



National Power Corporation
INVITATION TO BID
SMALL VALUE PROCUREMENT 2023-002

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

	Ref. Nos./ PR Nos.	Description	Bid Submission/ Opening	ABC of the Project
1	MG-ISD23-020 SVP2023-0329JQB-005	Supply of Labor and Materials for Repair of Employees Housing Quarter No. 37A at NPC Compound, Barangay Ditucalan, Iligan City, 32 calendar days	May 8, 2023 1:30PM	Php499,991.16
2	MG-OPD23-006 SVP2023-0329JQB-004	Supply of Labor, Materials and Equipment for the Repair and Maintenance of Building Housing No.47B (Basement) at NPC Housing Quarter, Barangay Ditucalan, Iligan City, 20 calendar days	May 8, 2023 1:30PM	Php157,710.00

2. NPC now invites Bids for Items listed above. Delivery of the Items are required within the contract period specified in the Technical Specifications. The Bidder must have completed a single contract that is similar to this Project, equivalent to an amount as stated in the Request for Quotation.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" pursuant to RA 9184 and its Revised IRR.
4. Interested bidders may obtain further information from the **BAC Secretariat, Contracts Management Office, Logistics Division** at the address given below during office hours, 8:00 AM to 5:00 PM Monday to Friday. A complete set of Request for Quotation (RFQ) may be secured by interested bidders free of charge from the address below.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGeps) <https://www.philgeps.gov.ph/> or the website of National Power Corporation <https://www.napocor.gov.ph/BCSD/bids.php>

5. Bids must be delivered to the address below on or before the date stated above. Late bids shall not be accepted.
6. NPC reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders.
7. For further information, please refer to:

BAC SECRETARIAT

Contracts Management Office, Logistics Division
NPC Mindanao Generation
Maria Cristina, Iligan City
Tel. No.: (063) 222-3459
Fax No.: (063) 223-4604
E-mail Add.: logistics_afd_mingen@napocor.gov.ph

REYNANTE T. CIRUELA

Chairman, Bids and Awards Committee
Mindanao Generation Headquarters

Date of Publication: **April 26, 2023**

SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE MAINTENANCE OF
BUILDING (HOUSE NO. 47B BASEMENT)

Section VI. Specifications

PROJECT HIGHLIGHTS

PH 1.0 GENERAL

The project is funded by NPC Mindanao Generation. This project aims to preserve the assets of NPC by rehabilitating and bringing back to its original state and for the convenience of employees.

The Contractor shall furnish all labor, materials, equipment/tools and other incidental matters necessary to complete the works in accordance with the contracts and approved detailed engineering activities; and other existing laws, rules and regulations relative thereto.

PH 2.0 PROJECT LOCATION

The Project Is Located at NPC Housing Quarters, Brgy. Ditucalan, Iligan City

PH 3.0 SCOPE OF WORK

The works and services to be performed by the Contractor for this undertaking shall essentially consist of, but not limited to the Supply of Labor and Materials for Repair of Employees Housing Quarter No. 47B Basement @ NPC Housing Quarters, Brgy. Ditucalan, Iligan City with the following scope of works:

- a. Mobilization;
- b. Occupational Health & Safety Program;
- c. Removal and Disposal Works;
- d. Tiling Works;
- e. Plumbing Works;
- f. Door and Cabinets; and
- g. Demobilization

PH 4.0 CONTRACT PERIOD

The contractor shall complete the works as specified in Clause 3 within Twenty **(20) calendar days**. The total contract duration is inclusive of six (6) unworkable days considered unfavorable for the execution of work at site. The contract period shall be reckoned from the date of contract effectivity as specified in the Notice to Proceed.

PH 5.0 CONTRACTOR'S CLASSIFICATION

The Contractor must have a valid Philippine Contractors Accreditation Board (PCAB) license of at least **Category Trade/E - General Building** with inter-agency registration and classification of at least **Building or Industrial Plant**.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RECEIVED
MAY 15 1964

TO THE DIRECTOR
FROM THE DEPARTMENT OF CHEMISTRY

RE: [Illegible]

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SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE MAINTENANCE OF BUILDING (HOUSE NO. 47B BASEMENT)

The Contractor must have undertaken similar contracts that involves construction/rehabilitation/expansion of commercial, industrial or office building provided that the contract cost shall be at least equivalent to 50% of ABC.

PH 6.0 MINIMUM REQUIRED PERSONNEL

1. One (1) Construction Foreman

A B.S. Civil Engineering Graduate with at least Three (3) years of experience in similar works or a Civil Engineering Technology Graduate with at least Five (5) years of experience in similar works or if non-graduate, at least five (5) years working experience as Construction Foreman in similar works..

2. One (1) Safety Officer 2 (SO2)

Construction Safety Officer who has completed at least Forty (40) hours of Construction Safety and Health Training (COSH) from Occupational Safety and health Center (COSH) or Safety Training Organizations (STOS) accredited by the Department of Labor and Employment. It must be present during the whole duration of the project.

Certificate of Training with accreditation from DOLE for the construction safety and Health officer, Diploma and/or service record/certificate of employment of previous and/or current employer for construction Foremen and welder shall be submitted and included as an attachment in the standard form NPCSF-INFR-09; List of key personnel proposed to be assigned to the contract.

Foremen and Construction Safety & Health Officer maybe in one person, as long as he maets the requirements of the two positions. Provided however, that there is no overlapping of projects undertaken by the same contractor and supervised by the same person.

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

H 7.0 MINIMUM REQUIRED CONSTRUCTION EQUIPMENT (Owned or Leased)

<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>
NONE		

PROBLEM SET 10

Due Date: _____

1. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. Find the energy levels.

2. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4$. Find the energy levels.

3. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6$. Find the energy levels.

4. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8$. Find the energy levels.

5. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10}$. Find the energy levels.

6. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12}$. Find the energy levels.

7. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14}$. Find the energy levels.

8. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16}$. Find the energy levels.

9. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18}$. Find the energy levels.

10. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20}$. Find the energy levels.

11. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22}$. Find the energy levels.

12. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24}$. Find the energy levels.

13. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24} + \frac{1}{26}mx^{26}$. Find the energy levels.

Name of Project: **SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR AND MAINTENANCE OF BUILDING HOUSING NO. 47B BASEMENT)**

SECTION VIII - BILL OF QUANTITIES

PR #: MG-OPD23-006

BILL OF QUANTITIES

Item No.	Description of Work or Materials	Unit	Estimated Quantity	Unit Price in Pesos (Words and Figures)	Total Amount
I.	OCCUPATIONAL HEALTH & SAFETY PROGRAM	lot	1.00	_____ (PHP)	_____
II.	REMOVAL AND DISPOSAL WORKS	lot	1.00	_____ (PHP)	_____
III.	TILING WORKS	sqm.	63.07	_____ (PHP)	_____
IV.	PLUMBING WORKS	lot	1.00	_____ (PHP)	_____
V.	DOORS AND CABINETS	lot	1.00	_____ (PHP)	_____
				TOTAL (PHP)	_____

Name of Firm

Name and Signature of Authorized Representative

Designation

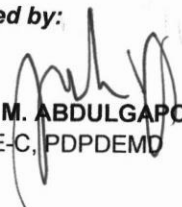
NATIONAL POWER CORPORATION
MINDANAO GENERATION

CONSTRUCTION SCHEDULE
TIME BAR DIAGRAM

SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR AND MAINTENANCE OF BUILDING
(HOUSING NO. 47B BASEMENT AT NPC HOUSING QUARTERS, BRGY. DITUCALAN, ILIGAN CITY)

DESCRIPTION OF WORKS		DURATION IN DAYS																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
I	MOBILIZATION	█																			
II	OCCUPATIONAL HEALTH & SAFETY PROGRAM	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
III	REMOVAL AND DISPOSAL WORKS		█	█	█	█	█														
IV	TILING WORKS							█	█	█	█	█	█	█	█	█					
V	PLUMBING WORKS																			█	█
VI	DOORS AND CABINETS																		█	█	
VII	DEMOBILIZATION																				█


Prepared by:


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 S.M. BUDLEGAN
 PROJECT MANAGER

Reviewed by: *[Signature]*
 M. L. ...
 PROJECT MANAGER

Checked by: *[Signature]*
 ATTY. ...
 PROJECT MANAGER

Approved by: *[Signature]*
 ...
 PROJECT MANAGER

DESCRIPTION OF WORKS	DURATION IN DAYS														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VII DEMONILIZATION															
VI FLOORS AND CABINETS															
V PLUMBING WORKS															
IV TILING WORKS															
III REMOVAL AND DISPOSAL MATERIAL PROGRAM															
II OCCUPY HEALTH & SAFETY PROGRAM															
I MOBILIZATION															

SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR AND MAINTENANCE OF BUILDING (HOUSING NO. 47B BASEMENT AT NPC HOUSING QUARTERS, BRGY. DELICATAN, ILAGAN CITY)

TIME BAR DIAGRAM
 CONSTRUCTION SCHEDULE
 NATIONAL POWER CORPORATION
 MAINTENANCE DIVISION