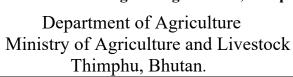


## मुयार्धित्यार्रा प्रतिवार्था वया हे पा वित्रावाया हाता

National Centre for Organic Agriculture, Yusipang





## COST OF PRODUCTION OF HIGH ALTITUDE ORGANIC RICE AT YUSIPANG 2025



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## 1.0 Determination of Cost of Production of Organic rice

The National Center for Organic Agriculture (NCOA), Yusipang research farm is a certified Organic farm. It was certified under the Local Organic Assurance System (LOAS) which follows the Bhutan Organic Standards (BOS) of the Bhutan Organic Guarantee System (BOGS). High altitude organic rice cultivation at Yusipang (2600 m asl) was started in 2023. In 2024, the nursery for the two varieties was raised on 1st February, 2024 and transplanted on 29th April, 2024. The crop was harvested on 28th November, 2024.

After successful adaptation of two cold tolerant varieties namely Khangma Maap and Jakarray Naab under organic management regime, the Cost of Production (CoP) of organic rice was determined. The CoP of Organic rice was estimated to be Nu. 80.80 per Kg. The COP of Organic rice was 1.65 times higher than the COP conventional rice which is estimated at Nu. 49 per Kg. The details of the COP are presented in Table 1.









Table 1. Cost of production of Organic rice at Yusipang, 2024.

i.	Total Yield of organic rice (Kg) per acre at NCOA, Yusipang				1643.85	
A.	A. Variable cost					
1. Labor cost						
	Variables	Unit	Quantity	Cost per unit (Nu)	Total cost (Nu) for 0.3 acres	Total cost per acre (Nu)
i.	Nursery establishment	No	3	1000	3000	10000
ii.	Nursery weeding and management	No	3	1000	3000	10000
iii.	First ploughing and field preparation  Puddling and bund preparation	No No	1 3	1000	1000	3333.33 10000
v.	Nursery uprooting and transplanting	No	3	1000	3000	10000
vi.	Weeding and irrigation	No	8	1000	6000	20000
vii.	Power tiller with operator	No	2.5	3500	8750	29166.67
ix.	Harvesting and threshing	No	3	1000	3000	10000
Tota	l Labor cost/acre					102500.00
2. Iı	nput cost			_		
	Variables	Unit	Quantity	Cost per unit (Nu)	Total cost (Nu) for 0.3 acres	Total cost per acre (Nu)
i.	Plastic for nursery	m	15	_ `	1200	4000
ii.	Chicken manure	Bags	20	170	3400	11333.33
Tota	ll Input cost/acre					15333.33
B. Fixed cost						
	Variables	Unit	Quantity	Cost per unit (Nu)	Total cost (Nu) for 0.3 acres	Total cost per acre (Nu)
i.	Land rent	Decimal	100	150	4500	15000
Total Fixed cost/acre						15000
Total variable cost/acre					117833.33	
Total Fixed cost/acre					15000	
Total Cost of production/acre					132833.33	
Cost per unit (Kg) *1 USD = 85.73 BTN						80.80*

 $<sup>*1 \</sup>text{ USD} = 85.73 \text{ BTN}$