

ORL-F&PI-04**Commercialized Aquaculture with Sustainable Fish Feed with Annapurna Machha Dana Udhog in Nepal**

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Annapurna Maccha Dana Udhog (AMDU) is dedicated to revolutionizing the aquaculture industry by providing high-quality, sustainable fish feed solutions. With a strong focus on enhancing fish health and growth, our innovative formulations combine traditional and alternative protein sources, including both animal and plant-based ingredients, while minimizing environmental impact. Our mission supports the aquaculture sector in achieving food security and environmental stewardship, positioning AMDU as a leader in the future of fish feed. AMDU produces various fish feed products based on the fish species and meets their nutritional needs at all life stages. In addition to quality fish feed, AMDU offers valuable services such as water quality testing, consultancy on advanced culture practices, and marketing support for small fish farmers. We actively engage in community-based programs to develop marginalized fisheries communities, helping improve livelihoods through awareness initiatives for groups like Malha, Sahani, and Jalari.

Table 1: Growth Performance and FCR in the demonstration pond in Chitwan.

Feed Consumed	Unit	Value
Pangas Grower	kg	9,240.00
Pangas Finisher	kg	5,915.00
Total Feed	kg	15,155.00
Total Fish production	kg	10,500.00
Initial Body mass	kg	1,260.00
Net Growth	kg	9,240.00
FCR		1.6



Our commitment to research and development drives the continuous improvement of our products. AMDU has invested in various small-scale farmer ponds as demonstration sites to assess the effectiveness of our feed across different districts. We collect data on growth, feed consumption, and feed conversion rates (FCR) from these demo ponds (Table 1), which are shared on social media to promote awareness and transparency within the community about our feed. Consuming this quality and effective fish feed gives excellent growth in fish and reduces the production cost of the culture (Table 2). As a result, farmers have huge profit margins when selling the fish in the market.

Table 2: Production costs in Pangas aquaculture

Items	UOM	Value	Per kg Cost
No. of fingerling	No.	10,500	
Cost of 120 gm fingerling	NRS	376,560	35.86
Cost of feed	NRS	1,252,055	119.24
Cost of treatment for fish and water	NRS	41,500	3.95
Cost of electricity	NRS	18,000	1.71
Cost of employee Salary	NRS	80,000	7.62
Cost of land lease (5 Katha)	NRS	15,000	1.43
Cost of asset Depreciation	NRS	10,000	0.95
Cost of repair and maintenance	NRS	15,000	1.43
Total Cost	NRS	1,808,115	172.20

Note: The cost of electricity, employee salary, and land lease might vary according to the location