

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

**Descriptor for Registration of Strains/Lines of Chicken**

**I. GENERAL DESCRIPTION**

1. Name of the Strain/Line
2. Since when it is developed
3. Specific trait/purpose for which developed
4. Unique characteristic that distinguishes it from other Strains/Lines
5. Most closely related 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