



Odisha Pulse Mission



Custom Hiring Centre



CONCEPT | OPERATION | BUSINESS PLAN

Government of Odisha and ICARDA Collaborative Project

The coastal district of the state experienced the unprecedented super cyclone in the year 1999 where there is heavy loss of livestock population (including draft animals). As a result of which cultivation was seriously affected. Govt. decided to establish Agro service center through commercial Agril enterprise project with provision of capital investment subsidy to cater the urgent need of land preparation and other agril operation. Indian Agriculture is undergoing gradual shift from dependence on human power & animal power to machinery power.

Agro service center or Custom Hiring Center is an enterprise where different equipment/implements / machinery for different unit operation in agriculture are available under one roof and farmer avail those equipments on custom hiring basis as and when they need.

It also helps in bring mechanization in to agriculture which results in timely and quality agril operation helping in improving productivity. Precisely, an individual farmer can not possess so many equipment and machinery because of the prohibitive cost as well as limited in use.

Realizing the fact ICARDA established a custom hiring center at Gurudas village of Jajpur Block under OPM project during 2017-18 to supply some basic equipment for sowing, intercultural and plant protection measures of pulse crop. Gurudaspur and its nearby area are pre dominantly pulse growing area during Rabi in rice fellow. First a Krusak Committee named Bhimakshi Devi Krusak Committee has been formed in that village involving interested farmers. After details discussion with the committee, their need has been accessed. Accordingly first phase 2 no of zero tillage machines, one turbo seeder, and one raised bed planter has been provided. In second phase step has been already taken to, provide 2 no power weeders, 2 no of power sprayers, One no of mini dal mill. Now the said custom hiring center is named as Bhimakshi Devi custom hiring center, which is managed by Krusak Committee.

The operations of machine are as follows :-

1. **Zero tillage, Turbo seeder and seed bed planter** - These are used for lines owing of seed and fertilizer. It is a crucial to sow pulse crop within critical soil moisture retention period of 5-7 days after harvest of the crop.
2. **Power Weeder** - Weed is a major constraint in pulse crop. It is used in intercultural operation and weeding of the crop.
3. **Power Sprayer**- Many pest and diseases are seen in the pulse crop. To take up the plant protection measures and 2% DAP spraying; a power sprayer will play a major role.
4. All implement will save time, energy and cost. It is not only helps in reducing the drudgery of agriculture operation, but also there is good chance to reduce the cost of production resulting in higher margin of profit.

Operational Guideline for Custom Hiring Center :-

1. The Krusak Committee will nominate 5 numbers including President and Secretary to manage the day today activities of custom hiring center.
2. A joint A/C of custom hiring center will be opened in nationalized Bank in the name of President and Secretary.
3. The committee will decide hiring charges of all machineries which will be deposited in the A/C.
4. For withdrawal of money, Krusak Committee will take up a resolution in the meeting with mentioning the detail purpose.
5. Following register will be maintained by the secretary.
 - 1) **Meeting Register** : One meeting register will be maintained where the proceeding/ resolution will be recorded.
 - 2) **Stock Book** : One stock book register should be maintained with details of implement purchase.

Sn.	Name of the Implement	Specification/ Model	Nos.	Cost Rs.	Year of Purchase	From whom received	O.B.	Total Stock	Signature of the Secretary

- 3) **Cash Book** : One cash book may be maintained where detail income and expenditure will be reflected.

BUSINESS PLAN of CHC

4. **Log Book** : One log book will be maintained regarding hiring charges of implement by the driver or nominated member as follows :

SNo	Date of Hiring	Name of the Hiring Person	Name of hiring implement	Purpose	Period of hiring (Hour)	Hiring charges due	Hiring charges paid	Condition of equipment in the time of return	Fuel Position					Signature of the Farmer	Signature of the Driver
									OB	Fill Up	Total Balance	Used Fuel	Balance Fuel		

5. Committee will take up the maintenance and repairing cost of the equipment.
6. Supervision and monitoring
Time to time staff of ICARDA and agriculture Dept. will monitor and supervise its functioning and suggest advice for better management.
Committee member should work with heart and soul for betterment of custom hiring center.

Krusak Committee will hire the machinery of CHC by taking minimum amount of hiring charges. The cost benefit calculation of each machineries of CHC is as follows:-

Cost Benefit Calculation Sheet

A. Zero Tillage Machine : 2 nos

1. Custom hiring of zero tillage per hour (Local rate) : Rs. 400/-
2. Earning in a day (8 Hours) : Rs. 3200/-
3. Total working days during the working season : 40 days
4. Total earning during working season from one machine : Rs. 3200/- X 40 = 1,28,000/-
5. Total earning from 2 machines = Rs. 1,28,000/- X 2 = Rs. 2,56,000/-
6. Maintenance & supervision charges in a year = Rs. 20,000/-
7. Net profit (Sl 5- 6) = Rs 2,36,000/-

N.B:- CHC will provide zero tillage on hiring & farmer will arrange tractor from own source.

B. Power weeder : 2 nos

1. Custom hiring of power weeder per hour (Local rate without fuel) : Rs. 50/-
2. Earning in a day (8 Hours) : Rs. 400/-
3. Total working days during the working season : 50 days
4. Total earning during working season from one machine : Rs. 400/- X 50 = Rs. 20,000/-
5. Total earning from 2 machines = Rs. 20,000/- X 2 = Rs. 40,000/-
6. Maintenance & supervision charges in a year = Rs. 5000/-
7. Net profit (Sl 5- 6) = Rs. 35,000/-

N.B:- CHC will provide power weeder on hiring without fuel & farmer will arrange fuel from own source.

C. Power Sprayer : 2 nos

1. Custom hiring of power sprayer per hour (Local rate without fuel) : Rs. 25/-
2. Earning in a day (8 Hours) : Rs. 200/-
3. Total working days during the working season : 100 days
4. Total earning during working season from one machine : Rs. 200/- X 100 = Rs. 20,000/-
5. Total earning from 2 machines = Rs. 20,000/- X 2 = Rs. 40,000/-
6. Maintenance & supervision charges in a year = Rs. 5000/-
7. Net profit (Sl 5- 6) = Rs. 35,000/-

Total Net profit from A, B, C machine in a year : A) Rs. 2,26,000/- + B) Rs. 35,000/- + C) Rs. 35,000/-

Total Annual Net Profit from CHC Rs. 2,96,000/-

THE ORGANIZERS



Government of Odisha (ଓଡ଼ିଶାସରକାର) governs the state of Odisha in the Republic of India. The state government has various well established departments to undertake the integral development of the state. The head of state of Odisha is the Governor, appointed by the President of India on the advice of the Central government, who heads the council of ministers, a judiciary, and a legislative branch. The Chief Minister is the head of the council of the ministers and is vested with most of the executive powers. The State High Court is located in Cuttack. The Legislative Assembly of Odisha is unicameral, consisting of 147 Member of the Legislative Assembly (M.L.A); (for details on various government initiatives, please visit <http://www.odisha.gov.in/portal/default.asp>).



Orissa University of Agriculture and Technology, established in 1962 by Legislature of the State of Odisha through the Orissa University of Agriculture and Technology Act, 1965 (Orissa Act 17 of 1965) establishing and incorporating a university of agriculture and technology for the agricultural education, research and development of the people of the State of Odisha. The vision is for "Education on Agriculture & Technology, Research & Extension". The mandate of the Orissa University of Agriculture and Technology as specified in the University Act is (1) education of the rural people of the state in agriculture and allied disciplines, (2) advancement of research and learning to generate appropriate technology in various branches of agriculture and allied sciences, (3) undertake extension activities, and (4) such other activities as may be required in course of time; (for details, please visit <http://www.ouat.nic.in/>).



The Department of Agriculture and Farmers' Empowerment (Govt. of Odisha) mainly consists of 4 executive wings namely, Directorate of Agriculture, Directorate of Horticulture, Directorate of Soil Conservation and Watershed Mission. Besides these, a number of autonomous bodies like Odisha State Seeds Corporation (O.S.S.C), Odisha Agro Industries Corporation (O.A.I.C.), Agriculture Promotion and Investment Corporation of Odisha Limited (APICOL), Odisha State Seed and Organic Products Certification Agency (OSSOPCA), Institute on Management of Agricultural Extension (IMAGE), Odisha Cashew Development Corporation are also working under the Department. The Directorate of Agriculture is the oldest, which started functioning from 1945 onwards as the Directorate of Development, subsequently renamed as the Directorate of Agriculture and Food Production, Odisha from which the other two Directorates got separated in the years 1977 and 1978 (for details, please visit http://agriodisha.nic.in/Http_public/index.aspx).



ICARDA (International Center for Agricultural Research in the Dry Areas) established in 1977 is one of 15 such centers supported by the CGIAR and mandated to promote agricultural development in the dry areas of developing countries. The center works on the problem-solving needs of resource-poor farmers through development and delivery of new technologies for sustainable growth in agriculture, in a partnership and multi-stakeholder approach, working in 32 countries. Its research and training activities cover crop improvement, water and land management, integrated crop-livestock-rangeland management, and climate change adaptation. The ICARDA genebank holds over 1,55,000 accessions from over 110 countries: traditional varieties, improved germplasm, and a unique sets of wild crop relatives of food legumes such as chickpea, lentil, field pea, and fababean, wheat, barley, oats and other cereals, forage crops, rangeland plants, and wild relatives of each of these species. ICARDA works in strong partnership with national agricultural research systems, government ministries, community linked institutions; (for details, please visit: <http://www.icarda.org/>).



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