

Master plan for KVK,Boudh Farm and infrastructure development

Krishi Vigyan Kendra, Boudh was established by ICAR in 01.07.2005 under the control of Orissa University of Agriculture and Technology at Paljhar farm. Boudh district is bounded by River Mahanadi & Angul District to the north, Kandhamal District to the south, Nayagarh District to the east and River Tel & Subarnapur District to the west, covering a geographical area of 309800 ha., the district lies between $20^{\circ} 22'$ N to $20^{\circ} 50'$ North Latitude and $83^{\circ} 34'$ E to $84^{\circ} 49'$ East Longitude.

KVK serves as the knowledge hub and resource centre of agricultural technologies for the farmers of the district. It operates as per mandates of ICAR for the upliftment of socio-economic condition of the farming community. KVK,Boudh lies between $20^{\circ} 43' 51.69$ N to $20^{\circ} 45' 16.66$ North Latitude and $84^{\circ} 13' 52.22$ E to $84^{\circ} 13' 56.27$ East Longitude.

Google Map of Krishi Vigyan Kendra,Boudh



GOOGLE EARTH VIEW OF KRISHI VIGYAN KENDRA, BOUDH

1. Papaya plantation	15. Pump set	27. Azolla unit($10' .6'' \times 14' .6''$)
2. Pomegranate plantation	16. Medicinal garden	28. Farmers Hostel
3. Onion,Garlic,Beans unit	($43' \times 44'$)	29. Shade Net house($32' \times 15' 8''$)
4. Vermicompost unit($11' .6'' \times 23'$)	17. Crop cafeteria unit($114' \times 44'$)	30. Administrative building
5. Poly house($18' .6'' \times 23'$)	18. Ornamental fish unit	31. Polytechnic Boys Hostel
6. Mushroom unit($22' \times 13'$)	19. Ornamental garden	32. Polytechnic Girls Hostel
7. Staff quarter(6 Nos.)	($60' \times 60'$)	33. Staff quarter
8. Banana plantation	20. Duckery unit	34. Polytechnic College
9. Poultry unit ($21' \times 12'$)	21. Farm pond ($145' \times 42'$)	35. Seed production unit (Arhar, dhaincha & Pulses)(2ha)
10. Turmeric field	22. Guava plantation	36. Mango orchard(0.4 ha)
11. Maize,Hill broom unit	($145' \times 45'$)	
($30' \times 12'$)	23. Lime plantation ($60' \times 20'$)	
12. Aonla plantation	24. Agroforestry unit(
13. Acacia plantation	25. Colocassi, Nijer unit	
14. Temporary shed house	26. Threshing floor($45' \times 50'$)	

BASIC INFORMATION ABOUT BOUDH DISTRICT:

Agro-climatic Zone	Western Central Table Land
Geographical Area	3,09,800 ha
Cultivated Area	86,000 ha
High Land	53,000 ha (62%)
Medium Land	21,000 ha (24%)
Low land	12,000 ha (14%)
Irrigation potential	
	<i>Kharif</i> – 40,960 ha
	<i>Rabi</i> -12,690 ha
Soil type	Black soil, red soil and mixed red and black soil
Average annual rainfall	1623 mm
Number of Blocks	3 [Boudh, Harbhanga and Kantamal]
Number of Gram Panchayats	69
Total Number of villages	1186 [Inhabited - 1115, Uninhabited -71]
Population (2011 Census)	441,162
Male	221,625
Female	219,537
Rural	420,738
Urban	20,424
Scheduled Caste (SC)	104,934
Scheduled Caste Male	52,497
Scheduled Caste Female	52,437
Scheduled Tribe(ST)	55,364
Scheduled Tribe Male	27,362
Scheduled Tribe Female	28,002
Cropping intensity	163%
Fertilizer Consumption	49.43 kg/ha

Land Utilization: Land Utilization area of the KVK Boudh is as follows:

Sl.No	Type of land	Area(ha)
1.	Cultivable land (Crop Cafeteria & Seed Production Area) i. High Land 3.0 ii. Medium Land 1.00	5.0
2.	Uneven Hilly & Degraded Forest	7.15
3.	Canal and Road	1.2
4.	KVK Campus Area	2.6
5.	Agro-Polytechnic campus	2.15
6.	Diverted by Tahasildar Boudh for establishment of skill development centre& PHC Baghiapada	1.9
	Total	20.00

Objectives:

- Sustainable production.
- Livelihood support for small & marginal farmers.
- To increase soil fertility.
- To increase the productivity of the farm.
- To strengthen the Revolving Fund by income generation.

DEMO UNITS DEVELOPED BY KVK

- Seed production units of Arhar (3.0 ha) and Dhanicha (1.0 ha) & Nizer (1.0 ha)
- Mango progeny orchard(0.4 ha)
- Nutritional garden or Crop Cafeteria (0.04 ha)
- Medicinal plant unit(50 Species)
- Mushroom spawn production unit
- Mushroom production unit
- Apiary unit
- Vermi-compost unit
- Poultry unit
- Azolla multiplication unit
- Poly house for raising seedling and sapling
- Low cost shade net
- Agroforestry unit
- Colour fish culture unit
- Soil Laboratory
- ATIC hall

Seed/Seedling production programme in KVK,Boudh

Objectives-:

- To produce quality foundation/certified seeds or planting material for further use in the field for farming community.
- To demonstrate the scientific process of quality seed or planting material production.
- To promote the use of quality seed or planting material of high yielding varieties or hybrids.
- To increase the productivity of various crops using quality seeds or planting material.

Proposed infrastructure to be developed at KVK Boudh

Sl. No.	Name of the work	Area/No.s	Unit Cost(Rs.)	Estimated cost(lakhs)	Remarks
A	Infrastructural Work				
1.	Boundary Wall	Approx 200 sq meter		2.0	Renovation of broken boundary wall. Prevent entry of cattle, wild animal & saved crops in instructional farm
2.	Cleaning and land levelling	10 ha.	2 lakh per Ha.	20.00	Fallow land-Undulated topography with bushes
3.	Two Bore well	2 No.	2 Lakh	4.00	For irrigation facilities.
4.	Development of Irrigation Drainage Channel system	200 cubic mt	4000 Per 1 Cubic mt	8.00	Crop cafeteria, Garden & Instructional farm.
5.	Drip Irrigation (Demo Unit 1 ha)	5 ha	30000 per ha	1.50	For Mango and cashew plantation.
6.	Sprinkler Irrigation (Demo Unit 1 ha)	5 ha	30000 per ha	1.50	Crop cafeteria, Garden & Instructional farm.
7.	Hatchery Unit	1500 sq feet	Rs.1000 per sq. ft	15.00	For chick production and distribution among the farmers.
8.	Development of new Poly house	10 feet X18 feet (LXB)		3.00	For quality planting materials.
9.	Development of new Goatery Unit			3.00	
10.	Renovation of pond and land development for IFS.			7.00	Income generation through Fish production
11.	Development of internal roads			25.0	For movement of Tractor or other machineries

12.	Development of new Training Hall (For 50 farmers)			25.0	For training purpose.
13.	Development of Vermicompost unit.			2.0	For recycling of organic waste material.
14.	Development of apiary unit.	20 No.s	5000 per unit	1.0	For Honey Production
15	Development of threshing floor			3.0	For threshing of farm commodities.
16.	Development of Net house for Nursery management.			2.5	To raise & supply quality seedling of vegetables & fruit crops.
17.	External Electrification			4.5	For lightening, irrigation purpose.
18.	Plantation of Mango Orchard.			2.0	
19.	Plantation of Cashew Orchard.			2.0	
20.	Store Room			2.5	For storage of farm inputs, implements.
21	Renovation of Mushroom Lab.			2.0	
22	Renovation of Mushroom unit (Fogger to be included)			2.0	
B.	Farm machineries				
1.	Tractor			8.0	For field preparation
2.	Power tiller			2.0	For field preparation
3	Wheel barrow	2nos.		0.8	
4	Ladder	1 nos.		0.20	
			TOTAL	172.00	

-Sd-
 Senior Scientist and head
 KVKBoudh