

**Guideline for Semi-commercial Duck farming in Deep litter
System**

under

‘State plan’ during the year 2023-24

Project cost :-Rs 257.141 Lakh

(Period 2023-24)

**Directorate of Animal Husbandry & Veterinary Services,
Odisha, Cuttack**

**Semi-commercial Duck farming in Deep litter System
Under 'State plan' during the year 2023-24**

Background:

Duck rearing is a profitable activity compared to raising chicken as they are more resistant to diseases and can withstand natural calamities. Duck farming does not need much investment and skill set. Among the egg laying breeds, Khaki Campbell is an ideal breed which lays nearly 250 eggs per duck per year in semi-intensive system. Khaki Campbell ducks weigh about 2 to 2.2 Kgs and drakes 2.2 to 2.4 Kgs. White Pekin is the most popular breed which is fast growing and has low feed consumption with fine quality of meat. It attains about 2.2 to 2.5 Kgs of body weight in 42 days of age, with a feed conversion ratio of 1:2.3 to 2.7 Kgs.

The agro climatic condition and vast expanse of natural water bodies prevalent in the State are favourable for duck farming. Ducklings can be reared in semi-intensive or range system.

AIM

The scheme aims to support 120 individual farmers for setting up of semi-commercial duckery unit with a capacity of 1000 ducks per unit.

OBJECTIVE

- To strengthen the local duck production Systems for enhancing livelihoods and also for generation of additional income among the farmers through duck rearing.
- To support nutritional requirement through production of animal protein.
- To build the capacity of farmers for undertaking semi- commercial duck farming as a profitable enterprise.

Target beneficiaries:



Under the scheme, **120 units** will be supported to individual farmers belonging to General category, SC, ST & Women, Transgender & differently able (min 40% disability) category during the current year 2023-24.

SUBSIDY OUTLAY:

Unit cost: Rs 3.75 Lakh

Subsidy	Rs in Lakhs per unit	1 st installment subsidy (40% of the eligible subsidy)	2 nd installment subsidy (rest 60% of the eligible subsidy)
		After construction of building	After induction of ducklings
Subsidy to General, SC, ST & Women, Transgender & differently able (min 40% disability) category @ 40% of the unit cost	Rs 1.5	Rs 60,000	Rs 90,000

Selection of farmers.

- i. Individual farmers /entrepreneurs will be eligible to avail support under the scheme. **While availing subsidy, beneficiary family will be considered instead of individual member of family. One beneficiary family should not be provided with multiple benefits under one particular scheme. A family will not be eligible for subsidy under the same scheme if any of its members has got subsidy during last three years.** However, if any member of one family gets the benefit as a member of WSHG, then other family members can avail any other scheme, as in a Group activity the profit for each of the group members may not be high.
- ii. The individual beneficiary will be provided with subsidy of Rs. 1.50 lakh (i.e 40% of the unit cost) for General, SC, ST, Women, Transgender & differently able (min 40% disability) category) per Duckery unit.
- iii. The certificate of identity as transgender persons issued by District Magistrate as per "The Transgender Persons (Protection of Rights) Act, 2019" will be accepted for Transgender category.
- iv. For differently able persons the certificate if disability issued by certifying authority / competent authority indicating 40% or more disability as per "The Rights of Persons with Disability Acts, 2016" will be accepted.

- v. The subsidy will be released in two phases through DBT mode only to the individual beneficiary. The 1st installment of 40% of the eligible subsidy will be released after construction of duck shed and 2nd installment i.e 60% of eligible subsidy shall be released after stocking of ducklings.
- vi. Each Beneficiary will apply online (<http://sugam.odisha.gov.in>) as prescribed, to the respective Block Veterinary Officer (BVO) or may contact with AVAS/VAS/BVO of respective block for assistance to apply.
- vii. All beneficiaries covered under the Scheme should mandatorily be Aadhaar linked to avoid duplication.
- viii. The BVO shall compile the Block wise applications and thereafter undertake a joint verification in transparent manner of the proposed duckery unit. The Block Level Inspection Team shall comprise of the following members
 - a. BVO/AVAS/VAS
 - b. Concerned Livestock Inspector/ Veterinary Technician (VT)/ Sub-Assistant Veterinary Surgeon (SAVS)
- ix. The block level inspection team will take geo tagged photographs (minimum 4 photos from all angles of the site) at the time of initial inspection. The team has to ensure that the proposal is a new project.
- x. On recommendation by the Block Level Inspection Team as per **Annexure-I**, the respective BVO shall forward the applications for setting up of duck farm to the CDVO.
- xi. **On receipt of e-applications by the CDVO, a District Level Committee comprising of Chief Development Officer-cum-Executive Officer, Zilla Parisad, CDVO, ADVO (LP), District Project Coordinator, Mission Shakti, District Project Manager, OLM and Project Administrator, ITDA (Concerned area) under the Chairmanship of the Collector & District Magistrate shall approve the final list of beneficiaries of the District.**
- xii. After approval of the list, Go ahead letter to the eligible individual farmers will be issued by the concerned CDVO in the format enclosed at **Annexure-II**.
- xiii. The LIs/ PraniMitras/ Gomitras/ other such workers will be tied up for providing handholding support to the farmers.

- xiv. After issue of go-ahead letter, the individual beneficiary will construct the duckery shed and other infrastructure.
- xv. After completion of the shed, the beneficiary will intimate the BVO about the shed completion in **Annexure -III**.
- xvi. Thereafter, the block level Inspection Team will inspect the duckery unit within 2 weeks period from date of intimation by the beneficiary. The team will take a geo-tagged photograph of the constructed duck shed.
- xvii. The BVO will submit completion report of the construction of duck shed enclosing the geo-tagged photograph and recommend to the concerned CDVO in **Annexure -IV**, for release of subsidy of 1st installment of the subsidy limiting to 40% of the eligible subsidy.
- xviii. Thereafter, the beneficiary will procure the unsexed ducklings. Ducklings will be procured by the beneficiary either from Government Farm or any other established private duckling supplier. After induction of duckling, the individual will intimate local AVAS/ BVO in the format enclosed at **Annexure-III**.
- xix. Thereafter, the Block level inspection team will inspect the duckery unit. They will take a Geo-tagged photograph of the duckery unit with stocking of ducks and BVO will recommend to the concerned CDVO for release of 2nd installment 60% of the eligible subsidy (**Annexure- IV**).
- xx. The CDVO concerned will submit a monthly report on the implementation of the scheme to the Directorate of AH & VS, Odisha through the online Go Sugam Portal (<http://sugam.odisha.gov.in>).
- xxi. Administrative Cost will be given to CDVOs to meet the expenditure incurred towards monitoring & supervision of the scheme.
- xxii. The list of beneficiaries will be submitted by the CDVO to the Director AH & VS which will be uploaded in the website of Directorate of AH & VS.
- xxiii. The selected beneficiary to start the work at least within 2 months of issue of Go ahead letter. In case of failure to do so, a formal notice must be served to initiate the work within 15 days failing of which the go ahead issued will be cancelled and issued to an eligible beneficiary either new/ in the waiting list approved by the DLC.
- xxiv. The applications of eligible and willing farmers who have already applied for establishing units under similar scheme in Go-SUGAM for the year 2022-

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23 and are under wait list shall be considered for the financial year 2023-24 on priority. For the applications (for the year 2022-23) the concerned block and district officers are to verify the documents properly, obtain his/ her consent for placing in the DLC for approval and issue of Go-ahead letter.

Modalities of Implementation:

1. The CDVOs and BVOs should facilitate credit linkage from banks to the beneficiary for availing loans to create a duck farm, as per the requirement of the beneficiary.
2. CDVOs in consultation with Lead District Manager of the concerned district shall take steps for arranging bank loan to the farmers for successful implementation of the scheme.
3. The back ended subsidy amount shall be released to the Aadhar linked bank account of the beneficiary through DBT mode only in two phases i.e 40% of the subsidy shall be released after construction of duck shed and 60% of the subsidy shall be released after establishment of the unit.
4. All projects shall be Geo tagged with photographs and release of back ended subsidy shall be made only after joint verification of the project by concerned Block Level Inspection Team.
5. The individual beneficiary will be provided with back ended subsidy of Rs. 1.50 lakh (i.e 40% subsidy per unit cost for General category, SC, ST, Women, Transgender & Differently Able (min 40% disability) category per Duckery unit.
6. The targets shouldn't be a constraint for any district. The district official can enhance it up to 25% of their allocated target taking into account the potential & requirement of the district. The letter bearing No. 2620 dated 24.02.2023 issued from F&ARD Department may be referred for this purpose. The district officials are free to reallocate block targets according to the demand in different blocks.

Training of the farmers

- i. Training will be organized at Block Head Quarter level or any other convenient place after final approval of the list.
- ii. The duck unit will be managed by the farmers
- iii. Each beneficiary will be trained on recommended management practices on brooding, feeding, watering and rearing young ducks, record keeping, etc.
- iv. The concerned Livestock Inspectors, Gomitras and PraniMitras will guide the farmers in field for managing the duck units.



- v. The capacity building of LIs, Gomitras, PraniMitras will be taken up by the Deptt.

Procurement of Ducklings

The beneficiary shall directly procure quality ducklings from reputed sources which will be properly monitored by the respective BVOs.

Health Care Measures

The BVO will provide all technical guidance to the farmer for maintaining proper veterinary health care and immunization of the ducklings.

Monitoring and supervision

- Regular supervision of progress of the scheme will be done by the Directorate of AH & VS. The scheme will be reviewed by the Directorate of AH & VS on a fortnightly basis.
- The block wise target will be fixed by the concerned CDVOs.
- Proper documentation will be done by taking geo tagged photographs of each duck unit along with the farmer.
- Regular monitoring will be done by the SDVO Concern along with ADVO LP under the direct supervision of the CDVO.
- All data with regard to the scheme should be entered online on the Go-Sugam portal at Block and district level.
- Every month the monthly progress report will be submitted by CDVO to the Directorate of AH& VS.
- For effective implementation of the scheme the following monitoring mechanism has been suggested. The officers concerned will verify the mentioned percentage of schemes under their respective jurisdiction.
 - BVO - 20% of the block target
 - Concerned SDVO - 20 % of sub divisional target
 - ADVO (LP) – 10 % of district target
 - CDVO- 5 % of district target
 - Concerned Scheme Officer of Directorate- 0.5% of State target
 - Concerned Additional Director - 0.5% of State target

Scheme Outlay

The unit cost of 1000 duck unit is **Rs.3.75 lakh**. The total expenditure under State plan for establishing **120 Semi Commercial Duck units** under deep litter



system during the year 2023-24 with back ended subsidy of Rs 1.50 Lakh (i.e. 40% of the unit cost) for General category, SC, ST ,Women, Transgender & differently able (min 40% disability) category) is **Rs 257.141 lakh** (including the Admin cost @ 0.25% of total cost) for the year 2023-24.

Sl. No	Particulars	Unit Cost (Rs. in lakh)	No. of Unit	State Share @ 40% subsidy per unit cost for General, SC, ST, Women, Transgender & differently able (min 40% disability) category in lakh	Admin cost @ 0.25% of total cost in lakh	Total project cost in lakh
1	Duck Unit with 1000 duck capacity	3.75	120	256.5	0.641	257.141

Time Frame

The project will be implemented during the year 2023-24.

	2023-24											
Items Quarter	Apr il	Ma y	Jun e	Jul y	Au g	Se pt	O ct	No v	De c	Ja n	Fe b	Ma r
Submission of the application by beneficiary												
Initial field verification & feasibility report by BLIT												
Issue of Go-ahead Letter to the beneficiary by CDVO												
Shed construction, bird induction and Intimation by Individual Beneficiary												
Asset verification by BLIT												
Grounding of units/Release of subsidy												

Technical parameters:

- Straight run (unsexed) Khaki Campbell ducklings will be supplied assuming male female ratio as 50:50.
- Ducks will be reared in All in and All out system.
- The mortality of ducks will be average 5% during the period of rearing.
- Ducks will produce 250 eggs in first year of lay i.e. upto 72 weeks.
- Ducks will be reared in semi-intensive system and will be allowed to nearest water body for collecting food.

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- Feed cost for 25 to 72 weeks (48 weeks) will be borne by the farmers from sale proceeds of egg and hence this has not been taken into expenditure component.
- It is proposed to make feed by using available ingredients like broken rice, maize, de oiled rice bran, maize, de-oiled rice bran, mineral mixture, salt, oil cake to minimize the price of feed .
- The male ducks at the age of 5-6 months will be sold.
- Supplementation of home grown materials like azolla, berseem, cow pea and other spinaches can reduce the feed cost.
- The female ducks will be maintained up to 1 ½ yrs. of age after which the total stock will be disposed for meat purpose.

Assumptions

Sl. No.	Particulars	Specification
1	Rearing System.	Semi-intensive in Deep Litter
2	Cost of day old ducklings	Rs. 30/-
3	Mortality of ducks	Avg. 5%
4	Cost of homemade feed	Rs. 20/-
5	Area per duck	2sq.ft. during laying
6	Duck pen and other construction	Rs 200/- per sq.ft.
7	Cost of equipment	Rs 5/- per duck
8	Cost of medicine and vaccine	Rs 5/- per duck per year
9	Sale of egg	Rs 5.50/- per egg
10	Cost of medicine, vaccine etc. / bird	Rs. 3/-

Project Cost of one Duck Unit (1000 duck capacity)

Sl No.	Particulars	Units	Unit Price	Total Amount In Rs
A	CAPITAL COST			
1	Construction of one brooder, Grower cum Laying Pen (Concrete flooring, wire netting and asbestos roofing) in Square feet	1000	200	200000
2	Purchase of equipment	1000	5	5000
3	Electrification and other miscellaneous expenses		LS	5000
	TOTAL CAPITAL COST			2,10,000
B	RECURRING EXPENDITURE TO BE CAPITALISED			
Sl No.	Particulars	Units	Unit Price	Total Amount

lm

1	Cost of ducklings	1000	30	30000
2	Cost of supplementary feed (0-8 wks)@ 2.240 kg per bird (40gm/ bird/day)	2240	20	44800
3	Supplementary grower Feed (9 – 12 weeks)@ 1.680 kg per bird (60 gm/bird/day)	1680	20	33600
4	Supplementary Layer Feed (13 – 24 weeks)@ 5.040 kg per bird (60 gm/day/ bird)	2520	20	50400
5	Vaccination and medicine	500	3	1500
6	Contingent (Litter material, disinfectants etc.)			4700
	TOTAL			1,65,000
	TOTAL PROJECT COST			3,75,000

Receipt

Sl. No.	Particulars	Units	Unit Price	Total Amount
1	Sale of egg (@ Rs 5.50/- per egg (118750 eggs - 475 duck x 125 eggs in 1st year & 475 x125 in 2nd year upto 72 weeks	118750	5.50	653125
2	Sale of culled male ducks @ Rs 150/- per bird (For 475 ducks excluding mortality)	475	150	71250
3	Sale of culled female ducks @ 150/- per bird (For 475 ducks excluding mortality)	475	150	71250
4	Sale of Gunny bags (@ Rs 3/- per bag)	500	3	1500
5	Sale of Litter @ 1000/- per tractor load	2	1000	2000
	TOTAL			7,99,125

Expenditure

Sl. No.	Recurring Expenses	Units	Unit Price In Rs.	Total Amount
1	First Year Recurring expenses capitalized			165000
2	Cost of supplementary feeding of ducks during laying period per bird from 25th weeks upto 72 weeks	18250 Kg	20	365000
3	Other misc. Cost - electricity, water, disinfectant	LS		10000
	Total			540000

LOSS PROFIT ANALYSIS PER BATCH OF REARING (EXCLUDING FIXED CAPITAL):

Sl. No.	Particulars	Amount in Rs.
01	Gross Benefit in one batch (1.5 Years)	259125
02	Benefit per Year	172750

Profit in one month- Rs 14,395/-

Initial Field Verification Report by Block Level Inspection Team

We do hereby certify that the following individual proposed site for establishment of Semi- commercial duck units have been visited by us and found that the land records mentioned by the individual in their application form found to be correct. The proposed site does not violate pollution control norms.

Sl.	Name of the farmer	Address of the Layer unit	Bank finance/ Self finance

LI/ VT/SAVS

VAS/ AVAS/BVO



**OFFICE OF THE CHIEF DISTRICT VETERINARY OFFICER,
[FARM_DISTRICT]**

GO-AHEAD LETTER

Letter No.: _____ valid up to : _____

Date:[CURRENT_DATE]

Smt./Sri [FARMER_NAME], Category [FARMER_CATEGORY], SO/DO/WO
[FARMER_FATHER] is ALLOWED to setup a **Semi-Commercial Duck Farming under State Plan, 2023-24** in Plot No. Khata No. with an area of (ha.) in Village: [FARM_VILLAGE], GP: [FARM_GP], Block: [FARM_BLOCK], Dist: [FARM_DISTRICT] which was verified/inspected by the Block level Inspection Team on dated [INSPECTION_DATE] and recommended your application.

Based on the recommendation Go-ahead is issued in your favour. You are entitled to receive a back ended subsidy up to a maximum of 40 % of the total project cost.

The subsidy amount shall be released to your Aadhar linked bank account through DBT mode in two phases after due asset verification of the inspection team. The subsidy amount will be released in 2 Phases as below:

- 1st Phase: Rs. 60,000.00 (40%) of the eligible subsidy just after construction of building.
- 2nd Phase: Rs. 90,000.00 (60%) of the eligible subsidy after induction of ducklings and stocking of full unit.

You are requested to complete the construction of shed as per the specifications and induction of ducklings under the supervision & guidance of the local AVAS/VAS/BVO within 6 months on issue of this Go Ahead Letter.

After completion of each phase you will intimate the local VAS/ AVAS/ BVO about completion with a request for asset verification on intimation in the prescribed format.

CDVO (District)



Format for Intimation by Beneficiary

To

The Block Veterinary Officer,

Sub:- Completion of Duck shed construction/ Stocking of ducks in my farm.

Sir/ Madam

As per the Go-Ahead letter no. -----dt ----- received by me, I have completed, 1. Construction of duck shed /2. Stocking of ducks in my farm on dated -----
-----.

Therefore, I request you to visit my farm for asset verification.

Yours faithfully,

(Name in Full)

Signature of the applicant

Mobile No. -

Address -



Asset verification report by Block Level Inspection Team

1. Name of the individual with address:
2. Name of the scheme:
3. Year of implementation:
4. Name of the Block:
5. Construction of shed as per specification: Yes/ No
6. No. of ducks available on date of verification:
7. Source of Procurement of ducklings with date: Attach the receipt
8. Eligible amount of assistance:

Certified that the above particulars were collected at the doorstep of the individual during verification by the team. A geo-tagged photograph of the unit along with stocking of ducks and owner has been taken and enclosed for reference. The back ended subsidy may be released.

Signature of individual

**Signature of the
Block Level Inspection Team**



Annexure-V

Category wise District physical target "Semi Commercial Duck farming in deep litter system "during the year 2023-24							
Sl. No.	Name of District	No.of Blocks	Total No. of GP in the District	Physical target for 2023-24	SC	ST	GENERAL
1	Angul	8	225	2	0	0	2
2	Balangir	14	317	5	1	1	3
3	Balasore	12	356	6	1	1	4
4	Bargarh	12	253	3	1	0	2
5	Boudh	3	69	3	1	0	2
6	Bhadrak	7	218	2	0	0	2
7	Cuttack	14	373	3	1	0	2
8	Deogarh	3	70	2	0	1	1
9	Dhenkanal	8	212	3	1	0	2
10	Gajapati	7	149	3	0	1	2
11	Ganjam	22	503	3	1	0	2
12	Jagatsinghpur	8	198	8	1	0	7
13	Jajpur	10	311	5	1	0	4
14	Jharsuguda	5	78	6	1	2	3
15	Kalahandi	13	310	6	1	2	3
16	Kandhamal	12	171	2	0	1	1
17	Kendrapada	9	249	2	0	0	2
18	Keonjhar	13	297	15	1	7	7
19	Khordha	10	190	3	0	0	3
20	Koraput	14	240	4	1	2	1
21	Malkangiri	7	111	4	1	1	2
22	Mayurbhanj	26	404	6	0	4	2
23	Nabarangapur	10	189	2	0	1	1
24	Nayagarh	8	194	4	1	0	3
25	Nuapada	5	131	4	1	1	2
26	Puri	11	268	3	1	0	2
27	Rayagada	11	182	4	2	1	1
28	Sambalpur	9	138	3	1	1	1
29	Subernapur	6	109	2	0	0	2
30	Sundargarh	17	279	2	0	1	1
Total		314	6794	120	20	28	72

NB:

1. The target can be interchangeable among the reserved category.
2. In case of non availability of beneficiary in reserved category, then the target can be interchangeable with the General category.
3. Beneficiaries will be selected on first cum first serve basis.