



Consanguinity Marriage and Inbreeding

[Source: TH](#)

In **Uppada coast** villages in Andhra Pradesh, [consanguineous marriages](#) are causing conditions like [cerebral palsy](#), **Dandy-Walker Malformation (DWM)**, [albinism](#), and other deformities.

- A consanguineous marriage is a **union** between two people who are **related by blood**, usually as **second cousins or closer**.
 - It is different from incestuous marriages (a marriage between **direct descendants** like between father and daughter, mother and son, brother and sister).
- Practices like the '**Voni**' **promise**, an **oral agreement** made at a girl's birth, enforce consanguinity in the above case.
- [Inbreeding](#) is the **genetic outcome** of consanguineous marriage. Inbreeding increases the degree of **homozygosity** to the **offspring** and also the expression of **recessive traits**.
 - **In homozygosity**, an individual inherits the **same alleles** for a particular gene from both parents leading to [genetic disorders](#).
 - **Alleles** are **different versions of the same gene**. E.g., the gene for eye colour may have alleles for **blue, brown, or green eyes**.
- Inbreeding increases the **genetic load**. Genetic load measures the **rate of damage** caused by the presence of certain **deleterious or disadvantaged genes** in the population.
- The [Hindu Marriage Act](#) prohibits Sapindas marriage between **two Hindus** unless there is an **established custom**.
 - A **sapinda marriage** involves individuals who share a **specific degree of familial closeness**.

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National Gopal Ratna Award 2024

[Source: PIB](#)

Recently, the [Department of Animal Husbandry and Dairying \(DAHD\)](#) announced the winners of the [National Gopal Ratna Awards \(NGRA\) 2024](#) under the [Rashtriya Gokul Mission \(RGM\)](#).

- It is one of the highest honours in the livestock and dairy sector and is presented on [National Milk Day \(26th November 2024\)](#).
- **Award Categories:**
 - Best dairy farmer rearing [indigenous cattle/buffalo breeds](#).
 - Best [Artificial Insemination](#) Technician (AIT)
 - Best dairy cooperative/ milk producer company/ dairy farmer producer organisation.
 - **Special Awards for the North Eastern Region (NER)** were introduced in 2024.
- RGM was launched in **2014** to conserve and develop indigenous breeds under the **National Programme for Bovine Breeding and Dairy Development (NPBBDD)**.

▪ **NPBBDD have Two Components:**

- **National Programme for Bovine Breeding (NPBB):** Conservation and development of recognized indigenous breeds.
- **National Programme for Dairy Development (NPDD):** Creating infrastructure related to production, procurement, processing and marketing by milk unions/federations.

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