

DETAILED PROJECT
PROPOSAL
FOR
ESTABLISHMENT OF
AGRICULTURE SKILL
CENTRES IN ODISHA

INTRODUCTION:

The State Agriculture Policy 2013 has addressed agricultural mechanization as one of the potential areas for agricultural development in coming years. It is also realized that the State requires selective mechanization that brings economics competitiveness and removes avoidable drudgery. The mechanization scenario has gained momentum in the state. In recent years the farmers of the state have shown positive response to own improved machinery which is evident from the increase in population of tractor, power tiller, seed drill, thresher, combine harvesters, transplanter etc. Due to improper attention towards some major aspects, the farmers of the state who have sophisticated machines are unaware of its operation, maintenance, their housing etc. Hence, it is high time to educate the farmers on operation and repair & maintenance of important farm equipment like Tractor, Power Tiller, Transplanter and Combine harvesters. Therefore, it is proposed to establish "**Agriculture Skill Centres**" in **P-P-P mode** to train and educate the farmers unemployed and skilled youth on repair and maintenance of Tractor, Power Tiller, Transplanter and Combine harvesters and pump sets.

BACKGROUND

- ❖ Rice - The single most important crop in the State.
 - Covers around 68 percent of cultivated area.
 - Farmers of the state are producing about 12% of total rice produced in the country.
 - The staple food of almost entire population of Odisha
- ❖ Odisha yield — about 33% below National average (Table 1).
- ❖ Need a quantum jump in production and productivity of rice.
- ❖ Besides rice, a wide variety of other crops are also grown in Odisha.
- ❖ Wide scope for improving yields.

Table 1 Rice Yield comparison (2013-14)

States	Yield (Kg/Ha)	Variance Ws Odisha	Country	Yield (Kg/Ha)
Punjab	3,952	117%	Japan	4,910
AP	2,852	57%	China	4,720
WB	2,788	53%	Korea	4,718
India	2,416	33%	India	2,416
Odisha	1,821			

Key Constraints

- ❖ Constraints in improving Production & productivity of different crops with special emphasis on paddy crop.
- ❖ Constraints in Farm mechanization due to poor awareness of farmers about latest machinery.
- ❖ Unavailability of skilled manpower for repair & maintenance of agriculture machinery.
- ❖ Low level of mechanization.
- ❖ Improper operation of machines and its maintenance.

SOLUTIONS

- ❖ Mechanized Farming.
- ❖ Reduction in Input cost
- ❖ Skill up-gradation
- ❖ Reduction of drudgery through mechanisation
- ❖ Provide technical backstopping by experts like scientist of NRRI, OUAT and other ICAR institutes.
- ❖ Self employment through upgrading skills
- ❖ Increase in farmer's income
- ❖ To increase Farm Power Input of the State.

OBJECTIVE

Proposal for establishment of **Agriculture Skill Centres (ASC)** in Govt. farms of Agriculture Department. This will modernise farming techniques and skill development of the rural youth.

PROJECT

The basic Skill Development Centre will consist of the following:

- ❖ Office and Administrative building
- ❖ Indoor training centre with classroom/ Laboratory/ conference hall facility
- ❖ Outdoor area for display of machinery
- ❖ Computer lab
- ❖ Workshop
- ❖ Shed for different Farm Machinery
- ❖ Demonstration hall with cut section models
- ❖ Hostel for the trainees.
- ❖ Recreation room.

ACTIVITIES

These centres will act as 'Centre of Excellence' for:

- Productivity improvement & farm mechanization.
- Knowledge dissemination.
- Skill up gradation.
- Entrepreneurship Development.
- Farmers Training.
- Promoting self employment

Knowledge support (Training and information)

- ❖ Basic concepts on agriculture equipment
- ❖ Training on operation, repair and maintenance of agri machinery
- ❖ Basis repair and maintenance of tractors, Power Tiller, Rice Transplanter and combine harvesters
- ❖ Skill Development training programs for local farmers/unemployed youths
- ❖ Training on use of modern agriculture machinery/equipment.
- ❖ Special training on Mechanised Rice Cultivation.

Input support

- ❖ **Information on latest research and development done in mechanization and crop care**
- ❖ Government institutes along with Top manufacturing companies will be sharing their knowledge and research findings with the trainees

Capability

- ❖ Trained experts from reputed manufacturers will provide training in the centre.
- ❖ New Syllabus and course module will be prepared and to be submitted to NSDC for approval or the NSDC approved course module may be accepted.
- ❖ Top input companies will also extend their technical support to the trainees.
- ❖ Serve as knowledge hub for farm machinery in the locality.
- ❖ Provide opportunity to unemployed youth in eking out a living.

SET UP AND OPERATION

Proposal

- ❖ State Govt. to provide the following infrastructure :
 - A. Land : 10 Acres, trespass free, clearly demarcated land with water source
 - Building : For training classrooms, laboratory, office, workshop, computer lab, hostel
 - 1830 Sq.mt. (Ground & First floor)
 - Furniture (as required)
 - IT infrastructure including PA system:
 - Budget (tentative): **Rs.7.00 Crores.**
 - B. Committed Training Programmes
 - i) Agri Entrepreneurship.
 - ii) ATMA
 - iii) SMAM
 Budget (Tentative): **Rs.1.00 Crore**

Probable annual training schedule

Sl. No.	Targeted Group	Duration(Days)	No. Of trainees/batch	No. Of batches/year	Total no. of trainees/year.
1	Mechanics/ITI passouts	45	50	4	200
2	Agri Entrepreneur	10	20	3	60
3	Farmers	6	20	27	540
	SUB TOTAL				800
4	Contingency				
	TOTAL				

- ❖ Manufacturer/ Source Company will provide for the farm machinery, training equipment, trainer and other setup items.
- ❖ Manufacturer/ Source Company will provide training in the skill centre.
- ❖ State Govt. to make provisions for entire training and operational expenses.

MAINTENANCE & OPERATION

Selection of trainees:

Selection of the candidates to be trained at the Skill Development Centre, will be done by a committee convened by the Project Directors of ATMA at the district level in a transparent manner in consultation with the manufacturers/source company operating the Agril. Skill Centre

OPERATIVE MODEL

- ❖ The centre will be operated in Public and Private Partnership (P-P-P) mode.
- ❖ Public and Private Partnership with clearly defined roles and responsibility of State Govt., Manufacturer/ Source Company.
- ❖ Manufacturer/ Source Company (Training partner) selected through EoI will impart training in the Agriculture Skill Centre initially for 10 years, which may be extended for a mutually agreed upon period basing on the performance.
- ❖ Pvt. partner will be responsible for running all the activities including housekeeping, running the mess in the hostel, security and placement assistance. The MoU may be signed for a period of 10 years, which may be renewed on its expiry. Selection of management partner will be through EoI.

ROLES AND RESPONSIBILITIES

The State Govt.

- ❖ Identify and select suitable sites out of existing Govt. setup in the state.
- ❖ Provide infrastructure including building for the skill centre.
- ❖ Provide the required IT infrastructure.
- ❖ Provide training and operational expenses to run the Centre.

Manufacturer/ Source Company(Training Partner)

- ❖ Recruitment and training of personnel (engineer, technician)
- ❖ Provision of cut section models and entire equipment and Machinery components for training
- ❖ Day to day class and practical classes in training programme.
- ❖ Necessary arrangements for evaluation and certification of trainees
- ❖ Compile and circulate quarterly progress reports.
- ❖ Explore possibilities of job fair for the trainees.
- ❖ Training on Micro irrigation.
- ❖ Training on minor Repair & maintenance of Pump sets.
- ❖ Training on Agro processing.
- ❖ Brief idea on financial management.

INVESTMENT AND RESOURCES

- ❖ For building and operating 1 skill centre with Capacity : 200Mechanics/ITI pass outs ,60 Agri-Entrepreneurs and 540 nos. of Farmers per year, an amount of Rs.700 Lakhs will be required for infrastructure development works.

BENEFITS TO FARMER

- Skilled manpower will be available for repair and maintenance of farm equipment.
- One location to get information related to crop farming
- Supports farming by use of latest technologies in farming
- Helps farmer to decrease the investment cost, increase output of crop production hence enabling them to have good farming economics
- Farmers will get support by experts from agricultural institutes and universities
- It will accelerate mechanization in state.
- Farmers will get connected to good practices done by other farmers in other states

CENTER LOCATION

- Initial phase (proposed): Sambalpur, Balasore, Cuttack, Koraput and Bargarh
- Later new centres may be opened as per advice of the State Govt.

FORCE MAJEURE

Neither Party shall be held responsible for non-fulfilment of their respective obligations under the MoU due to the exigency of one or more of the force majeure events such as but not limited to acts of God, War, Flood, Earthquake, Strikes, lockouts, Epidemics, Riots, Civil Commotions, etc., provided on the occurrence and cessation of any such event, the affected party thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six (6) months, the parties shall jointly decide about the future course of action.

TERMINATION CLAUSE

The MoU may be terminated by either of the parties forthwith if the other party commits breach of any of the terms/conditions hereof and shall have failed to rectify such breach within sixty (60) days of the notice in this behalf having been served on it by the other party.

DISPUTE REDRESSAL

In the event of any dispute or difference of opinion arising out of the MoU, the same shall be resolved amicably by mutual consultation. If such resolution is not possible, then the dispute shall be referred to the sole arbitrator i.e the Principal Secretary of Agriculture & Farmers' Empowerment Department, within the State of Odisha. The award of the arbitrator shall be final and binding on both the parties.

BANK GUARANTEE

The successful bidder will have to deposit a Bank guarantee for an amount as decided by Govt.

ELIGIBILITY CRITERIA

Agriculture Machine manufactures with good potential of R&D and Training facilities,

At least 2 of the items proposed to be kept in the display should be manufactured by the participant. For the remaining items, the participant must produce annual service contract with a reputed manufacturer, so that the machinery available at the centres are ready throughout the year.

- Experience in running skill development centre/similar activities will be given preference..
- Minimum annual turnover of Rs.300 crore is essential.
- None of the institution, participating in the consortium should be black listed by any State Govt./Central Govt.

TENDER NOTICE

Sealed Quotations are invited from manufacturers/source company for Establishment of Agril Skill Centre in PPP Mode in different districts and throughout the State.

Cost of tender schedule with DPR	Date of sale of tender schedule and DPR	Last date for submission of tender documents	Date of opening of offers.

Tender Schedule and DPR may be obtained in person from the office of the Development Engineer, Bhubaneswar between 10.30 AM to 1.30 PM on all working days from Dt.....to Dt.....on payment of cost of tender schedule in shape of Demand Draft drawn in favour of Development Engineer, OFMRDC, payable at Bhubaneswar. Tender Schedule and DPR can also be downloaded from Govt. website www.odisha.gov.in. Downloaded tender schedule with the demand draft towards the cost of tender schedule should be submitted as per terms and conditions. The downloaded tender schedule, received without demand drafts towards cost of tender schedule will be rejected. The authority reserves the right to accept and/or reject any or all offers without showing any reasons thereof.

Director

Agriculture & Food Production, Odisha.

TENDER SCHEDULE

Name of work: **Establishment of Agriculture skill Centre.**

Ref...../2019-20, Dtd

A. TERMS AND CONDITIONS

1. Sealed Quotations are invited from manufacturers/source Company for establishment of Agril. Skill Centres in PPP Mode in different districts in various locations of the State.
2. Tender Schedule and DPR may be obtained in person from the office of the Development Engineer, Odisha Farm Machinery Research and Development Centre (OFMRDC), Bhubaneswar between 10.30 AM to 1.30 PM on all working days from Dt.....to Dt..... on payment of cost of Tender Schedule in shape of Demand Draft drawn in favour of Development Engineer, OFMRDC, payable at Bhubaneswar. Tender Schedule and DPR can also be downloaded from Govt. website www.odisha.gov.in . Downloaded Tender Schedule with the Demand Draft towards the cost of tender schedule should be submitted as per terms and conditions. The downloaded tender schedule, received without demand draft towards cost of tender schedule will be rejected.
3. Interested manufacturer/source Company will submit the project proposal in detail to the authority and submit his/her willingness to open the centres in a separate sheet.
4. Initially Govt. has identified Agricultural Farms in Sambalpur, Berhampur, Balasore, Bhubaneswar, Cuttack, Koraput, Kalahandi, Keonjhar and Bargarh for functioning of the Centre.
5. IT infrastructure like computer, internet will be provided by the Government.
6. Manufacturer/source company will provide the farm machinery, training equipment and other setup items.
7. Manufacturer/source Company will manage the training programme in the skill centres. Operating expenses of the centre such as salary of manager, engineer and technician will be borne by Manufacturer/Source Company.
8. State Govt. to arrange the following infrastructure.
 - Land 10 Acres, trespass free, clearly demarcated agriculture land with water source.
 - Building for training, class rooms, office and work shop.
 - Furniture as decided by Govt.
 - IT infrastructure: As decided by Govt.
9. An MoU will be signed between Govt. of Odisha and manufacturer/source company with clearly defined rolls and responsibility of State Government and manufacturer/source company for Public and Private Partnership.
10. Manufacturer/Source Company will operate the centre for 10 years. On completion of 10

years the State Government, may consider to renew the operation or may go for fresh EoI for selection of the training partner.

11. Govt., at any point of time, may cancel the agreement, without assigning any reason thereof.
12. Manufacturer/source Company will submit and circulate quarterly progress reports etc.
13. Manufacturers/Source Company will provide knowledge support (training and information) i.e. initial technical knowledge of agriculture equipment, training related operation of the equipment in field, knowledge of basic maintenance and service of various equipment, detail training programmes for local mechanics, village artisans, farmers and ITI students, training related to modern agriculture practices, special training on mechanized rice transplanting etc.
14. Manufacturer/Source Company will provide input support like information on latest research and development done in seed area, crop care and arrange forum for Govt. institutes along with top input companies to share their knowledge and research findings with farmers/trainees.
15. Manufacturer/Source Company will liaison with top input companies which are expert in seed and crop care products to extend their support to farmers/trainees through the Skill Centre.
16. Selection of the candidates to be trained at the Skill Development Centre, will be done by a committee convened by the Project Directors of ATMA at the district level in a transparent manner in consultation with the manufacturers/source company operating the Agril. Skill Centre
17. Resource persons and trainers will be selected by the company and the details of programme will be submitted to the concerned officer as nominated by Govt.
18. Manufacturer/Source Company will meet the annual recurring expenditure of the centre from his own fund and claim for the Govt. share after completion of the programme in each quarter.
19. Manufacturer/Source Company will quote the price against each item with proper specification as in the detailed project proposal and submit it with the tender schedule for the offer.
20. In case of any dispute or difference arising out of the agreement between the two parties relating to any aspect of the agreement, the parties should attempt to settle the dispute through mutual and amicable discussions. Otherwise, the decision of the Principal Secretary of the department will be binding on both the parties.
21. The authority reserves the right to award the tender either in part or full or may follow any other suitable procedure. Authority at its sole discretion and without showing any reason thereof, reserves the right to accept/reject the tender process.
22. Any clarification sought for may be obtained from the office of the undersigned.

Director
Agriculture & Food Production(0)

TECHNICAL BID

1. Annual Turnover: Tenderer has to submit the annual turnover including chartered accountant audit report of the last financial year in a tabular form.
2. Similar work experience enclose certificates: MoU, if any signed with other Govt. /quasi Govt. institution should be attached with the bid document.
3. Machinery Manufacturing Details should be submitted including the details of machinery marketed by the bidder
4. Name of Institute Experts in rice value chain who would be engaged in running the center
5. Name the Agri Institutes who will be attached to skill center.
6. Name of the input companies which are expert in seed and crop care products will also extend their support farmers through rice center
7. The details of Information on latest research and development done in seed area and crop care to be furnished.
8. Name the Government institutes along with Top inputs companies those will be sharing their knowledge and research findings with farmers.
9. The details of Initial technical knowledge of agriculture equipment to be taught may be furnished.
10. The details of Training related operation of the equipment in field should be narrated.
11. Name the Implement for Knowledge of basic maintenance and service.
12. Details of training programs for local mechanics and ITI students should be furnished.
13. The Training schedules related to modern agriculture practices should be mentioned.
14. Details on Special Training on Mechanized Rice Transplantation and line sowing.
15. The bidder has to specify the following
 - a) No. of trades in the centre.
 - b) No. of farmers/others.
 - c) No. of training man days.

FINANCIAL BID

1. DETAILS OF TRACTOR AND IMPLEMENTS

Sl. No.	Item	Specification(HP,RPM, Cutting width etc. as required)	Effective Capacity	Nos.	Total Amount
1	Tractor (GPA)				
2	Tractors (Rice Special)				
3	Attachments				
4	Implements				
5	Plough				
6	Cultivator				
7	Rotavator				
8	Light weight Rotary tiller				
9	Trolley 2 Wheel 5 ton				
10	Trolley 2 Wheel 1 ton				
11	Transplanters Walk Behind				
12	Transplanters Ride On				
13	Harvesters Crawler				
14	Precision Farming Sensors				
15	Any other implement				
				Total	

ABSTRACT OF INVESTMENT

(Separate sheet may be attached for each item, if required)

Cost in lakh Rs.

Machinery to be placed		
No. and types of training	Details to be attached	
Manpower to be deployed	Nos.	
Other operational cost including maintenance		
No. of training Man days		

Total Cost Rs.

a) Capital Cost: Rs.

b) Running Cost: Rs.

- ❖ CAPITAL INVESTMENT:
 - ❖ NO. OF TRAININGS IN ADDITION TO THE MINIMUM:
 - ❖ ANY OTHER INNOVATION.
 - ❖ NO. OF CENTRES.
- LOCATION in order of preference.
- 1.
 - 2.
 - 3.

(Separate sheets may be attached for each of the above items.)