

NATIONAL FOOD AUTHORITY

Bids and Awards Committee



Visayas Avenue, VASRA, Diliman, Quezon City 1128

bac@nfa.gov.ph

SUPPLEMENTAL BID BULLETIN NO. 2

TWO (2) LOTS SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF RICEMILL AND GRAIN DRYER FOR THE NFA MODERNIZED WAREHOUSES IN SUPPORT TO BUFFER STOCKING PROGRAM AT VARIOUS NFA COMPOUNDS IN REGION VI & XII

(Project Identification No. 2025-12)

30 June 2025

The NFA Central Office Bids and Awards Committee (BAC) issues this Bid Bulletin to correct/ amend and clarify certain items in the Bid Documents relative to the bidding for the Supply, Delivery, Installation, Testing and Commissioning of Ricemill and Grain Dryer for the NFA Modernized Warehouses in Support to Buffer Stocking Program at Various NFA Compounds in Region VI & XII as follows:

I. CLARIFICATIONS

CLARIFICATION	RESPONSE
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)	
Re:Eligible Bidders: (ITB, Annex 2 & 3)	The Statement of All
In case for this tender, the bidder bid the products of foreign manufacturer for dryer and ricemill under their authorization, the bidder mention the manufacturer's record in Philippines. Please cofirm.	On-going and Completed Government and Private Contracts and the Statement of Single Largest Completed Contract shall contain only
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)	contracts within the Philippines.
Re:Eligible Bidders: (Annex 3)	
In case the bidder tie up with the foreign manufacturer and import their products from the foreign country, who has completed contracts similar tvingo the Project under the name of 3Rd company in Philippines and/or their	

subsidiary in the 3rd country, can that contracts also be applicable for SLCC ?			
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)			
Re:Bid and Payment Currencies	The rate in Philippine Peso shall be		
In case the Bidder supply the equipment from outside Philippines, the bid prices can be quoted in US\$ for CIF portion plus local portion Bid and Payment Currencies and for the purpose of evaluation, US\$ portion shall be converted to Philippines currency based on the exchange rate on the day of the bid opening in the BSP. Please advise which rate (US\$ to Philippines Peso) will be applicable at the time of payment.	applicable at the time of payment.		
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)			
Re:SLCC	SLCC must be for the supply, delivery,		
May we kindly request that the phrase "any agricultural machinery be considered aside to the term "similar contract" for the required SLCC for this tender.	installation, testing, and commissioning of ricemill and grain dryer which value must be at least equivalent to half		
(Lifted verbatim from a letter of a prospective bidder dated 28June 2025)	of the percentage of the ABC.		
Re:SLCC			
 Relative thereto and line with the "competitive bidding" spirit of the government procurement law, RA 9184 and its Implementing Rules and Regulations, may we humbly request the BAC to consider the following: a. Amending the SLCC criterion of "similar project" to "agricultural machinery" which will enable more bidders to participate in the bid, to the benefit and advantage of the NFA without compromising product quality, performance, reliability and durability. b. Adopt the "aggregate" provision in RA 9184 as to the acceptable SLCC contract amount 			
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)			
Re: In-line, Interval-type Single Kernel Moisture Measurement System	Yes, it is acceptable to install the moisture		

If impurities such as straw, empty paddies, and dust enter the moisture meter along with the paddy, it may lead to malfunctions. Would it be acceptable to install the moisture meter after Paddy Cleaner?	meter after the paddy cleaner, as long as the technical specifications for both components are complied.			
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)				
Re: Certification of Very satisfactory performance May we kindly request for consideration that any dual sourced dryer capacity customers be permitted as source of Customers to issue said requirement certification.	Only Certification from customers with supplied, delivered, installed grain dryer with biomass fuel heating system is accepted.			
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)				
Re: Paddy Millday Bin	No, this is not			
Can 1.1 Paddy Millday Bin listed in the Major Components be installed after the 1.2 Paddy Receiving Hopper?	acceptable.			
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)				
Re: Brown Rice Tank	No length grader is			
In the General Specifications, Item 2.f states that Brown Rice moves to the Length Grader. Is Length Grader required to sort Short grain from long grain material and Short grain should be stored in one more additional Brown Rice Tank?	gth Grader material and			
How many tones of brown rice tank as a holding capacity required for storing Short grains (sorted by the length grader)? Is it approx. 2 tons?				
(Lifted verbatim from a letter of a prospective bidder dated 27 June 2025)				
Re: The three blending tanks listed under Major Components.				
Is the Flow Balancer's capacity for each 10 tons per hour, or 13 tons per hour? Is a measurement accuracy of ±0.5% acceptable?	The Flow Balancer's capacity must be 13 tons. Measurement			

	accuracy of ±0.5% is acceptable.	
(Lifted verbatim from a letter of a prospective bidder dated 28 June 2025)		
Re: CCTV Installation In reference to the Project Bidding Documents (PBD) and the Technical Specifications, we noted that there are no specific instructions or guidelines provided regarding the designated locations for CCTV installation.	The CCTV must be able to monitor inventory movement and status, providing real-time insight, of the grain dryer and ricemill.	
 With this, we would like to respectfully seek clarification on the following: a. Are there particular areas within the Ricemill and Dryer sections that are required or recommended for CCTV installation? b. Should CCTV cameras also be installed around the exterior of the warehouse for perimeter and access point monitoring? 	the exterior of the warehouse are not required.	

II. AMENDMENTS

DEFEDENCE	REVISION / AMENDMENT			
REFERENCE	FROM	то		
Section I. Invitation to Bid (Page 7)	Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo City iii. NFA Compound, PD Monfort, Dumangas, Iloilo City	For Lot 1: Region VI i. NFA Compound, Quintin Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo Province iii. NFA Compound, PD Monfort, Dumangas, Iloilo Province		
	3. xxx Bidders should have completed a contract similar to the project within five (5) years prior to the date of submission and receipt of bids. xxx	ar completed a contract similar to 5) the project within ten (10 of years prior to the date o		

DEFEDENCE						
REFERENCE	FROM	то				
Section III. Bid Data Sheet (Page 20)	ITB Clause 19.3 In all cases, the NFCC computation must be sufficient for all the lots or contracts to be awarded to the Bidder, if applicable.	 ITB Clause 19.3 In all cases, the NFCC computation must be sufficient for all the lots or contracts to be awarded to the Bidder, if applicable. As provided below in item 19.5 of Section II. ITB, a committed Line of Credit may be submitted in lieu of its NFCC computation. 				
	ITB Clause 20.2., III. DOCUMENTARY REQUIREMENTS FOR COMPLIANCE WITH EXISTING LAWS xxx 2. Conformity xxx as prescribed by Section 27.1 of RA 1091	ITB Clause 20.2., III. DOCUMENTARY REQUIREMENTS FOR COMPLIANCE WITH EXISTING LAWS xxx 2. Conformity xxx as prescribed by Section 27.1 of RA 10915				
Section III. Bid Data Sheet (Page 21)	III. DOCUMENTARY REQUIREMENTS FOR COMPLIANCE WITH EXISTING LAWS	III. DOCUMENTARY REQUIREMENTS FOR COMPLIANCE WITH EXISTING LAWS XXX				
	7. Copy of Equipment Manufacturer's Manual with Parts List of each rice mill system component & grain dryer system component and all accessories written in English or Filipino Vernacular to be presented during post qualification evaluation.	7. Copy of Equipment Manufacturer's Manual with Parts List of each rice mill system major component & grain dryer system major component written in English or Filipino Vernacular to be presented during post qualification evaluation.				
Section V. Special Conditions of Contract (Page 28)	GCC Clause 1 Delivery and Documents - xxx [For Goods supplied from abroad, state:]	GCC Clause 1 Delivery and Documents - xxx [For Goods supplied from abroad, state:]				

REFERENCE	REVISION / AMENDMENT				
REFERENCE	FROM	то			
	xxx For Lot 1: Region VI i. NFA Compound, Quintin Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo City iii. NFA Compound, PD Monfort, Dumangas, Iloilo City	xxx For Lot 1: Region VI i. NFA Compound, Quintin Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo Province iii. NFA Compound, PD Monfort, Dumangas, Iloilo Province			
	[For Goods supplied from within the Philippines, state:] xxx For Lot 1: Region VI i. NFA Compound, Quintin Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo City iii. NFA Compound, PD Monfort, Dumangas, Iloilo City	[For Goods supplied from within the Philippines, state:] xxx For Lot 1: Region VI i. NFA Compound, Quintin Salas, Jaro, Iloilo City ii. NFA Compound, Poblacion 5, Dueñas, Iloilo Province iii. NFA Compound, PD Monfort, Dumangas, Iloilo Province			
	GCC Clause 2.2 The terms of payment shall be as follows: xxx	GCC Clause 2.2 The terms of payment shall be as follows: xxx Advance payment shall be in accordance with the provisions of Section 4.5 of Annex "D" of the 2016 Revised IRR of R.A. No. 9184.			
	GCC Clause 4 3. Full load testing of the offered dryer, once installed, ensures compliance with technical specifications. Labor, operator and other manpower during the full load test shall be shouldered by the bidder.	GCC Clause 4 3. Full load testing of the offered dryer, once installed, ensures compliance with technical specifications. Labor, operator, power, other manpower, and other incidental expenses during			

DEFEDENCE	REVISION / AMENDMENT					
REFERENCE	FROM	то				
		the full load test shall be shouldered by the bidder.				
Section VII. Technical Specifications (Page 35)	Supplemental Bid Bulletin No. 1 Please see attached specifications. Included herewith are the site plans for the respective lots.	Please see attached revised specifications. Included herewith are the site plans for the respective lots. ¹				
Section VIII. Checklist of Technical and Financial	<u>Project Requirements</u> Annex 22 (v) xxx	<u>Project Requirements</u> Annex 22 (v) xxx				
Documents (Page 39)		Annex 23 (w) Certificate of Site Inspection for each site covered by the lot being bidded for. ²				
	<u>Financial Documents</u> Annex 21 (w) xxx NFCC xxx	<u>Financial Documents</u> Annex 24 (x) xxx NFCC xxx				
	Annex 22 (x) xxx JVA xxx	Annex <mark>25</mark> (y) xxx JVA xxx				
	II. SECOND ENVELOPE (FINANCIAL COMPONENT ENVELOPE) Annex 23 (y) xxx Bid Form xxx	II. SECOND ENVELOPE (FINANCIAL COMPONENT ENVELOPE) Annex 26 (z) xxx Bid Form xxx				
	Annex 24 (z) xxx Price Schedule(s) xxx	Annex 27 (aa) xxx Price Schedule(s) xxx				
	OtherdocumentaryrequirementsunderRA9184(as applicable)Annex25(aa)xxxCertificationxxx	OtherdocumentaryrequirementsunderRA9184(as applicable)Annex28(bb)xxxCertificationxxx				

¹ See attached revised Technical Specifications. ² See attached **Annex "23"**.

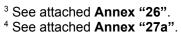
REFERENCE	REVISION / AMENDMENT			
REFERENCE	FROM	то		
	Annex 26 (bb) xxx DTI xxx	Annex 29 (cc) xxx DTI xxx		
Section IX. Sample Forms (Page 41)	Annex 9 : Bid Form	Annex 26: Bid Form ³ Annex 27a: Price Schedule for Goods Offered from Within the Philippines ⁴ Annex 27b: Price Schedule for Goods Offered from Abroad ⁵		

All other provisions/instructions in the bid documents not mentioned in this Bid Bulletin shall remain in full force and effect without any modification.

Likewise, all items in the Bidding Documents not consistent with the above corrections shall be deemed changed and amended accordingly.

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JOHN ROBERT R. HERMANO ENGR Chairperson, Bids and Awards Committee





⁵ See attached Annex "27b".

Annex 26

BID FORM

Date : _____ Project Identification No. : _____

To: NATIONAL FOOD AUTHORITY (NFA) – CENTRAL OFFICE NFA Building, Visayas Avenue, Barangay Vasra, Diliman, Quezon City

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *SUPPLY*, *DELIVER*, *INSTALL*, *TEST*, *AND COMMISSION THE RICEMILL AND GRAIN DRYER FOR THE NFA MODERNIZED WAREHOUSES IN SUPPORT TO BUFFER STOCKING PROGRAM AT VARIOUS NFA COMPOUNDS IN REGION/S* ________ in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

[Insert this paragraph if Foreign-Assisted Project with the Development Partner:

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address Amount and Purpose of of agentCurrencyCommission or gratuity

(if none, state "None")]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name:
Legal capacity:
Signature:
Duly authorized to sign the Bid for and behalf of:

Annex 27a

Price Schedule for Goods Offered from Within the Philippines

[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No.____ Page __of___

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name:

Legal Capacity:

Signature:

Duly authorized to sign the Bid for and behalf of:

Annex 27b

Price Schedule for Goods Offered from Abroad

[shall be submitted with the Bid if bidder is offering goods from Abroad]

For Goods Offered from Abroad

Name of Bidder _____ Project ID No. ____ Page ___ of ___

5 7 9 1 2 3 4 8 6 Total Price Unit Price Item Description Country Quantity Unit price CIF Total CIF Unit price of origin Delivered delivered port of entry or CIP Delivered Duty Unpaid DDP (specify port) or Duty Paid price per (DDU) CIP named place item (DDP) (col 4 x 8) (specify border (col. 4 x point or place of 5) destination)

Name: _____

Legal Capacity:

Signature:

Duly authorized to sign the Bid for and behalf of:

BID FORM (TECHNICAL SPECIFICATIONS)	
-	od Authority - Central Office	
	-	
PURCHASE REQUEST NUMBER:		
END-USER:		
ITEM/LOT INFORMATION		
Item / Lot Description:	Lot 2: Supply Delivery Installa	tion, Testing, and Commissioning
		the NFA Modernized Warehouses
	in Support to Buffer Stocking P	
	Compounds in Region XII	-
Quantity:	Two (2)	
Unit of Measurement (unit/pcs/lot):	Items	
Enumeration / Inclusions:	Item 1: Grain Dryer	
Bidders must state here either "Comply" or "Not C	Item 2: Ricemill	
Specification stating the corresponding performance "Not Comply" must be supported by evidence in a be in the form of manufacturer's un-amended sale compliance issued by the manufacturer, samples, i supported by evidence or is subsequently found to under evaluation liable for rejection. A statement e evidence that is found to be false either during Bid be regarded as fraudulent and render the Bidder o Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii).	Bidders Bid and cross-reference s literature, unconditional stater ndependent test data etc., as ap be contradicted by the evidence either in the Bidders statement o evaluation, post-qualification or	d to that evidence. Evidence shall nents of specification and propriate. A statement that is not e presented will render the Bid f compliance or the supporting the execution of the Contract may subject to the provisions of ITB
		REFERENCES
REQUIRED SPECIFICATIONS	STATEMENT OF COMPLIANCE	(include supporting documents) (attach brochure / technical data / website, etc.)
ITEM 1: 120 MT-Capacity Mechanical Grain Dryer	I	,
I. General Specification		
1. Mechanical Grain Dryer Features		
The mechanical grain drying facility shall be		
housed inside the warehouse for protection		
from inclement weather and to keep the		
quality of paddy being processed.		
Input Capacity: at least 120 MT of Fresh		
Paddy Per Day	ļ	
Wet or fresh paddy can be continuously		
received and pre-dried while the Batch Type		
Recirculating Dryer (BRD) is in operation. Pre-dried paddy shall be finally dried to 14%	{	
MC in the BRD to have a uniformly dried		
output when the BRD is available.		
The fresh paddy with moisture content as	1	
high as 30% shall be dumped at the receiving		
pit, and then moved to the paddy cleaner.		
The pre-cleaned paddy grains are then		
conveyed to wet paddy tank to reduce the		
moisture content using aeration system in to		
the wet paddy tank.	{	
The pre-dried grain should pass the hopper		
scale before it is conveyed to the batch type recirculating dryer for final drying down to		
12% to 13% MC.		

The dried paddy shall then pass through the
hopper scale before it shall be conveyed into
the dried paddy tank for bagging or loading to
silos for bulk storage.
The above system/approach will greatly
reduce post-harvest losses, especially during
days of continuous rain which coincide with
the period of abundant harvest. Wet paddy
spoil rapidly if not pre-dried immediately within the day.
I. Major Components and Ancillary Equipment:
Receiving and Pre-cleaning Section
wo (2) sets of grain receiving and pre-cleaning
system shall be installed that are capable in
receiving paddy in bulk or accept grains loaded in
bulk truck and bagged paddy loaded in trucks or
in small lots.
1.1 Two (2) Units Dumping Pit/Receiving Hopper
Both receiving hoppers are capable to receive
paddy in bulk
The paddy receiving hopper is flush-mounted
in the roadway.
Provided with concrete ramp capable of
supporting fully loaded trucks with gross
weight of 60 tons. It is made of all steel construction with angle
bar stiffeners and supports.
Provided with 35 mm round bar grating and a
removable checkered plate cover for safety
and protection when not in use.
Provided with dust suction hood
Designed to discharge gain at 30 TPH
minimum
Provided with manual intake gate to regulate
grain flow
Size of the hopper shall be based on
Manufacturer's design and standard
1.2 In-line, Interval-type Single Kernel Moisture
Measurement System
Continues data logging
Moisture content reading range: 11MC to 38
MC
With histogram and standard deviation
features Moisture threshold feature with alarm
Real-Time online mobile apps monitoring
capabilities or can be monitored from the control room
Cloud Storage: 5 years subscription
1.3 Two (2) Units Paddy Cleaner with Aspirator
Minimum Capacity: 15 tph per unit
Minimum efficiency: 90%
It can remove empty paddy, small, medium
and large size impurities.
Push button operation and control system
with error indicator control
1.4 Two (2) Units Fresh Paddy Tank

	e Minimum Capacity: 30 TPH
	High throughput capacity and high weighing
	accuracy of +/- 0.1%, full scale.
	Data and operation of the equipment can be
	monitored in the control room
	agging Section
3.1	Two (2) Units Dried Paddy Tank
	Common wall for two units
	Capacity: 30 Tons per unit
	Provided with level sensor
Γ	Discharge chutes are provided with manual
	and pneumatic slide gate with dust control
	system
	Provision of a "big bag" (TONNER BAG) filling
	machine/system with automatic weigher and
	it is equipped with a scroll conveyor belt to easily move the big bag.
	/ith manufacturer's, distributor's or bidder's
	ification that the proposed grain dryer brand,
	icularly its major components, would only be
-	n a single brand
	Other Ancillary Equipment (Inclusion)
1. N	1ain Control Center
	The drying facility shall be provided with
	air-conditioned control room that houses the
	main control panel and it will serve as office
	of the facility operator.
	Walls shall be provided with fixed glass in
	order for the operator to monitor the drying
-	operation
	Grain movement and equipment operation are monitored and controlled in the control
	room
ŀ	The operator can determine which bin is
	empty, partially or fully loaded and which
	equipment is operating through the
	corresponding pilot lights on the mimic flow
	diagram of the motor control system
2. E	lectrical/Motor Control System
	Provision inside the main control center of
	centralized electrical control panel using an
	integrated Programmable Logic Control (PLC)
	and Supervisory Control and Data Acquisition
	(SCADA), or equivalent technology and
	functionalities, that houses all related motor control components such as circuit breakers,
	magnetic contactors, alarm system, etc.
	The control panel shall be provided with
	mimic flow chart where the running status
	and control of each dryer component is
	shown and represented by indicator lights.
-	With ammeter and voltmeter readout
	Provided with on-off push button switch and
	individual circuit breaker for each motor

Provided with individual magnetic starter and	
overload protection for all electric motors	
The drying plant equipment should be	
electrically inter-locked to facilitate operation	
and prevent human errors. However, in case	
of emergency or need to vary the sequence	
of operation, the interlock system can be	
by-passed by authorized personnel and any	
individual or set of equipment can be	
operated independent of the other.	
All motors shall be (1) three-phase, (ii) 60 hz,	
and (iii) 440 volts, or as maybe appropriate for the given overall drying facility design.	
All electrical wires, sub-feeders and feeder	
lines shall be in conduits and run through	
wire trays from electric motors to the motor	
control center	
Pull boxes shall be provided for every branch	
circuit	
An Emergency Manual Switch Button (EMSB)	
shall be provided for every motor/equipment	
near the working area for emergency shut-off	
to avoid accident. Rigid steel conduit shall be	
used from the motor/equipment to the EMSB	
The drying plant shall be provided with three	
(3) units distribution transformer in bank to	
provide power for the facility's three-phase	
load	
All needed electrical fixtures and accessories	
for primary metering to energize the facility	
as required by the electric cooperatives shall	
be included and shall be shouldered by the	
contractor. These include:	
i. Electric Meter	
ii. Current Transformer (CT)	
iii. Potential Transformer (PT)	
iv. Lightning Arrester	
v. Other necessary electrical fixtures and	
accessories	
One (1) Unit Diesel-Powered Emergency	
ower Generating Set	
Provision of one (1) unit diesel power	
generating set (gen-set) which is solely	
dedicated to energize the whole drying	
facility	
Gen-set must be able to provide stable and	
compatible power with the requirement of	
the whole drying facility including its ancillary	
equipment	
Provided with automatic transfer switch (ATS)	
for smooth and easy operation during	
occurrence of power interruption from the	
local electric cooperative	
Generator house shall be built to protect the	
generator set and electrical accessories from	
generator set and electrical accessories from inclement weather	

— I	
	Provision of centralized compressed air room
	with line filters, air dryers, air tanks which is
	intended for the pneumatic systems
	rovision of grain conveying mechanisms such
	bucket elevator and drag chain conveyor to
	grate the different stages of drying.
	Bucket elevator and drag chain conveyor
	should be provided with service ladder,
	platform, and catwalk to be used during the
	conduct of repair and maintenance
	rovision of control tank with pneumatic trol system
	Control tank with pneumatic control system
	in all stages to synchronize grain flow and to
	avoid grain clogging
	Pneumatic control system of grain diverters,
	control tank discharge shutters can be
	remotely controlled in the control room
	rovision of downspout with two-way valve,
	hree-way valve if necessary.
	Attached to bucket elevator to divert grain
	flow from one stage to another stage of the
	process
	oust Room and Dust Collection System
	All sections where dust can be generated or
	emitted due to flowing or moving grains shall
	be fitted with dust-collection system
-	
	With Cyclone type separator with airlock
-	valve, or dust filter, or combination of both
	With centralized collecting conveyor for dryer
	cleaning fan and cyclofan impurities
	Sheet metal ducting and connectors shall be
	airtight II "HOT AIR" (drying air) ducting and
	nifolds shall be stainless steel and round
forn	
	It shall be provided with features for access
-	parts during (1) repair, (2) maintenance, and operation such as ladder, service platform,
	catwalk.
	Biomass Furnace Room
	Biomass-fed furnace shall be installed in the
-	furnace room
	Husk bin with auto feed control should be
	provided in each furnace for ease of loading
	fuel
	Provision of disposal cart for the ashes
	generated/collected
	Spare parts storage room shall also be
-	vided for safe keeping of supplies needed
	ing the conduct of repair and maintenance
	The mechanical drying facility components
	ancillaries shall be laid out in a manner that
	quate working spaces are provided for every
stag	e of the operating process Additional Requirements

1. The dried grain shall have no additional	
discoloration, no traces of unburned fuel or	
ashes on grain surface and no fermented or	
musty odor	
2. The dryer shall be provided with	
thermocouple and digital temperature	
controller to measure the actual air	
temperature entering the grain mass. The	
dryer is in sync with the furnace	
3. The dryer shall be provided with	
automatic moisture control to measure the	
actual grain MC and to prevent over drying	
of grains. Moisture control is in sync with the	
dryer operation. Automatic shut-off of the	
dryer once the desired grain moisture	
content is reached	
4. Adequate provision for fire control	
5. Adequate protection for all moving parts	
6. The noise emitted by the machineries	
shall not exceed 92 dB	
7. Mechanical grain dryer and its ancillaries	
shall be free from defects that may be	
detrimental to its use and shall be free from	
sharp edges and surfaces that may hurt the	
operator	
7.1 All metal parts should be machine bend, pressed and cut to avoid rough surfaces and	
all rough surfaces should be machine finished	
and smoothed	
7.2 The warning notice shall be in accordance	
with PNS/PAES 101:2000 – Agricultural	
Machinery – Technical Means for Ensuring	
Safety – General	
8. Ancillary components must be compatible	
with the major component	
8.1 The ancillary components need not be of	
the same brand or similar brands, provided	
that their capacity and efficiency are	
compatible with those of the major	
component.	
9. The drying facility and its ancillary shall be	
designed and built to be strong and sturdy to	
withstand seismic zone 4 earthquake	
10. Main parts of the mechanical dryer	
which has direct contact with the grain	
should be made of stainless steel. All other	
components and parts of the mechanical	
dryer should be pre-treated and powder	
coated	
11. The construction shall be rigid and	
durable without major breakdown of its	
components within one (1) year of operation	

12. Warranty shall be provided to parts and		
services within two (2) years after the date of		
acceptance of the unit by the end-user,		
except on fast moving and easy to wear parts		
such as fan belts and grain buckets. General		
requirements of the warranty shall be in		
accordance with PNS/PAES 138:2004 –		
Agricultural Machinery – Guidelines on After		
Sales Service		
13. Every mechanical grain dryer unit and its		
key component shall be provided with basic		
tools, factory standard, operation and parts		
manual containing full information on parts		
list, method of installation and operation.		
The manual which conforms to PNS/PAES		
102:2000 – Agricultural Machinery –		
Operator's Manual – Content and		
Presentation shall be provided		
14. Contractor/Manufacturer/Dealer shall		
provide operation and maintenance training		
and after-sales service	-	
Comprehensive training to NFA personnel		
with the following topics:	-	
a) Basic fundamental and principle of Grain		
Drying		
b) System operation and management of		
Drying Plant		
c) Operation, trouble shooting, repair and		
maintenance of Drying facility		
15. The mechanical grain dryer shall be		
tested in accordance with PNS/PAES		
202:2015 – Agricultural Machinery –		
Heated-Air Mechanical Grain Dryer – Methods of Test.		
16. Each component of the drying facility including its ancillary equipment shall be		
marked at a prominent place with the		
information below. The following markings		
and labeling shall conform to PNS/PAES		
201:2015:		
Registered trademark of the manufacturer		
Name and address of the manufacturer		
Name and address of the		
importer/distributor		
• Country of manufacture/ Made in the		
Philippines		
• Type; Serial number		
Load capacity, metric tons		
• Rated power/voltage/ frequency/ phase, in		
metric units		
 Shipping information 		
Dry weight in metric units		
 Dimensions in metric units 		
 Safety/Precautionary markings 		
17. Standard set of heavy duty tools		
appropriate for the conduct of repair and		
maintenance of the facility which is made of		
tempered steel and chrome vanadium		

a. One (1) set socket wrench (No. 8, 9, 10,	
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23,	
24, 27, 30, 32, minimum)	
b. One (1) set combination wrench (open	
and box, 10 pcs-size appropriate to the rice	
milling system)	
c. Adjustable wrench: 300 mm, minimum	
d. Electrical plier: 200 mm, minimum	
e. Screwdriver: Philips and flat head,	
300mm, minimum	
f. Grease gun: 250mm cylinder length,	
minimum	
g. Mechanical pliers: 200mm, minimum	
h. Heavy duty toolbox and roll up tools	
holder that could accommodate those	
required tools	
i. Machinery Testing Equipment	
i. Tachometer	
ii. Digital Thermometer	
iii. Airflow meter	
j. Vacuum cleaner	
Rated input power: 1,000 W, minimum	
Maximum air flow: 3 cubic meter/minute	
Capacity: 30 liter, minimum	
Power cord: 5m, minimum	
Features: high capacity and high suction	
18. All component and drying system shall	
be compliant with PNS/BAFS FABES	
201:2015 AMTEC and NFA tested upon	
installation at contractor's cost for each units	
as condition for acceptance and final	
payment	
19. Process flow layout and schematic	
diagram of the drying system duly signed	
and sealed by Licensed Agricultural Engineer.	
20. Electrical plan and layout duly signed and	
sealed by a licensed Electrical Engineer as a	
condition for payment - From transformer to	
main switch to control panel to machine	
components.	
21. Factory Acceptance Test (FAT) prior to	
delivery of items 22. Provision and Installation of 80-tons	
Capacity Pitless Type Electronic Truckscale	
with Truckscale House	
- Please see attached Specifications	
•	
23. Inventory CCTV system	
The CCTV system shall improve inventory	
accuracy, enhance security and optimize	
operations. It consists of an integrated	
cameras and sensors to monitor inventory	
movement and status, providing real-time	
insight. Creating a digital "eye" on inventory.	
CCTV System shall provide a full coverage of	
the strategic internal space of the grain drying	
system, with clear views of the inventory and	
personnel within the dryer system premises.	

Delivery Period:	
Delivery within one hundred fifty (150) calendar	
days from receipt of Notice to Proceed;	
Installation, test, and commissioning is within one	
hundred fifty (150) calendar days from succesful	
delivery.	
Place of Delivery:	
Various NFA Warehouses in Region VI:	
i. NFA Compound, Quintin Salas, Jaro, Iloilo	
City	
ii. NFA Compound, Poblacion 5, Dueñas, Iloilo	
Province	
iii. NFA Compound, PD Monfort, Dumangas,	
Iloilo Province	
Payment Terms:	
1. Advanced payment of 15 % of the contract	
price upon submission of necessary	
documents for Advanced Payment.	
2. Progress payment of the remaining 85% of	
the contract amount upon each milestone, as	
follows:	
a. Delivery of Main Equipment	
i. Grain Dryer (25% of contract amount)	
ii. Ricemill (25% of contract amount)	
b. Installation	
i. Grain Dryer (10% of contract amount)	
ii. Ricemill (15% of contract amount)	
c. Testing & Commissioning of Grain Dryer,	
Ricemill, and other works (10% of the	
contract amount)	

In compliance with Republic Act No. 9184, Section 18, and the 2016 Revised Implementing Rules and Regulations, Section 18, brand names are only used because of compatibility with existing platforms or equipment which will maintain performance, functionality and useful life.

I hereby certify that the Statement of Compliance to the foregoing technical specifications are true and correct, otherwise, if found false either durin the bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Bidder Name/Owner/Authorized Representative

Signature

Name and Designation

Date

Signed and Sealed:

Agricultural and Bio-systems Engineer

Signature

Name and Designation

Date

BID FORI	M (TECHNICAL SPECIFICATIONS)	
National	Food Authority - Central Office	
PURCHASE REQUEST NUMBER:		
END-USER:		
ITEM/LOT INFORMATION		
Item / Lot Description:	•••••	tion, Testing, and Commissioning the NFA Modernized Warehouses program at Various NFA
	Compounds in Region XII	
Quantity:	Two (2)	
Unit of Measurement (unit/pcs/lot):	Items	
Enumeration / Inclusions:	Item 1: Grain Dryer Item 2: Ricemill	
Bidders must state here either "Comply" or "No	t Comply" against each of the indiv	idual parameters of each
Specification stating the corresponding perform		
"Not Comply" must be supported by evidence i		
be in the form of manufacturer's un-amended s		
compliance issued by the manufacturer, sample		
supported by evidence or is subsequently found	· · · · · · · · · · · · · · · · · · ·	•
under evaluation liable for rejection. A stateme		
evidence that is found to be false either during be regarded as fraudulent and render the Bidde		
Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii).		
		REFERENCES
REQUIRED SPECIFICATIONS	STATEMENT OF COMPLIANCE	(include supporting documents) (attach brochure / technical data
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ITEM 2: 8 - 10 TPH CAPACITY RICEMILL	STATEMENT OF COMPLIANCE	(attach brochure / technical data
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b. From the pre-cleaner, pre-cleaned paddy is
conveyed to the mill day bin to prepare the
desired volume of input for the continuous
milling activity.
c. From the mill day bin, paddy is conveyed to
the destoner to remove particles such as
small stones, mud balls and other impurities.
d. The pre-cleaned and de-stoned paddy is
deposited in the paddy collection bin before
it is subsequently conveyed to the rubber roll
type dehuller. Attached below the dehuller is
the husk aspirator/separator which removes
the rice hull after dehulling.
e. From the dehuller, the grain output moves
to the paddy separator to separate unhulled
paddy from the brown rice.
f. Unhulled paddy is returned to the rubber
roll de-huller while brown rice moves to the
brown rice millday bin.
g. The brown rice moves to the 1st stage
(abrasive) whitener.
h. Partially milled rice moves to the 2nd and
3rd stage (abrasive) whitener, then
subsequent polishing using friction and water
mist type polisher.
i. Rice bran is removed from the rice grain
during the whitening and polishing process.
j. Milled rice is moved to the sifter (brewer
rice removed by the sifter).
k. Then milled rice is moved to the color
sorter to remove damaged and discolored
kernels.
I. Polished rice is moved to the length grader
(head rice is moved to head rice bin while
broken rice is moved to broken rice bin).
m. Pre-selected amount of head rice and
broken rice move to the blending station .
n. The pre-blended rice is then moved to the
2nd mist polisher.
o. After the final mist polishing, the polished
rice will transfer to the packaging area with
semi-auto weighing machine for the desired
package sizes (5kg, 10kg, 25kg, and 50kg).
p. The well-packed mist-polished rice shall be
delivered either for storage or directly
delivered either for <u>storage</u> or <u>directly</u> chipped out for distribution to intended NEA
shipped out for distribution to intended NFA
<u>shipped out</u> for distribution to intended NFA clienteles.
<u>shipped out</u> for distribution to intended NFA clienteles. Aajor Components
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 <u>shipped out</u> for distribution to intended NFA clienteles. Major Components Component 1: Paddy Receiving & Pre-Cleaning Section 1.1 Paddy Millday Bin Paddy stored in the silos shall be moved to the mill day bin by top loading drag conveyor. It will serve as holding bin of paddy for
shipped out clienteles.for distribution to intended NFA clienteles.Major ComponentsComponent 1: Paddy Receiving & Pre-Cleaning Section1.1 Paddy Millday Bin Paddy stored in the silos shall be moved to the mill day bin by top loading drag conveyor. It will serve as holding bin of paddy for milling. Paddy shall be moved to the feeding
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Hopper bottom for self flowing of grains
Circular or rectangular in shape which ever is appropriate for ease of operation.
It shall be made of all steel construction.
1.2 Paddy Receiving Hopper / Dumping Pit
Large impurities shall be strained/removed on
the steel grating. The grain discharge port
shall be provided with flow control valve and
can be calibrated to achieve the desired flow
rate of 8 to 10tph. The valve can be closed or
opened without altering the calibrated flow
rate. The paddy receiving hopper is made of all
steel construction
Flush-mounted on concrete floor
- w/ angle-bar stiffener support
- 35mm bar grating.
With removable checkered plate cover for
safety and protection when not in use
Provided with dust suction hood to control
proliferation of dust inside the mill.
Minimum 10 tph discharge port.
1.3 Paddy Pre-cleaner
From feeding hopper, paddy is moved to the paddy cleaner to remove small, medium and
large size impurities, and lightweight
impurities
Capacity: 8-10 TPH
Minimum output cleaning efficiency: 90%
Manual or Auto-feed control
Multi-stage cleaning that can remove small,
medium and large size impurities, and
lightweight impurities
With clog prevention mechanism
Provided with magnetic separator
1.4 One (1) Set Paddy De-stoner
The machine separates particles by density.
The machine will remove materials denser
than paddy, such as stones, mud balls, and
other small solid impurities
Capacity: 8-10 tph
Manual or Auto-feed control
1.5 Bulk Weigher
With grain flow scale to monitor weight of
cleaned paddy prior to dehulling.
Capacity: 20TPH
Touch pad control system
Component 2: Dehulling Section
2.1 Paddy Tank
It will serve as holding bin of pre-cleaned
paddy for dehulling.
Capacity: 20MT
Auto discharge/shutter control and with level
sensor

Inclination of the discharge chute compatible
to the angle of repose of the paddy for
self-flowing of paddy.
Provision of ladder and railings for inspection,
repair and maintenance of the bin
The bin should be painted with rust-proofing primer and with final paint color
It shall be made of all steel materials which
are brand new
2.2 Three (3) sets De-Huller with Husk
Aspirator
- The three dehullers are use to remove husk
of the paddy grain. The combined capacity of
the dehullers should be enough to de-husk
the paddy coming from the millday bin and
the return of un-hulled paddy from the paddy separator.
- The husk aspirator is added to separate and
blow the husk out of the brown rice and
paddy.
With combined capacity of 8-10 tph
Rubber roll type huller
Minimum hulling efficiency: 79%.
With automatic and pneumatic adjustment
and control of rollers.
With magnetic separator to remove ferrous
particle from the product
With husk aspirator: Rice hull discharge to
rice hull tank via drag chain conveyor and
bucket elevator
Fitted with dust collection system
Touch pad operation and electronic control
system and with error indicator.
Component 3: Separation Section
3.1 One (1) set Paddy Separator
It separates un-hulled paddy from brown rice.
The un-hulled paddy is returned to the
De-hulling machine while the brown rice is
moved to the brown rice tank in preparation for whitening.
Capacity: 7TPH
With return elevator to the hulling mechanism and paddy separator
With magnetic separator to remove ferrous
particle from the product
Push button operation and control system or
better with error indicator
Multi-layer, indented tray
Adjustable tray inclination
Component 4: Whitening and Polishing Sectio
4.1 Brown Rice Tank
It will serve as temporary holding bin of
brown rice for whitening / polishing
Capacity: 20 MT
Auto discharge/shutter control and with level
sensors.

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4.2 Whitening and Polishing Section
Whitening or polishing is the process of
removing the bran layer and the germ from
the kernel through either abrasive or friction
polishers. To reduce the number of broken
grains during the whitening process, rice is
normally passed through two to three
whitening machines connected in series.
Capacity: 5-6TPH
Manual or Auto feed control
Three (3) whiteners (gravity type)
Abrasive type or combination of abrasive and
friction type whitener
With magnetic separator to remove ferrous
particle from the product
With air cooling blowers to reduce rice
temperature during processing
With negative pressure air wind net system
for bran extraction
With analog or digital pressure meter and
ammeter
4.3 Sifter
Separates brewer rice by oscillating or
vibratory sifter
Capacity: 5-6TPH
With brewers removing device
Oscillating tray-type sifter or a vibratory type
Push button operation and control System or
better with error indicator
4.4 One (1) set Mist Polisher
First pass. It is a friction type of whitening
machine, which delivers a fine mist of water
during the final whitening process. It is a
process of mixing a fine mist of water with
the dust retained on the whitened rice. The
output improves the luster of rice without
significantly reducing milling yield.
Push button operation and control System or
better with error indicator
With magnetic filters
Fully Automatic with Sensors
4.5 Color Sorter
A machine that is used to remove damaged
and discolored kernels including particles
other than white rice kernels.
Intelligent optical selector and sorting for rice
and with color and defects profiling
Intelligent individual defect detection up to
99% (minimum) defect removal
Intelligent automation: optical sorter
consistently adjust to the incoming product
LED lighting technology
Able to reject discolored and damaged kernel
and eject impurities even during high capacity
processing (6 TPH minimum)

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Operation and control system: easy-to-use
touch panel (with display that shows status
and error messages) With Infrared camera for glass removal
4.6 Length Grader and Rotary Sifter A machine that is used to separate grains into
head rice, large and small broken rice, tips
and brewers.
Capability to sort short, medium and long
grains
Provision of inspection window
Transition pipes are equipped with sampling
outlets (every stage)
Component 5: Blending and Mixing Section
5.1 Three (3) Sets Blending tank (Headrice tank, large broken tank and small broken
tank)
Capacity per tank: 13 tons each
with three (3) automatic flow balancer /
volumetric mixer
Works with any variety of rice
Pneumatically controlled proportioning gate
with automatic closing in case of a power
failure
Measurement system with an impact plate
and electronic force transducer 5.2 One (1) set Mist Polisher
Second pass. It is a friction type of whitening
machine, which delivers a fine mist of water
during the final whitening process. It is a
process of mixing a fine mist of water with
the dust retained on the whitened rice. The
output improves the luster of rice without
significantly reducing milling yield. Push button operation and control System or
better with error indicator
With magnetic filters
Full Automatic with Sensors.
Component 6: Bagging/Packaging Section
6.1 Two (2) Units Holding Bin/Tank
Capacity per tank: 8 tons each
Provided with two discharge ports integrated with two lines of milled rice packaging
system.
Two lines shall be semi-automatic with
manual bagging, with built in flow scale
function that can accurately bag 5kg, 10kg,
25kg, and 50 kgs.
With bag sewing machine and belt conveyor.
6.2 Rice Hull Compactor
Capacity: 60-100 Bales per hour
Bale weight: 20-30 kg per bale
It shall be used to compress rice husks into
bales to reduce space for transport or
storage.
6.4 Laboratory Equipment

6.4.1 One (1) Unit Grader
Dimensions : 19-23" x 14-18" x 16-20"
Weight : 30-40 lbs
Material : Aluminum, stainless steel, or brass
Timer : Digital
Indent Cylinder : Cylinder no. 12
Power Source : 220-240 V, 50/60Hz
OTHER REQUIREMENTS:
Should include the following parts and
features:
- Variable speed control
- Collection pan tilt adjustment with angle indication
- With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
6.4.2 One (1) Unit Huller
Model / Type : Table Top / Rubber
Roll Type
Hopper Capacity : 250 grams
paddy sample (minimum)
Size of Rubber Roll : 35 mm x 100
mm (width x diameter) ±3mm Hulling Capacity : 40 - 50
Hulling Capacity : 40 - 50 kilogram/hour
Power Source : 220-250V, 50-60
Hz
Motor Power : 0.50 - 0.75 H.P.,
Single Phase
Dimensions : 700 x 300 x 700
mm (L x W x H) (minimum)
Weight : 70 kilogram
(maximum)
Hulling Efficiency : 75% in the first pass of the sample (minimum)
Other requirements
-Must have a spare pair of rubber rolls
-Must bear the following:
a. Identification or trademark of the
manufacturer
 b. Model and serial number c. Guarantee certificate or marks
-With detachable husk collector
-Easy to operate
-Heavy duty / sturdy
-Be able to provide consistent and accurate
results
-With transparent observation window to
monitor the hulling operation
6.4.3 One (1) Unit Rice Polisher
Model / Type : Table Top / Abrasive
Hopper Capacity : 200 grams brown rice
(minimum)
Polishing Capacity : 10 kilogram/hour
(minimum)

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Power Source : 220-250V, 50-60 Hz
Motor Power : 0.50 – 0.75 H.P., Single Phase
Dimensions : 400 x 250 x 300 mm (L x W x H) (minimum)
Weight : 60 kilogram (maximum)
Grit Size of Abrasion Roller : No. 36 or 40
Timer Setting : Automatic; adjustable in seconds
Polishing Efficiency : 79% if WMR; 81% if RMR (minimum)
Other requirements
 Must have one spare abrasive roller Must bear the following: a. Identification or trademark of the manufacturer b. Model and serial number
 c. Guarantee certificate or marks Easy to operate Heavy duty/sturdy Capable of processing rice samples to
different milling degrees 6.4.4 One (1) Unit Ductless Fume Hood
Dimension (W x D x H) : Interior - 700-950 x 500-700 x 600-850 cm Exterior - 800-1000 x 500-800 x 900-1300 cm Weight : 100-150 kg Blower : Centrifugal blower Volume of Air Treated : 320 ± 10 m3/h Voltage / Frequency : 230 Vac, 50/60 Hz Material : Frame - Powder-coated steel Glass – Tempered or laminated safety glass Type of Filter : Organics - Gases or vapors Other Requirements Should include the following features:
-User's manual -Easy to install replaceable filters -Includes universal electric outlet -With light source -With at least one (1) year warranty and after-sales services (e.g. preventive maintenance)
6.4.5 One (1) Unit Digital Thickness Gauge
Dimensions (W x H) : 90-120 x 140-160 mm
Weight : 250-450 g
Operating Temperature : 0-40°C
Gauge Type : Digital
Digital : LED or LCD
Range : 0-25 mm
Accuracy : ± 0.001
Accuracy : ± 0.001 Resolution : 0.01 mm

Units : Metric
Power Source : Battery Operated
Other Requirements Should include the following parts and
features:
-Anvil with groove
-User's manual -With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
-Certificate of Calibration from DOST or any
accredited Calibration Laboratory.
6.4.6 One (1) Unit Tyler Sieve
Dimensions (H x D) : 2-5 x 12"
Weight : 100-500 g per piece
Material : Stainless Steel
Mesh Size : U.S.A. mesh no. 10-20
Other Requirements:
Should include the following features:
- Tyler Sieve U.S. mesh no. 10,12,14,16,18
and 20 - User's Manual
- With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
- Certificate of Calibration from any
accredited Calibration Laboratory
6.4.7 One (1) Unit Rice Sieve
SIEVE
Material :
Stainless steel (SS) or Aluminum
Gauge 20 (0.035" / 0.89 mm) Perforation : 5.5/64" round or 2.18 mm
Frame Diameter :
13.0 - 13.5" or 330 - 343 mm (upper rim)
12.0 - 12.5" or 304 - 318 mm (lower rim)
BOTTOM PAN (RECEIVING PAN): Should
match the sieve and could easily be removed
Material :
Stainless steel (SS) or Aluminum
Gauge 20 (0.035" / 0.89 mm)
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction
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Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant -Ease of cleaning
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant -Ease of cleaning 6.4.8 Two (2) Units Indented Plate
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant -Ease of cleaning 6.4.8 Two (2) Units Indented Plate Capacity : 100-300 g Material : Stainless steel
Gauge 20 (0.035" / 0.89 mm) Diamter : 13.0 - 13.5" or 330 - 343 mm Height : 2.5 - 3.0" deep or 64.0 - 76.0 mm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant -Ease of cleaning 6.4.8 Two (2) Units Indented Plate Capacity : 100-300 g

Dimensions (L x W) : 30-35 cm x 25-30 cm Other requirements -Heavy duty construction -Smooth surface on joints -Corrosion resistant - Ease of cleaning 6.4.9 Two (2) Units Triangular Pan Dimensions (W x H) : 10-13 x 10-13 x 2.5-6" Weight : 1-2.5 lbs Material : Plastic Other Requirements Should include the following features: - Molded plastic - With at least one (1) year warranty and after-sales services (e.g. preventive maintenance) 6.4.10 One (1) box Disposable Petri Dishes With 480 units in one (1) box Diameter : 90 mm Height : 10-20 mm Metarial : Polystyrene Lid Type : Non-vented Sterilization : Sterile Other Requirements Should include the following features: With transparent lid -Perfectly flat and smooth surface 6.4.11 Ten (10) Units Forceps Length : 5.5" Jaw Curvature : Curved Working Surface : Serrated Handle : Finger rings Material : Stainless steel Usage : Reusable 6.4.12 One (1) Unit Chiller (Two-door) Capacity : 14 cu. ft. Dimensions (L x W x H) : 57-61 x 65-69 x 206-210 cm. Technology Type : Inverter Wattage : 190 watts
-Heavy duty construction -Smooth surface on joints -Corrosion resistant - Ease of cleaning 6.4.9 Two (2) Units Triangular Pan Dimensions (W x H) : 10-13 x 10-13 x 2.5-6" Weight : 1-2.5 lbs Material : Plastic Other Requirements Should include the following features: - Molded plastic - With at least one (1) year warranty and after-sales services (e.g. preventive maintenance) 6.4.10 One (1) box Disposable Petri Dishes With 480 units in one (1) box Diameter : 90 mm Height : 10-20 mm Metarial : Polystyrene Lid Type : Non-vented Sterilization : Sterile Other Requirements Should include the following features: -With transparent lid -Perfectly flat and smooth surface 6.4.11 Ten (10) Units Forceps Length : 5.5" Jaw Curvature : Curved Working Surface : Serrated Handle : Finger rings Material : Stainless steel Usage : Reusable 6.4.12 One (1) Unit Chiller (Two-door) Capacity : 14 cu. ft. Dimensions (L x W x H) : 57-61 x 65-69 x 206-210 cm. Technology Type : Inverter
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206-210 cm. Technology Type : Inverter
Technology Type : Inverter
Shelves : Four (4) adjustable coated wire
shelves
Temperature : ± 2 °C to +8 °C
Plug Type : Type A – 2 Flat prong plug
Other Requirements
-With 7-level temperature control, fan-cooled
system, adjusted leveling feet, double glass
door with recessed handle and key lock.
-At least one (1) year warranty for parts and services

6.4.13 One (1) Unit Portable Rice Mill
Capacity : 150 – 180 g
Husking Rate : 99%,
minimum
Weight : 20 kg, maximum
Time Setting : Digital
Voltage : AC 220 V
Surface Material : Hard plastic
Feed Hopper / Bucket : Stainless steel
Other Requirements
-With brochures and user manual
-Ease of cleaning
-Heavy duty
6.4.14 One (1) Unit Laboratory Sample
Divider Material : Stainless steel
Number of Chutes : 14
, , ,
Sample Pans : 4
Hopper Size : 8" x 6-3/4" (203 mm x 171 mm) ±5%
Other requirements
-Heavy duty construction
-Smooth surface on joints
-Corrosion resistant
-Ease of cleaning 6.4.15 One (1) Unit Top Loading Balance
Capacity : 2,200 g
Weighing Units : Gram (g) and Kilogram (kg)
Linearity : ± 0.02 g
Readability : 0.01 g
Repeatability : 0.01 g
Adjustment : Internal
External Calibration : 2 kg, F1
Leveling : Manual
Stabilization Time: < 0.9 s
Data Interface : RS232; USB – C
Dimensions (WxDxH): 190-220 x 310-330 x
70-100 mm
Display : LCD / LED Display
Language : English
Power Requirements : 100-240 VAC, ± 10%,
50-60 Hz, 0.2 A

Other Requirements
Should include the following: -One (1) unit Data Printer
-One (1) unit Data Printer -Ribbon cartridge: exchangeable, black ink
-Paper roll
-AC adapter
-With calibration certificate from a
PAB-accredited calibration laboratory; and
-With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
6.4.16 One (1) Unit Laboratory Working Table
Dimensions (WxDxH) : 230-250 x 140-160 x 85-95 cm
Material : Granite
Frame : Coated stainless steel
Weight capacity : 150-250 kg
Drawer : 15-20 cm deep per
compartment, recessed handles
Utility : Built-in
retractable outlet
Other Requirements
-Should include the following:
-Rounded edge
-Cable management tray for power outlet
-With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance) 6.4.17 One (1) Unit Analytical Balance
Weighing Units : Gram (g) or milligram (mg)
Linearity : ±0.02 mg
Readability : 0.0001 g or 0.1 mg
Repeatability : ± 0.01 mg
Adjustment : Internal
External Calibration : 200-300 g, F1
Leveling : Manual
Stabilization Time : < 3 s
Data Interface : RS232; USB – C
Dimensions (WxDxH): 190-250 x 300-400
x 300-450 mm
Draft Shield : Anti-static glass
Draft Shield : Anti-static glass shield with sliding doors, minimum 3 doors
6
shield with sliding doors, minimum 3 doors
shield with sliding doors, minimum 3 doors Display : LCD / LED Display

Other Requirements
Should include the following:
-One (1) unit Data Printer
-Ribbon cartridge: exchangeable, black ink,
and paper roll -AC adapter
-AC adapter -With calibration certificate from a
PAB-accredited calibration laboratory; and
-With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
6.4.18 Ten (10) Units Temperature and
Humidity Data Logger
Dimension ($L \times W \times H$) : 80-100 x
90-120 x 15-40 mm
Weight : 100-200 g
Measurement Parameter :
Temperature and humidity
Measuring Range : -30-65 °C and
0-100% RH
Accuracy : $\pm 1 ^{\circ}C \text{ and } \pm 4 \text{RH}$
Material : ABS
Resolution : 0.1 °C and 0.1% RH
Power Source : Battery operated
Communication Interface : Micro USB
/ Type C
Display : LED / LCD
Other Requirements
Should include the following features:
6
-Waterproof
-Easy to install
-With at least one (1) year warranty and
after-sales services (e.g. preventive
maintenance)
6.4.19 One (1) Unit Magnifying Lens with
Stand & Light Source
Light Source : LED
Lens Configuration : Single
Material : Lens/optical glass,
Strut/brass (chromium plating)
Shaft/brass (black plating)
Power supply : DC12V
Dimension :
Body/90 x 250 x 140mm
Base/80 x 100 x 6mm
Strut/ф19 x 370mm
Shaft/ф13 x 160mm
$\pm 20 \text{ mm per part}$
Weight : 500-700 g
Magnification : 2.0-3.0 x
Lens diameter (фmm) : 45-55
Operation distance : 150 mm

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The CCTV system shall improve inventory	
accuracy, enhance security, and optimize	
operations. It consists of an integrated	
cameras and sensors to monitor inventory	
movement and status, providing real-time	
insights. Creating a digital "eye" on inventory	
th manufacturer's, distributor's or bidder's	
tification that the proposed rice mill brand,	
rticularly its major components, would only be	
m a single brand Auxiliary Components	
1. Grain bucket Elevators	
a. Shall be provided in all appropriate	
components of the ricemill to transport grains	
from one machine to another machine.	
b. Capacities must be sufficient/compatible to	
the rated capacities of each machine.	
c. Buckets for paddy shall be made from	
stainless steel (at least 304 grade) while	
buckets for brown rice and milled rice shall be	
made of heavy duty food grade plastic cups.	
d. Elevator leg material must be of	
appropriate standard thickness to withstand a	
seizmic zone 4 earthquake.	
e. Provision of downspout with two-way	
valve, or three-way valve if necessary,	
attached to bucket elevator to divert grain	
flow from a certain stage of processing.	
f. Installed with inspection port at the	
elevator leg and access port at the elevator	
booth for inspection and cleaning.	
2. Ricehull Tank and Husk Collection System	
Integrated with Rice Hull Compactor	
a) The ricehull tank shall be made of 2mm MS	
plate supported by angle/steel bars.	
b) Rectangular tank with hopper bottom.	
Discharge chute is provided with pneumatic	
control gate/shutter for ease of operation.	
c) With capacity to hold ricehull accumulated	
over an 8-hour ricemill operation.	
d) Minimum height must be 5 meter from the	
ground to the lowest part of the discharge	
chute to accommodate large cargo trucks	
during unloading and hull disposal.	
e) Inclination of the hoppered	
bottom/discharge chute should comply to the	
angle of repose of the rice hull (35 – 50	
degrees) to achieve complete emptying of the	
tank.	
f) Provision of service ladder and railings for	
the unloading of rice hull, repair and	
maintenance of the rice hull tank.	
g) The rice hull bin should be painted with	
rust-proofing primer and with final paint color	
h) Provision of appropriate rice hull	
,	
compactor system to compress rice husks to	
bales to reduce space during transport or storage.	

a) All sections where dust can be generated
or emitted due to flowing or moving grains
shall be fitted with dust-collection system
(starting from the dumping or intake pit, mill day bin, pre-cleaner, de-stoner, huller, paddy
separator, whitener, mist-polisher, color
sorter, length grader, sifter, and grain
elevator/conveyors)
b) With dust filter for dust and rice bran
c) With negative suction air wind net system
d) Sheet metal ducting
e) All connectors shall be airtight
4. Rice Bran Collection System
Collects bran generated at the whitener,
polisher, sifter and mist polisher machines. It
consists of dust collecting filter, bran suction
blower, and air ducting.
5. Main Control Center
The rice mill shall be provided with
appropriate air-conditioned control room that
houses the main control panel and it will serve as office of the rice mill operator. Walls
shall be provided with fixed glass window for
the operator to monitor the milling operation.
Shall be provided with two glass doors.
6. Electrical/Motor Control System
Provision inside the main control center of
centralized electrical control panel using an
integrated Programmable Logic Control (PLC)
and Supervisory Control and Data Acquisition
(SCADA) or equivalent technology and functionalities.
Automation system that houses all related
motor control components such as circuit
breakers, magnetic contactors and alarm
system.
The control panel shall be provided with
mimic flow chart where the running status
and control of each milling component is
shown and represented by pilot lights. With interlocking system and emergency
button.
With individual magnetic starter and overload
protection for all electric motors.
All motors shall be 3 phase, 60 hz,220 or 440
volts or as maybe appropriate for the given
overall rice mill plant design.
All electrical wires, sub-feeders and feeder lines shall be in conduits and run through
wire trays from electric motors to the motor
control center.
Pull boxes shall be provided for every branch
circuit.
An Emergency Manual Switch Button (ESMB)
shall be provided for every motor/equipment
near the working area for emergency shut-off
to avoid accident.

	shall be used from the
motor/equipment	
• •	s distribution transformer
	power for the rice mill's
three-phase load.	
	d accessories such as but
	ary metering, current
	tial transformer, lightning
	ed to energize the rice mill
plant as required b	-
	e included in the rice mill
plant.	shall be in accordance
	Electrical Code and rules he Bureau of Product and
Standard.	he buleau of Product and
	ll provide all supplies,
	pment and perform all the
	or the complete execution
of all electrical wor	-
7. Emergency Pow	
	-
	l) unit diesel stand-by
	set (gen-set) dedicated
	e whole rice mill facility. provide sufficient electrical
	batible with the power
	whole rice mill facility,
	former and the pieces of
ancillary equipmer	-
	matic transfer switch (ATS)
	sy operation during
	er interruption from the
local electric coope	-
	nouse shall be built to
protect the gen-set	
accessories from in	
8. Air Compressor	Source
-	essed air room with line
-	ir tanks and with variable
permanent magne	
. Additional Requirer	
	ility should conform to the
following perform	-
	0 tons per hour (tph)
Hulling efficiency:	
	dex: 0.95, minimum
Percent Head rice i	ndex: 0.90, minimum
Milling degree: Reg	gular Grade to Premium
Grade Milling	
No. of paddy per k	ilogram milled rice: 15
Grains Maximum	
2. The rice mill sha	II be designed and built
rigidly, making it s	uitable for heavy-duty
-	an withstand extreme
	s to which it can be
exposed.	

3. The construction shall be durable without	
major breakdown of the major components	
within the first year of operation. Warranty	
shall be provided for parts and services	
within one year or 1920 hours operation	
whichever comes first after the installation	
and acceptance of the procuring entity	
except on consumable parts such as rubber	
rolls, emery stones and screens. General	
requirements of the warranty shall be in	
accordance with PNS/PAES 138:2004 –	
Agricultural Machinery – Guidelines on After	
Sales Service.	
4. Major components of the rice milling	
system shall be installed on a rigid metal	
mounting platform with a minimum	
elevation of 2.5 meters from the warehouse	
floor. Only the receiving pit shall be built	
below ground and all other rice mill	
components and auxiliary equipment shall	
be installed on-floor level and on elevated	
platforms. Rice mill personnel can stand and	
walk freely under the platform to monitor	
the operation of the rice mill.	
5. All equipment, bucket elevators,	
conveyors bins/tanks are serviceable with	
good accessibility around each machine	
(service platform, ladder and catwalk). There	
are provisions for lubrication of the sealed	
type bearings and belt tightening. When	
necessary, diverter or overflow valves are	
provided to divert the flow of grains.	
6. Ease of access for maintenance, repair,	
and monitoring works for all components	
and parts of the rice mill. Path walks with	
markings/direction and borders. Stairs and	
risers fitted with safety railings.	
7. Surge tank or control tank with level	
sensor and pneumatic-auto discharge shall	
be installed in such machine component of	
the rice mill.	
8. All major components and parts of the	
rice mill should be painted powder coated or	
regular paint with rust-proofing primer and	
final paint color (minimum of 2 coatings)	
9. Spare parts and tool room shall be built to	
safe keep all tools and inventory of easily	
worn out parts of the rice mill.	
10. Special tools needed to fix critical	
machine component should be provided.	
11. The following standard set of heavy duty	
tools appropriate for the conduct of repair	
and maintenance of the facility which is	
made of tempered steel and chrome	
vanadium should be provided;	
a. One (1) set socket wrench (No. 8, 9, 10, 11,	
12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24,	
27, 30, 32, minimum)	
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b. One (1) set combination wrench (open and	
box, 10 pcs-size appropriate to the rice milling	
system)	
c. Adjustable wrench: 300 mm, minimum	
d. Electrical plier: 200 mm, minimum	
e. Screwdriver: Philips and flat head, 300mm,	
minimum	
f. Grease gun: 250mm cylinder length,	
minimum	
g. Mechanical pliers: 200mm, minimum	
h. Heavy duty toolbox and roll up tools	
holder. Size that can accommodate the	
required tools	
12. Copy of Equipment Manufacturer's	
Manual with Parts List of each ricemill	
system component and all accessories such	
as pre-cleaner, hulling and husk aspiration	
system, abrasive whitener, friction polisher,	
mist polisher color sorter, length grader and	
blending tank, packaging machine, and	
bucket elevator written in English or Filipino	
Vernacular to be presented during post	
qualification evaluation.	
13. The Contractor/Manufacturer's/ Dealers	
shall provide comprehensive training to NFA	
personnel with the following topics:	
a.Fundamentals of Rice milling	
b.System operation and management of rice	
milling.	
c.Operation, trouble shooting, repair and	
maintenance of Rice mill plant	
14. The rice mill shall be tested in	
accordance with PNS/PAES 207:2015 –	
Agricultural Machinery –Rice mill – Methods	
of Test.	
15. With the following markings and	
labeling, which shall conform with PNS/PAES	
201:2015	
Registered trademark of the manufacturer	
Name and address of the manufacturer	
 Name and address of the importer/distributor 	
Country of manufacture/ Made in the	
Philippines	
• Type; Serial number	
Load capacity, metric tons	
• Rated power/voltage/ frequency/ phase, in	
metric units	
Shipping information	
• Dry weight in metric units	
• Dimensions in metric units	
 Safety/Precautionary markings 	
16. Factory acceptance test prior to delivery	
of items.	
17 Cumpling many burgles all for the	
17. Supplier may include other features not mentioned but are necessary for efficient	

withstand seismic zone 4 earthquake	
Other Technical Requirement:	· ·
1.Valid AMTEC test report of the Multi-Pass	
Rice Mill of the same model as to basic parts	
and major components and the results should	
conform to PNS/BAFS PABES 303:2020	
Postharvest machinery- Rice mill	
Specifications.	
2. Valid Permit To Operate (PTO) or	
certification from Bureau of Agricultural and	
Fisheries Engineering (BAFE) of their	
application for PTO.	
3. Process flow layout and schematic diagram	
including 3D perspective of illustration of the	
Rice Milling System drawn in A3 size paper	
duly signed and sealed by a licensed	
Agricultural and Bio-systems Engineer for	
post-qualification evaluation.	
4. Electrical plan and layout duly signed and	
sealed by a licensed Professional Electrical	
Engineer as a condition for Payment.	
- From transformer to main switch to control	
panel to machine components.	
5. Brochures of the offered Equipment	
(written in English/Filipino)	
TIFICATIONS:	
1. Certification from the bidder that the rice	
milling unit and each component are branded	
and have part numbers.	
2. National Agricultural and Fisheries	
Machinery Assemblers, Manufacturers,	
Importers, Distributors and Dealers	
Accreditation and Classification (NAMDAC)	
Certification for the Bidder.	
3. Provision of after sales services:	
- Certification of two (2) years warranty for	
services and parts of the rice milling system	
and other components	
- Valid Certificate of Distributorship/	
Authority to sell, and Commitment to Supply	
directly issued by the manufacturer	
-Certification that the supplier will conduct at	
least 40 hours of training on the proper	
handling, operation and maintenance of the	
0,	

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-Manufacturer's, distributor's or bidder's		
certification that the proposed Ricemill brand		
have been sold in the Philippine market for		
the last thirty (30) years from the date of bid		
opening, accompanied or duly supported by		
documentary proof. The documentary proof		
must be verifiable through phone call, ocular		
inspection or both.		
a) Record of sales (Official receipt); or,		
b) Bill of lading, and/or other similar records		
indicating shipment or delivery of the grain		
dryer brand to the Philippines (if applicable)		
4. Certification of guaranteed spare parts		
availability for at least five (5) years.		
5. Certification of Very Satisfactory		
Performance of the Multi-Stage Rice Mill		
being offered as to: i) Machinery		
Performance; ii) Machinery Durability; and,		
iii) Availability of Parts and Service.		
Who may issue:		
- The Bidder shall provide list of five (5)		
customers/clients within the Philippines with		
addresses and contact numbers, and a		
certification from at least one (1)		
customer/client.		
- Any government or private		
Agency/Company within the Philippines, duly		
signed by the Current Head of agency.		
Excluding the following:		
- Bidder's Dealers and Authorized Service		
Centers		
Warranty shall be provided to parts and services		
within two (2) years after the date of acceptance		
of the unit by the end-user, except on fast moving		
and easy to wear parts such as fan belts and grain		
buckets. General requirements of the warranty		
shall be in accordance with PNS/PAES 138:2004 –		
Agricultural Machinery – Guidelines on After Sales		
Service		
Delivery Period:		
Delivery within one hundred eighty (180)		
calendar days from receipt of Notice to Proceed;		
Installation, testing, and commissioning is within		
one hundred twenty (120) calendar days from		
successful delivery.		
Place of Delivery:		
Various NFA Warehouses in Region VI:		
i. NFA Compound, Quintin Salas, Jaro, Iloilo City		
ii. NFA Compound, Poblacion 5, Dueñas, Iloilo		
Province		
iii. NFA Compound, PD Monfort, Dumangas, Iloilo		
Province		

Payment Terms:
1. Advanced payment of 15 % of the contract
price upon submission of necessary documents
for Advanced Payment.
2. Progress payment of the remaining 85% of the
contract amount upon each milestone, as follows:
a. Delivery of Main Equipment
i. Grain Dryer (25% of contract amount)
ii. Ricemill (25% of contract amount)
b. Installation
i. Grain Dryer (10% of contract amount)
ii. Ricemill (15% of contract amount)
c. Testing & Commissioning of Grain Dryer,
Ricemill, and other works (10% of the contract
amount)

In compliance with Republic Act No. 9184, Section 18, and the 2016 Revised Implementing Rules and Regulations, Section 18, brand names are only used because of compatibility with existing platforms or equipment which will maintain performance, functionality and useful life.

I hereby certify that the Statement of Compliance to the foregoing technical specifications are true and correct, otherwise, if found false either durin the bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Signed and Sealed:

Bidder Name/Owner/Authorized Representative

Signature

Name and Designation

Date

Name and Designation

Date

Signature

Agricultural and Bio-systems

Engineer