

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Gezira State



Ministry of Agriculture, Animal Wealth and Natural Resources

GENERAL ADMINISTRATION OF AGRICULTURE

Rice Promotion Unit

In Collaboration with

Japan International Cooperation Agency (JICA)

&

Post-harvest Technology Expert

Mr. Tokumoto Osamu

Rice Post-harvest Technology Training Program

Selection of Site & Layout of Building
for Rice Milling Machine

Prepared By:

Mr. Ahmed Elameen Abass

Nov. 2013



Criteria for Selection of Location For Rice Milling Unit (RMU)

1. Selection of Site

Building ,work space and storage:

- Paddy receiving space
- Paddy cleaning area
- RMU working space
- White rice storage and distribution
- Husk yard (Pollution)
- Safety (Security)

Location :

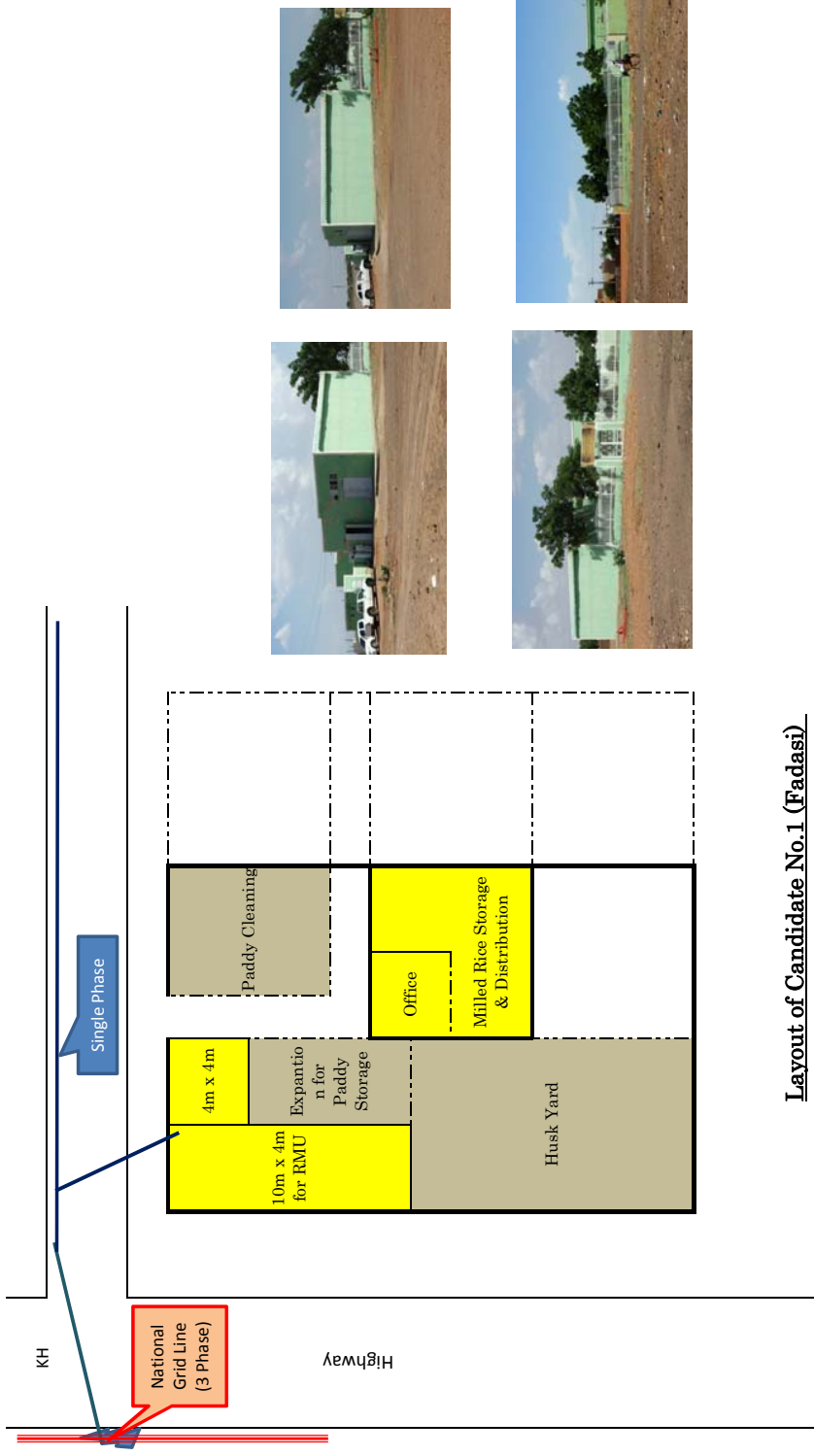
- Road access
 - 1\ Near to highway or not
 - 2\ Entering trucks and trailers
- Easy Extension services
- Easy collection and distribution of paddy
- Rice producing area or not
- Manpower

Electricity

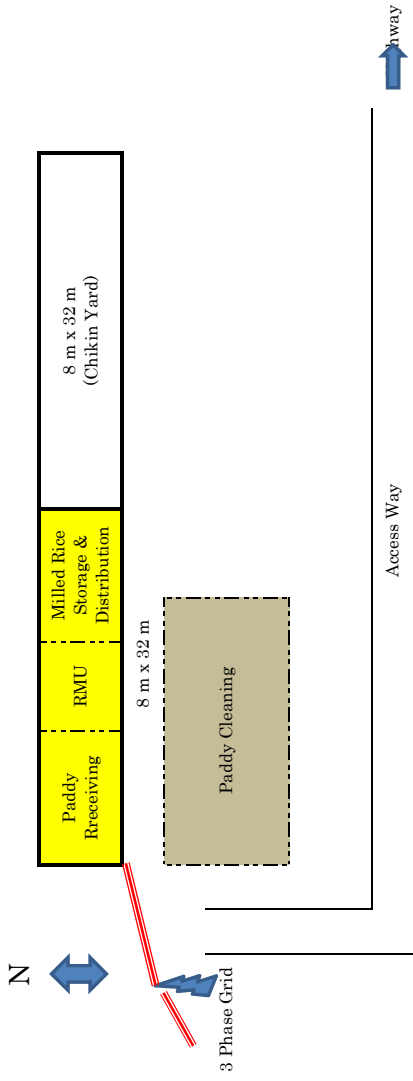
3 Phase is available or not

2. Layout of RMU Building

- Rough paddy cleaning area
- Cleaned paddy storage area
- RMU installation and working area
- Milled rice storage and distribution area
- Husk yard area

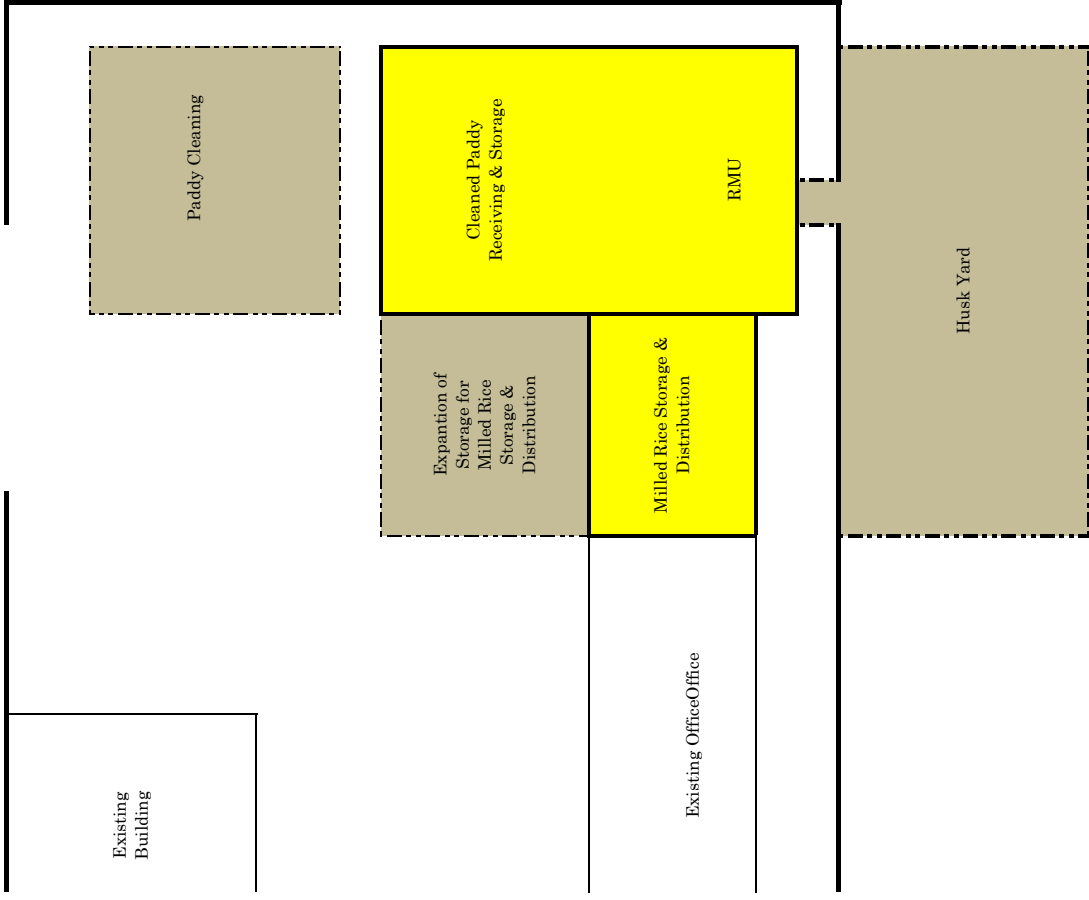


Layout of Candidate No.1 (Fadasi)



Layout of Candidate No.2 (Wadbalal)





Layout of Candidate 3 (Hasahisa)

Selection of Location for Rice milling machine

Candidate	No.1	No.2	No.3
Address	Fadasi	Wadbalal	Alhasahisa
1. Building , work space and storage			
Paddy receiving space	○	⊙	⊙
Paddy cleaning area	○	⊙	⊙
RMU working space	○	⊙	⊙
White rice storage and distribution	○	⊙	⊙
Husk yard (Pollution)	○	⊙	✘
Safety (Security)	⊙	✘	⊙
2. Location			
Access (near highway or not)	⊙	⊙	⊙
Entering trucks and trailer	⊙	⊙	⊙
Extension Services	⊙	✘	⊙
Collection and distribution		⊙	⊙
Rice producing area	○	⊙	⊙
3. Electricity			
3Phase or single	○	⊙	⊙
4. Manpower			
Operators and managing staff	⊙	⊙	⊙
Remarks	Need some excess building	Not secured	Suitable site
Degrees			
- Excellent	⊙		
- Fair	○		
- Nothing	△		
- Bad	✘		

Selection of Location for Rice milling machine

Candidate	No.1	No.2	No.3
Address	Fadasi	Wadbalal	Alhasahisa
1. Building , work space and storage			
Paddy receiving space	○	⊙	⊙
Paddy cleaning area	○	⊙	⊙
RMU working space	Δ	⊙	⊙
White rice storage and distribution	○	⊙	○
Husk yard (Pollution)	⊙	⊙	✕
Safety (Security)	⊙	Δ	⊙
2. Location			
Access (near highway or not)	⊙	⊙	⊙
Entering trucks and trailer	⊙	⊙	⊙
Extension Services	⊙	○	⊙
Collection and distribution		○	○
Rice producing area	○	⊙	⊙
3. Electricity			
3Phase or single	Δ	⊙	⊙
4. Manpower			
Operators and managing staff	○	⊙	⊙
Remarks	<ul style="list-style-type: none"> • Modification is needed 	<ul style="list-style-type: none"> • No t secured • Fence is easy to be broken 	<ul style="list-style-type: none"> • Neighboring may suffer from pollution of husk
Degrees			
- Excellent	⊙		
- Fair	○		
- Nothing	Δ		
- Bad	✕		




Selection of Location for Rice milling machine

Candidate	No.1	No.2	No.3
Address	Fadasi	Wadbalal	Alhasahisa
1. Building , work space and storage			
Paddy receiving space	X	Δ Newly construction	○ Newly construction
Paddy cleaning area	X	Δ Newly construction	○ Newly construction
RMU working space	○	Δ Newly construction	⊙ Expansion
White rice storage and distribution	○ Expansion	Δ Newly construction	⊙ Expansion
Husk yard (Pollution)	Δ Construction	○ Field	Δ Newly construction
Safety (Security)	○	X	
2. Location			
Access (near highway or not)	⊙	○	⊙
Entering trucks and trailer	○	○	⊙
Extension Services	⊙	X	⊙
Collection and distribution	⊙	○	⊙
Rice producing area	⊙	○	○
3. Electricity			
3Phase or single	Δ	⊙	⊙
4. Manpower			
Operators and managing staff	⊙	X	⊙
Remarks	<ul style="list-style-type: none"> • 3 Phase National grind line • Expansion Construction Big • Small Building 	Chicken yard	-
Degrees			
- Excellent	⊙		
- Fair	○		
- Nothing	Δ		
- Bad	X		

Selection of Location for Rice milling machine

Candidate Address	No.1 Fadasi	No.2 Wadbalal	No.3 Alhasahisa
1. Building , work space and storage			
Paddy receiving space	○	⊙	○
Paddy cleaning area	○	⊙	⊙
RMU working space	○	⊙	⊙
White rice storage and distribution	○	⊙	⊙
Husk yard (Pollution)	○	⊙	✘
Safety (Security)	⊙	✘	⊙
2. Location			
Access (near highway or not)	⊙	⊙	⊙
Entering trucks and trailer	○	⊙	⊙
Extension Services	⊙	✘	⊙
Collection and distribution	○	⊙	⊙
Rice producing area	○	⊙	⊙
3. Electricity			
3Phase or single	○	⊙	⊙
4. Manpower			
Operators and managing staff	⊙	✘	⊙
Remarks	<ul style="list-style-type: none"> • Single phase • secured 	<ul style="list-style-type: none"> • Big area ● Not secured 	-
Degrees			
- Excellent	⊙		
- Fair	○		
- Nothing	△		
- Bad	✘		

Selection of Location for Rice milling machine

Candidate	No.1	No.2	No.3
Address			
1. Building , work space and storage			
Paddy receiving space			
Paddy cleaning area			
RMU working space			
White rice storage and distribution			
Husk yard (Pollution)			
Safety (Security)			
2.Location			
Access (near highway or not)			
Entering trucks and trailer			
Extension Services			
Collection and distribution			
Rice producing area			
3.Electricity			
3Phase or single			
4.Manpower			
Operators and managing staff			
Remarks			
Degrees			
- Excellent 			
- Fair 			
- Nothing 			
- Bad 