

DeSIRA Project Liberia/ August
2021

Fish Farming and Rice Growing

RFP
Post Harvest equipment
Construction

RFP/PSU/DFCS/Fabrication/25/08/2021

8/31/2021



PSU UNIT

RFP Post Harvest equipment Construction



DeSIRA Project Liberia

August 2021

Context

- Africa Rice Center (AfricaRice) is a leading pan-African rice research organization committed to improving livelihoods in Africa through strong science and effective partnerships.
- AfricaRice is implementing an integrated project in fish Farming and Rice Growing in Liberia funded by European Union (EU) (DeSIRA Integrated Rice-Fish Farming In Liberia) for a period of 36 months from January 2020.

To Support DeSIRA Operations, AfricaRice is looking for a Company/ workshop able to construct Post-harvest equipment listed in table

Purpose of the RFP

Type of equipment	Quantity
Rice mill	15
Rice thresher	15
Hammer mill	14
Rice parboiler	25
Pellet machine	14
Rice grader	11
Small kiln	8
Medium kiln	8
Pellet drier	2



Submissions Conditions

- You can submit your offer at A.Quotation@cgiar.org
- Deadline Submissions on **Friday 13 September 2021**
- **Mail subject: RFP/PSU/DFCS/Fabrication/25/08/2021**
- Offers validity 60 days
- Subject of the submission / DeSIRA Project-Post harvest Equipments Construction
- AfricaRice will reject late proposals.
- Proposal sent to the private email addresses of any AfricaRice staff may be rejected
- Any request for clarification must be sent in writing through electronic means to A.Quotation@cgiar.org
- AfricaRice has zero tolerance for fraud and corruption.
- AfricaRice Anti-fraud and Anti-corruption policy mention sanctions against any person compromised.

Offer content

- Your registration documentation
- Your maintenance plan for all the equipments
- The location of your workshop
- List of Available working tools
- **AfricaRice will provide the fabrication material, the engine and the fuel for the generator. So the quotation will not include those items.**
- Any other certifications or award of the workshop
- Existence of training facilities
- Indicate delivery time for each equipment
- Payment terms
- Your documented experience for similar work
- Project team experiences, CVs
- Fabrication plan for all the equipments
- Precise the warranty time for each equipment
- Acceptance of 10% as financial holdback for 2 month

Offer Evaluation

- the evaluation will be based on combination of technical
- **Technical evaluation**
- The evaluation of the technical proposals is noted on one hundred (100) points. An offer is declared technically valid to be considered for financial analysis when it obtains at least 70 points. Thus, only technical proposals that have totaled a minimum of 70 points out of 100 points will be qualified for the financial evaluation.
- **Financial Evaluation**
- The financial proposals shall be evaluated in accordance with the formula below. The submission with the lowest financial proposal (F_m), shall be given 100 points. The financial scores of the other bidders (F) shall be computed as follows:
 - N_f (financial score) = $100 \times F_m / F$
 - (F = amount of financial proposal of other bidders).



Technical Evaluation

TECHNICAL EVALUATION

EXPERIENCE	25
SUPPLIER GLES EXPERIENCE AND REGISTRATION DOCUMENTATION	10
SUPPLIER SPECIFICS EXPERIENCES FOR SIMILAR WORK	10
WORKSHOP CERTIFICATIONS AND AWARDS	5
WOK METHOD	30
CLEAR TIMELINE OF EQUIPMENTS FABRICATIONS	10
PROPOSED TRAINING ASSOCIATED	10
ANY OTHER INNOVATIONS PROPOSED FOR IMPROVEMENT	5
AFTER SALES MAINTENANCE PLAN	5
RESOURCES	35
PROJECT TEAM EXPERIENCES	10
AVAILABILITY OF PROJECT TEAM	5
AVAILABLE WORKING TOOLS/ LIST	10
SOURCE OF POWER SUPPLY AND NUMBER OF KVA	10
WARRANTY	10
EQUIPMENT WARRANTY	10
TOTAL	100



Financial Evaluation

FINANCIAL EVALUATION

PROJECT COST	80
PAYMENT TERMS	10
ACCEPTANCE OF 10% PAYMENT HOLDBACK FOR 2 MONTH	10
TOTAL	100

Equipments Specifications- RICE MILL



ITEM	UNITY	VALUE
TYPE	---	Motorized, with blower
HOURLY CAPACITY (KG/H)	Kg/h	250-400
ENGINE POWER	Hp	16-20
TYPE OF DEHULLING BLADE	-	Truck spring
TYPE OF DEHULLING SIFTER	-	Stainless steel
PIPE OF STONE SCREW		Material: car shock absorber spring
MILLING CHAMBER LENGTH		Length: 460 mm; Wight: 150 mm
TYPE OF BEARING		P208; 6 205
BLOWER CANAL		Sheet thickness 1,5 mm
DEHULLING RATE	%	95-100
BROKEN RATE	%	<10
HOURLY CONSUMPTION	l/h	2-2,5
SPECIFIC CONSUMPTION	l/T	9-11
INDICATION		Recommended for parboiled rice

Equipments Specifications- RICE TRESHER



ITEM	UNITY	VALUE
TYPE	---	Motorized
HOURLY CAPACITY (KG/H)	Kg/h	1200-1500 (with dry rice bunch)
CAPACITY PER DAY	T	5-8
IMPURITY RATE		<2%
OIL CONSUMPTION	liter/hr	1
ENGINE POWER	HP	6-7 Hp (diesel engine)
THRESHING DRUM		Black sheet thickness 2 mm; and stire
THRESHING RATE	%	99 -100
NUMBER O5F TIRE		2
BLOWING UNIT	-	1
NUMBER OF PALLET OF BLOWER	-	8
PERFORATE SHEET FOR VIBRATE SIFTER		Perforated sheet diam 8 mm; thickness 2 mm
BEARING OF THRESHING SHAFT	-	P207
BEARING OF BLOWER SHAFT	-	P205
BEARING OF SIFTER SHAFT	-	P20

Equipments Specifications- HAMMER MILL



SPECIFICATIONS	UNITY	VALUE
TYPE	---	Motorized
HOURLY CAPACITY (KG/H)	Kg/h	200-400
ENGINE	kw	12
CYCLONE		Sheet thickness 2 mm
BLOWER		Sheet thickness 6mm ; Sheet thickness 4mm ;
SIFTER HOLE DIAM	mm	1, 2, 3, 4
BEARING		P208
MILLING CHAMBER		Sheet thickness 6mm ; Sheet thickness 4mm

Equipments Specifications- RICE PARBOILER



ITEM	UNITY	VALUE
STEAMING CAPACITY PER BATCH	kg/batch	100
SOAKING CAPACITY	Kg	125-150
MATERIAL SOAKING AND STEAMING TANK		Stainless sheet thickness 2 mm steel
MATERIAL SOAKING AND STEAMING TANK COVER		Stainless sheet thickness 2 mm steel
MATERIAL OF SIFTER		Perforated sheet diam 2 mm; thickness: 2-3 mm
STEAMING TANK DIMENSIONS		Height: 610 mm; diam: 777 mm
MATERIAL OF FILLING AND EMPTYING PIPE COVER WITH THE WASHER		Pipe in stainless steel 40/49
STEAMING DURATION	Mn	20-30
CAPACITY PER DAY	Kg	500
WATER TANK CAPACITY	Liters	75

Equipments Specifications- PALLET MACHINE



SPECIFICATIONS	UNITY	VALUE
TYPE	---	Motorized
HOURLY CAPACITY (KG/H)	Kg/h	450
ENGINE	Hp	6-7
PELLET DIAM	Mm	2 ; 3 ; 4
FRAME		Angle bar 2''
PELLETING CHAMBER		Sheet thickness : 6 mm
SCREW CHAMBER		Galvanized pipe : diam 6'' ; thickness : 3mm ; length : 50 cm
HOPPER		Sheet thickness : 1,5 mm
BEARING		P207 ; 6206

Equipments Specifications- RICE GRADER



Item	Unity	Value
Type	---	Manual
Hourly capacity (kg/h)	Kg/h	300-400
Capacity per day	Kg	2000-2500
Angle of inclination	Degree	5
Number of operator		2
Quality of rice	%	Possibility to get rice: 5% broken; 10% broken, 15% broken ; 50% broken; 100% broken rate

Equipments Specifications- Small kiln



Specifications	Unity	Value
Capacity		10-20 kg of fish per batch
Utility		Smoke fish and meat
Combustible		Charcoal
Number of tray		2
Grease collector		1
Fire house		1
Smoked chamber		1
Material		Galvanized sheet; angle
Tray		Galvanized perforated sheet

Equipments Specifications- Medium kiln



Specifications	Unity	Value
Capacity		30 – 50 kg of fish per batch
Utility		Smoke fish and meat
Combustible		Charcoal
Number of tray		6
Grease collector		1
Fire house		1
Smoken chamber		1
Matériel		Galvanized sheet; angle
Trey		Galvanized perforated sheet
Fan		

Equipments Specifications- Pellet dryer



SPECIFICATIONS	UNITY	VALUE
UTILITY	---	For drying pellet and animal fish feed
CAPACITY PER BATCH	Kg	50-75
ENERGY SOURCE		gaz
DRYING DURATION		6-48 h
DRYING BOX		<ul style="list-style-type: none"> – Black sheet thickness 1,5 mm – Square bar 1.5''
THERMOMETER		Graduation from 0 to 150°C
GRID		With galvanized screen hole diam 6 mm