**Materials**

- a. Except as otherwise expressly approved by the Engineer, all lumber brought at the job site for use as forms, shoring, or bracing shall be new material.
- b. All forms shall be smooth surface forms and shall be of the following materials:

Walls	-	Steel or plywood panels
Columns	-	Steel, plywood or surfaced lumber
Roof	-	Plywood
All other work	-	Steel panels, plywood or surfaced



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lumber

Plywood shall be manufactured especially for concrete form work and shall be oiled with an approved form oil and edge sealed.

- c. Column forms shall be checked for plumbness before concrete is deposited. Hand holes shall be provided in column forms at lowest points of pour lifts to render this space accessible for cleaning.
- d. All girder, beam and slab centerlines shall be crowned at least 6.3mm (1/4in) in all directions for every 4.57 meters (15ft) span. However, cambers from all cantilevers shall be as indicated on the plans or obtained from the Engineer by the Contractor:
- e. The following are the tolerance limits for formwork:

1. Variation from plumb:

In line and surfaces of columns, piers, walls and risers:

In 3.05m (10ft)	6.3mm (1/4")
6.10m (20ft)	9.5mm (3/8")
12.20m (40ft) or more	19.0mm (3/4")

For exposed corner columns and/or piers, control joint groves and other conspicuous lines:

In any bay 6.10m (20ft) max	6.3mm (1/4")
In 12.20m (40ft) or more	13.00mm (1/2")

2. Variation in cross-sectional dimensions of columns and piers, beams, and thickness of walls and slabs:

Minus	6.3mm (1/4")
Plus	13.00mm (1/2")

3. Footings:

Variations in dimensions on drawings (applied to concrete only and not to reinforcing bars or dowels):

Minus	13.00mm (1/2")
Plus	50.00mm (2")

Misplacement of eccentricity, two percent (2%) of the footings width in the direction of misplacement but not to exceed 50.0mm (2").

Reduction in thickness	Five percent (5%) at specified thickness
------------------------	--

4. Variation in steps:

a) In a flight of steps

Rise	3.2mm (1/8")
Tread	6.3mm (1/4")

b.) In consecutive steps

Rise	1.6mm (1/16")
Tread	3.2mm (1/9")

When required for another work, or when requested by the Owner or his Engineer, the Contractor shall remove or relocate shoring; but existing shoring shall not be disturbed until new shores are set in position.

f. Design

1. All forms shall be true in every respect to the required shape and size, shall conform to the established alignment and grade, and shall be of sufficient strength and rigidity to maintain their position and shape under the loads and operations incident to placing and vibrating the concrete. Suitable and effective means shall be provided on all forms for holding adjacent edges and ends of panels and sections tightly together and in accurate alignment so as to prevent the formation of ridges, fins, or offsets, or similar surface defects in the finished concrete. Plywood, 16.0mm (5/8") and greater in thickness, may be fastened directly to studding if the studs are close enough to prevent visible deflection marks in concrete. The forms shall be tight so as to prevent the loss of water, cement, and fines during placing and vibrating of the concrete. Adequate clean-out holes shall be provided at the bottom of each lift of forms. The size, number, and location of such cleanouts shall be subject to the approval of the Engineer.
2. Concrete construction joints will not be permitted on locations other than those shown or specified, except as may be approved by the Engineer. When a second lift is placed on hardened concrete, special precaution shall not be taken in the way of the number, location, and tightening of ties at the top of the old lift and bottom of the new to prevent any unsatisfactory effect whatsoever on the concrete. Pipe stubs and anchor bolts shall be set in the form where required.
3. Unless otherwise shown, exterior corners in concrete members shall be provided with 19.0mm (3/4") chamfers. Re-entrant corners in concrete members shall not have fillets unless otherwise shown.
4. Reservoir forms and falseworks supporting the roof slab shall be designed for a minimum additional live load of 0.90 Kpa (20psf).

**g. Form Ties**

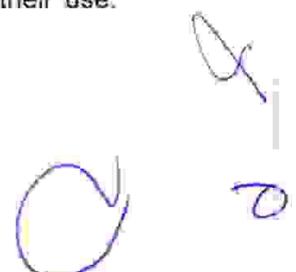
Form ties with integral water stops shall be provided with a cork or other suitable means for forming a conical hole to insure that the form-tie may be broken off back of the face of the concrete. The maximum diameter or removable cones for rod ties, or of other removable form-tie fasteners having a circular cross-section, shall not exceed 38mm (1-1/2") and all such fasteners shall be such as to leave holes of regular shape reaming. Holes left by the removal of fasteners from the ends of snap-ties or form-ties shall be reamed with suitable toothed reamers so as to leave the surfaces of the holes clean and rough before being filled with mortar as provided in Section 17.20. Wire ties for holding forms will not be permitted. No form tying device or part thereof, other than metal, shall be left embedded in the concrete, nor shall any tie be removed in such manner as to leave a hole extending through the interior of the concrete member. The use of snap-ties which cause spalling of the concrete upon form stripping or tie removal will not be permitted. If steel panel forms are used, rubber grommets shall be provided where the ties pass through the form in order to prevent loss of cement paste. Where metal rods extending through the concrete are used to support or to strengthen forms, the rods shall remain embedded and shall terminate not less than 25mm (1in) back from the formed face or faces of the concrete. Form ties or metal rods left embedded in concrete of water retaining tanks shall be equipped with an integral metal waterstop not less than 38mm(1-1/2") in diameter.

**h. Vertical Surfaces**

All vertical surfaces of concrete members shall be formed, except where placement of the concrete against the ground is called for on the drawings or explicitly authorized by the Engineer. Not less than 25mm (1") of concrete shall be added to the thickness of the concrete member as shown where concrete is permitted to be placed against trimmed ground in lieu of forms. Such permission will be granted only for members of comparatively limited height and where the character of the ground is such that it can be trimmed to the required lines and will stand securely without caving or sloughing until concrete has been placed.

**i. Maintenance of Forms**

Forms shall be maintained at all times in good condition, particularly as to size, shape, strength, rigidity, tightness, and smoothness of surface. Forms when in place, shall conform to the established alignment and grades. Before concrete is placed, the forms shall be thoroughly cleaned. The form surfaces shall be treated with a non-staining mineral oil or other lubricant approved by the Engineer. Any excess lubricant shall be satisfactorily removed before placing the concrete. In addition, all forms shall be given a preliminary oil treatment by the manufacturer or shall be oiled by the Contractor at least two (2) weeks in advance of their use.



Care shall be exercised to keep oil off the surfaces of steel reinforcement and other metal items to be embodied in concrete. Forms may be reused if in good condition and if approved by the Engineer. Light sanding between uses will be required wherever necessary in the opinion of the Engineer to obtain uniform surface texture on all exposed concrete surfaces. Exposed concrete surface are defined as surfaces which are permanently exposed to view. In the case of forms for the inside wall surfaces of hydraulic structures, unused tie rod holes shall be covered with metal caps or shall be filled by other methods approved by the Engineer.

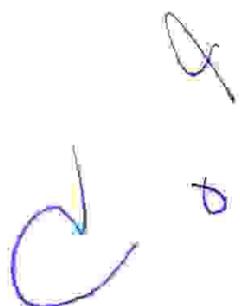
**j. Removal of Forms**

Directions of the Engineer concerning the removal of forms shall be strictly followed. Forms and shoring shall not be removed until concrete is adequately set and strong enough to withstand anticipated loading and this work shall be done with care so as to avoid injury to the concrete. No heavy loading on green concrete will be permitted. In the case of roof slabs and above-ground floor slabs, forms shall remain in place until test cylinders for the roof concrete attain a minimum compressive strength of 15.52 MPa (2,250 psi) provided that no forms shall be disturbed or removed under an individual panel or unit before the concrete in the adjacent panel or unit has attained a strength of 15.52 MPa (2,250 psi) and has been in place for a minimum of even (7) days. The time required to establish said strength will be determined by the Engineer who will make several test cylinders for this purpose from concrete used in the first group of roof panels placed. If the time so determined is more than the seven-day minimum, then it shall be used as the minimum length of time. Forms for all vertical walls and columns shall remain in place at least three (3) days after the concrete has been placed. Forms for all parts of the work not specifically mentioned herein shall remain in place for periods of time as ordered by the Engineer.

**TAMPING AND VIBRATING**

As concrete is placed in the forms or in excavations, it shall be thoroughly settled and compacted throughout the entire depth of the layer which is being consolidated, into a dense, homogeneous mass, filling all corners and angles, thoroughly embedding the reinforcement, eliminating rock pockets, and bringing only a slight excess of water to the exposed surface of concrete during placement.

Care shall be used in placing concrete around waterstops. The concrete shall be carefully worked by rodding and vibrating to make sure that all air and rock pockets have been eliminated. Where flat-strip type waterstops are used, the concrete shall be worked under the waterstops are used, the concrete shall be worked under the waterstops by hand making sure that all air and rock pockets have been eliminated.



Concrete in wall shall be internally vibrated and at the same time rammed, stirred, or worked with suitable appliances, tamping bars, shovels, or forked tools until it completely fills the forms or excavations and closes snugly against all surfaces. Subsequent layers previously placed have been worked thoroughly as specified. Except in special cases where their use is deemed impracticable by the Engineer, the Contractor shall use internally vibrated, high speed power vibrators not less than 8000 rpm of an approved immersion type in sufficient numbers, with standby units as required, to accomplish the results herein specified within fifteen (15) minutes after concrete of the prescribed consistency is placed in the forms. The vibrating head shall be kept from contact with the surfaces of the forms. Care shall be taken not to vibrate concrete excessively or to work it in any manner that causes segregation of its face.

#### **CARE AND REPAIR OF CONCRETE**

The Contractor shall protect all concrete against injury or damage from excessive heat, lack of moisture, over stress, or any other cause until final acceptance by the Owner. Particular care shall be taken to the drying of concrete and to avoid roughening or otherwise damaging the surface. Any concrete found to be damaged or which may have been originally defective at any time prior to the final acceptance of the complete work, or which departs from the established line or grade, or which for any other reason does not conform with the specifications shall be satisfactorily repaired or removed and replaced with acceptable concrete at the Contractor's expense.

#### **FINISH OF CONCRETE SURFACE**

All finished or formed surfaces shall conform accurately with the shape, alignment, grades and sections as indicated on the plans or as prescribed by the Engineer. Surfaces shall be free from fins, bulges, ridges, offsets, honeycombing, or roughness of any kind, and shall present a finished, smooth, continuous hard surface.

Except as otherwise provided herein, unformed top surfaces of concrete shall be brought to uniform surfaces and worked with suitable tools to a reasonably smooth woodfloat finish. Excessive floating of surfaces while the concrete is plastic will not be permitted. All surfaces shall be placed monolithically with the base slab. Dusting of dry cement and sand on the concrete surface to absorb excess moisture will not be permitted. Floor slabs and exposed tops of walls and curbs shall be given a steel trowel finish. At the Contractor's option, the above mentioned floor slabs may be finished with a power float after screeding. Subsequent to the aforementioned finish, all sloping surfaces of floor slabs shall be lightly boomed to provide a skid resistant surface.

#### **TREATMENT OF SURFACE DEFECTS**

As soon as forms are removed, all exposed surfaces shall be carefully examined and any irregularities shall be immediately rubbed or ground in a satisfactory manner in order to secure a smooth, uniform, and continuous surface. Plastering or

coating of surfaces to be smoothed will not be permitted. No repairs shall be made until after inspection by the Engineer, and then only in strict accordance with his directions. Concrete containing voids, holes, honeycombing, similar depression defects shall be completely removed and replaced; provided that where required or approved by the Engineer, defects shall be repaired with gunite or with cement mortar placed by an approved compressed air mortar gun. In no case will extensive patching of honeycombed concrete be permitted. All repairs and replacements herein specified shall be promptly executed by the Contractor at his own expense.

## DEPOSITING CONCRETE

### Depositing:

Depositing shall be done without segregation, remanding or flowing of concrete. It shall be done with the use of buggies, buckets or wheelbarrows. Use of chutes will not be allowed except to transfer concrete from hoppers to buggies, wheelbarrows or buckets in which case shall not exceed 20 feet in aggregate length placing of concrete with a free drop of fall of more than 5 feet are not allowed. Conveyors when used shall be kept full of concrete and ends shall be kept buried in the newly placed concrete as pouring progresses.

### Vibrations:

No placing of concrete will be allowed without vibrators. Segregation due to over vibration shall be avoided.

### Construction Joints:

If possible concreting shall be done continuous until section is complete. When stoppage of concrete operations occur, construction joints shall be placed either horizontally or vertically as indicated by the Engineer and provided with shear keys or dowels to develop bond. Construction joints shall be per plan or shall be approved or as directed by the Engineer.

## MEASUREMENT AND PAYMENT

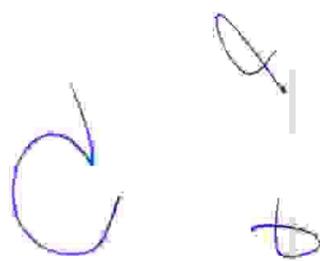
Measurement and payment shall be made at the contract cubic meter (cu.m.) price as specified in the Bid Price Schedule. Payment shall include all cost in furnishing labor, materials, tools equipment and other incidentals necessary for the satisfactory implementation of these requirements.

## TS-06 CLEARING AND DEMOBILIZATION

Handwritten signature and initials in blue ink, consisting of a large stylized 'C' and a smaller 'P' with a checkmark-like flourish.

Before moving out, the contractor shall restore the orderly state of worksite by clearing all temporary structures. Remove all excess/waste materials and store in designated areas.

Before the Contractor will demobilize its construction equipment/ tools, materials and crew, he shall secure approval from NPC security office for the release of the contractor's equipment and to surrender the workers Identification (I.D) cards. A joint inspection with the NPC inspector and Contractor will be conducted to make sure that all his accomplishment / work that needs remedial attention or correction shall be done prior to the issuance of the Certificate of Completion. The Certificate of Completion will serve as basis for the processing of payments.



## *Section VII. Drawings*

Sheet No. 1/5 –	LOCATION OF PROPOSED PLAN
Sheet No. 2/5–	SLOPE PROTECTION SECTION DETAIL
Sheet No. 3/5 –	REINFORCED CONCRETE HEADWALL BOX & WING TYPE CULVERT DETAIL
Sheet No. 4/5 –	SLOPE PROTECTION DETAIL
Sheet No. 5/5 –	TYPICAL SLOPE PROTECTION SECTION DETAIL AND TYPICAL DESIGN FOR OPEN LINED CANAL



SLOPE PROTECTION  
FULLY-GROUTED  
HAND-LAID ROCK  
RIPRAP BOULDERS

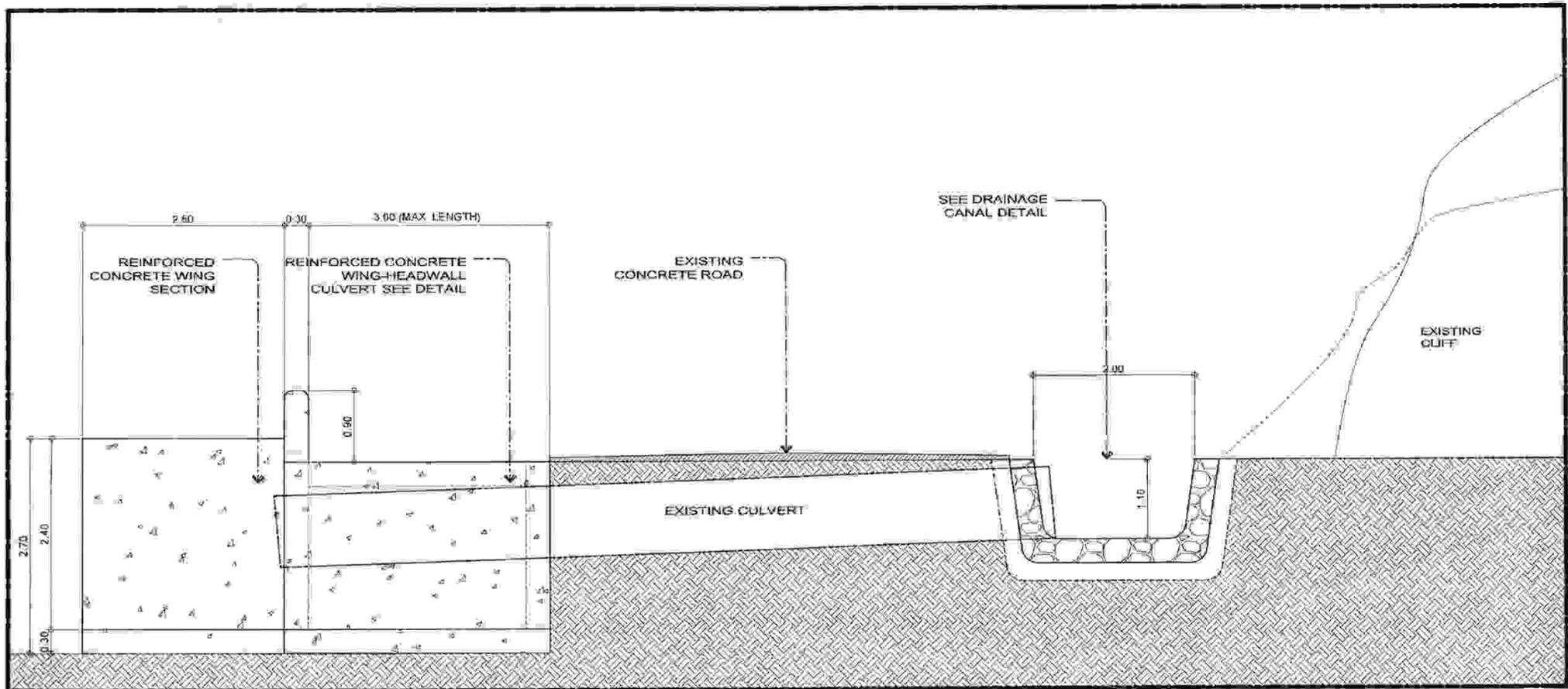
138.00 METERS  
LENGTH OPEN  
LINED CANAL  
FULLY-GROUTED  
HAND-LAID ROCK  
RIPRAP BOULDERS

PORTION AREA, REMOVAL  
AND TRANSFERRING OF  
LOOSE ROCK AND SOIL  
CAUSE BY LANDSLIDE ON  
AGUS 7 DAM ACCESS ROAD  
AND OPEN LINED CANAL TO  
DESIGNATED AREA

- NOTES:
1. THE WINNING BIDDER SHALL PROVIDE THE LABOR AND EQUIPMENT FOR THE FOLLOWING SCOPE OF WORKS.
    - REMOVAL AND TRANSFERRING OF ROCKS AND SOIL CAUSE BY LANDSLIDE ALONG AGUS 7 ACCESS ROAD, OPEN LINED DRAINAGE CANAL AND EXISTING SOIL INSIDE CULVERT TO DESIGNATED AREA (MCCI AND SLOPE PROTECTION LOCATION). \*TRANSPORTATION OF ROCKS AND SOIL ARE INCLUDED IN THIS CONTRACT.
    - REMOVAL OF DAMAGED STRUCTURE EXISTING CANAL, OBSTRUCTION AND DISPOSAL.
    - ROCK EXCAVATION AND COMMON EXCAVATION WORKS FOR PROPOSED SLOPE PROTECTION AND OPEN LINED CANAL.
  2. THE CONTRACTOR SHALL INFORM THE END-USER BEFORE THE IMPLEMENTATION OF THE PROJECT.
  3. ALL MATERIALS TO BE USED SHALL CONFORM TO APPLICABLE STANDARD. SAMPLE MATERIALS SHALL BE SUBMITTED TO THE NPC/ END-USER FOR APPROVAL BEFORE PLACING ORDERS. IF UPON VISUAL INSPECTION THE MATERIALS APPEAR TO BE OF POOR QUALITY OR FAIL TO MEET THE STANDARD, THE END-USER HAS THE AUTHORITY TO REJECT THE SAME OUTRIGHTLY.
  4. THE CONTRACTOR SHALL SUBMIT THE REQUIRED TESTING MATERIALS RESULT AND CERTIFICATE FOR THIS PROJECT AS WRITTEN IN TECHNICAL SPECIFICATIONS.

**1** LOCATION OF PROPOSED PLAN  
**1** SCALE **NDTS**

 <p><b>NATIONAL POWER CORPORATION</b> <b>MINDANAO GENERATION</b> <b>AGUS 6/7 HPPC</b> BRGY. MA. CRISTINA, FUENTES ILIGAN CITY</p>	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDED FOR APPROVAL:	APPROVED BY:	SHEET NO.:
	<p><b>SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY</b></p> <p>LOCATION: AGUS 7 HEP</p>	<p><i>K.M.M. Cabante</i> <b>K.M.M. CABANTE</b> PTS DRAFTSMAN II</p>	<p><i>M. B. Jaday</i> <b>M. B. JADAY</b> PTS MNGR. - AGUS 6&amp;7 HPPC</p>	<p><i>Atty. E. L. Ramirez</i> <b>ATTY. E. L. RAMIREZ</b> PLANT MNGR. - AGUS 6&amp;7 HPPC</p>	<p><i>E.A. Veloso, Jr.</i> <b>E.A. VELOSO, JR.</b> VICE PRESIDENT, MINDEN</p>	<p><b>1</b> <b>5</b></p>



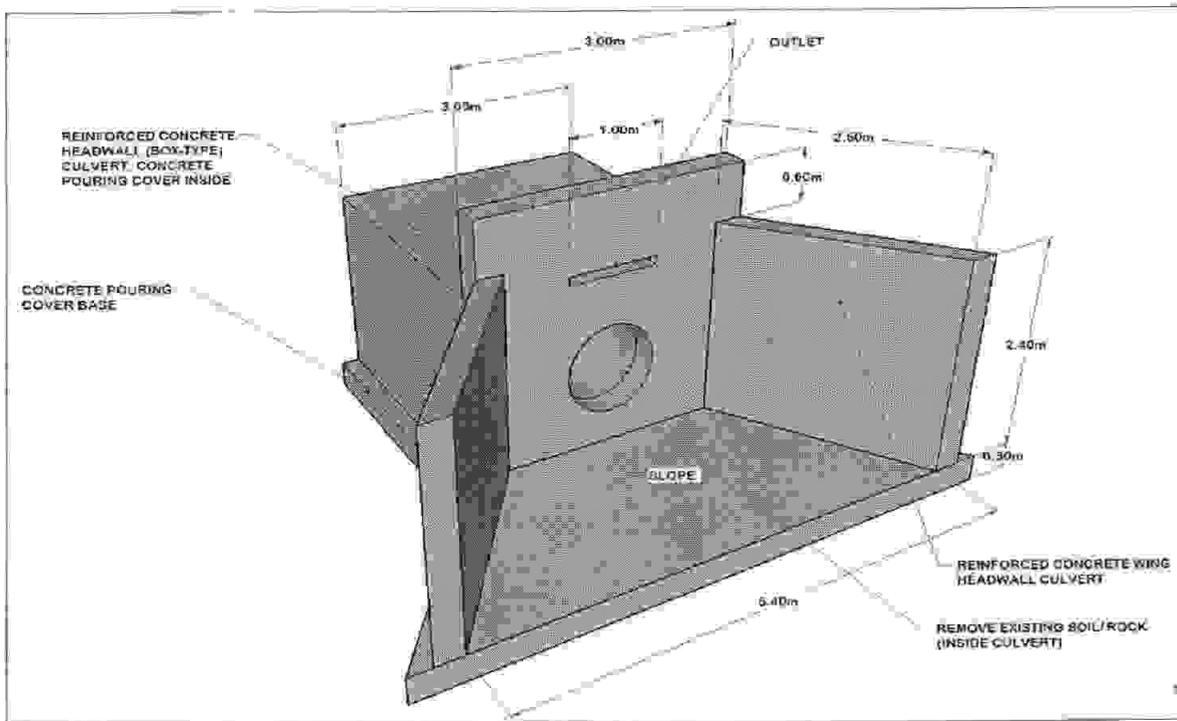
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**SLOPE PROTECTION SECTION DETAIL**

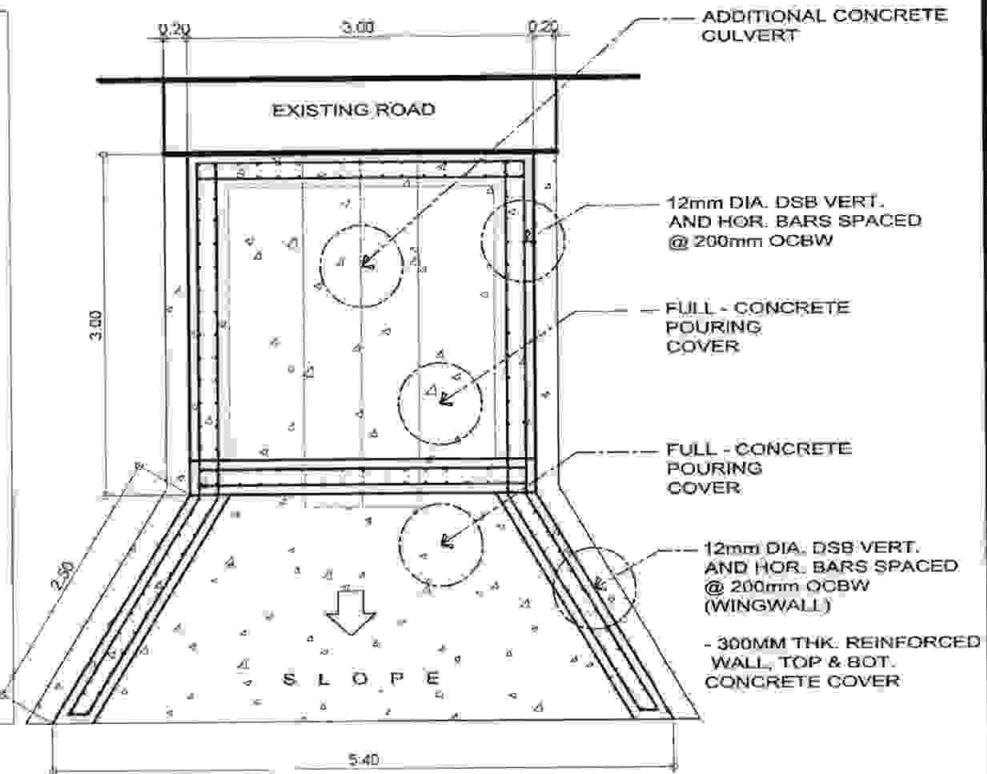
SCALE

1:50MTRS

 <p><b>NATIONAL POWER CORPORATION</b> <b>MINDANAO GENERATION</b> <b>AGUS 6/7 HEP</b> BRGY. MA. CRISTINA, FUENTES ILIGAN CITY</p>	<p>PROJECT TITLE: <b>SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY</b></p>	<p>PREPARED BY: <i>[Signature]</i> <b>K.M.M. CABANTE</b> PTS DRAFTSMAN B</p>	<p>CHECKED BY: <i>[Signature]</i> <b>M. B. JABAY</b> PTS MNGR. - AGUS 6&amp;7 HPPC</p>	<p>RECOMMENDED FOR APPROVAL: <i>[Signature]</i> <b>ATTY. E. L. RAMIREZ</b> PLANT MNGR. - AGUS 6&amp;7 HPPC</p>	<p>APPROVED BY: <i>[Signature]</i> <b>E.A. VELOSO, JR.</b> VICE PRESIDENT, MINGLEN</p>	<p>SHEET NO: 2 5</p>
	<p>LOCATION: AGUS 7 HEP</p>					



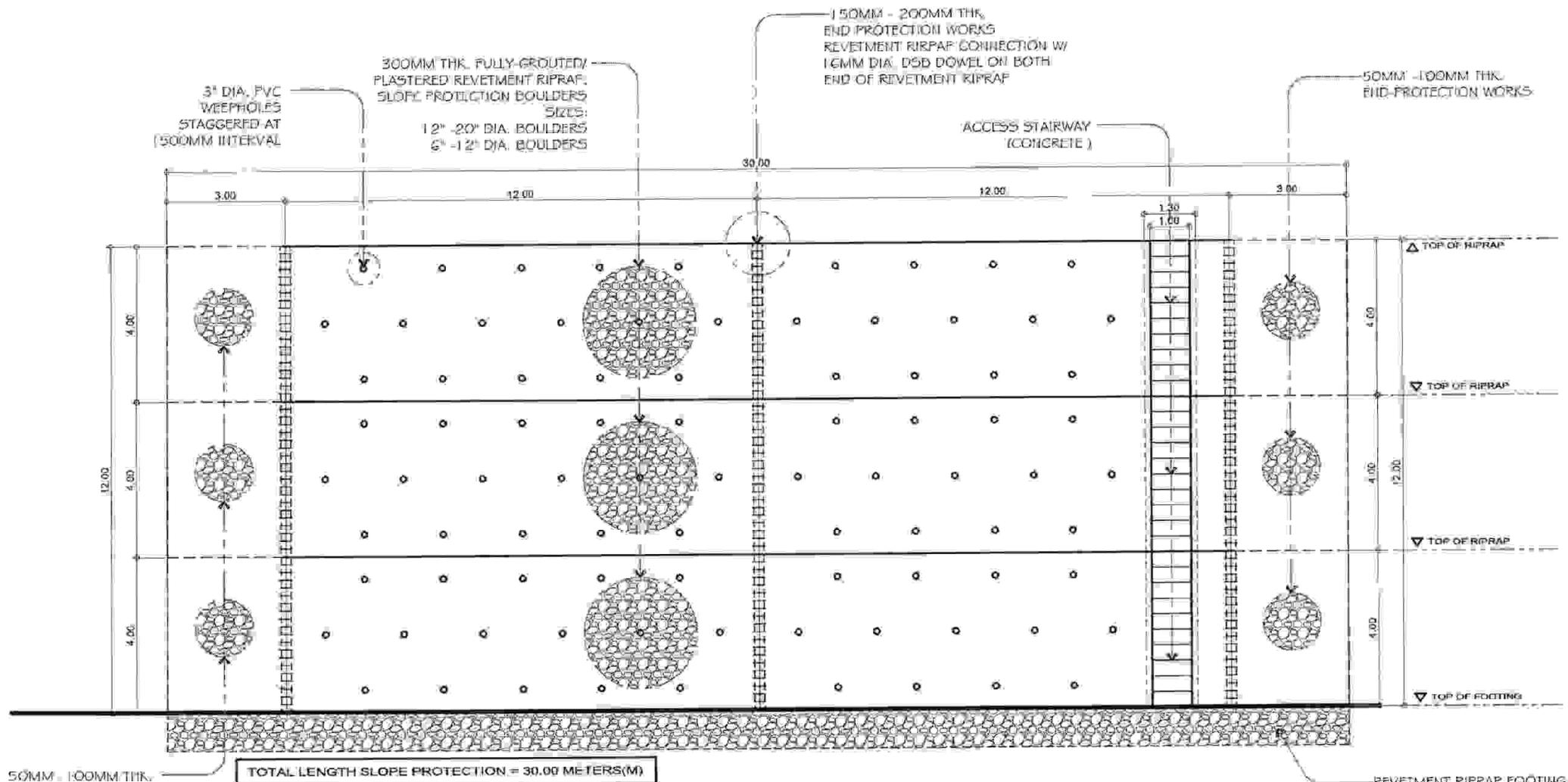
PERSPECTIVE



TOP VIEW SECTION

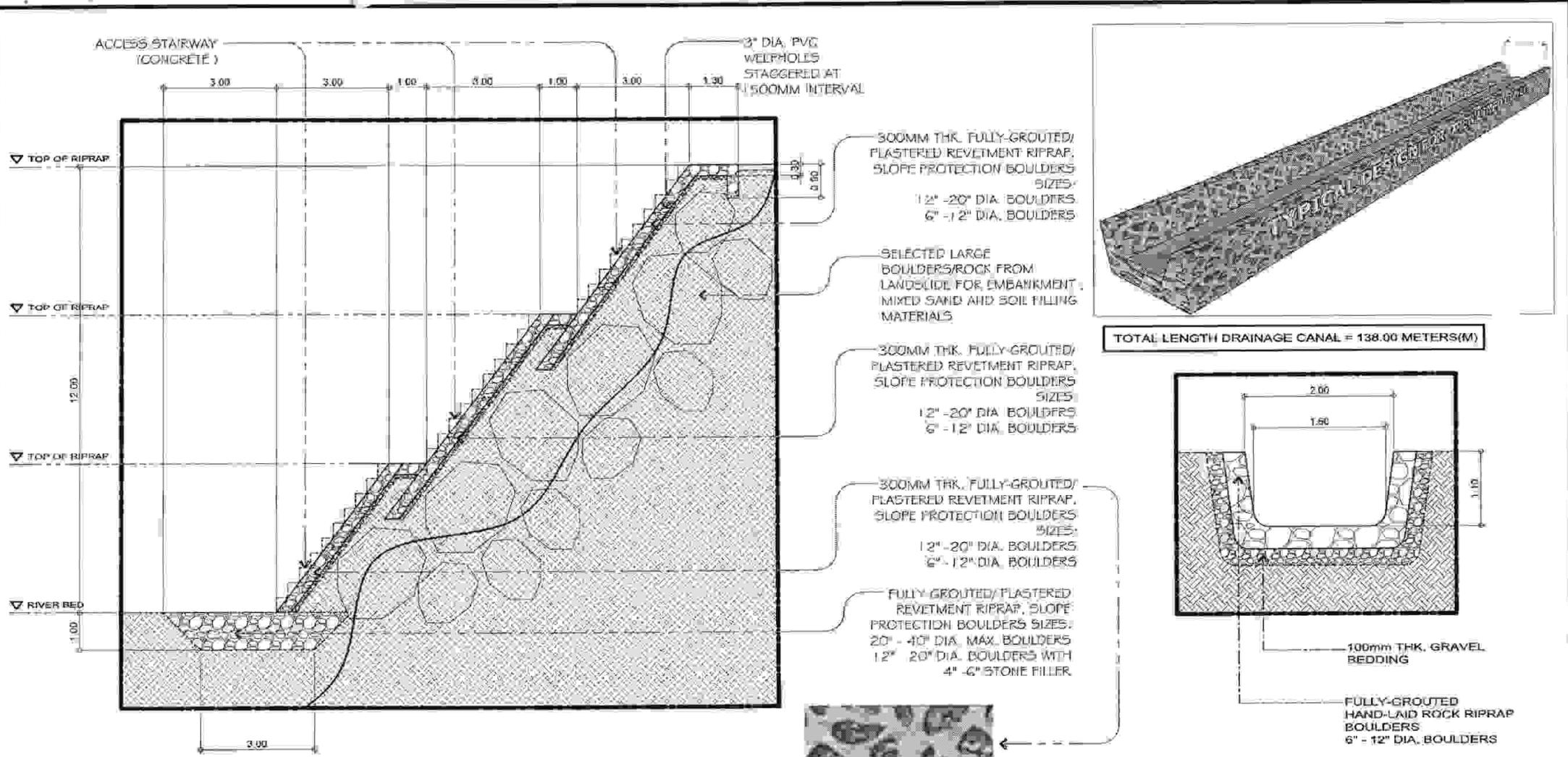
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**REINFORCED CONCRETE HEADWALL BOX & WING TYPE CULVERT DETAIL**  
 SCALE 1:50 MTRS

 <b>NATIONAL POWER CORPORATION</b> <b>MINDANAO GENERATION</b> <b>AGUS 6/7 HEPC</b> BRGY. MA. CRISTINA, FUENTES ILIGAN CITY	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDED FOR APPROVAL:	APPROVED BY:	SHEET NO:
	<b>SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY</b> LOCATION: AGUS 7 HEP	 <b>K.M.M. CABANTE</b> PTS DRAFTSMAN B	 <b>M. B. JABAY</b> PTS MNGR. - AGUS 6&7 HEPC	 <b>ATTY. E. L. RAMIREZ</b> PLANT MNGR. - AGUS 6&7 HEPC	 <b>E.A. VELOSO, JR.</b> VICE PRESIDENT, MINGEN	<span style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; text-align: center;">                     3 5                 </span>



**1** SLOPE PROTECTION DETAIL  
**4** SCALE 1:50 MTRS

 <p><b>NATIONAL POWER CORPORATION</b>  <b>MINDANAO GENERATION</b>  <b>AGUS 6/7 HEP</b>          BRGY. MA. CRISTINA, FUENTES ILIGAN CITY</p>	PROJECT TITLE: <b>SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY</b>	PREPARED BY:  <b>K.M.M. CABANTE</b> PTS DRAFTSMAN B	CHECKED BY:  <b>M. B. JABAY</b> PTS MNGR. - AGUS 6&7 HPPC	RECOMMENDED FOR APPROVAL:  <b>ATTY. E. L. RAMIREZ</b> PLANT MNGR. - AGUS 6&7 HPPC	APPROVED BY:  <b>E.A. VELOSO, JR.</b> VICE PRESIDENT, MINGEN	SHEET NO: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <span style="margin-right: 5px;">4</span>  <span>5</span> </div>
	LOCATION: AGUS 7 HEP					



**1**  
**5** **TYPICAL SLOPE PROTECTION SECTION DETAIL**  
SCALE 1:100 MTRS

**2**  
**5** **TYPICAL DESIGN FOR OPEN LINED CANAL**  
SCALE 1:50 MTRS

 <p><b>NATIONAL POWER CORPORATION</b> <b>MINDANAO GENERATION</b> <b>AGUS 6/7 HEPC</b> BRGY. MA. CRISTINA, FUENTES ILIGAN CITY</p>	<p>PROJECT TITLE:</p> <p><b>SLOPE PROTECTION AND DRAINAGE SYSTEM AT AGUS 7 SPILLWAY</b></p>	<p>PREPARED BY:</p> <p><i>K.M.M. Cabante</i> <b>K.M.M. CABANTE</b> PTS DRAFTSMAN B</p>	<p>CHECKED BY:</p> <p><i>M.B. Jabay</i> <b>M. B. JABAY</b> PTS MNGR. - AGUS 6&amp;7 HPPC</p>	<p>RECOMMENDED FOR APPROVAL:</p> <p><i>Atty. E.L. Ramirez</i> <b>ATTY. E. L. RAMIREZ</b> PLANT MNGR. - AGUS 6&amp;7 HPPC</p>	<p>APPROVED BY:</p> <p><i>E.A. Veloso, Jr.</i> <b>E.A. VELOSO, JR.</b> VICE PRESIDENT, MINGEN</p>	<p>SHEET NO:</p> <p><b>5</b> <b>5</b></p>
	<p>LOCATION: AGUS 7 HEF</p>					

## *Section VIII. Bill of Quantities*

SECTION VIII - BILL OF QUANTITIES

**BILL OF QUANTITIES**

Item No.	Description of Work or Materials	Unit	Estimated Quantity	Unit Price in Pesos (Words and Figures)	Total Amount
<b>PART I. GENERAL REQUIREMENTS</b>					
A.	Occupational Safety and Health Program	lot	1.00	(PHP)	PHP
<b>PART II. EARTHWORKS</b>					
A.	Site Clearing, Grubbing (Cutting of Vegetation, Trees and Uneven Terrain) and Hauling of Material	lot	1.00	(PHP)	PHP
B.	Clearing/Removal and Transporting of Rocks and Soil along Agus 7 Access Road, Open Lined Drainage Canal and Existing Soil Inside Culvert to designated area	lot	1.00	(PHP)	PHP
C.	Removal of Damaged Structure, Existing Canal, Obstruction and Disposal	lot	1.00	(PHP)	PHP
D.	Rock Excavation and Common Excavation Works for Proposed Slope Protection and Open Lined Canal	lot	1.00	(PHP)	PHP
E.	Embankment from Excavation, Backfill, Gravel Fill and Compaction	lot	1.00	(PHP)	PHP
<b>PART III. FULLY-GROUTED HAND-LAID ROCK RIPRAP SLOPE PROTECTION</b>					
A.	Piling of Boulders, Grouting and Plastering	cu.m	840.00	(PHP)	PHP
<b>PART IV. FULLY-GROUTED HAND-LAID ROCK RIPRAP OPEN LINE CANAL DRAINAGE SYSTEM</b>					
A.	Piling of Boulders, Grouting and Plastering	cu.m	250.00	(PHP)	PHP
<b>PART V. INSTALLATION OF REINFORCED CONCRETE WING-HEADWALL FOR CULVERT AND CONCRETE EDGE BARRIER</b>					
			38.00	(PHP)	PHP
<b>TOTAL</b>					<b>PHP</b>

Name of Firm

Name and Signature of Authorized Representative

Designation

## ***Section IX. Checklist of Technical and Financial Documents***

## Checklist of Technical and Financial Documents

### I. TECHNICAL COMPONENT ENVELOPE/*Submit in three (3) copies- one (1) marked Original with the understanding that the Pass/Fail evaluation will be based only on the copy marked "Original"*

#### Class "A" Documents

##### Legal Documents

- (a) Valid and updated PhilGEPS Registration Certificate (Platinum Membership) (all pages)*in accordance with Section 8.5.2 of the IRR; or*

##### Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid,*using NPC-MinGen Standard Form No. NPCMGNSF-INFR-01; and*
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules,*using NPC-MinGen Standard Form No. NPCMGNSF-INFR-02 supported with the following documents:*
- *Contract and/or Notice to Proceed;*
  - *For project completed less than one year from the scheduled date of bid opening, submit Certificate of Completion;*
  - *For project completed at least one year from the scheduled date of bid opening, submit Owner's Certificate of Final Acceptance issued by the project owner other than the contractor, or a final rating of at least Satisfactory in the Constructor's Performance Evaluation System (CPES);*
  - *In case of contracts with the private sector, an equivalent document (Ex. Official receipt) shall be submitted.*
- and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) Original copy of Bid Security. If in the form of a Surety Bond, *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-03a*, submit also a certification issued by the Insurance Commission; **or** Original copy of Notarized Bid Securing Declaration using *NPC-MinGen Standard Form No. NPCMGNSF-INFR-03b*; and
- (f) Project Requirements, which shall include the following:
- a. Organizational chart for the contract to be bid *using NPC-MinGen Standard Form No. NPCMGNSF-INFR-04;*

- b. List of contractor’s key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data, using NPC-MinGen Standard Form No. NPCMGNSF-INFR-05, 6a, 6b & 07;
- c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, using NPC-MinGen Standard Form No. NPCMGNSF-INFR-08 and its supporting documents; and
- (g) Original duly signed Omnibus Sworn Statement (OSS), using any of the following NPC-MinGen Standard Forms No.:  
***NPCMGNSF-INFR-09a – for Sole Proprietorship;***  
***or***  
***NPCMGNSF-INFR-09b – for Partnership/Cooperative/Corporation/ Joint Venture with the following supporting documents;***  
  
**and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (h) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC) using NPC-MinGen Standard Form No. NPCMGNSF-INFR-10.

***Class “B” Documents***

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence, using NPC-MinGen Standard Form No. ***NPCMGNSF-INFR-11;***  
**or**  
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

**II. FINANCIAL COMPONENT ENVELOPE/Submit in three (3) copies- one (1) marked Original with the understanding that the Pass/Fail evaluation will be based only on the copy marked “Original”]**

- (j) Original of duly signed (each and every page) and accomplished Financial Bid Form, using NPC-MinGen Standard Form No. NPCMGNSF-INFR-12;  
**and**

Other documentary requirements under RA No. 9184

- (k) Original of duly signed (each and every page) Bid Prices in the Bill of Quantities, using given form in Section VIII; and

- (l) Duly signed (each and every page) and accomplished Detailed Estimates Form using *NPC-MinGen Standard Form No. NPCMGNSF-INFR-13*, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid using NPC form *NPCMGNSF-INFR-14*; and
- (m) Cash Flow by Quarter or Month, as applicable (duly signed each and every page)

## **STANDARD BIDDING FORMS**

### **NPC-MINDANAO GENERATION**

- NPCMGNSF-INFR-01 - List of all Ongoing Government & Private Construction Contracts Including Contracts Awarded but not yet Started
- NPCMGNSF-INFR-02 - Statement of the Bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid
- NPCMGNSF-INFR-03a - Form of Bid Security ; Surety Bond
- NPCMGNSF-INFR-03b - Bid Securing Declaration Form
- NPCMGNSF-INFR-04 - Contractor's Organizational Chart for the Project:
- NPCMGNSF-INFR-05 - List of Key Personnel Proposed to be Assigned to the Project
- NPCMGNSF-INFR-6a - Key Personnel's Certificate of Employment (Professional Personnel)
- NPCMGNSF-INFR-6b - Key Personnel's Certificate of Employment (Construction Safety and Health Practitioner)
- NPCMGNSF-INFR-07 - Key Personnel's Bio-Data
- NPCMGNSF-INFR-08 - List of Equipment, Owned or Leased and/or under Purchase Agreement, Pledged to the Proposed Project
- NPCMGNSF-INFR-09a - Omnibus Sworn Statement (Sole Proprietorship)
- NPCMGNSF-INFR-09b - Omnibus Sworn Statement (Partnership/ Cooperative/Corporation//Joint Venture)
- NPCMGNSF-INFR-10 - Computation of Net Financial Contracting Capacity (NFCC)
- NPCMGNSF-INFR-11 - Joint Venture Agreement
- NPCMGNSF-INFR-12 - Bid Form
- NPCMGNSF-INFR-13 - Detailed Cost Estimate Form
- NPCMGNSF-INFR-14 - Summary Sheets of Materials Prices, Labor Rates and Equipment Rental Rates

BID DOCUMENTS

NAME OF PROJECT : SLOPE PROTECTION AND DRAINAGE

SYSTEM AT AGUS 7 SPILLWAY FUENTES, ILIGAN CITY

SECTION IX- CHECKLIST OF TECHNICAL &

PR NO./REF NO: MG-A7T22-015/NFRA2022-AG7-011

FINANCIAL DOCUMENTS

Standard Form Number : NPCMGNSF-INFR-01

**List of All Ongoing Government and Private Construction Contracts Including**

Business Name : \_\_\_\_\_  
Business Address : \_\_\_\_\_

Name of Contract/Location/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role	
			Description	%
<u>Government</u>				
<u>Private</u>				

The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (if agreement other than his current joint venture where he is a partner). Non-declaration will be a ground for disqualification of bid

Note: This statement shall be supported with Contract and/or Notice of Award (to be presented by the winning bidder)

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

BID DOCUMENTS

NAME OF PROJECT SLOPE PROTECTION AND DRAINAGE

SYSTEM AT AGUS 7 SPILLWAY FUENTES, IIGAN CITY

SECTION IX-CHECKLIST OF TECHNICAL & FINANCIAL DOCUMENTS

PR NO./REF NO. MIS-A7T22-015/INFRA2022-AG7-011

Standard Form Number : NPCMGNSF-INFR-02

**The Statement of the Bidder's Single Largest Completed Contract (SLCC)**

Business Name : \_\_\_\_\_

Business Address : \_\_\_\_\_

Name of Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role	
			Description	%

Note: The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be shall be supported with:

1. Contract and Notice to Proceed
2. Certificate of Completion (for project completed within the year), or Owner's Certificate of Final Acceptance from the project owner other than the contractor, or a final rating of at least Satisfactory in the Constructor's Report (for the private sector, an equivalent document (Ex. Official Receipt) shall be accepted).

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_

Date : \_\_\_\_\_

Standard Form No: NPCMGNSF-INFR-03a

**FORM OF BID SECURITY (SURETY BOND)**

BOND NO.: \_\_\_\_\_ DATE BOND EXECUTED: \_\_\_\_\_

By this bond, We (Name of Bidder) (hereinafter called "the Principal") and (Name of Surety) of (Name of Country of Surety), authorized to transact business in the Philippines (hereinafter called "the Employer") as Obligee, in the sum of [amount in words & figures as prescribed in the bidding documents], callable on demand, for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

WHEREAS, the Principal has submitted a written Bid to the Employer dated the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_, for the \_\_\_\_\_ (hereinafter called "the Bid").

NOW THEREFORE, the conditions of this obligation are:

- 1) If the Bidder withdraws his Bid during the period of bid validity specified in the Bidding Documents; or
- 2) If the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
- 3) If the Bidder, having determined as the LCB, fails or refuses to submit the required tax clearance, latest income and business tax returns and PhilGEPS registration certificate within the prescribed period; or
- 4) If the bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
  - a) Fails or refuses to execute the Contract; or
  - b) Fails or refuses to submit the required valid JVA, if applicable; or
  - c) Fails or refuses to furnish the Performance Security in accordance with the Instruction to Bidders;

Then this obligation shall remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

- a) Liable for a grater sum than the specified penalty of this bond, nor
- b) Liable for a greater sum that the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

SECTION IX- CHECKLIST OF TECHNICAL &  
FINANCIAL DOCUMENTS

Standard Form No: NPCMGNSF-INFR-03a

Page 2 of 2

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

PRINCIPAL \_\_\_\_\_  
SIGNATURE(S) \_\_\_\_\_  
NAME(S) AND TITLE (S) \_\_\_\_\_  
SEAL \_\_\_\_\_

SURETY \_\_\_\_\_  
SIGNATURE(S) \_\_\_\_\_  
NAME(S) \_\_\_\_\_  
SEAL \_\_\_\_\_

Standard Form No: NPCMGNSF-INF-03b

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 Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

[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]

Standard Form No: NPCMGNSF-INFR-04

### CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him. Indicate in the chart the names of the Project Manager, Project Engineer, Foreman and other Key Engineering Personnel.

Attach the required Proposed Organizational Chart for the Contract as stated above.

#### NOTES:

1. *This organization chart should represent the "Contractor's Organization" required for the Project, and not the organizational chart of the entire firm.*
2. *Each such nominated engineer/key personnel shall comply with and submit their complete qualification and experience data.*
3. *All these are required to be in the Technical Envelope of the Bidder.*

BID DOCUMENTS

NAME OF PROJECT :SLOPE PROTECTION AND DRAINAGE

SECTION IX- CHECKLIST OF TECHNICAL & FINANCIAL DOCUMENTS

SYSTEM AT AGUS 7 SPILLWAY FUENTES, ILIGAN CITY

PR NO./REF NO MG A7T22 015/INFRA2022.AG7 011

Standard Form Number - NPCMGNSF-INFR-05

**LIST OF KEY PERSONNEL PROPOSED TO BE ASSIGNED TO THE CONTRACT  
(Based on the Minimum Key Personnel Required in the Bidding Documents)**

Business Name : \_\_\_\_\_  
Business : \_\_\_\_\_

	DESIGNATION				
1. Name					
2. Address					
3. Date of Birth					
4. Employed Since					
5. Experience					
6. Previous Employment					
7. Education					
8. PRC License					

**Required Attachments during Postqualification:**

- 1. Valid PRC License of the (professional) personnel
- 2. Certificate of Training with accreditation from DOLE of the Construction Safety and Health Officer
- 3. TESDA Training Certificate (NC II) of Welder or Electrician, whichever is applicable
- 4. Copy of Diploma and/or Service Record/Certificate of Employment of previous and/or current employer of Foreman, Welder, Plumber or Electrician, whichever is applicable shall be submitted during post qualification by the winning bidder.

Submitted by: \_\_\_\_\_  
(Printed name & Signature)

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (based on the minimum key personnel required in the bidding documents) to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).

Standard Form No: NPCMGNSF-INFR-06a

**KEY PERSONNEL'S CERTIFICATE OF EMPLOYMENT  
(PROFESSIONAL PERSONNEL)**

\_\_\_\_\_  
Issuance Date

**THE VICE PRESIDENT**  
National Power Corporation  
Mindanao Generation  
Maria Cristina, Iligan City

Dear Sir:

I am (Name of Nominee) a Licensed \_\_\_\_\_ Engineer with  
Professional License No. \_\_\_\_\_ Issued on \_\_\_\_\_ at \_\_\_\_\_  
(date of issuance) (place  
of issuance)

I hereby certify that (Name of Bidder) Has engaged my services as  
(Designation) for the (Name of Project), if awarded to it.

As (Designation), I supervised the following completed projects  
Similar to the contract under bidding:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At present, I am supervising the following projects:

NAME OF PROJECT	OWNER	COST	DATE COMPLETED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

In case of my separation for any reason whatsoever from the above-mentioned Contractor, I shall notify the National Power Corporation at least twenty one (21) days before the effective date of separation.

As (Designation), I know I will have to stay in the job site all the time to supervise and manage the Contract works to the best of my ability, and aware that I am authorized to handle only one (1) contract at a time.

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).*

Standard Form No: NPCMGNSF-INFR-06a  
Page 2 of 2

I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of (Designation) therefore, if the contract is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as (Designation) in any future National Power Corporation bidding or employment with any Contractor doing business with the National Power Corporation.

\_\_\_\_\_  
(Name and Signature)  
AFFIANT

REPUBLIC OF THE PHILIPPINES )  
City/Municipality of \_\_\_\_\_)S.S.

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_, day of \_\_\_\_20\_\_\_\_, affiant exhibiting to me his/her Community Tax Certificate No. \_\_\_\_\_ issued on \_\_\_\_\_ at \_\_\_\_\_, Philippines.

Notary Public  
Until 31 December 20 \_\_\_\_\_  
PTR No. \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).*



Standard Form No: NPCMGNSF-INFR-06b  
Page 2 of 2

I do not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the post of Safety and Health Practitioner, if the contract is awarded to him since I understand that to do so will be a sufficient ground for my disqualification as Safety and Health Practitioner in any future National Power Corporation bidding or employment with any Contractor doing business with the National Power Corporation.

\_\_\_\_\_  
(Name and Signature)  
AFFIANT

REPUBLIC OF THE PHILIPPINES )  
City/Municipality of \_\_\_\_\_)S.S.

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_, day of \_\_\_\_\_, 20\_\_\_\_,  
affiant exhibiting to me his/her Community Tax Certificate No. \_\_\_\_\_ issued on  
\_\_\_\_\_ at \_\_\_\_\_, Philippines.

Notary Public  
Until 31 December 20 \_\_\_\_\_  
PTR No. \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract)*

Standard Form No: NPCMGNSF-INFR-07

**KEY PERSONNEL  
(FORMAT OF BIO-DATA)**

Give the detailed information of the following personnel who are scheduled to be assigned as full-time staff for the project. Fill up a form for each person.

1. Name : \_\_\_\_\_
2. Date of Birth : \_\_\_\_\_
3. Nationality : \_\_\_\_\_
4. Education and Degrees : \_\_\_\_\_
5. Specialty : \_\_\_\_\_
6. Registration : \_\_\_\_\_
7. Length of Service with the Firm : \_\_\_\_\_ Year  
 from \_\_\_\_\_ (months) \_\_\_\_\_ (year)  
 To \_\_\_\_\_ (months) \_\_\_\_\_ (year)
8. Years of Experience : \_\_\_\_\_

9. If item 7 is less than the required number of years stated in BDS Section III- ITB Clause 10.4, give name and length of service with previous employers to satisfy the required number of years of experience within the last ten (10) years (attached additional sheet/s), if necessary:

<u>Name and Address of Employer</u>	<u>Length of Service</u>
_____	Year(s) from _____ to _____
_____	Year(s) from _____ to _____
_____	Year(s) from _____ to _____

**10. Experience:**

This should cover the past ten (10) years of experience. (Attached as many pages as necessary to show involvement of personnel in projects using the format below).

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (viz. Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).*

SECTION IX- CHECKLIST OF TECHNICAL & FINANCIAL DOCUMENTS

Standard Form No: NPCMGNSF-INFR-07  
Page 2 of 2

- 1. Name : \_\_\_\_\_
- 2. Name and Address of Owner : \_\_\_\_\_
- 3. Name and Address of the Owner's Engineer (Consultant) : \_\_\_\_\_
- 4. Indicate the Features of Project (particulars of the project components and any other particular interest connected with the project) : \_\_\_\_\_
- 5. Contract Amount Expressed in Philippine Currency : \_\_\_\_\_
- 6. Position : \_\_\_\_\_
- 7. Structures for which the employee was responsible : \_\_\_\_\_
- 8. Assignment Period : from \_\_\_\_\_ (months) \_\_\_\_\_ (years)  
to \_\_\_\_\_ (months) \_\_\_\_\_ (years)

\_\_\_\_\_  
Name and Signature of  
Employee

It is hereby certified that the above personnel can be assigned to this project, if the contract is awarded to our company.

\_\_\_\_\_  
(Place and Date)

\_\_\_\_\_  
(The Authorized Representative)

*One of the requirements from the bidder to be included in its Technical Envelope is a list of contractor's key personnel (wz Project Manager, Project Engineer, Safety & Health Practitioner, Foremen, etc.), to be assigned to the contract to be bid, with their complete qualification and experience data (including the key personnel's signed written commitment to work for the project once awarded the contract).*

BID DOCUMENTS

NAME OF PROJECT : SLOPE PROTECTION AND DRAINAGE

SYSTEM AT AGUS 7 SPILLWAY FUENTES, ILIGAN CITY

SECTION IX- CHECKLIST OF TECHNICAL &

PR NO./REF NO: MG-ATT22-015/INFRA2022-AG7-011

FINANCIAL DOCUMENTS

Standard Form Number : NPCMGNSF-INFR - 08

**LIST OF EQUIPMENT, OWNED OR LEASED AND/OR UNDER PURCHASE AGREEMENTS**  
*(Based on the Minimum Equipment Required in the Bidding Documents)*

Business Name : \_\_\_\_\_

Business Address : \_\_\_\_\_

Description	Model/Year	Capacity/ Performance / Size	Plate No.	Motor No. / Body No.
<b>A. Owned</b>				
i.				
ii.				
iii.				
iv.				
<b>B. Leased</b>				
i.				
ii.				
iii.				
iv.				
<b>C. Under Purchased Agreements</b>				
i.				
ii.				
iii.				
iv.				

Submitted by: \_\_\_\_\_  
(Printed name & Signature)

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

*One of the requirements from the bidder to be included in its Technical Envelope is the list of its equipment units pledged for the contract which are owned (supported by proof/s of ownership), leased, and/or under purchase agreements (with corresponding engine numbers, availability of equipment from the equipment lessor/vendor for the duration of the project).*

Standard Form No: NPCMGNSF-INFR-09a

## Omnibus Sworn Statement (Revised)

### (SOLE PROPRIETORSHIP)

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. I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];
2. As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the National Power Corporation-Mindanao Generation, as shown in the attached duly notarized Special Power of Attorney;
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. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
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;

Standard Form No: NPCMGNSF-INFR-09a

Page 2 of 2

- 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]*

Standard Form No: NPCMGNSF-INFR-09b

**Omnibus Sworn Statement (Revised)**  
PARTNERSHIP/COOP/CORP/JOINT VENTURE

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. I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];
2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the National Power Corporation-Mindanao Generation, 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. *[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

*[If a corporation or joint venture:]* None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

Standard Form No: NPCMGNSF-INFR-09b

Page 2 of 2

- 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]*

Standard Form No: NPCMGNSF-INFR-10

**NET FINANCIAL CONTRACTING CAPACITY (NFCC)**

A. Summary of the Bidder's/Contractor's assets and liabilities on the basis of the income tax return and audited financial statement for the immediately preceding calendar year are:

		Year 20__
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

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

NFCC – P \_\_\_\_\_

Herewith attached is certified true copy of the audited financial statement, stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding calendar year.

Submitted by:

\_\_\_\_\_  
Name of Bidder/Contractor

\_\_\_\_\_  
Signature of Authorized Representative

Date: \_\_\_\_\_

Standard Form No: NPCMGNSF-INFRA-11

**JOINT VENTURE AGREEMENT**

**KNOW ALL MEN BY THESE PRESENTS:**

That this JOINT VENTURE AGREEMENT is entered in to by and between: \_\_\_\_\_, of legal age, (civil status), authorized representative of \_\_\_\_\_ and a resident of \_\_\_\_\_.

- and -

\_\_\_\_\_ of legal age, (civil status), authorized representative of \_\_\_\_\_ and a resident of \_\_\_\_\_.

That both parties agree to join together their capital, manpower, equipment, and other resources and efforts to enable the Joint Venture to participate in the Bidding and Undertaking of the hereunder stated Contract of the **National Power Corporation**.

**NAME OF FIRM**

**CAPITAL CONTRIBUTION**

That the capital contribution of each member firm:

**NAME OF FIRM**

**CAPITAL CONTRIBUTION**

- |   |     |
|---|-----|
| 1 | BUD |
| 2 | DHD |

That both parties agree to be jointly and severally liable for their participation in the Bidding and Undertaking of the said contract.

That both parties agree that \_\_\_\_\_ and/or \_\_\_\_\_ shall be the Official Representative/s of the Joint Venture, and are granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the Bidding and Undertaking of the said contract, as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

That this Joint Venture Agreement shall remain in effect only for the above stated Contract until terminated by both parties.

_____ Name & Signature of Authorized Representative _____ Official Designation _____ Name of Firm	_____ Name & Signature of Authorized Representative _____ Official Designation _____ Name of Firm
--	--

**Witnesses**

*If the bidder is a joint venture, one of the requirements is the submission of a valid joint venture agreement.*

Standard Form No: NPCMGNSF-INFR-11

Page 2 of 2

**ACKNOWLEDGEMENT**

BEFORE ME, a Notary Public for and in \_\_\_\_\_, Philippines, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared \_\_\_\_\_, authorized representative, of \_\_\_\_\_ with Community Tax Certificate No. \_\_\_\_\_, issued at \_\_\_\_\_, on \_\_\_\_\_, AND \_\_\_\_\_ authorized representative, of \_\_\_\_\_ with Community Tax Certificate No. \_\_\_\_\_, issued at \_\_\_\_\_, on \_\_\_\_\_ known to me to be the same person who executed the foregoing instrument consisting of two (2) pages, including the page whereon the acknowledgements are written, all pages signed by both parties and their instrumental witnesses and they acknowledged before me that the same are their free and voluntary acts and deeds and that of the Corporations they represents.

WITNESS MY HAND AND NOTARIAL SEAL, at the place and on the date first above written.

Notary Public  
Until 31 December 20 \_\_\_\_\_  
PTR No \_\_\_\_\_  
Issued at: \_\_\_\_\_  
Issued on: \_\_\_\_\_  
TIN No. \_\_\_\_\_

Doc. No. \_\_\_\_\_  
Page No. \_\_\_\_\_  
Book No. \_\_\_\_\_  
Series of \_\_\_\_\_

*If the bidder is a joint venture, one of the requirements is the submission of a valid joint venture agreement.*

Standard Form No: NPCMGNSF-INFR-12

## Bid Form for the Procurement of Infrastructure Projects

### BID FORM

Date : \_\_\_\_\_

Project Identification No. : \_\_\_\_\_

To: **The Vice President**  
National Power Corporation  
Mindanao Generation  
Maria Cristina, Iligan City

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: [insert name of contract];
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];
- d. The discounts offered and the methodology for their application are: [insert information];
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines<sup>1</sup> for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

<sup>1</sup> currently based on GPPB Resolution No. 09-2020

Standard Form No: NPCMGNSF-INFR-12

Page 2 of 2

- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the National Power Corporation-Mindanao Generation.
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_



Standard Form No: NPCMGNSF-INFR-14

**SUMMARY SHEETS OF MATERIALS PRICES, LABOR RATES AND  
EQUIPMENT RENTAL RATES**

Name of Bidder: \_\_\_\_\_

**I. Unit Prices of Materials**

Materials Description	Unit	Unit Price
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**II. Manpower Hourly Rates**

Designation	Rate/Hr.
-------------	----------

**III. Equipment Hourly Rental Rates**

Equipment Description	Rental Rate/Hr.
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\_\_\_\_\_  
Name, Signature of Authorized Representative

\_\_\_\_\_  
Designation

**Performance Securing Declaration (Revised)**

*[If used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]*

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

**PERFORMANCE SECURING DECLARATION**

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
  - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
    - i. Procuring Entity has no claims filed against the contract awardee;
    - ii. It has no claims for labor and materials filed against the contractor; and
    - iii. Other terms of the contract; or
  - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

**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]*

## Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

*[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]*

### 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 Contractor]* (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute *[name and identification number of contract]* (hereinafter called "the Works") and the Entity has accepted the Bid for *[contract price in words and figures in specified currency]* by the Contractor for the execution and completion of such Works 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 as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:
  - a. Philippine Bidding Documents (PBDs);
    - i. Drawings/Plans;
    - ii. Specifications;
    - iii. Bill of Quantities;
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents 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;

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

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

*[Insert Name and Signature]*

*[Insert Name and Signature]*

*[Insert Signatory's Legal Capacity]*

*[Insert Signatory's Legal Capacity]*

for:

for:

*[Insert Procuring Entity]*

*[Insert Name of Supplier]*

**Acknowledgment**

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

