



**PROJECT :** DESIGN AND BUILD OF THE INFRASTRUCTURE PROJECT FOR THE REPAIR OF ITDI BUILDINGS – CED ENERGY PILOT PLANT FOR THE ESTABLISHMENT OF FUEL CELL R&D AND TESTING FACILITY OF CED ITDI-DOST

**LOCATION:** DOST Compound, Gen. Santos Ave., Bicutan, Taguig City

**OWNER :** Industrial Technology Development Institute (ITDI)

**SUBJECT :** BID BULLETIN NO. 1

**Date :** July 5, 2021

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This Bid Bulletin No. 1 is being issued to Bidders for their information and guidance in the preparation of their bids and shall be taken into consideration in their proposal. This bid bulletin will form part of the contract for this project.

**1. Governing Rules:**

Bidding and contract award for the above project shall be governed by the Revised Implementing Rules and Regulations of RA 9184 and the Philippine Bidding Documents (PBD), Fifth Edition, October 2016. Any discrepancy between the General Conditions and RA 9184, R.A 9184 shall prevail.

**2. Marking and Sealing of Bids**

- a. Contents of sealed envelope marked **“ORIGINAL BID”**  
Sealed Envelope 1 marked **“Original – Eligibility & Technical Proposal”**  
Sealed Envelope 2 marked **“Original – Financial Proposal”**
- b. Contents of sealed envelope marked **“COPY NO. 1”**  
Sealed Envelope 1 marked **“Copy No. 1 – Eligibility & Technical Proposal”**  
Sealed Envelope 2 marked **“Copy No. 1 – Financial Proposal”**
- c. Contents of sealed envelope marked **“COPY NO. 2”**  
Sealed Envelope 1 marked **“Copy No. 2 – Eligibility & Technical Proposal”**  
Sealed Envelope 2 marked **“Copy No. 2 – Financial Proposal”**
- d. The sealed outer envelopes marked **“ORIGINAL BID”, “COPY NO. 1” and “COPY NO. 2”** shall be enclosed in **one single envelope/package**.
- e. All envelopes shall contain the following:

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**PROJECT: (NAME OF THE PROJECT)**

(NAME AND ADDRESS OF BIDDER IN CAPITAL LETTER)

**TO: THE INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE (ITDI)**

**ENGR. APOLLO VICTOR O. BAWAGAN**  
**ITDI-BAC CHAIRPERSON, SUB.COM. FOR INFRASTRUCTURE**  
**Metrology Building, DOST Compound**  
**Bicutan, Taguig City**

**DO NOT OPEN BEFORE: Scheduled date & time of opening of bids**

**3. Items to be considered in the preparation of Bid**

**3.1 Bid Proposal** shall be in Philippine currency.

**3.2** The bid shall be signed on each and every page by the duly authorized signatory of the bidder. Items with erasures on the bid should bear the initials of the authorized signatory.

**3.3** Bidders shall submit a Bid Securing Declaration or at least one (1) other Bid Security, the amount of which shall not be less than the percentage of the ABC in accordance with the following schedule:

Forms of bid Security	Amount of Bid Security (Not less than to Percentage of the ABC)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank	Two percent (2%)
b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank	
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security	Five percent (5%)

**3.4** Bid bonds should be posted in favor of Industrial Technology Development Institute. If other than GSIS, the bid bond should be accompanied with certificate of accreditation from the Insurance Commission. Bid bonds should be submitted

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with original receipts of payments. Bid security shall be Callable on Demand with a validity period of 120 calendar days.

- 3.5 To guarantee the faithful performance by the winning bidder of its obligations under the contract, it shall post performance security taken from the categories below the amount of which shall be not be less than the percentage of the total contract price in accordance with the following schedule:

Forms of Performance Security	Amount of Performance Security Not less than the Percentage of the Total Contract Price)
a) Cash or Cashier's/manager's check issued by a Universal or Commercial Bank b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank	Goods and Consulting Services - Five Percent (5%)
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security	Thirty percent (30%)

#### 4. Submission of Bids – July 12, 2021, 8:30 A.M. – 9:00 A.M.

**Late bids shall not be accepted**

**Opening of Bids – July 12, 2021, 9:01 A.M.**

- a. Technical Specification:  
(Please see attached File)

Issued by:

**Sgd**  
**ENGR. APOLLO VICTOR O. BAWAGAN**  
ITDI-BAC Chairperson, Sub. Com. for Infrastructure

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Membership:



## Responses to Technical Query:

1	Is transformer necessary to provide? How far is the tapping point?	The transformer is necessary to augment current power supply. The nearest electrical post where the existing transformer is located, is approximately 50 m from the project site.
2	As per NSCP 2015 Sect 303.1 Table 303-1 (see snippet below), only minimum of 2 boreholes required for the project. Kindly clarify the number of BH required	The 8 sampling points are maximum but minimum of 2 BH as shown in the reference is acceptable. The sampling points should be identified and with consent from the procuring entity prior to obtaining soil samples.
3	As explained during the pre-bid conference, the budget was formulated before pandemic. Due to the current pandemic, there is a significant price increase on construction materials for about 40-50% on deformed bars and other materials, and about 15-20% for glass, Al, and others. Will bid proposal with reduced scope of works be accepted?	Not acceptable, although detailed specifications of requirements may be reduced to a minimum, as stated in the bid documents.
4	We would like to request a copy of the required format or will DPWH standard be acceptable?	DPWH standard is acceptable
5	We would like to request for information of the height requirement for the lower and upper ground floor. (floor to floor level)	Floor to ceiling height of at least 2.4 m for both UG and LG. Floor to floor level height of at most 3 meters.
6	We would like to request for information of the required equipment to be installed per room/area that is needed for the design of electrical plan.	The equipment will only be installed in the lower ground floor while typical office furniture (modular table, conference table, chairs, PC) will be installed in the UG.  See attached sheets for the estimated electrical loads of the equipment per area.
7	We would like to request for information of the required structural load/floor load of the equipment to be installed per room/area that is needed for the design of the structural plan.	The equipment will only be installed in the lower ground floor while typical office furniture (modular table, conference table, chairs, PC) will be installed in the UG.  See attached sheets for the estimated weights of the equipment per area.
8	Is digital signature acceptable? As we are still in pandemic, currently most of our staff is at work from home set up, logistical movement is also challenging at the moment.	Digital signature on all documents is not allowed. You may, however, assign more than one authorized signatory for the documents to ease in signing.
9	Plans in A3 – 3 sets only?	Preliminary plans in A3 size are acceptable in 3 sets only. But as indicated in the TOR page 13,

		initial drawings in A3 size 4 copies. Final drawings included in the contract documents in 20x30 blueprint (10 copies) and A3 size (10 copies).
10	Is it possible to extend bid submission for another one to two weeks?	No extension. In case of failed bidding, a negotiated bidding shall be conducted thereafter.

### List of Equipment

NAME OF EQUIPMENT	ELECTRICAL LOAD	EST. WEIGHT, KG
<b>Material Preparation Lab</b>		
Vacuum Mixer	1 ph, 220 V AC, 150 W	32
MP Magnetic Stirrer	100-240 V, 50/60 Hz, 40 W	9
Hot plate x 2	230V, 50Hz, 550W	12
Ultrasonic Homogenizer	220-240V, 50 Hz, 850W	22
Centrifuge	1ph, 200-240V, 50Hz, 500W	30
Overhead Stirrer	230V, 50Hz, 550W	12
Electrospinning Machine	220V, 50/60Hz	80
Film Coater with Doctor Blade	100-240 V AC, 350 W	30
Automatic Titrator	100-240 VAC, "-01" models	5
Spray Coater	220V 50/60Hz	100
Additive Manufacturing – 3D Printer	220V 50/60Hz, 500W	50
Freeze Dryer	220V 50/60Hz, 300W	80
Freezer/Refrigerator x 2	110-220V, 50/60 Hz, 160 W	100
<b>Hot Room</b>		
Drying Oven	1 ph, 230V, 50/60Hz, 2500W	89
Vacuum Oven	1 ph, 230V, 50/60Hz, 4.3A	90
<b>Material Characterization Room</b>		
FTIR	220V 50/60Hz	13
Goniometer	100-240 V, 50-60 Hz	5
UTM	1ph, 200-230V, 50/60Hz, 1.2KVA, 300W	85
DMA	120 VAC or 230 VAC $\pm 10\%$ , 50/60 Hz, 600 VA (maximum)	20
EIS	250 VA Max, 50-60 Hz,	5
TGA	100- 240VAC, 50/60Hz	16
DSC	100- 240VAC, 50/60Hz	30
SEM	1 ph, 100- 240VAC, 50/60Hz, 500W	90
<b>Assembly and Testing Room</b>		
Fuel Cell Test Station	90-125 V AC, 50-60 Hz, 4A Max Usable power 100 W	100
Fuel Cell Assembly Press	220V, 50-60 Hz, 500W	110
Fuel Cell Leak Tester	220V, 50-60 Hz, 500W	110
Electrolyser	220V, 50-60 Hz, 1000W	15
Power Module Station	220V, 50-60 Hz, 1000W	10