

**NATIONAL BUREAU OF ANIMAL GENETIC RESOURCES
KARNAL-132001 (HARYANA)**

Procedure for submission of proposal for registration of Variety/Strain/Line of chicken

1. Submission of Application along with documents
All applications for registration of proposed Varieties/Strains/Strains should be submitted to the following address:
The Director
National Bureau of Animal Genetic Resources
P.O.Box. 129, Karnal – 132001, Haryana
Phone: 0184-226 7918, FAX: 0184-226 7654
Email: director.nbagr@icar.gov.in, directornbagr@gmail.com;

The applicant should submit 3 copies of the application along with relevant documents, literature, no matter how small (even one page), for the proper evaluation of the Variety/Strain/Line. E-mail softcopy of the application and descriptor at director.nbagr@icar.gov.in, directornbagr@gmail.com
2. The application must be signed by the applicant(s) and countersigned by the Head of the Organisation with rubber seal.
3. The application must be accompanied by complete description of the Variety/Strain/Line using prescribed descriptors.
4. Submit a detailed history of the development of the Variety/Strain/Line.
5. List the distinctiveness characteristics of the Variety/Strain/Line in comparison to other Varieties/Strains/Lines available in the country.
6. Submit representative photographs of the Variety/Strain/Line (male, female, young ones and flock).
7. The Variety/Strain/Line must have completed a minimum of 8 generations.
8. The Applicant must certify that:
 - The Variety/Strain/Line is distinct from other Lines/Strains whose existence is a matter of common knowledge at the time of filing of application
 - It is sufficiently uniform and stable

Eligibility Criteria for Registration

Any population having at least 1000 birds will be considered for registration as a Variety/Strain/Line.

All claims concerning the material submitted for registration should accompany scientific evidence for uniqueness, reproducibility and value in the form of-

- (I) Publication in standard peer reviewed journal (a copy of reprint to be submitted).
AND/ OR
- (II) Evaluation data for at least three years under research programmes like All India Co-ordinated Research Project (AICRP), Network Project, Adhoc Schemes, etc. supported with relevant extracts of the documents or verification by concerned Director/Project Director (PD)/Project Co-ordinator (PC)
AND/ OR
- (III) Publication of information on potential value of germplasm in institute annual report or any other such reports



Application for Registration of Varieties/Strains/Lines of Chicken



(To be submitted to The Director, NBAGR, Karnal- 132001, Haryana)

Please refer to guidelines for filling the application form appended and Codes

1. Application status (Code)	N	R	For Use of NBAGR
2. Variety/Strain/Line/ name	(i) Application number <input style="width: 150px; height: 20px;" type="text"/> (ii) Date of application <input style="width: 150px; height: 20px;" type="text"/>		
<input style="width: 340px; height: 20px;" type="text"/>			
3. Origin	<input type="checkbox"/> IN <input type="checkbox"/> EX <input type="checkbox"/> CR <input type="checkbox"/> SY <input type="checkbox"/> OT	(iii) Whether new or revised? <input style="width: 50px; height: 20px; margin-left: 20px;" type="checkbox"/> N <input style="width: 50px; height: 20px; margin-left: 20px;" type="checkbox"/> R	
4. Criteria for registration [Distinct feature(s)]	(iv) If revised, Date of 1st Application <input style="width: 80px; height: 20px;" type="text"/> (v) Action taken a) Forwarded for registration b) Sent for validation c) Incomplete, sent for revision (vi) Whether registered or rejected (vii) Date of registration or rejection (viii) Registration Number		
5. Documentary evidence	<input type="checkbox"/> PR <input type="checkbox"/> IR <input type="checkbox"/> OR		(ix) Notified : on:
			(x) Remarks

6. Particulars of the organisation that evolved and maintained the Variety/Strain/Line

7. Name and address of the corresponding person

Name (Dr./Ms/Mr.)

Designation

Address

Tel-
 Fax-
 E-mail

8. Passport information of the Variety/Strain/Line

Address of Organisation where developed	Place of availability	Specific Utility Trait(s)

Approximate population	No. of Breedable Males	No. of Breedable Females

Remarks

Schemes/Contributions, if any

Parent Stock / Pedigree involved in development	Method of development				
	<table border="1"> <tr> <td>SB</td> <td>CB</td> <td>UG</td> <td>OT</td> </tr> </table>	SB	CB	UG	OT
SB	CB	UG	OT		

Organised farm/flock(s), if any

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9. Salient Characteristics (attach detailed description as per Descriptor performa)

<p>S.No.</p> <p>1.</p> <p>2.</p> <p>3.</p>
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10. Additional Information/Remarks (if any)

UNDERTAKING

I/We undertake to ensure long term maintenance of the aforesaid Variety/Strain/Line and to provide 50 blood samples to NBAGR; its sustainable use by maintaining appropriate numbers and providing access as appropriate on prior informed consent and on mutually agreed terms. I/We also agree to provide any further information or data pertaining to the description and unique characteristics to the ICAR/NBAGR in a transparent manner.

COUNTERSIGNED by Head of Organisation

Signatures
 Full Name
 Designation & Address
 Ph Fax
 E-mail
 SEAL

SIGNATURES of the Applicant (s)

Name
 Designation & Address
 Ph Fax
 E-mail

In case of Non-Govt. Organisations

COUNTERSIGNED by Director, Department of Animal Husbandry of the concerned State or his representative

Signatures
 Full Name
 Designation & Address
 Ph Fax
 E-mail
 SEAL

Guidelines for filling Application and description of Codes

1. Use capital letters or write legibly. All items are self-explanatory. Give explanation for a particular item in "Remarks" wherever needed.
2. Use Codes for filling in *Item 1, 4, 6 and 9*. In case of the code "Other" fill in specific details.
3. For filling species and variety/strain/line name (*Item 2 & 3*) give English or Hindi name, if known. In case a local name is given then also specify in parenthesis the language or dialect in which this name is used.
4. Be to the point for *Item 5*, give only the distinct features, traits or products/bye-products, considered suitable for consideration of registration.
5. Give particulars of organisation associated with development of the variety/strain/line in *Item 7*. Attach separate sheet for additional names along with address and phone/fax/email, etc.
6. Give particulars of corresponding person in *Item 8*.
7. *Item 9* has passport information of the variety/strain/line. Give clearly place of origin, places of availability (state, district, etc.), specific utility trait(s), Approximate population including number of breedable males and females, Parent stock/Pedigree involved in development of the variety/strain/line, Also give method of development in codes described below
8. Give salient characteristics of the Variety/Strain/Line in *Item 10*. Attach detailed characteristics in the prescribed descriptor.
9. Undertaking to the effect ensuring conservation and maintenance of the Variety/Strain/Line for facilitating access and sustainable use has been given, which may be read and implied before putting signatures.
10. Furnish the application form complete in all respects along with requisite documents to *The Director, NBAGR, P O Box 129, Karnal – 132 001 (Haryana)*

Codes for filling information in Col. 1, 4, 6 and 9

Item 1 : Application Status		Item 6 : Documentary evidence	
N	New	PR	Published literature
R	Revised	IR	Institute annual report
		OR	Any other report
Item 4 : Origin			
IN	Indigenous	Item 9 : Method of development	
EX	Exotic	SB	Selective breeding
CR	Crossbred	CB	Crossbreeding
SY	Synthetic	UG	Upgrading
OT	Others (Specify)	OT	Others (Specify)

**NATIONAL BUREAU OF ANIMAL GENETIC RESOURCES
KARNAL-132001 (HARYANA)**

Descriptor for Registration of Varieties/ Strains/Lines of Chicken

I. GENERAL DESCRIPTION

1. Name of the Variety/Strain/Line
2. Since when it is developed
3. Specific trait/purpose for which developed
4. Unique characteristic that distinguishes it from other Varieties/Strains/Lines
5. Most closely related Varieties/Strains/Lines
(in appearance)
6. Origin: Breeds/Varieties /Strains/Lines used in its development
7. Organization responsible for its development
8. Type of stock
 - commercial
 - others (specify)
9. Flock size
 - a. Total no of birds at the farm
 - b. No of breeding males
 - c. No of breeding females
10. Are the birds of this line available with the farmers/entrepreneurs?
If yes,
 - a. Place(s) of distribution
 - b. Estimated population in the field
 - c. Type of management
 - intensive production
 - backyard or farmyard production
 - scavenger
11. Utility of the stock (Eggs/meat/meat and eggs/others)
12. Any other information

II. PHYSICAL CHARACTERS

Male

Female

1. Feather characteristics

a) Feather morphology

- normal
- frizzle
- silky
- others (specify)

b) Feather distribution

- normal
- naked neck
- feathered shanks and feet
- beard
- crest
- others (specify)

c) Feather growth rate

- fast
- slow

2. Colour

a) Plumage colour

- White
- Black
- Blue
- Red
- Brown
- Gold
- Others (specify)

Male

Female

b) Plumage pattern

- Solid
- Dull
- Stripped
- Patchy
- Spotted
- Barred
- Others (specify)

c) Pattern within feather

- self-white
- self-black
- self-blue
- self-red
- self-wheaten
- barred
- mottled
- others (specify)

d) Skin colour

- White
- Yellow
- Blue
- Black
- Others (specify)

e) Shank colour

- White
- Yellow
- Black
- Blue
- Green
- Others (specify)

Male

Female

f) Earlobe colour

- White
- Red
- Black
- White & Red
- Others (specify)

g) Comb colour and its intensity (dark, medium, light)

- Black
- Red
- Others (Specify)

h) Eye colour

- Grey
- Black
- Brown
- Others (specify)

3. Comb type and size (large, medium, small)

- Single
- Pea
- Rose
- Walnut/cushion/strawberry
- Duplex/v-shaped/double

4. Wattles (present/absent)

5. Other specific visible traits

III. PERFORMANCE

Average

SE

Range

N

1. Egg production characteristics

a) Egg production and age

age at first egg (days)

age at 50% production (days)

age at peak production (days)

age at culling (days)

b) Egg production Average SE Range N

Broilers

- hen-day production up to 52 weeks
- hen-housed production up to 52 weeks
- clutch size (days)
- clutch interval (days)

Layers

- hen-day production up to 72 weeks
- hen-housed production up to 72 weeks
- clutch size (days)
- clutch interval (days)

c) Egg quality traits at 40 weeks (*based on minimum of 50 eggs*)

Trait	40 weeks			
	Average	SE	Range	N
Egg weight (g)				
Shell weight (g)				
Albumin wt (g)				
Yolk weight (g)				
Shell thickness (mm)				
Specific gravity				
Shape index				
Albumin index				
Yolk index				
Haugh unit				
Shell colour				
Blood spots				
Meat spots				

2. Reproduction characteristics

a) Broodiness (usual/sometimes/rare/other)

b) Fertility and hatchability (*based on minimum of 500 eggs each of 3 hatches*)

Average SE Range N

i) Fertility (%)

ii) Hatchability on fertile egg basis (%)

iii) Hatchability on total egg basis (%)

3. Growth characteristics (*based on minimum of 500 records each for male and female up to 20 weeks of age, and thereafter 500 pooled records*)

a) Body weights (g)

Broiler/meat type bird

Body Weight (g) at	Male			Female			Pooled		
	Avg/SE	Range	N	Avg/SE	Range	N	Avg/SE	Range	N
Day old									
5 weeks									
6 weeks									
20 weeks									
40 weeks									
52 weeks									

Layer/egg type bird

Body Weight (g) at	Male			Female			Pooled		
	Avg/SE	Range	N	Avg/SE	Range	N	Avg/SE	Range	N
Day old									
8 weeks									
20 weeks									
40 weeks									
64 weeks									
72 weeks									

b) Body measurements (cm) (based on minimum of 100 records-only for meat type birds/broilers)

At	Keel length			Shank length			Breast angle		
	Avg/SE	Range	N	Avg/SE	Range	N	Avg/SE	Range	N
5 weeks									
6 weeks									
12 weeks									
20 weeks									

c) Feed utilization (based on minimum of 50 males and 50 females in broilers or meat type birds, and 100 females in egg type chicken/layers)

Broilers	Age in weeks	kg feed/kg gain								
		Male			Female			Pooled		
		Avg/SE	Range	N	Avg/ SE	Range	N	Avg/SE	Range	N
	0- 5									
	0-6									

Layers	Age in weeks	kg feed/kg gain		
		Avg/SE	Range	N
	0-8			
	9-16			
		kg feed/dozen eggs		
	17-40			
	41-72			

4. Carcass characters (based on minimum of 25 male and 25 female birds - only for meat type /broilers)

Carcass characters		Male			Female		
		Avg/SE	Range	N	Avg/SE	Range	N
Age at slaughter (days)							
Live weight (kg) at slaughter							
Carcass weight (kg)							
Dressing %							
Meat: bone ratio							
Carcass quality traits	flesh colour						
	tenderness						
	flavour						

5. Mortality(%)

Type of bird	Period		Male	Female	Pooled
Broilers/meat type	Brooding	0-5 weeks			
		0-6 weeks			
	Growing	6 - 20 weeks			
		7 - 20 weeks			
	Laying (21-52 weeks)				
Layers/ egg type	Brooding period (0-6 weeks)				
	Growing period (7 - 20 weeks)				
	Laying period (21-72weeks)				

6. Physiology and stress tolerance

- a) Tolerance of temperature and humidity extremes
- b) Tolerance of industrial floor pen housing
- c) Tolerance of industrial cage housing

7. Resistance to specific disease(s), if any

8. Any other unique characteristic