

# REPUBLIC OF THE PHILIPPINES NATIONAL POWER CORPORATION

(Pambansang Korporasyon sa Elektrisidad)

#### **BID DOCUMENTS**

Name of Project: SUPPLY, DELIVERY, INSTALLATION, TEST AND

**COMMISSIONING OF STOPLOG AT DWSG NO. 1** 

**FOR AGUS 5 HEP** 

Location : Agus 5, HEP, Barangay Ditucalan, Iligan City

PR No. : MG-A5M22-033

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# **SECTION I**

# **INVITATION TO BID**



#### National Power Corporation INVITATION TO BID PUBLIC BIDDING – BCS 2023-0068

The NATIONAL POWER CORPORATION (NPC), through its approved Corporate Budget
of CY 2023 intends to apply the sum of (<u>Please see schedule below</u>) being the Approved Budget
for the Contract (ABC) to payments under the contract. Bids received in excess of the ABC shall be
automatically rejected at Bid opening.

61-BAT23-001 /		Conference	Submission / Opening	ABC/ Amt. of Bid Docs
PB230201-JL00013 (PB2) Renovation of Powerhouse and acilities Improvements for Batar Diesel Power Plant  PCAB License: License Category D - General Building" and registration lassification of at least "Small B - Building and Industrial Plant"	Building and/or repair of building and other structures	20 February 2023 9:30 A.M	06 March 2023 9:30 A.M	<b>P</b> 2,325,000.00 / <b>P</b> 5,000.00
63-B1923-002 / 63-B0823-005 / 6B230306-HG Supply and Delivery of GPE (Oi Spill Boom Containment Boom & Barrier) for Power Barge 119 & Power Barge 108	Spill Equipment or	20 February 2023 9:30 A.M	06 March 2023 9:30 A.M	₱ 2,970,000.00 / ₱ 5,000.00
MG-A5M22-033 / PB230306-HG Supply, Delivery, Installation, Test and Commissioning of Stoplog at a WSG No. 1 for Agus 5 HEP  PCAB License: License Category of at least "Category B — Category of at least "Medium a — Building" and Industrial Clant" or "Medium A — Structural Category of "Medium A — Structural A — Structural Category of "Medium A — Structural A —	Structural Works of Spillway Gates or Stoplogs of Hydroelectric Plants	20 February 2023 9:30 A.M	06 March 2023 9:30 A.M	₱ 41,000,000.00 / ₱ 25,000.00

2. The NPC now invites bids for Items listed above. Delivery of the Goods is required (see table below) specified in the Technical Specifications. Bidders should have completed, within (see table below) from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. (Instruction to Bidders).

PR No/s. / PB Ref No/s.	Delivery Period / Contract Duration	Relevant Period of SLCC reckoned from the date of submission & receipt of bids
S1-BAT23-001	One Hundred Twenty (120) Calendar Days	-
S3-B1923-002 / S3-B0823-005	One Hundred Twenty (120) Calendar Days	Ten (10) Years
MG-A5M22-033	Three Hundred (300) Calendar Days	<u>-</u>

 Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

- 4. Prospective Bidders may obtain further information from National Power Corporation, Bids and Contracts Services Division and inspect the Bidding Documents at the address given below during office hours (8:00AM to 5:00PM), Monday to Friday.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders from the given address and website(s) and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB. <u>Bidding fee may be refunded in accordance with the guidelines based on the grounds provided under Section 41 of R.A. 9184 and its Revised IRR.</u>
- 6. The National Power Corporation will hold Pre-Bid Conference (see table above) and/or through video conferencing or webcasting which shall be open to prospective bidders.

Only registered bidder/s shall be allowed to participate for the conduct of virtual pre-bid conference. **Unregistered bidders** may attend the Pre-Bid Conference at the Kañao Room, NPC subject to the following:

- a. Only a maximum of two (2) representatives from each bidder / company shall be allowed to participate during the virtual pre-bid conference.
- b. A "No Face mask / No Entry" policy shall be implemented in the NPC premises. Face mask shall be 3-ply surgical or KN95 mask type.
- c. The requirements herein stated including the medium of submission shall be subject to GPPB Resolution No. 09-2020 dated 07 May 2020
- d. The Guidelines on the Implementation of Early Procurement Activities (EPA) shall be subject to GPPB Circular No. 06-2019 dated 17 July 2019
- 7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below; (ii) online or electronic submission before the specified time stated in the table above for opening of bids. Late bids shall not be accepted.
- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

- 9. Bid opening shall be on Kañao Function Room, NPC Head Office, Diliman, Quezon City and/or via online platform to be announced by NPC. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The National Power Corporation 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 IRR of R.A. No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

Bids and Contracts Services Division, Logistics Department

BIR Road cor. Quezon Avenue

Diliman, Quezon City

Tel Nos.: 8924-5211 and 8921-3541 local 5564/5211

Fax No.: 8922-1622

Email: bcsd@napocor.gov.ph /

12. You may visit the following websites:

For downloading of Bidding Documents: https://www.napocor.gov.ph/bcsd/bids.php

RÉNE B. BARRUELA

Vice President, Corporate Affairs Group and Chairman, Bids and Awards Committee

# **SECTION II**

# **INSTRUCTION TO BIDDERS**

#### **SECTION II - INSTRUCTIONS TO BIDDERS**

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#### **SECTION II - INSTRUCTIONS TO BIDDERS**

#### 1. Scope of Bid

NPC invites Bids for the SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP, with Project Identification Number PR NO.: MG-A5M22-033.

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

#### 2. Funding Information

The GOP through the source of funding as indicated below for CY 2022 in the amount of FORTY ONE MILLION PESOS (P 41,000,000.00). The source of funding is the proposed Corporate Operating Budget of the National Power Corporation (NPC).

#### 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.
- 7.1. The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in ITB Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

#### 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 Form NPCSF-INFR-01 Checklist of Technical and Financial Documents, Section VIII Bidding Forms.
- 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 Form NPCSF-INFR-01 Checklist of Technical and Financial Documents, Section VIII Bidding Forms.
- 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 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 date of opening of bids. 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 15 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**

## **SECTION III - BID DATA SHEET**

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to projects involving structural works of spillway gates or stoplogs of Hydroelectric plants.		
	The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.		
	It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.		
7.1	Only a maximum of fifty percent (50%) of the Works may be subcontracted. All Subcontractors must be approved by NPC.		
10.1	The list of on-going contracts (Form No. NPCSF-INFR-02) shall be supported by the following documents for each on-going contract to be submitted during Post-Qualification:		
	Contract/Purchase Order and/or Notice of Award		
	Certification coming from the project owner/client that the performance is satisfactory as of the bidding date.		
	The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.		
	The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid (Form No. NPCSF-INFR-03) shall be supported by the following documents to be submitted during Bid Opening:		
	1. Contract/Purchase Order		
	<ol> <li>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 Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document (Ex. Official Receipt or Sales Invoice) shall be submitted.</li> </ol>		
10.3	The required License issued by the Philippine Contractors Accreditation Board (PCAB): License Category of at least "CATEGORY B - GENERAL BUILDING" and registration classification of at least "MEDIUM A - BUILDING & INDUSTRIAL PLANT" or "MEDIUM A - STRUCTURAL STEEL WORKS"		

#### 10.4 The list of key personnel shall include the following minimum requirements:

#### a. One (1) Project Engineer

Registered Civil Engineer who had supervised at least a project similar in nature as to the type and cost of the proposed project including dams and waterways within the last 10 years. Must have at least three (3) years professional experience as Dams and Waterways expert on similar project

#### b. One (1) Mechanical Engineer

Professional Mechanical Engineer (PME) with at least five (5) years experience

#### c. One (1) Materials Engineer

Registered Civil Engineer with valid accreditation from the Department of Public Works and Highways (DPWH) as Materials Engineer I

#### d. Two (2) Licensed Commercial Scuba Divers

Licensed Commercial Scuba Divers with PADI Certifications or equivalent and with at least three (3) years experience

#### e. Two (2) Welders

NC II with at least three (3) years experience in welding/cutting

#### f. One (1) Safety Officer 2

Construction Safety Officer who has completed at least forty (40) hours of Construction Safety and Health Training (COSH) from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE)

Valid Professional Regulations Commission (PRC) license for professional personnel, Construction Safety and Health Training Certificate from OSHC/STOs accredited by DOLE for the Safety Officer, certificate of accreditation including ID card issued by DPWH for Materials Engineer, shall be submitted and included as an attachment in the Standard Form NPCSF-INFR-09: List of Key Personnel Proposed to be Assign to the Contract.

The above key personnel must either be employed by the Bidder or contracted by the Bidder to be employed for the contract to be bid.



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10.5	The list of construction equipment (owned or leased) shall include the following minimum requirements:		
	a. Portable Hydraulic Power Unit - 1 unit		
1	b. Automatic Gas Cutter Machine - 2 units		
	c. Air Compressor 260CFM - 1 unit		
	d. Service Vehicle - 1 unit		
	e. Boom Truck - 1 unit		
1	f. Mobile Crane (25 Tonner) - 1 unit		
1	g Welding Machine (at least 300A) - 2 units		
	h. Hydraulic Jack (15 Tons Capacity) - 2 units		
	i. Chain Block (15 Tons Capacity) - 2 units		
10.6	Bidders shall also submit the following requirements in their first envelope, Eligibility and Technical Component of their bid:		
	Complete eligibility documents of the proposed sub-contractor, if any		
	Documents to be submitted with the bid/proposal for evaluation as specified in Clause CW-9.0 of Section VI – Technical Specifications		
10.7	Any single bidder/s who already procured/secured the bidding documents but want to avail the Joint Venture Agreement (JVA) shall inform the BAC in writing prior to the bid opening for records and documentation purposes.		
12	No further instructions		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:		
	The amount of not less than 2% of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;		
	2. The amount of not less than 5% of ABC if bid security is in Surety Bond.		
19.2	Partial Bid is not allowed		
20	a. Contract/Purchase Order and/or Notice of Award for the contracts stated in the List of all Ongoing Government & Private Contracts Including Contracts Awarded but not yet Started (NPCSF-INFR-02);		
	<ul> <li>Certification coming from the project owner/client that the performance is satisfactory as of the bidding date for all ongoing contracts stated in form NPCSF-INFR-02.</li> </ul>		
	c. The licenses and permits relevant to the Project and the corresponding law requiring it as specified in the Technical Specifications, if any.		
21	The following documents shall form part of the contract:		
	1. Notice to Proceed		
	2. Construction schedule and S-curve		

- 3. Manpower Schedule
- 4. Construction Methods
- 5. Equipment Utilization Schedule
- Construction safety and health program of the contractor duly approved by the Bureau of Working Condition (BWC) of the Department of Labor and Employment (DOLE) or proof of submission to BWC
- 7. PERT/CPM.



# **SECTION IV**

# GENERAL CONDITIONS OF CONTRACT



#### **SECTION IV - GENERAL CONDITIONS OF CONTRACT**

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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

- 3.1 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.
  - 3.2 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

#### **SECTION V - SPECIAL CONDITIONS OF CONTRACT**

GCC Clause	
2	Sectional completion is not specified.
4	It shall also be the obligation and responsibility of the Contractor to carry out the Works properly and in accordance with this Contract, including but not limited to the following conditions:
	a. The Contractor shall conduct the Works with due regard to safety and health in accordance with its Construction Safety and Health Program (CSHP) duly approved by the Department of Labor & Employment (DOLE) and in compliance with the DOLE Department Order No. 13 – The Guidelines Governing Occupational Safety and Health in the Construction Industry.
	Failure to comply with the approved CSHP will be considered as non-compliance with the Contract and shall result to the imposition of Section 19, Violation and Penalties of the DOLE Department Order No. 13 and any appropriate sanctions such as, but not limited to:
	<ol> <li>Suspend the work until the Contractor complies with the approved CSHP with the condition that the work resumption will not incur additional cost to the Corporation;</li> </ol>
	Suspend payment of the portion of work under question;
	<ol> <li>Correct the situation by employing 3<sup>rd</sup> party and charge all expenses incurred to the Contractor's collectibles/securities; and</li> </ol>
	<ol> <li>Report the condition to the Bureau of Working Conditions of the DOLE for their appropriate action.</li> </ol>
	b. The Contractor shall be responsible for the strict compliance with the provision of the Philippine Laws affecting labor and operation of Work under the contract and shall be responsible for the payment of all indemnities arising out of any labor accident which may occur in the execution of the Works and for which he may be responsible under Republic Act 3428, as amended, known as the Workmen's Compensation Law.
	c. The Contractor is obliged to exercise due care so as not to endanger life and property in the vicinity of the Works where he operates in connection with this Contract. He shall be liable for all damages incurred in any manner by acts of negligence of his own, or his agents, employees, or workmen.
	d. It is the responsibility of the Contractor for the strict compliance with the requirements of the Philippine Clean Air Act of 1999 (R.A. 8749) and Philippine Clean Water Act of 2004 (R.A. 9275). The Contractor shall be liable for any damages/destructions to the environment including penalties that will be imposed by the Department of Environment and Natural Resources (DENR) arising from non- compliance of the requirements thereof.

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	e. The Contractor shall be responsible for the strict compliance with the requirements of the Environmental Compliance Certificate (ECC) issued for this project (if any) and DENR Administrative Order No. 26. He shall be liable for any damages/destructions to the environment including penalties that will be imposed by the DENR arising from non-compliance thereof, in any manner by his acts or negligence, or by his agents, employees, or workmen in the execution of the Works. The Contractor may employ a Pollution Control Officer accredited with the DENR for the duration of the project, if so required by the DENR Administrative Order No. 26		
	f. It shall be the Contractor's responsibility for the correctness, accuracy and quality of works. NPC's approval does not relieve his contractual obligation and responsibility under this contract.		
	g. Payment of all forms of taxes, such as value added tax (VAT) including municipal licenses and permits, and others that may be imposed by the Philippine Government or any of its agencies and political subdivisions in connection with the Contract shall be for the account of the Contractor.		
	h. In general, the Contractor is totally responsible for the execution of the Works and therefore, takes upon himself all the technical, legal and economic risks and all obligations which could arise therefrom or connected therewith. The overall responsibility of the Contractor includes the responsibility for actions or omissions of his own personnel as well as the personnel of the sub-contractors.		
4.1	NPC shall give access to the Site for the Contractor to commence and proceed with the works on the start date. The access to the site referred herein shall not be exclusive to the Contractor but only to enable him to execute the Work.		
5	The following must be indicated in the performance bond to be posted by the Contractor:		
	<ul> <li>i. Company Name</li> <li>ii. Correct amount of the Bond</li> <li>iii. Contract/Purchase Order Reference Number</li> <li>iv. Purpose of the Bond:</li> <li>"To guarantee the faithful performance of the Principal's obligation to undertake (Contract/Purchase Order Description) in accordance with the terms and conditions of (Contract No. &amp; Schedule/Purchase Order No.) entered into by the parties."</li> </ul>		
	2. The bond shall remain valid and effective until the duration of the contract (should be specific date reckoned from the contract effectivity) plus sixty (60) days after NPC's acceptance of the last delivery/final acceptance of the project.		
	3. In case of surety bond, any extension of the contract duration or delivery period granted to the CONTRACTOR shall be considered as given, and any modification of the contract shall be considered as authorized, as if with the expressed consent of the surety, provided that such extension or modifications falls within the effective period of the said surety bond. However, in the event that the extension of		

	the contract duration or delivery schedule would be beyond the effective period of the surety bond first posted, it shall be the sole obligation of the CONTRACTOR to post an acceptable Performance Security within ten (10) calendar days after the contract duration/delivery period extension has been granted by NPC.  4. Other required conditions in addition to the standard policy terms issued by the Bonding Company:  i. 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;  ii. 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;			
	iii. 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.			
6	No site investigation report.			
7.2	In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.  In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures: Five (5) years.  In case of other structures, such as Bailey and wooden bridges, shallow wells, spring developments, and other similar structures: Two (2) years.			
10	No dayworks are applicable to the contract.			
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within Ten (10) calendar days of delivery of the Notice of Award/Letter of Acceptance.			
11.2	The period between Program of Work updates is Thirty (30) calendar days.  The amount to be withheld for late submission of an updated Program of Work is One percent (1%) of contract amount.			

12	During contract implementation, the Procuring Entity shall conduct Constructors Performance Evaluation in accordance with Section 12, Annex E of the Revised Implementing Rules and Regulation of R.A. 9184 using the NPC Constructors Performance Evaluation System (CPES) Guidelines.  CPES ratings shall be used for the following purposes: a) eligibility screening/post-qualification; b) awarding of contracts; c) project monitoring & control; d) issuance of Certificate of Completion; and in adopting measures to further improve performance of contractors in the prosecution of government projects.  Qualified Constructors Performance Evaluators (CPE) shall conduct project evaluation as follows:  (a) During Construction - Except for those projects with a duration of 90 calendar days and below which may be subjected to at least one (1) visit, all projects shall be subjected to a minimum of two (2) evaluations to be performed by the CPE. The number of evaluations beyond the prescribed minimum shall be determined by the CPEs-Implementing Unit based on the size, nature and complexity of the project and shall be subject to approval by the proper authorities within the agency. The first evaluation shall be performed when the project is at least thirty percent (30%) physically complete or as maybe required by the CPES-IU using the S-curve or other appropriate means to determine whether there is substantial work completed for evaluation.  (b) Upon Completion - only one evaluation shall be performed by the CPE right after the Project Implementation Group reports one
13	hundred percent (100%) completion of the project.  The maximum amount of advance payment is fifteen percent (15%) of the
	Contract Price and paid in lump sum.
14	No further instructions.
15.1	The date by which "as built" drawings and operating and maintenance manuals are required is within thirty (30) calendar days after completion of contract.
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 Five percent (5%) of contract amount.

# **SECTION VI**

# TECHNICAL SPECIFICATIONS PROJECT HIGHLIGHTS



## **SECTION VI - TECHNICAL SPECIFICATIONS**

## PH - PROJECT HIGHLIGHTS

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#### PH-1.0 PROJECT HIGHLIGHTS

#### PH-1.1 General

This section covers the general technical requirements for furnishing all supervision, labor, materials, supplies, tools and equipment in accordance with specifications contained herein and as shown on the accompanying drawings to complete the SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DIVERSION WEIR SPILLWAY GATE (DWSG) NO. 1 FOR AGUS 5 HEP.

The proposed stoplog structure at dwsg no.1 would serve as a contingency facility/equipment to address an emergency wherein one of the gates malfunctions while at a wide opening and cannot be closed. This would prevent water starvation of the generating units while the power plant is on operation and possible flooding along the downstream portion of the waterways.

The Contractor shall accept full responsibility for its work in the performance qualifications, specifications, documentation, reports, fabrication, corrosion protection, cleaning, shop testing, preparation for shipment, field testing, warranty provisions and compliance with the applicable codes and standards and the requirements of this specification.

The Contractor shall strictly observe the general requirements of this specification in conjunction with the specific requirements specified in the relevant specifications.

#### PH-1.2 Project Location

The project is located at Agus 5 HEP, Barangay Ditucalan, Iligan City.

#### PH-1.3 Scope of Work

The works and services to be performed under this Contract shall essentially consist of, but not limited to the following:

- Moving-in including furnishing, superintendence, construction, operation and maintenance of general construction facilities and moving-out thereof after completion and acceptance;
- 2. Design, furnish and fabricate stop log with equalizing valve including flat rubber seals and other components/accessories;
- Design, furnish and fabricate lifting beam with roller guide, and hook with self locking/ unlocking mechanism and other components/accessories;
- Design, furnish, fabricate and construct stoplog guide for side and center structural guide assembly including core boring works on spillway structure in preparation for the installation of stoplog guides and application of special epoxy for underwater grouting;
- 5. Furnish and apply of painting (anti-corrosive) including surface preparation for stoplog, guides and lifting beam (3coats);
- 6. Supply, install and test water level sensor;
- 7. Supply, install and test data logger;



- 8. Testing and commissioning;
- 9. All other work and services are required to complete the project.

#### PH-1.4 Contract Period

The Contractor shall complete the works as herein specified within Three hundred (300) calendar days. The contract period is inclusive of ten (10) unworkable days considered unfavorable for the execution of the works. The total contract duration shall be reckoned from the date of contract effectivity as specified in the **Notice to Proceed**.

#### PH-1.5 Contractor's Classification

The Contractor must have a valid Philippine Contractors Accreditation Board (PCAB) license Category of at least "Category B – General Building" and registration classification of at least "Medium A – Building & Industrial Plant" or "Medium A – Structural Steel Work"

The Contractor must have undertaken similar contracts and/or projects involving Structural of Spilling gates or stoplogs of Hydroelectric Plants.

#### PH-1.6 Minimum Required Personnel

For the duration of the contract, the Contractor shall have the following minimum required personnel assigned to the project:

a) One (1) Project Engineer

Registered Civil Engineer who had supervised at least a project similar in nature as to the type and cost of the proposed project within the last ten (10) years. Must have at least three (3) years professional experience as Dams and Waterways expert on similar project.

- b) One (1) Mechanical Engineer Professional Mechanical Engineer with at least five (5) years experience.
- c) One (1) Materials Engineer Registered Civil Engineer with valid accreditation from the Department of Public Works and Highways (DPWH) as Materials Engineer I.
- d) Two (2) Licensed Commercial Scuba Divers Licensed Commercial Scuba divers with PADI Certification or equivalent and with at least three (3) years experience.
- e) Two (2) Welder NC-II with at least three (3) years experience in welding/cutting.
- f) One (1) Safety Officer 2
  Construction Safety Officer who has completed at least forty (40) hours of
  Construction Safety and Health Training (COSH) from Occupational Safety
  and Health Center (OSHC) or Safety Training Organizations (STOs)
  accredited by the Department of Labor and Employment (DOLE).



Valid Professional Regulations Commission (PRC) license for professional personnel. Construction Safety and Health Training Certificate from OSHC/STOs accredited by DOLE for the Safety Officer, shall be submitted and included as an attachment in the Standard Form NPCSF-INFR-09 List of Key Personnel Proposed to be Assign to the Contract.

The above key personnel must either be employed by the Bidder or contracted by the Bidder to be employed for the contract to be bid.

#### PH-1.7 Minimum Required Construction Equipment

The list of construction equipment (owned or leased) shall include the following:

a.	Portable Hydraulic Power Unit	- 1 unit
	Automatic Gas Cutter Machine	- 2 units
C.	Air compressor 260 CFM	- 1 unit
d.	Service vehicle	- 1 unit
e.	Boom truck	- 1 unit
f.	Mobile crane (25 tonner)	- 1 unit
g.	Welding machine (at least 300A)	- 2 units
ĥ.	Hydraulic jack (15 tons capacity)	- 2 units
i.	Chain block (15 tons capacity)	- 2 units

# **SECTION VI**

# TECHNICAL SPECIFICATIONS

#### **SECTION VI – TECHNICAL SPECIFICATIONS**

#### CW - CIVIL WORKS

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#### TECHNICAL SPECIFICATIONS

#### CW - CIVIL WORKS

#### CW-1.0 GENERAL CONSTRUCTION FACILITIES

#### CW-1.1 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.

#### CW-1.2 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.

#### CW-1.3 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.

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.

#### CW-1.4 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. Whenever there is a possibility of contamination of the water supply for drinking and domestic purposes, chlorination or some other approved methods of sterilization shall be carried out. The installation and maintenance of these services shall be subject to the approval of the NPC.

#### CW-1.5 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.

#### CW-1.6 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.

#### CW-1.7 Construction Power

The Contractor 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.

#### CW-1.8 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.

#### CW-1.9 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.

#### CW-1.10 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.

#### CW-1.11 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.

#### CW-2.0 CARE OF WATER DURING CONSTRUCTION

#### CW-2.1 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 operations free from water coming from any source, including rain.

#### CW-2.2 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 areas 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.

#### CW-2.3 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 structures, 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.

#### CW-3.0 ENVIRONMENTAL REQUIREMENTS FOR CIVIL WORKS

#### CW-3.1 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.

#### CW-3.2 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 and Health Plan.
- 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 sediment 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 excavations 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 vegetative cover, especially cutting of existing trees; and to re-vegetate disturbed areas.
- h) Implement biological control measures such as maintenance of vegetation buffers (i.e. sodding of grass, planting of creeping vines, herbs, shrubs and trees) to shield streams/rivers from sedimentation; planting of vegetative cover over erodible surfaces; and planting of exposed sloping areas with shallow-rooted species like grasses, herbs or creepers.
- i) Locate fill slopes and spoil heaps away from drainage routes and properly remove/dispose the same as soon as practicable.

- j) Preserve or replace, if practicable, natural drainage patterns (when disturbed by civil works) with appropriate drainage channels.
- k) Convey oil-contaminated wastewater from workshops, garages, or gas filling stations through an oil trap (i.e. improvised oil-water separator) prior to discharge.
- Spray water, wherever and whenever necessary, to minimize dust generation.
- m) Provide PPEs and other safety provisions required by DOLE, for its project/site works.
- n) Take all necessary steps to prevent the pollution of groundwater and/or water bodies in the vicinity of the project site.

#### CW-3.3 Measurement and Payment

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

#### CW-4.0 STRUCTURAL STEEL

#### CW-4.1 General

This section covers the fabrication, erection, and shop painting of structural steel in accordance with the AISC "Manual of Steel Construction" referred to herein. In the AISC "Manual of Steel Construction" referred to herein, the Specification for Design, Fabrication, and Erection of Structural Steel for Buildings," and "Structural Joints using A325 or A490 Bolts" shall be considered a part thereto.

#### CW-4.1.1 Submittals

Shop Drawings of all structural steel in five (5) copies for approval prior to fabrication of structural steel with complete information necessary for the fabrication and erection of the component parts of the structure including the location, type and size of all bolts and welds, member sizes and lengths, camber & connector details, blocks, copes, and cuts. Include all welds by standard welding symbols.

<u>Erection Plan</u> consists of descriptive data to illustrate the structure steel erection procedure including the sequence of erection and temporary shoring and bracing, and written description of the detailed sequence of all welding, including each welding procedure to be performed.

<u>Certificates of Conformance for the following:</u>

- Bolts, Nuts and Washers
- · Welding Electrodes and Rods
- Paint
- Steel



#### Certified Test Reports

<u>Chemical Analysis and Tensile Strength Test</u> of structural steel in accordance to ASTM A53.

For high strength bolts and nuts, the Contractor shall also submit chemical analysis, including tensile strength and hardness tests as required by ASTM A325.

#### CW-4.1.2 Delivery and Storage

All materials shall be handled, shipped and stored in a manner that will prevent distortion or other damages. Materials shall be stored in a clean and properly drained location and out of contact with the ground. Damaged materials shall be replaced or, when permitted by NPC, may be repaired in an approved manner at no additional cost to NPC.

#### CW-4.2 Materials

All the materials shall be of the best quality of their kind, well graded and within the allowable distortions. They shall be free from flakes, corrosion, scale of fragments that could reduce the resistance and durability or injure the external appearance.

Except as modified herein, blast clean surfaces in accordance with SSPC SP6. Wash clean surfaces that become contaminated with rust, dirt, oil, grease or other contaminants with solvents until thoroughly clean. Ensure that steel to be embedded in concrete and surfaces when assembled, are free from rust, grease, dirt and other foreign matter.

#### CW-4.2.1 Steel

Materials shall conform to the respective specifications specified herein. Materials not otherwise specified herein shall conform to the AISC "Manual of Steel Construction".

Structural Steel:

ASTM A36

Steel Pipe:

ASTM A53, Type E or S, Grade B,

ASTM A501

Steel W-Shape Piles

ASTM A328

(Soldier Piles):

#### CW-4.2.2 Bolts, Nuts and Washers:

All bolts, nuts and washers shall be of hot-dip galvanized steel, in accordance with the following:

Bolts:

ASTM A307, Grade C or ASTM A36

for Anchor Bolts; ASTM A325 for

Fastening Bolts

Nuts:

ASTM A563, Grade A, heavy hex

style, except nuts less than 38mm

may be provided in hex style

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Washers:

ANSI B18.22.1, Type B

#### CW-4.2.3 Accessories:

Welding electrodes and steel structural members shall use:

Rods

E70XX electrodes

Non-shrink Grout

ASTM C827, non-metallic

#### CW-4.3 Execution

#### CW-4.3.1 Fabrication

Structural steel fabrication shall be in accordance with the applicable provisions of the Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings as set forth in the AISC "Manual of Steel Construction".

#### CW-4.3.2 Welding of Structural Steel Work:

All welding works shall be as indicated in the drawings and shall conform to AWS D1.1 - 77 "Structural Welding Code". Unless specified on the drawings, fillet welds shall be a minimum of 5 mm (3/16") and welding electrodes shall be with a tensile strength of 485 MPa.

All welding works shall be executed by the AWS D1.1 qualified welders, welding operators and trackers, whose workmanship shall be subject to the approval of NPC.

#### CW-4.3.3 Shop Painting

Except as otherwise specified, shop prime surfaces of all structural steel, except steel to be embedded in concrete or mortar. Surfaces to be welded shall not be coated within 12 mm from the specified top of the weld prior to welding. Insure that the surfaces are thoroughly dry and clean when the paint is applied. Do not paint on wet weather except under cover. Do not apply paint to steel, which is at a temperature that will cause blistering or porosity, or will otherwise be detrimental to the life of the paint. Apply paint in a workmanlike manner, and coat all joints and crevices thoroughly. Prior to assembly, paint all surfaces that will be concealed or inaccessible after assembly.

Shop prime coat surfaces as soon as possible after cleaning. Apply one coat of inorganic zinc to a minimum dry film thickness of 100 microns.

• Field painting: When the erection work is complete, the heads of field bolts, all welds and any surface from which the shop coat of paint has become worn off or has otherwise become defective, shall be cleaned and thoroughly covered with one coat of shop coat paint. When the paint applied for touching up bolt heads and abraded surfaces has become thoroughly dry, apply two field coats of marine epoxy paint subject to the approval of NPC.



 Marking: Prior to erection, members shall be provided with a painted erection mark. In addition, connecting parts assembled in the shop for remaining holes in field connections shall be matched marked with scratch and notch marks. Do not locate erection markings on areas to be welded. Do not locate erection markings in areas that will decrease member strength or cause stress concentrations.

#### CW-4.3.4 Erection

Except as modified herein, erect steel in accordance with the AISC "Manual of Steel Construction". Where parts cannot be assembled or fitted properly as a result of errors in fabrication or of deformation due to handling or transportation, report such condition immediately to the NPC's Representative and obtain approval there from for the methods of correction for straightening, including members of steel conforming to ASTM A514.

Drain Steel work properly; fill pockets in structures exposed to the weather with an approved waterproof material.

Provide safety belts and lines for workmen aloft on high structures unless safe working platforms or safety nets are provided.

When calibrated wrenches are used for tightening bolts, calibrate them at least one each working day using not less than three typical bolts of each diameter. Do not use impact torque wrenches to tighten anchor bolts set in concrete.

Connections: Connections shall be executed as shown on drawing. In case, connections are not detailed, it shall be designed in accordance with AISC "Manual of Steel Construction". Build connections into the existing work. Punch, sub-punch and ream, or drill bolt holes.

Tolerances: Structural steel shall be furnished and installed to the lines and levels as shown on the drawings.

Any structure that does not conform shall be repaired, removed and/or erected anew by the Contractor at no additional cost to NPC.

Tolerances on structural steel shall be in accordance with the "Code of Standard Practice" of the AISC "Manual of Steel Construction".

#### CW-4.3.5 Tests and Inspections

<u>Visual Inspection of Welding</u>: After the welding is completed, hand or power wires brush welds, thoroughly clean them before the inspector makes the check inspection. Inspect welds with magnifiers under strong, adequate light for surface cracking, porosity, and slag inclusions; excessive roughness; unfilled craters; gas pockets; undercuts; overlaps; size and insufficient throat and concavity. Inspect the preparation of groove welds for adequate throat opening and for snug positioning of backup bars.

Non-Destructive Testing: In accordance with AWS D1.1 Twenty-five percent (25%) of the total number of joints, as selected by the NPC, shall be tested. If more than 20 percent of welds contain defects identified by testing, then all welds shall be tested by radiographic or ultrasonic testing, and to be



approved by the NPC. When all welds made are required to be tested, magnetic particle testing shall be used only in areas inaccessible to either radiographic or ultrasonic testing. Retest defective areas after repair.

#### CW-4.4 Measurement and Payment

No separate measurement and payment will be made for the Structural Steel. The entire cost thereof shall be included in the various pay items in the Bill of Quantities.

#### CW-5.0 UNDER WATER GROUTING

#### CW-5.1 Scope

This specification covers the requirements for the furnishing and installation of 2 component concrete epoxy grout unless shown otherwise on the design drawings.

#### CW-5.2 Physical Properties

**Grouting Epoxy** to be used shall be applicable for water grouting with high mechanical and adhesive strength.

The full curing product at seven (7) days shall have the following properties:

Compressive Strength = (12500 Psi) 86.2Mpa

Tensile Strength = (5000 Psi) 34.5 Mpa

Flexural Strength = (9000 Psi) 62.0 Mpa

Bond Strength (Slant Shear Test) = (5000 Psi) 34.5 Mpa

#### CW-5.3 Delivery, Storage and Handling

All materials shall be delivered to the jobsite in their original, unopened packages, clearly labeled with the manufacturer's identification, printed instruction and batch code

Store and condition the specified product in accordance with the appropriate product data sheet.

#### CW-5.5 Submittals

The Contractor shall submit copies of brochures/specifications for NPC's approval.

#### CW-5.6 Measurement and Payment

No separate measurement and payment will be made for underwater grouting. The entire cost thereof shall be included in the various pay items in the Bill of Quantities.



#### CW-6.0 PAINTING REQUIREMENTS

#### CW-6.1 General

The steel structure and other surfaces shall be painted in accordance with first class standard practices suitable for the purpose.

All paints and shop primer to be used shall be of standard types of a well-known manufacturer subject to the approval of NPC.

#### CW-6.2 Surface Preparation

Prior to painting all weld spatter, mill scale, burrs, rust, loose particles, and flux shall be removed. Grinding and deburring shall be performed with a wheel that will assure a clearly cut surface.

Blast cleaning with iron-free sand or grit shall be used. The grit shall be new and unused. Surface preparation of external surface of steel that will be carried-out at the site shall be done by power tool cleaning to avoid scattering of abrasives caused by blast cleaning.

All cleaned surfaces shall be primed within six (6) hours or before any rust bloom forms on the blasted surface.

#### CW-6.3 Composition

Two component epoxy anti-rust paint/intermediate paint composed of epoxy resin, mica iron oxide anti-rust pigment and polyamide curing agent.

#### CW-6.3 Painting Application

Application of painting shall be in accordance with the Manufacturer's recommendations and standard practices. No painting shall be applied on wet or damp surfaces.

Coating protection for stoplogs, lifting beam and stoplog guides for painting works must conform to APCS 1, APCS 12, APCS 26 and ISO 9001.

All painting works must be supervised by a certified level 2 painting inspector.

The final color of paint on external surfaces shall be silver, grey, or as directed by NPC.

#### CW-6.4 Measurement and Payment

Measurement for payment for painting shall be made on a lot basis unless otherwise specified in the Bill of Quantity.

Payment will be made at the contract unit price for the item painting in the Bill of Quantity, which payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to complete the item.



#### CW-7.0 WATER LEVEL SENSOR

#### CW-7.1 Scope

The Water Level Monitoring System shall be threaded, or locknut mounted with IP 68 protection.

Water level monitoring system shall have a minimum range of 15 meters with pulse measuring principle.

#### CW-7.2 Measurement and Payment

Measurement for payment for water level sensor shall be made on a lot basis unless otherwise specified in the Bill of Quantity.

Payment will be made at the contract unit price for the item water level sensor in the Bill of Quantity, which payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to complete the item.

#### CW-8.0 DATA LOGGER

#### CW-8.1 Scope

The Data logger shall consist of a maximum of 32 channels and have a 16 MB storage capacity. Allowing them to record while in transit and extended periods of time with 2 minutes cycle every time.

#### CW-8.2 Measurement and Payment

Measurement for payment for data logger shall be made on a lot basis unless otherwise specified in the Bill of Quantity.

Payment will be made at the contract unit price for the item data logger in the Bill of Quantity, which payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to complete the item.

#### CW-9.0 DOCUMENTS TO BE SUBMITTED DURING THE BID OPPENING

#### To be submitted with the bid/proposal for evaluation:

- a. Site Inspection Certificate to be signed by NPC's authorized personnel;
- b. Work Plan/Bar Chart:
- Duly Signed and Completely filled out Technical Data Sheets (Section VI – Part II)
- d. Authority to Bid and Brochure for the following:
  - Galvanization and Grouting Material
  - Water Level Sensor/Monitoring
  - Data Logger
  - Painting Material
- e. Test Reports for the materials to be used in the Galvanization and grouting.

# SECTION VI - TECHNICAL SPECIFICATIONS PART II - TECHNICAL DATA SHEETS

#### **TABLE OF CONTENTS**

SECTION	DESCRIPTION	PAGE
1.0	TECHNICAL DATA	TDS-1

#### **SECTION VI - TECHNICAL DATA SHEETS**

- The Bidder shall complete this technical data sheet and submit the filled-up form with the technical proposal. The Bidder shall use continuation sheets as necessary for any other additional information keeping to the format shown herein or by reproducing the same.
- 2. Proposal not providing all the required specific data and information as required herein shall be rejected and shall be ground for disqualification.
- 3. The data required are technical features and characteristics of the Fixture/ Component/ Material to be provided by the bidder. Bidder's proposal shall at least be equal or superior to the requirements specified by NPC. Proposal not complying with these requirements shall likewise be rejected and shall be disqualified.

#### 1.0 TECHNICAL DATA

ITEM	DESCRIPTION	NPC REQUIREMENTS	SUPPLIERS DATA
· 1.	Painting (Galvanization) a. Wet Product		
	Components	- Zinc powder - Aromatic hydrocarbons - Binder	
	Density	- 22.28 lb/gal (± 0.5 lb/gal³)	
	Solid content	- 80% by weight (± 2 %) - 58 % by volume (± 2%) according to ASTM D269	
	Type of thinner	- Zingasolv	
	Flash point	≥104 ° F - 140 ° F	<u>.</u>
	VOC	- 3.96 lb/gal (EPA Method 24) measured by SMI, Inc.	
	b. Dry Film		
_	Color	-Grey (color darkens after contact with humidity)	·
·	Gloss	-Matt	
	Zinc Content	-96% (± 1 % ) by weight, with a purity of 99.995%. gives full cathodic protection and conforms to the standard ISO 3549 -regarding its zinc purity and to the standard ASTM A780 in regard of its use as repair coating for hot-dip galvanization.	
	Special characteristics	- Atmospheric temperature resistance of dry film >> Minimum: - 40°F	

· · · · · · · · · · · · · · · · · · ·	14 1 0400E W 4 4	_
	- pH resistance in immersion: 5.5 pH to 9.5	
	1 •	
Non- toxicity	A dry layer of is not toxic. It has been	
At	· · · · · · · · · · · · · · · · · · ·	
Acceptance chiena		
	dry-film thicknesses shall be equal to or	
	greater than the nominal dry-film thickness	
	1 • /	
	equal to or above 80% of the NDFT	
	- Individual dry-film thickness between 80%	
	i control of the cont	
	maximum dry-film thickness.	
Pulse Principle:	26 GHz/15 Pulses	
Accuracy:	± 2 mm	
Output:	4 – 20mA/0.4 – 2 V	
Sensor Material:	PTEE/PVDF	
Operating Temperature:	0 – 80° C	
Power Supply:	,24 VDC per Solar Panel with Charger	
	Buffer Accumulator Adapter of 220 VAC	
	-To monitor the height and velocity of water	
Data Lagger		
Data Logger		
	Polycarbonate and IP65	
	Acceptance criteria  Water Level Sensor Pulse Principle: Accuracy: Output: Sensor Material: Operating Temperature:	pH pH resistance in atmospheric conditions: 3.5 pH to 12.5 pH Excellent UV resistance  Non- toxicity  A dry layer of is not toxic. It has been tested according to the standard AS/NSZ 4020.  Acceptance criteria  - Preferably according to ISO 19840 The arithmetic mean of all the individual dry-film thicknesses shall be equal to or greater than the nominal dry-film thicknesse (NDFT) - All individual dry-film thicknesses shall be equal to or above 80% of the NDFT - Individual dry-film thickness between 80% of the NDFT and the NDFT are acceptable provided that the number of these measurements is less than 20% of the total number of individual measurements taken All individual dry-film thicknesses shall be less than or equal to the specified maximum dry-film thickness.  Water Level Sensor  Pulse Principle:  26 GHz/15 Pulses  Accuracy:  ± 2 mm  Output:  4 - 20mA/0.4 - 2 V  Sensor Material:  Operating Temperature:  0 - 80° C  Power Supply:  24 VDC per Solar Panel with Charger Buffer Accumulator Adapter of 220 VAC  -To monitor the height and velocity of water during installation of stoplog -To be used as monitoring device when opening the stoplog -Material and protection class:

Name of bloder:		
Signature of Bidder:		
oignatare or bracer.		

### **SECTION VII**

### **BILL OF QUANTITIES**



### SECTION VII - BILL OF QUANTITIES STOP LOG AT DWSG NO. 1 FOR AGUS 5 HEP

Item No.	Description of Work or Materials	Work to Be Done	Reference	Unit	Estimated Quantity	Unit Price in Pesos (Words and Figures)	Total Amount (In Figures)
CW-1.0	Stop Logs A36 Steel stop log with equalizing valve including flat rubber seals and other components/accessories.	design, furnish & fabricate	Refer to NPC TS & Drawing	pcs	4	(P)	(P)
CW-2.0	Lifting Beam Lifting Beam with roller guide, and hook with self locking / unlocking mechanism and other components/accessories.	design, furnish & fabricate	Refer to NPC TS & Drawing	pc	1	(P)	(P)
CW-3.0	Stop Log Guide (Side and Center Structural Guide) Fabrication, erection and installation of side and center structural guide assembly using A36 steel including core boring works on spillway structure in preparation for the installation of stoplog guides and application of special epoxy for underwater grouting.	design, furnish, fabricate & construct	Refer to NPC TS & Drawing	lot	1	(P)	(P)
CW-4.0	Painting (Anti-corrosive) - including surface preparation Painting furnish & apply including surface preparation for stop logs, guides and lifting beam (3 coats).	furnish & apply	Refer to NPC TS & Drawing	lot	1		(P)
CW-5.0	Water level sensor	Supply, instali & test	Refer to NPC TS & Drawing	lot	1	(P)	(P)
CW-6.0	Data logger	Supply, install & test	Refer to NPC TS & Drawing	lot	1		(P)
	TOTAL AMOUNT OF BID STOP LOG AT DWSG NO. 1 FOR AGUS 5 HEP						(P)

Name of Firm

Designation



### **SECTION VIII**

### **BIDDING FORMS**



### **SECTION VIII - BIDDING FORMS**

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NPCSF-INFR-03	_	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid		
NPCSF-INFR-04	-	Computation of Net Financial Contracting Capacity (NFCC)		
NPCSF-INFR-05	-	Joint Venture Agreement		
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NPCSF-INFR-08	-	Contractor's Organizational Chart for the Project		
NPCSF-INFR-09	-	List of Key Personnel Proposed to be Assigned to the Project		
NPCSF-INFR-10a	-	Key Personnel's Certificate of Employment (Professional Personnel)		
NPCSF-INFR-10b	-	Key Personnel's Certificate of Employment (Construction Safety and Health Officer)		
NPCSF-INFR-11	-	Key Personnel's Bio-Data		
NPCSF-INFR-12	-	List of Equipment, Owned or Leased and/or under Purchase Agreement, Pledged to the Proposed Project		
NPCSF-INFR-13	-	Bid Letter		
NPCSF-INFR-14	-	Detailed Cost Estimate Form		
NPCSF-INFR-15	-	Summary Sheets of Materials Prices, Labor Rates and Equipment Rental Rates		

Standard Form No: NPCSF-INFR-01

#### Checklist of Technical & Financial Envelope Requirements for Bidders

#### A. THE 1ST ENVELOPE (TECHNICAL COMPONENT) SHALL CONTAIN THE FOLLOWING:

#### 1. ELIGIBILITY DOCUMENTS

- a. (CLASS A)
- Any of the following:
  - PhilGEPS Certificate of Registration and Membership under Platinum Category in accordance with Section 8.5.2 of the IRR;

#### OR:

- The following updated and valid Class "A" eligibility documents enumerated under "Annex A" of the Platinum Membership:
  - Registration Certificate from the Securities and Exchange Commission (SEC) for corporations, Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives;
  - Mayor's/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.
    - In cases of recently expired Mayor's/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit, provided that the renewed permit shall be submitted as a post qualification requirement in accordance with Section 34.2 of the Revised IRR of RA 9184.
  - 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.
  - Tax clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR;
  - Valid Philippine Contractors Accreditation Board (PCAB) license and registration for the type and cost of the contract for this Project or Special PCAB License in case of Joint Ventures.

#### OR:

- A combination thereof.
- Statement of all its ongoing government and private contracts if any, whether similar or not similar in nature and complexity to the contract to be bid (NPCSF-INFR-02)
- The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least 50% of the ABC (NPCSF-INFR-03) complete with the following supporting documents:
  - Contract/Purchase Order
  - 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 Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document (Ex. Official Receipt or Sales Invoice) shall be submitted

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(The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.

It shall be a ground for disqualification, if verification and validation cannot be conducted due to inaccessibility of the site for whatever reason or fault of the bidder.)

- Special PCAB License in case of Joint Ventures
- Duly signed computation of its Net Financial Contracting Capacity (NFCC) at least equal to the ABC (NPCSF-INFR-04);
- b. (CLASS B)
- Valid Joint Venture Agreement, if applicable (NPCSF-INFR-05)

#### 2. Technical Documents

- Bid Security, any one of the following:
  - Bid Securing Declaration (NPCSF-INFR-06c)

OR

 Cash or Cashier's/Manager's check issued by a Universal or Commercial Bank – 2% of ABC;

OR

 Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: (NPCSF-INFR-06a) - 2% of ABC;

OR

- Surety Bond callable upon demand issued by a reputable surety or insurance company (NPCSF-INFR-06b) - 5% of ABC, with
  - Certification from the Insurance Commission as authorized company to issue surety
- Duly signed, completely filled-out and notarized Omnibus Sworn statement (Revised) (NPCSF-INFR-07), complete with the following attachments:
  - For Sole Proprietorship:
    - Special Power of Attorney
  - For Partnership/Corporation/Cooperative/Joint Venture:
    - Document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)
- Organization Chart for the project (NPCSF-INFR-08)
- Duly Signed List of Contractor's Key Personnel (based on the minimum key personnel) with complete supporting documents (NPCSF-INFR-09,10a,10b & 11)
- Duly Signed List of Contractor's Equipment (owned, leased or under purchase agreement (NPCSF-INFR-12), with
  - Proof of ownership and/or certificate of availability issued by Equipment Lessors
- Documents to be submitted with the bid/proposal for evaluation as specified in Clause CW-9.0 of Section VI Technical Specifications
- Complete eligibility documents of proposed sub-contractor, if applicable

SECTION VIII - BIDDING FORMS

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#### B. THE 2<sup>ND</sup> ENVELOPE (FINANCIAL COMPONENT) SHALL CONTAIN THE FOLLOWING:

- Duly signed Bid Letter indicating the total bid amount in accordance with the prescribed form (NPCSF-INFR-13)
- Duly signed and completely filled-out Bill of Quantities (Section VII) indicating the unit and total prices per item and the total amount in the prescribed Bill of Quantities form.
- Duly Signed Detailed Estimates for each items of work showing the computations in arriving at each item's unit prices used in coming up with the bid (NPCSF-INFR-14)
- Summary sheets indicating the direct unit prices of construction materials, labor rates and equipment rental rates used in coming up with the bid (NPCSF-INFR-15)

#### **CONDITIONS:**

- Each Bidder shall submit one copy of the first and second components of its Bid. NPC 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.
- A Bidder not submitting bid for reason that his cost estimate is higher than the ABC, is required to submit his letter of non-participation/regret supported by corresponding detailed estimates. Failure to submit the two (2) documents shall be understood as acts that tend to defeat the purpose of public bidding without valid reason as stated under Section 69.1.(i) of the revised IRR of R.A. 9184.

Standard	Form	Number:	NPCSE-	INFR-02
Jianuan.	r om	MANULUM CL.	M COL	71Y1 11-02

Business Name : Business Address :						
	2		Contractor's Ro	 ofe	a.Date Awarded	<del></del>
Name of Contract/Location/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Description	%	b.Date Started c.Date of Completion or Estimated Completion Time	Value of Outstanding Works
Government						
				<del> </del>		
		•	<del></del> -	<del> </del>		
			•	1		
		<del></del>	•	↓		
<u>Private</u>				+		1
·	·	<del></del>		<del> </del>		
			1	<b>-</b>		
			<u> </u>		Total Cost	<u> </u>

Joint Venture 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 the following documents for all the contract(s) stated above which shall be submitted during Post-qualification:

- 1. Contract/Purchase Order and/or Notice of Award
- 2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date.

Submitted by	:	
		(Printed Name & Signature)
Designation Date	: —	
Date	· —	

STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP

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PR NO.: MG-A5M22-033

Standard Form Number: NPCSF-INFR-03

#### The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid

Business Name : _ Business Address : _	4					
	a. Owner's Name		Contractor's	Role	a.Amount at Award	a. Date Awarded
Name of Contract	b. Address c. Telephone Nos.	Nature of Work	Description	%	b. Amount at Completion c. Duration	b. Contract Effectivity c. Date Completed

- Notes: 1. The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be bid.
  - 2. Supporting documents such as Contract/Purchase Order and any of the following: 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 Constructors Performance Evaluation System (CPES); or Official Receipt (O.R); or Sales Invoice for the contract stated above shall be submitted during Bid Opening.

Submitted by		
•		(Printed Name & Signature)
Designation	: <u></u>	
Date	:	

Standard Form Number: NPCSF-INFR-04

#### **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 Number: NPCSF-INFR-05

#### **JOINT VENTURE AGREEMENT**

#### **KNOW ALL MEN BY THESE PRESENTS:**

That		(civil status) , authorized representative of
		- and —
	, of legal age, <u>(c.</u> a resident of	ivil status) , authorized representative of
		her their capital, manpower, equipment, and other ture to participate in the Bidding and Undertaking of Power Corporation.
	NAME OF PROJECT	CONTRACT AMOUNT
	That the capital contribution of each n	nember firm:
	NAME OF FIRM	CAPITAL CONTRIBUTION
1. 2.		₽
<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Biddi	That both parties agree to be jointly ing and Undertaking of the said contract.	y and severally liable for their participation in the
do, e Biddi	execute and perform any and all acts ned ing and Undertaking of the said contract and if personally present with full power of	/enture, and are granted full power and authority to cessary and/or to represent the Joint Venture in the , as fully and effectively and the Joint Venture may substitution and revocation.
Cont	That this Joint Venture Agreement ract until terminated by both parties.	shall remain in effect only for the above stated
_	Name & Signature of Authorized Representative	Name & Signature of Authorized Representative
_	Official Designation	Official Designation
_	Name of Firm	Name of Firm
	W	litnesses
1		2
	·	

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

PR NO.: MG-A5M22-033 SECTION VIII - BIDDING FORMS

Standard Form Number: NPCSF-INFR-06a

(Signature, Name and Address)

#### FORM OF BID SECURITY (BANK GUARANTEE)

WHER submit Bid").		(hereinafter called "the Bidder") has for the <i>[name of project]</i> (hereinafter called "the
(Name of (herein Entity" which	of Country) inafter called "the Bank" are ") in the sum of <u>[amount in</u>	ents that We (Name of Bank) of having our registered office at bound unto National Power Corporation (hereinafter called "the words & figures as prescribed in the bidding documents] for o be made to the said Entity the Bank binds himself, his presents.
SEALE	ED with the Common Seal o	of the said Bank this day of 20
THE C	CONDITIONS of this obligati	on are that:
1)	if the Bidder withdraws hi Documents; or	is Bid during the period of bid validity specified in the Bidding
2)	if the Bidder does not a accordance with the Instru	ccept the correction of arithmetical errors of his bid price in actions to Bidder; or
3)		rmined as the LCB, fails or refuses to submit the required tax and business tax returns and PhilGEPs registration certificate ed; or
4)	if the Bidder having been him by the Entity during th	notified of the acceptance of his bid and award of contract to be period of bid validity:
	a) fails or refuses to exec	cute the Contract; or
	b) fails or refuses to subr	mit the required valid JVA, if applicable; or
	c) fails or refuses to Instructions to Bidders	furnish the Performance Security in accordance with the
deman Entity	nd, without the Entity havin	tity up to the above amount upon receipt of his first written g to substantiate its demand, provided that in his demand the aimed by it is due to the occurrence of any one or combination pove.
extend	ded by the Entity, notice of	rce up to 120 days after the opening of bids or as it may be which extension(s) to the Bank is hereby waived. Any demand d reach the Bank not later than the above date.
DATE	SIG	GNATURE OF THE BANK
WITNE	ESS SE	AL

PR NO.: MG-A5M22-033 SECTION VIII - BIDDING FORMS

Standard Form Number: NPCSF-INFR-06b

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

BOND	NO.: DATE BOND EXECUTED:
<u>of Sure</u> transac unto N ( <u>amour</u> payme	s bond, We (Name of Bidder) (hereinafter called "the Principal") and (Name ety) of (Name of Country of Surely), authorized to the country of Surely (stational Power Corporation (hereinafter called "the Employer") as Obligee, in the sum of the intervention (hereinafter called "the Employer") as Obligee, in the sum of the intervention (hereinafter called "the Employer") as Obligee, in the sum of the intervention (hereinafter called "the Employer") as Obligee, in the sum of the intervention (hereinafter called "the Surety") as Obligee, in the sum of the intervention (hereinafter called "the Surety") are held and firmly bound (Name ety).
SEALE	ED with our seals and dated this day of 20
	REAS, 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:
	d) fails or refuses to execute the Contract; or
	e) fails or refuses to submit the required valid JVA, if applicable; or
	f) fails or refuses to furnish the Performance Security in accordance with the Instructions 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 greater 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	VIII -	BIDDING	<b>FORMS</b>

Standard Form Number: NPCSF-INFR-06b

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	SURETY
SIGNATURE(S)	SIGNATURES(S)
NAME(S) AND TITLE(S)	NAME(S)
SEAL	SEAL

Standard Form No: NPCSF-INFR-06c

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

## BID-SECURING DECLARATION SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP (PR NO. : MG-A5M22-033)

To: National Power Corporation BIR Road cor. Quezon Ave. Diliman, Quezon City

I/We<sup>1</sup>, the undersigned, declare that:

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

	IN WITNESS	WHEREOF, I/we	have hereunte	set my hand	this day	/ of
20	_ at	, Philippines.				
			[Managana	Cinnatura of Did		.4.451
			•	Signature of Bid	•	
			Authorized	Signatory] [Signation   Signation   Signa	atory's legal cap	pacity]
				Affiant		,,

#### [Jurat]

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

I Select one and delete the other. Adopt same instruction for similar terms throughout the document.

SECTION VIII - BIDDING FORMS

Standard Form No: NPCSF-INFR-07

#### Omnibus Sworn Statement (Revised)

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

#### **AFFIDAVIT**

- I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:
- 1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached istate title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting:
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
- 6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

(BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - 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].
- [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	1	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 Number: NPCSF-INFR-08

#### 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 duly accomplished forms NPCSF-INFR-10a, NPCSF-INFR-10b and NPCSF-INFR-11.
- 3. All these are required to be in the Technical Envelope of the Bidder.

SECTION VIII - BIDDING FORMS

SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP

PR NO.: MG-A5M22-033

Standard Form Number: NPCSF-INFR-09

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

В	usiness Name:Business:						
		-					
			· · · · · · · · · · · · · · · · · · ·	DESIGNA	ATION		
1	Name						
2	Address						
3	Date of Birth						
4	Employed Since						
5	Experience						
6	Previous Employment						
7	Education						
8	PRC License	<u> </u>					
Requ	ired Attachments:						
}. }.	Certificate of Employment, Bio Data and Construction Safety and Health Training Certificate of the Safety Officer Certificate of Employment, Bio Data and valid PRC License of the (professional) personnel Certificate of Employment, Bio Data and accreditation from DPWH as Materials Engineer for the Materials Engineer						
	Submitted by	<b>:</b>					
			(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).

SECTION VIII - BIDDING FORMS

PR NO.: MG-A5M22-033

Standard Form Number: NPCSF-INFR-10a

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

		Issuance Da	te .
THE PRESIDENT National Power Corporation			
BIR Road cor. Quezon Ave.			
Diliman, Quezon City			
Dear Sir:			
I am <u>(Name of Nominee)</u>	a Lic	ensed	Engineer with
Professional License No	issued on (date	of issuance)	at <u>(place of</u>
I hereby certify that (Name	of Bidder)	has enga	ged my services as
	(Name of Project)		warded to it.
As (Designation) the contract under bidding:	, I supervised the t	ollowing complete	d projects similar to
NAME OF PROJECT	OWNER	COST	DATE COMPLETED
<del></del>			. <del></del>
At present, I am supervisin	g the following projects:		
NAME OF PROJECT	OWNER	соѕт	DATE COMPLETED
<u> </u>			
In case of my separation	on for any reason wha	atsoever from the	e above-mentioned
effective date of my separation.	nal Power Corporation at	least twenty one (	21) days before the
effective date of my separation.	, I know I v : Contract works to the b	vill have to stay in	the job site all the
effective date of my separation.  As (Designation) time to supervise and manage the authorized to handle only one (1) of the last of the Contractor of (Designation)	, I know I vectorized to the becontract at a time.  my name for the purposet without any firm comments to the contract is	vill have to stay in lest of my ability, a lose of enabling the nitment on my parts awarded to him	the job site all the and aware that I am e above-mentioned to assume the post since I understand
effective date of my separation.  As (Designation) time to supervise and manage the authorized to handle only one (1) of the last of Contractor to qualify for the Contractor.	, I know I version contract works to the becontract at a time.  my name for the purposet without any firm commence the contract is cound for my disqualificate poration bidding or employed.	vill have to stay in est of my ability, a bee of enabling the nitment on my part awarded to him ion as (Designation)	the job site all the and aware that I am e above-mentioned to assume the post since I understand in
effective date of my separation.  As (Designation)  time to supervise and manage the authorized to handle only one (1) of the last of the Contractor to qualify for the Contractor of (Designation)  that to do so will be a sufficient grany future National Power Corp.	, I know I version contract works to the becontract at a time.  my name for the purposet without any firm commence the contract is cound for my disqualificate poration bidding or employed.	will have to stay in lest of my ability, a lese of enabling the nitment on my part is awarded to him lion as (Designation) ployment with any	the job site all the and aware that I am e above-mentioned to assume the post since I understand in Contractor doing
effective date of my separation.  As (Designation)  time to supervise and manage the authorized to handle only one (1) of the last of the Contractor to qualify for the Contractor of (Designation)  that to do so will be a sufficient grany future National Power Corp.	, I know I version contract works to the becontract at a time.  my name for the purposet without any firm commence the contract is cound for my disqualificate poration bidding or employed.	vill have to stay in est of my ability, a bee of enabling the nitment on my part awarded to him ion as (Designation)	the job site all the and aware that I am e above-mentioned to assume the post since I understand in Contractor doing

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

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, Construction Safety Officer, 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 Number: NPCSF-INFR-10b

### **KEY PERSONNEL'S CERTIFICATE OF EMPLOYMENT**(CONSTRUCTION SAFETY AND HEALTH OFFICER)

		Issuance Date	9
THE PRESIDENT National Power Corporation BIR Road cor. Quezon Ave. Diliman, Quezon City			
Dear Sir:			
l am (Name of Nominee) Certificate No	an Con issued on (date of I	struction Safety & I	
I hereby certify that (Name of Construction Safety & Health Office			ed my services as , if awarded to it.
I am the Construction Safe to the contract under bidding:	ety & Health Officer of the	ne following complet	ted projects similar
NAME OF PROJECT	OWNER	COST	DATE COMPLETED
At present, I am the Constr	uction Safety & Health (	Officer of the followin	ng projects:  DATE  COMPLETED
In case of my separation Contractor, I shall notify the Nation effective date of my separation.			
As Construction Safety & I time and aware that I am authorize			the job site all the
I do not allow the use of Contractor to qualify for the Contra of Construction Safety & Health Oi to do so will be a sufficient ground in any future National Power Co business with the National Power Co	ct without any firm come fficer, if the contract is a for my disqualification a rporation bidding or er	mitment on my part to awarded to him sinco as Construction Safe	to assume the post e I understand that ty & Health Officer
		(Name and Signature AFFIANT	e)

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, Construction Safety Officer, 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).

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

Standard Form Number: NPCSF-INFR-11

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

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

1.	Name	<u> </u>
2.	Date of Birth	:
3.	Nationality	;
4.	Education and Degrees	; <u></u>
5.	Specialty	: <u></u>
6.	Registration	:
7.	Length of Service with the Firm	: Year from (months) (year) (year)
8.	Years of Experience	<u>:</u>
9.		years, give name and length of service with previous iod (attached additional sheet/s), if necessary:
	Name and Address of Employer	Length of Service
		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).

SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP

SEC	CTION VIII – BIDDING FORMS					PR NO. : MG-A5M22-033
	odard Form Number: NPCSF-INFR-11 e 2 of 2					
1.	Name	:				
2.	Name and Address of Owner	:				
3.	Name and Address of the Owner's Engineer (Consultant)	:			<u> </u>	
4.	Indicate the Features of Project (particulars of the project components and any other particinterest connected with the project.)					
5.	Contract Amount Expressed in Philippine Currency	:				
6.	Position	:				
7.	Structures for which the employe was responsible					
8.	Assignment Period	:	from to		(months) (months)	(years)
Naı	me and Signature of Employee					
It is awa	s hereby certified that the above parded to our company.	personr	nel can I	be assig	ned to this p	roject, if the contract is
	(Place and Date)		_	(The A	uthorized Re	

Standard Form Number: NPCSF-INFR-12

### LIST OF EQUIPMENT, OWNED OR LEASED AND/OR UNDER PURCHASE AGREEMENTS

(Based on the Minimum Equipment Required in the Bidding Documents)

Description	Model/Year	Capacity / Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership / Lessor or Vendor
wned			•				
			·				
-							
eased		•					
			<u> </u>			<u> </u>	
<u> </u>							
<del> </del>			ļ	<u> </u>			<u> </u>
Jnder Purchase Agre	ements	T		<del></del>	<u>.</u>	·· <del>, ·· ··</del>	
	_						
			ļ			<u> </u>	
			<u> </u>				
		<u> </u>	<u> </u>	<u> </u>			
	Submitted	by:					
		<del></del>	(Printed No	me & Signature)	•	<del>-</del>	

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 to be bid, based on minimum equipment required in the bidding docs, which are owned (supported by proof/s of ownership), leased, and/or under purchase agreements (with corresponding engine numbers, chassis numbers and/or serial numbers), supported by certification of availability of equipment from the equipment lessor/vendor for the duration of the project

(i)

other Bid that you may receive.

SECTION VIII - BIDDING FORMS

PR NO.: MG-A5M22-033

Standard Form No.: NPCSF-INFR-13

	BID LETTER
	Date:
То:	THE PRESIDENT National Power Corporation BIR Road cor. Quezon Ave. Diliman, Quezon City
We, ti	ne undersigned, declare that:
(a)	We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP (PR NO.: MG-A5M22-033).
(b)	We offer to execute the Works for this Contract in accordance with the Bid Documents, Technical Specifications, General and Special Conditions of Contract accompanying this Bid;
	The total price of our Bid, excluding any discounts offered below is: finsert information];
	The discounts offered and the methodology for their application are: [insert information];
(c)	Our Bid shall be valid for a period of <code>[insert number]</code> days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
(d)	If our Bid is accepted, we commit to obtain a Performance Security in the amount of <a href="mailto:tinsert percentage amount">tinsert percentage amount</a> percent of the Contract Price for the due performance of the Contract;
(e)	Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: [insert information]
(f)	We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
(g)	Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
(h)	We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
(i)	We understand that you are not bound to accept the Lowest Calculated Bid or any

- (j) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP (PR NO.: MG-A5M22-033) of the National Power Corporation.
- (k) We acknowledge that failure to sign each and every page of this Bid Letter, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name:	
In the capacity of:	
Signed:	
Duly authorized to sign the Bid for and on behalf of:	
Date:	

STOPLOG AT DWSG NO. 1 FOR AGUS 5 HEP

SECTION VIII - BIDDING FORMS

PR NO.: MG-A5M22-033

Standard Form No.: NPCSF-INFR-14

### **DETAILED COST ESTIMATE FORM**

Name of Bidder :										
	Item Description	tem Description Unit of Measure	Direct Cost			Mark-Up			11-11-0-1	T
Item No.			Materials	Labor	Equipment	OCM	Profit	VAT	Unit Cost	Total Price
										<u> </u>
	<u> </u>							<del> </del>		<del> </del>
										. <b>.</b>
										<u> </u>
		<del>                                     </del>								<del>                                     </del>
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		+								<del> </del>
		+	<del></del>		-		<del></del>		1	<del>                                     </del>

Name, Signature of Authorized Representative	Designation

SECTION VIII - BIDDING FORMS

PR NO.: MG-A5M22-033

Standard Form No.: NPCSF-INFR-15

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

Na	me of Bidder :		
	Unit Prices of Materials		
	Materials Description	Unit	Unit Price
	1.		
	2. 3.		
	4.		
	5. 6.		
	7.		
	Manpower Hourly Rates		
	Designation	Rate/Hr.	
	1.		
	2.		
	3. 4.		
	5.		
	6. 7.		
I.	Equipment Hourly Rental Rates		
	Equipment Description	Rental Rate/	Hr.
	1.		
	2.		
	3. 4.		
	5. 6. 7.		
	7.		

**SECTION IX** 

# BID DRAWINGS CIVIL WORKS

SECTION IX

## **BID DRAWINGS**



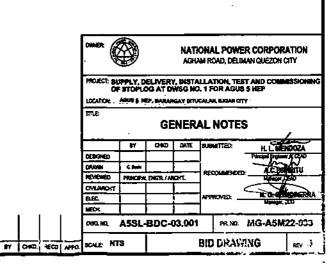
### SECTION VI – BID/REFERENCE DRAWINGS CW – CIVIL WORKS

DRAWING NO.	TITLE
A5SL-BDC-03-001	General Notes
A5SL-BDC-03-002	Vicinity Plan
A5SL-BDC-03-003	Site Development Plan
A5SL-BDC-03-004	Stoplog and Guides (Section and Details)
A5SL-BDC-03-005	Stoplog Details
A5SL-BDC-03-006	Side and Center Structural Guide
A5SL-BDC-03-007	Side Structural Guide Details
A5SL-BDC-03-008	Center Structural Guide Details
A5SL-BDC-03-009	Lifting Beam Assembly

### **GENERAL CONSTRUCTION NOTES:**

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- VERIFY ACTUAL FIELD DIMENSIONS AND SITE CONDITIONS (ACTUAL DIMENSIONS OF FOUR STOP LOG WITH AT LEAST MAXIMUM WEIGHT OF 22 YON
  EACH TO SUIT THE ACTUAL SPANNING OF THE SIDE AND CENTER STRUCTURAL GUIDES) BEFORE PURCHASE OF STEEL MEMBERS AND HOISTING
  EQUIPMENTS.
- ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED CALVANIZED WITH MINIMUM COATING OF 100 MICRONS AND SHALL CONFORM TO THE REQUIREMENTS
  OF ASTM A36 UNLESS OTHERWISE SPECIFIED.
- 4. ALL BOLTS FOR USE IN STRUCTURAL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS. ALL BOLTS SHALL BE HEAVY HEX STRUCTURAL BOLT, TYPE 1, ASTM 325 EACH WITH COMPRESSIBLE WASHER, ASTM F436. TYPE 1 AND ONE HEAVY HEX NUTS, ASTM A563 GRADE DH, EACH COMPONENT HOT-DIP ZING-COATED.
- 5. ALL STRUCTURAL JOINTS SHALL BE FULLY WELDED AND SHALL CONFORM TO STRUCTURAL WELDING CODE UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL SUBMIT DETAILS OF STRUCTURAL CONNECTIONS NOT SHOWN ON CONSTRUCTION DRAWINGS INCLUDING METHODOLOGY PRIOR TO FABRICATION AND SHALL BE SUBJECT FOR THE APPROVAL OF NPC.
- 6. APPLICATION OF SPECIAL EPOXY FOR UNDERWATER CROWTING FOR ANCHOR BOLTS/REBAR SHALL BE HIGH VISCOSITY TWO—COMPONENT CONCRETE AND MASONRY EPOXY WITH MINIMUM TENSILE STRENGTH OF 34.5MPa, MINIMUM COMPRESSIVE STRENGTH OF 88.2MPa, MINIMUM FLEXURAL STRENGTH OF 62.0MPa AND BOND STRENGTH OF 34.5Mpa AT CURED STATE.
- APPLICATION OF ANTI-CORROSME PAINT ON STOP LOG, GUIDE AND LIFTING BEAM. PRIOR TO PAINTING ALL WELD SPATTER, MILL SCALE, BURRS, RUST, LOOSE PARTICLES, AND FLUX SHALL BE REMOVED. GRINDING AND DEBURRING SHALL BE PERFORMED ACCORDINGLY.
- STRUCTURAL INVESTIGATION AND CORE BORING ON SPILLWAY STRUCTURE IN PREPARATION FOR THE INSTALLATION OF THE STOP LOG GUIDES, ALL
  UNDERWATER WORKS MUST BE PERFORMED BY PROFESSIONAL LICENSE DIVERS UNDER STRICT SAFETY PROCEDURES WITH SAFETY EQUIPMENTS AND
  MATERIALS, PRESSURIZE APPLICATION OF EPOXY INJECTION.

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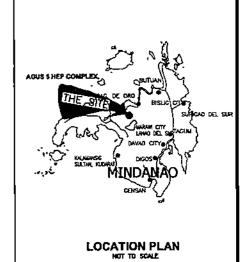






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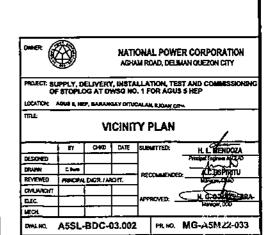
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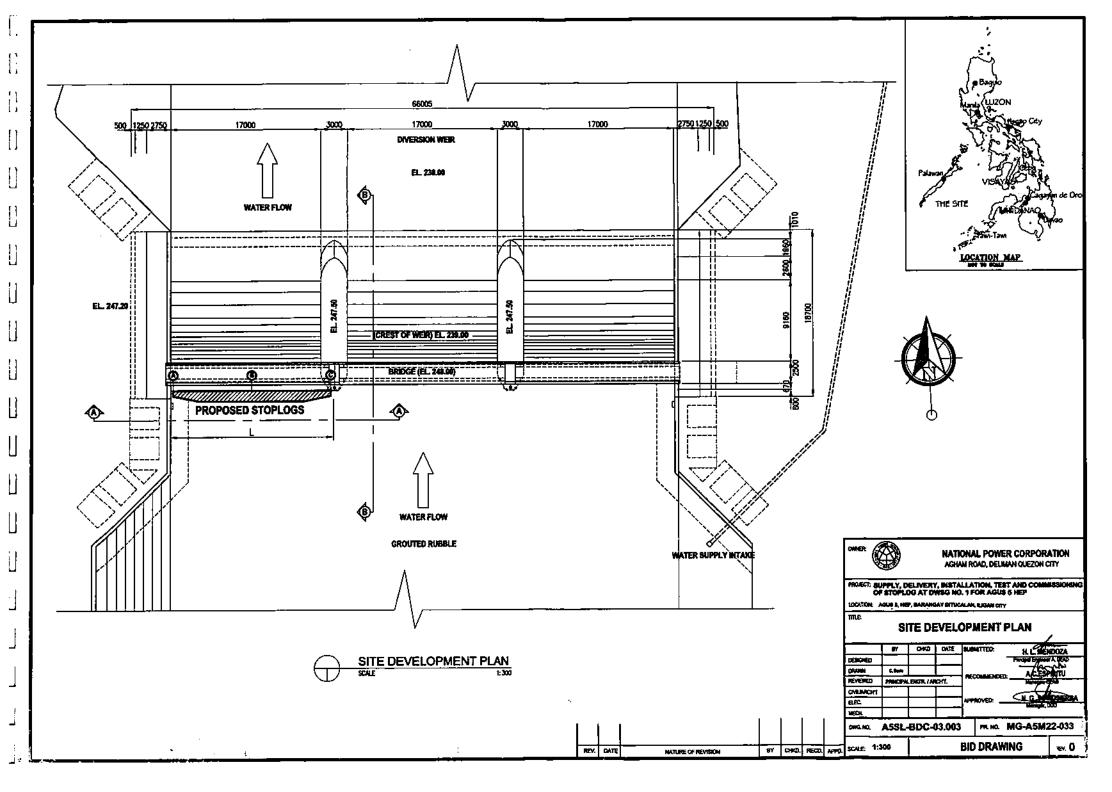
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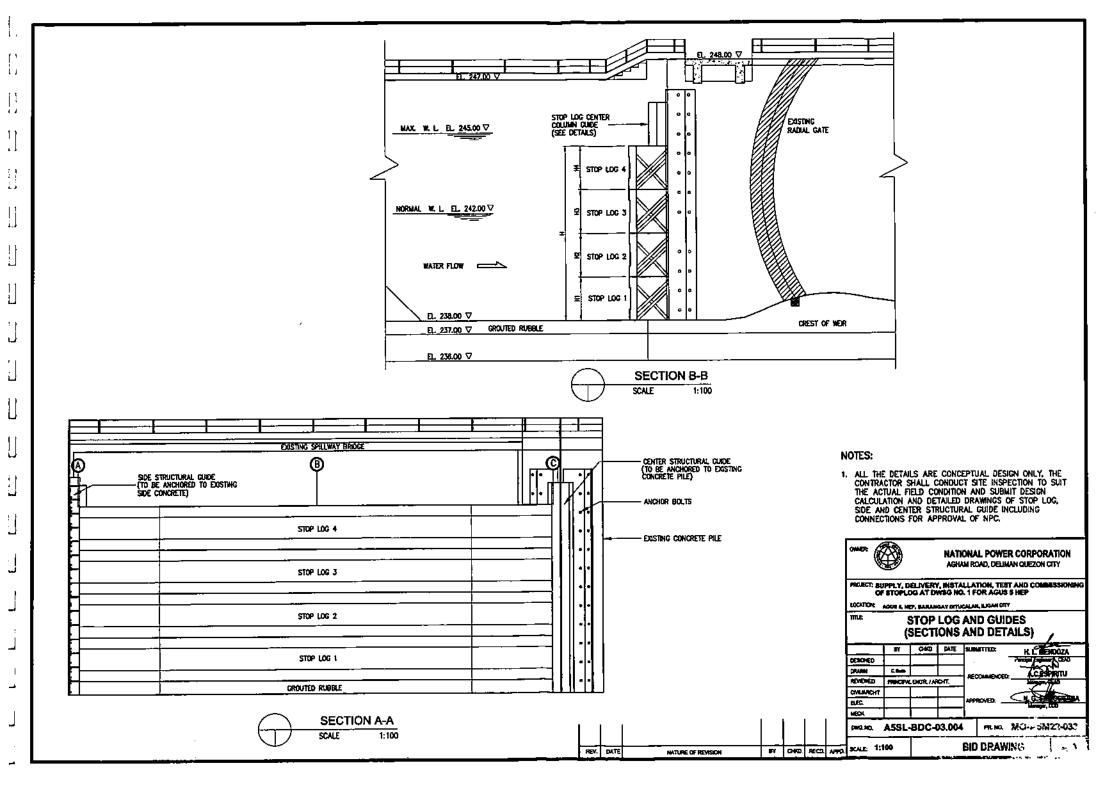
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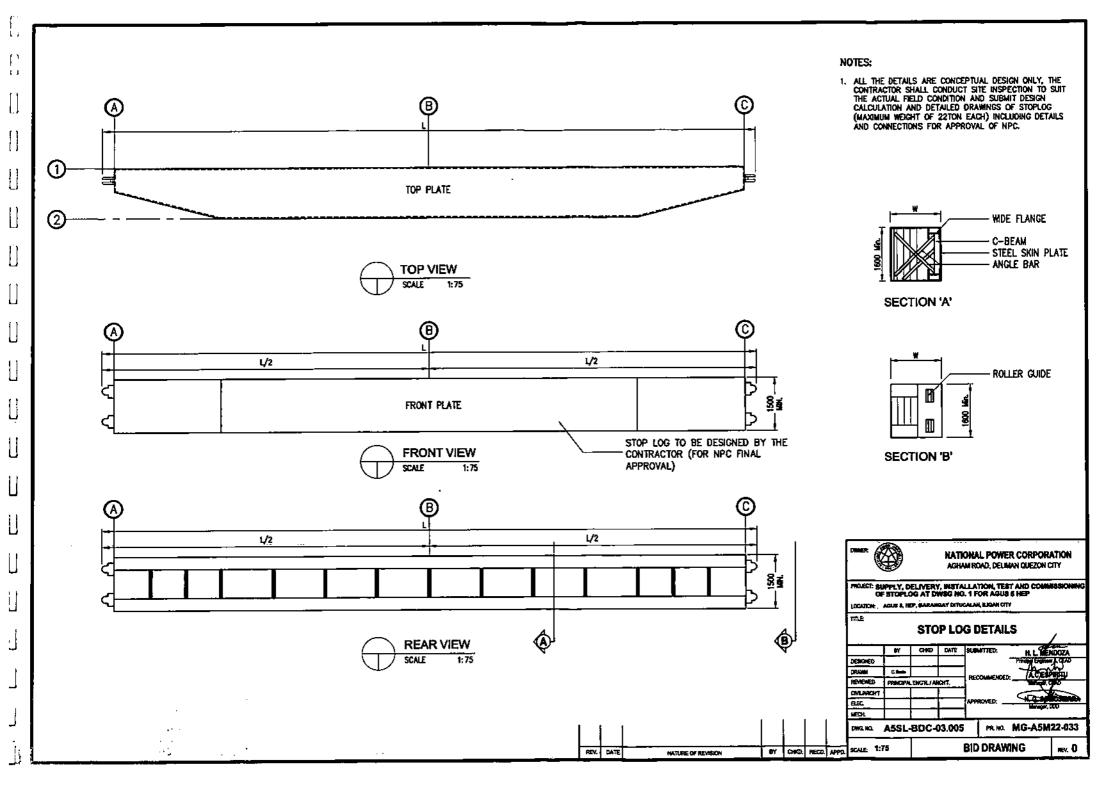


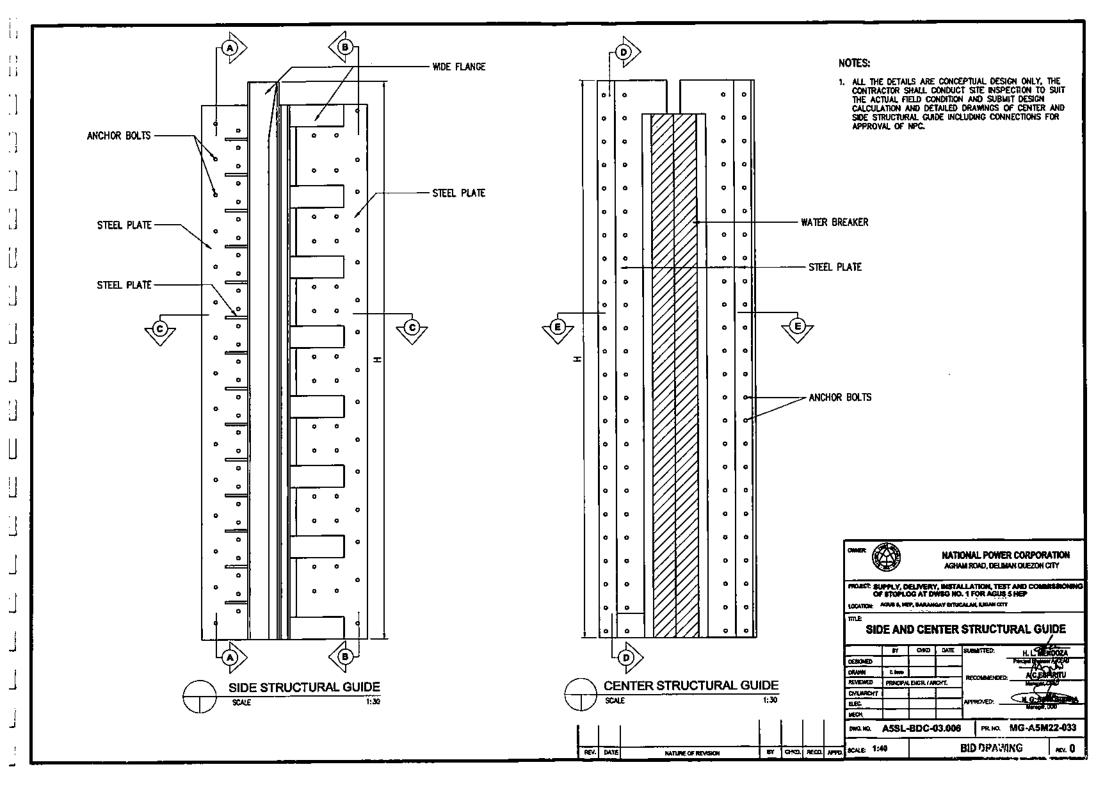
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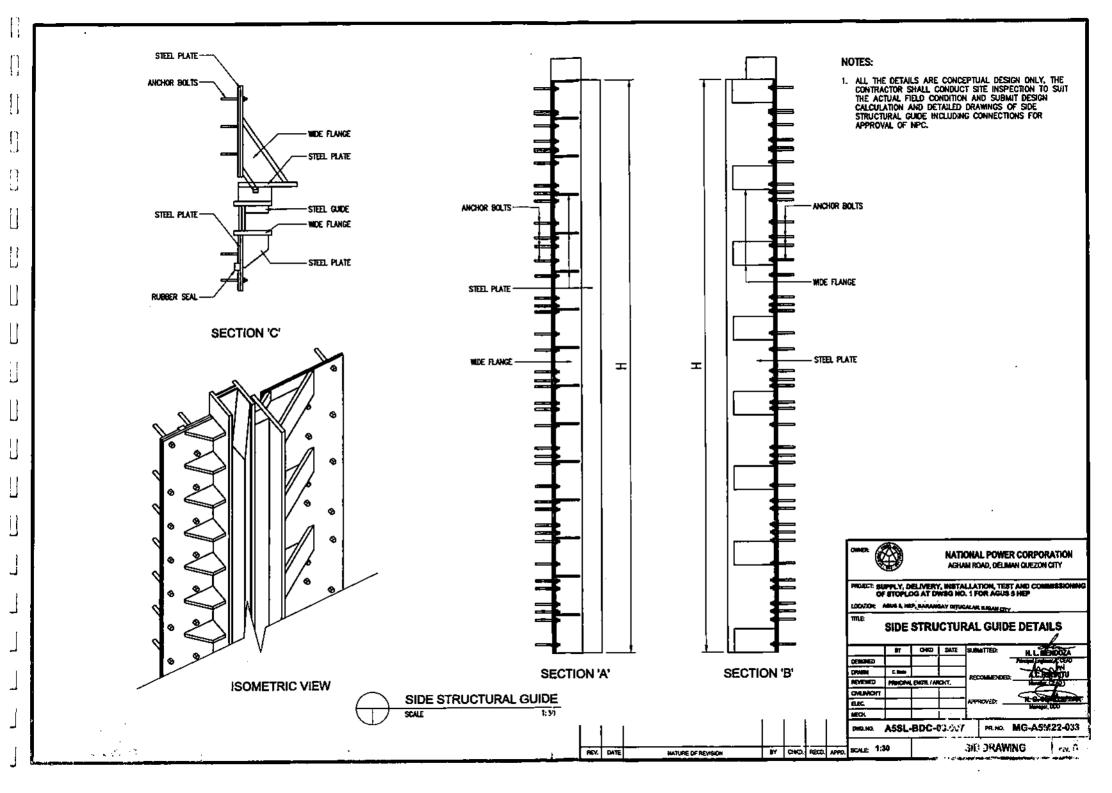
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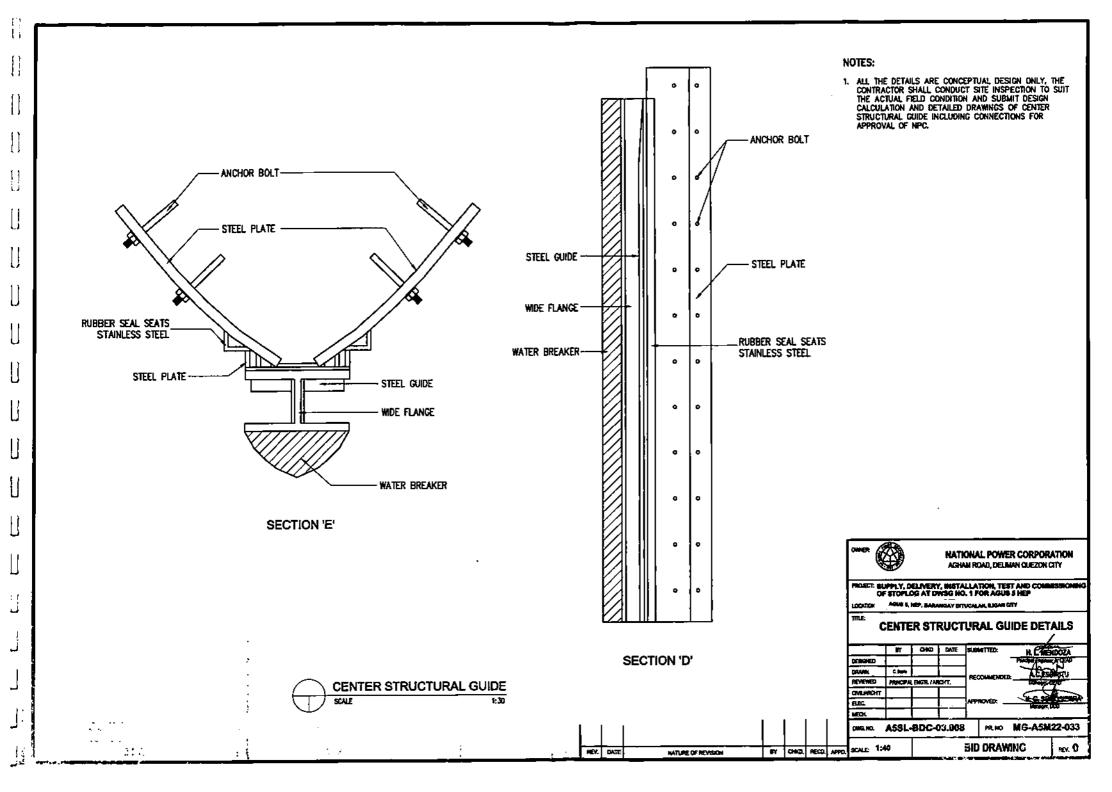






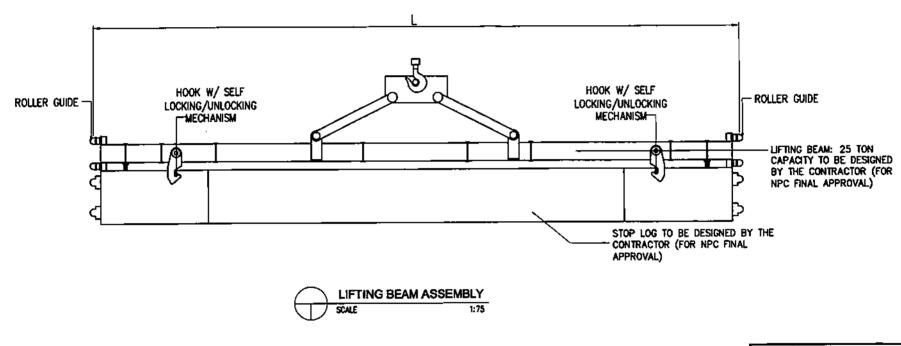






### NOTES:

1. ALL THE DETAILS ARE CONCEPTUAL DESIGN ONLY, THE CONTRACTOR SHALL CONDUCT SITE INSPECTION TO SUIT THE ACTUAL FIELD CONDITION AND SUBMIT DESIGN CALCULATION AND DETAILED DRAWINGS OF LIFTING BEAM (25 TON CAPACITY) INCLUDING DETAILS AND CONNECTIONS FOR APPROVAL OF NPC.





NATIONAL POWER CORPORATION AGRAM ROAD, DELIMAN QUEZON CITY

PROSECT SUPPLY, DELIVERY, SISTALLATION, TEST AND COMMISSIONING OF STOPLOG AT DWISG NO. 1 FOR AGUS 5 HEP

AGNE & MEP, BARANGAY DITUCALAR, EJGAR CITY

MILE

LIFTING BEAM ASSEMBLY

	84	(240)	DATE	SUBMITTED: H. L. MENDOZA		
DESIGNED			l	Principal Engineer A. CONO		
Different	Class Control		<u></u>	ACEPPOOL		
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**BID DRAWING**