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A SURVEY OF WILD EDIBLE PLANTS FROM JALNA DISTRICT, MAHARASHTRA STATE, INDIA

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Abstract

The Present study deals with the exploration, identification and documentation of wild edible plants from Jalna district of Maharashtra state. The dry deciduous types forest present in the Jalna district which distributed in all over the region. Mostly thorny shrubs with barren and rocky patches scattered in the area. The ethnobotanical survey of the region resulted in the documentation of 32 wild plant species that are consumed by villages and tribals of the region. The investigation shows that, wild edible plants species belongs to 25 angiospermic families of which 31 were dicotyledonous families and 1 genus form monocotyledonous family.

Keywords: Field survey, Wild edible plants, Jalna district

Introduction

The people depend on natural resources either directly or indirectly for food, clothes, shelter and medicine. Present investigation includes a survey of wild flowering plants reported from the Jalna districts which have food potential; they are utilized for edible purposes. Plant parts like root tubers, leaf, stem, flowers, fruits have food values. According to the Census of India (Census, 2011), total population reach to 1.25 billion, total tribal are 104.2 million, they dependence on plant resources. It is intimated that, approximately 80% of the population of the world still relies on the old system for human and animal treatment, due to cultural tradition and economic reason (WHO). In few years valuable information about indigenous knowledge of folk medicine was plant in a form of Dictionary of Indian Folk Medicine and Ethnobotany. The field studies have been conducted in the tribal area of Central India by Jain and his associates (Jain S. K., 1981 & 1991). Datar and Vartak (1975), published wild edible plants of Karnala Bird Sanctuary. Wild edible plants of Chandrapur district, Maharashtra, India is given by Reddy B. Mallesh 2012. Mahadkar and Jadhav (2013), Worked on traditional uses of some wild edible plants from Kolhapur district. Ethnobotanical studies of edible plants used by tribal women of Thane district is given by Oak *et al.*, 2015. Bhogaonkar and Saudagar (2017) study Wild edible plants of Gadchiroli district of Maharashtra, India and their economic potential. Unlike this in past decades, researcher concentrated on ethnobotany of the globe, which helps to complete further scientific studies in the plant sciences. A very less attention has given on utilization of Plants from Jalna district. Present investigation helps for documentation wild edible plants of the study area.

Study Area

Jalna is one of the district of Maharashtra State. The state having five divisional regions viz. Konkan, Deccan or Desh, Khandesh, Marathwada and Vidharbha. The Jalna district is part of Marathwada division of Maharashtra state. It covers exactly central part of the state area and North Marathwada. The district has eight Tahsil viz. Jalna, Badnapur, Ambad, Partur, Mantha, Ghansawangi, Bhokardan and Jafrabad. It lies between 19° 1' and 21° 3' North longitude and 75° 4' to 76° 4' East longitude (**Plate I**), shows Map of Maharashtra and Jalna district. The total area of 7, 612 Sq. Km. present which contributes 2.47% of the total state area. The district has population 19.58 Lac (Census 2011), with an average density 255 per Km.; the literacy 81.24% in urban area and 69.17% in rural areas. The boundaries of study area are adjacent to Parbhani and by Jalgaon on North and Buldhana district on east, Beed on south and Aurangabad on west.



Plate. I

Fig. Plate II

Plate I & II: Shows Map of Jalna district, Exploration and PRA exercise

MATERIALS AND METHODS

Intensive floristic surveys were carried out in the different localities to collect information and specimens of wild edible plants. Consistent field trips were arranged in every month during the course of investigation. All the necessary equipments and chemicals were carried with us during each trip to collect maximum number of plant specimens, plant parts (like Root, Stem, Leaves, Flowers, Fruits etc.) to know their utility. The plants specimens were photographed with digital camera during each field visit. Collected flowering plants specimens were identified by using local Floras, Flora of Marathwada, V N Naik, 1998; Flora of Buldhana District, Diwakar & Sharma 2000; Flora of Kolhapur District, Yadav & Sardesai 2002. Identified Plants specimen proceeds for herbarium and deposited in *BAMU* Herbarium.

Ethnomedicinal survey and PRA Exercise -

During the exploration, ethnomedicinal surveys were carried out in the Jalna district. The utilization of each plant species was recorded from the different informants by questionnaires method. Along with this, we arranged PRA (Preparatory Rural Assessment) meeting with Vaidyas in every month to know local names, properties and uses of plants. **Plate II** focuses the methodology used for present work. Local people of different ages were also invited in such meeting.

RESULTS AND DISCUSSION

A total 32 wild edible plant species documented from Jalna district of Maharashtra state distributes into 25 Angiospermic families. Ripe and raw fruits of some wild edible plants species were eaten directly without any ingredients while in some cases leaves, fruits may use as vegetables. Tuber, fleshy thalamus, rhizome may roasted or eaten directly by villagers of the study area. During field survey, documentation of wild edible plants species is shown in following Tabulated form. **Table No. 1** shows the information about utilization wild edible plants. All wild plants were arranged in alphabetical orders with their mode of uses.

Table: 1 Enumeration of Wild Edible Plants from Jalna district

Sr. No	Scientific Name	Family	Local Name	Part Used	Mode of Use
1	<i>Aegle marmelos</i> (L.) Corréa.	Rutaceae	Bel	Fruits	Ripe Fruits eaten
2	<i>Annona reticulata</i> L.	Annonaceae	Ramphal	Fruits	Ripe Fruits eaten
3	<i>Buchanania cochinchinensis</i> (Lour.) Almeida.	Anacardiaceae	Charoli	Fruits	Ripe fruit pulp eaten
4	<i>Canavalia cathartica</i> Thouars.	Fabaceae	Govara, Abai	Fruits and Seeds	Vegetable
5	<i>Canthium coromandelicum</i> (Burm. f.) Alston.	Rubiaceae	Karbct, Kara	Fruits	Raw
6	<i>Carissa spinarum</i> L.	Apocynaceae	Karawand	Fruits	Ripe fruits are edible
7	<i>Celosia argentea</i> L.	Amaranthaceae	Kurdu	Leaves	Vegetable
8	<i>Coccinia grandis</i> (L.) Voigt.	Cucurbitaceae	Tondli	Fruits	Vegetable
9	<i>Colocasia esculenta</i> (L.) Schott.	Araceae	Alu, Chamkura	Leaves	Vegetable
10	<i>Corchorus olitorius</i> L.	Malvaceae	Mothe Chonche	Leaves	Vegetable
11	<i>Cordia sinensis</i> Lamk.	Boraginaceae	Gondani	Flowers	Vegetable
12	<i>Digera muricata</i> (L.) Mart.	Amaranthaceae	Tadul Kundra	Leaves	Vegetable
13	<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	Dukkar kand	Tubers, Bulbils	Tubers and bulbils are eaten
14	<i>Diospyros exculpta</i> Buch.-Ham.	Ebenaceae	Temburni	Fruits	Ripe fruit pulp are eaten
15	<i>Ficus racemosa</i> L.	Moraceae	Bhui Umbar	Fruits	Raw
16	<i>Gmelina arborea</i> Roxb.	Lamiaceae	Shiwan	Fruits	Raw
17	<i>Limonia acidissima</i> Groff.	Rutaceae	Kauth	Fruits	Raw
18	<i>Madhuca longifolia</i> (Koen.) Macbr.	Sapotaceae	Moha, Mahuwa	Flowers	Raw
19	<i>Momordica dioica</i> Roxb. ex Willd.	Cucurbitaceae	Kartule	Fruits	Vegetable
20	<i>Morus alba</i> L.	Moraceae	Tuti	Fruits	Ripe fruits are eaten
21	<i>Oxalis corniculata</i> L.	Oxalidaceae	Ambushi	Leaves	Vegetable
22	<i>Phoenix sylvestris</i> (L.) Roxb.	Arecaceae	Shindi	Fruits	Raw
23	<i>Portulaca oleracea</i> L.	Portulacaceae	Ghol	Leaves	Vegetable
24	<i>Semecarpus anacardium</i> L. f.	Anacardiaceae	Bibba, Bhilavaa	Fleshy thalamus	Fruit hypocarp and seeds are eaten
25	<i>Senna tora</i> (L.) Roxb.	Fabaceae	Takla	Leaves	Vegetable
26	<i>Solanum anguivi</i> Lamk.	Solanaceae	Dorli	Fruits	Vegetable
27	<i>Syzygium cumini</i> (L.) Skeels.	Myrtaceae	Jambhul	Fruits	Raw
28	<i>Tamarindus indica</i> L.	Fabaceae	Chinch, Imli	Pulpy mesocarp of Fruits	Raw
29	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	Bheda	Seeds cotyledons	Seeds cotyledons are eaten
30	<i>Typha domingensis</i> Pers.	Typhaceae	Ramban	Rhizome	Eaten on roasted
31	<i>Vigna trilobata</i> (L.) Verdc.	Fabaceae	Moogi	Fruits	Raw
32	<i>Ziziphus rotundifolia</i> Lamk.	Rhamnaceae	Bor	Fruits	Raw

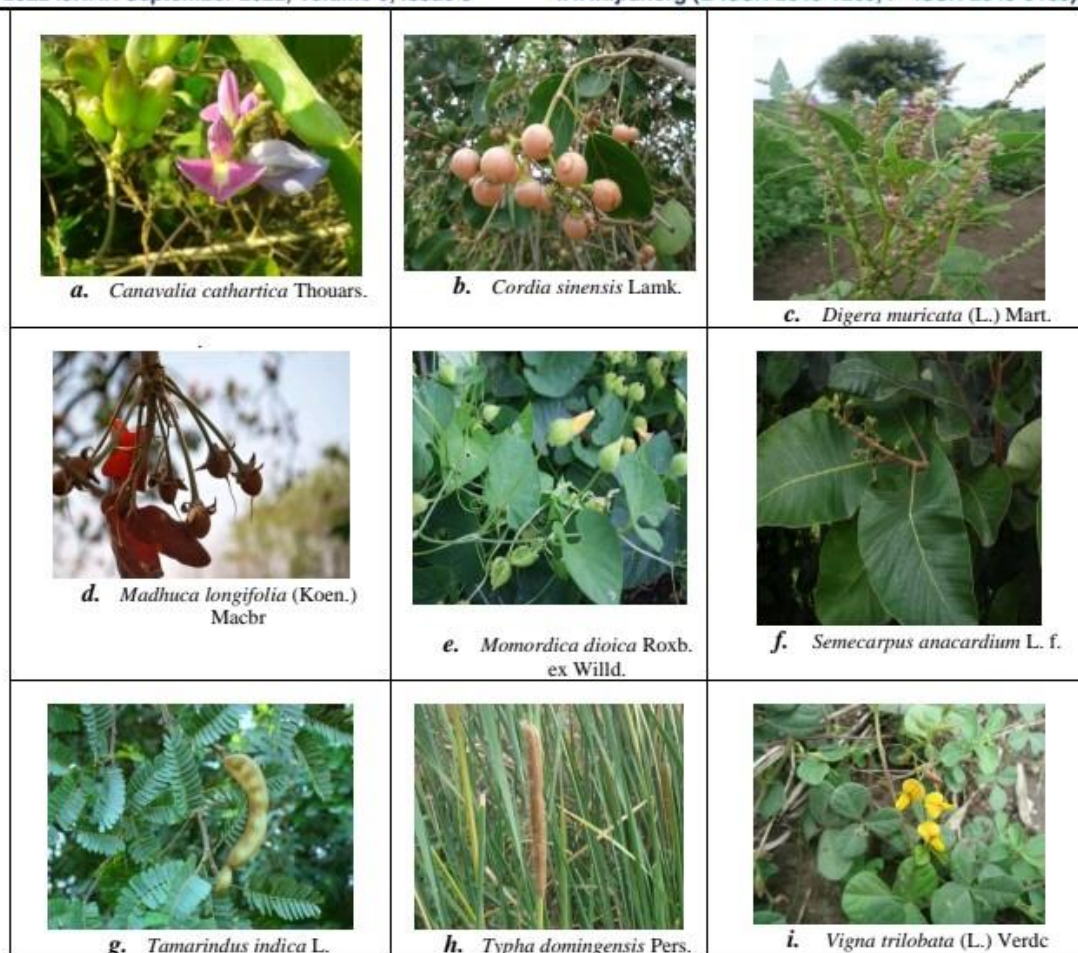


Plate-III: Habit diversity of some wild edible plants from Jalna district.

DISCUSSION

The present ethnobotanical survey was conducted in different localities of Jalna district of Maharashtra has resulted into documentation of 32 wild edible plants species. The tender leaves of 12 plant species are edible and used as vegetable and edible parts of 20 plants are eaten via. cooked or eaten as raw or sometimes roasted. The plant parts like root, stem, leaves, flowers, fruits, and seeds are uses for edible purpose. Plate-III compiled for habit diversity of some wild edible plants of different localities from Jalna district. The fruit of *Buchanania cochinchinensis* (Lour.) Almeida. are edible; locally the plant is called as *Charoli*. The children and many villagers collect the fruits of this plants and used for making many food products. The weed plants found in agricultural field like *Celosia argentea* L., *Oxalis corniculata* L., *Corchorus olitorius* L., *Colocasia esculenta* (L.) Schott., *Digera muricata* (L.) Mart., *Portulaca oleracea* L., *Senna tora* (L.) Roxb. etc. The plant like *Typha domingensis* have edible rhizome, it consumed by the people when roasted. The present investigation shows that, wild edible plants species belongs to 25 angiospermic families of which 31 were dicotyledonous families and 1 genus form monocotyledonous family. Wild vegetables are the famous recipes for villagers and become main ingredients in the diet when available. Edible fruits may consumed for fulfillment of new test and also have efficiency to cure human health problems.

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Ethnoveterinary practices for reproductive ailments by villagers nearby Ambabarva Wildlife Sanctuary, Buldhana District, MS, India

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ABSTRACT

The Amba Barwa Wildlife Sanctuary is situated in satpuda hills of Buldhana District of Maharashtra. The current study is based on a comprehensive field survey that the authors conducted in this area for ethnoveterinary applications, with a focus on reproductive problems, between June 2019 and July 2022. Traditionally, local and tribal people in this area have used locally accessible ethnoveterinary medicines to treat a variety of illnesses affecting the animal populations. This study report contains data gathered from 68 Vaidus or informants, in the specified region. The 21 families comprise a total of 25 plants that were mostly used to treat reproductive diseases and abnormalities in domestic animals, such as anestrus condition, placenta retention, uterine prolapse, etc.

Keywords: Reproductive ailments, Ethnoveterinary, Ambabarva Wildlife Sanctuary.

INTRODUCTION

Since human civilization man use medicinal plants to cure various ailments of cattle. A cattle farming is one of the most income generating occupation in India. It also helps in agricultural work and maintenance in various ways to enhance Indian economy even present day. Ethnoveterinary medicine, deals with traditional animal health care which encompasses the knowledge, skill, methods, practices concerning animal health care (Kumar and Nagayya, 2017). These ethnoveterinary medicines are used by villagers traditionally to treat animals. Many authors documented traditional ethnoveterinary practices of Buldhana district Maharashtra State (Marathe *et al.*, 2010; Patil *et al.*, 2010; Pocchi, 2013; Patil and Rothe, 2017). This is totally based on knowledge acquired by traditional healers from his ancestry. This indigenous knowledge of the veterinary health care is sometimes also be transmitted orally from one generation to next generation. Thus, it is time need to conserve the whole documentation of these indigenous knowledge.



Fig. 1 Study area of Ambabarva wildlife Sanctuary, Buldhana district

Study Area:

Ambabarva Wildlife Sanctuary is rich biodiversity region. It is situated in the western side of Melghat Tiger Reserve in the Sangrampur Tahsil of Buldhana district of Maharashtra state, India. It includes reserve forest of 102.10 Km². Protected forest 22.62 Km² and remaining is under cultivation and inhabited by tribal Ambabarva, Chunksadi and Rohinkhidki of Sangrampur Taluka of Buldhana District (Fig. 1).

It is a land of small holdings and 70% of population practice subsistence agriculture, but the most tribal and farmers are not self-sufficient. They have to rear domestic animals such as oxen, cows, buffaloes, goats and sheep. As per the 20th livestock census (2019), there are total numbers of cattle was 461529, buffaloes were 134148, sheep were 125280 and goats were 364689 in the Buldhana district (Anonyms (2019).

MATERIAL AND METHODS

Extensive field survey was done to document ethnoveterinary practices which are used by ethno-veterinary medicine practitioners, rural and tribal people of Jalgaon Jamod & Sangrampur Taluka of Buldhana district resided near Ambabarva Wildlife Sanctuary. A survey sheet/ data sheet was carefully prepared for documentation. Weekly tours are

organized with the local informants to observe the ethno-veterinary practices in rural as well as tribal areas of the region. Local or tribal people were interviewed in most formal way. The ethno-veterinary medicinal plant species will be collected during the field trips and will be brought to the laboratory. Plant species will be identified using standard floras (Naik, (1998); Sharma *et.al.* (1996); Singh & Karthikeyan, (2000); Diwakar & Sharma (2000); Singh *et al.*, (2001). Herbarium specimens were prepared and deposited in the Herbarium, N. E. S. Science College, Nanded.

RESULTS AND DISCUSSION

In present study, 25 ethnoveterinary medicinal plant species of 21 families have been recorded for their important ethnoveterinary medicinal practices in study area (Table 1, Fig. 2). The total of 68 informants were systematically interviewed at their local home places through convenience sampling. Among these 57 informants were old, young informants 11 were between the age of 30-45 years. The majority of informants were 80 years & above. During the interrogation it was observed that old & illiterate group herbal healers have more traditional knowledge than young and educated class. All the informants were interviewed in local languages. In collected information 1 shrub, 2 climbers, 11 herbs and 11 trees (Fig. 3).

Table 1: Medicinal plants and their traditional utility to treat various reproductive diseases of livestock in Jalgaon (J) & Sangrampur Tahsil

Sr. No.	Plant name/Local Name/Life Form	Family	Plant part used and mode of Administration
1	<i>Allium sativum</i> L. Local Name-Lahsun (Herbs)	Amaryllidaceae	Rublets are given to cure anestrus condition
2	<i>Butea monosperma</i> (Lam.) Taub. Local Name-Palas (Tree)	Fabaceae	Flowers are given orally to retention placenta
3	<i>Colocasia gigantea</i> (Blume) Hook f. Local Name-Bramha Raksha (Herbs)	Araceae	Leaves Cake with Gram flour is given for pregnancy/ conceived 1/4 th part of leaf along with jawar cake given in anestrus condition Leaves paste recommended Uterine prolapsed
4	<i>Commiphora wightii</i> (Arn.) Bhandari Local Name (Tree)	Burseraceae	Gum along with jaggery is given to cure anestrus condition
5	<i>Cyphostemma setosum</i> (Roxb.) Alston Local Name-Karmud Kand (Climber)	Vitaceae	Tuber paste recommended Uterine prolapsed
6	<i>Datura innoxia</i> Mill. Local Name-Dhotra (Herb)	Solanaceae	Fruits/seeds given to cure anestrus condition
7	<i>Dendrocalamus strictus</i> (Roxb.) Nees Local Name-Bambu (Tree)	Poaceae	Leaves are given orally to retain placenta
8	<i>Drimys indica</i> (Roxb.) Jessop Local Name-Ran kanda (Herbs)	Asparagaceae	Bulb paste recommended Uterine prolapsed
9	<i>Ficus benghalensis</i> L. Local Name-Vad (Tree)	Moraceae	Young prop roots given to cure anestrus condition
10	<i>Hibiscus cannabinus</i> L. Local Name-Ambadi (Herbs)	Malvaceae	Leaves + jawar cake/grains are given orally to retain placenta
11	<i>Limonia acidissima</i> Groff. Local Name-Kawat (Tree)	Rutaceae	Leaves +oil given orally to retain placenta
12	<i>Linum usitatissimum</i> L. Local Name-Jawas (Herbs)	Linaceae	Seeds are given orally to retain placenta
13	<i>Madhuca longifolia</i> (J. Koenig ex L.) J.F. Macbr. Local Name-Moha (Tree)	Sapotaceae	Flowers/ seeds are given orally to retain placenta
14	<i>Melia Azadirachta</i> L. Local Name-Bakana Neem (Tree)	Meliaceae	Leaves are given orally to retain placenta
15	<i>Mimosa pudica</i> L. Local Name-Lajalu (Herbs)	Fabaceae	Leaves paste recommended Uterine prolapsed
16	<i>Mirabilis jalapa</i> L. Local Name-Kalahari (Herbs)	Nyctaginaceae	Tuberous roots paste is applied to cure Uterine prolapsed
17	<i>Morus alba</i> L. Local Name-Tuti (Tree)	Moraceae	Leaves paste recommended Uterine prolapsed
18	<i>Pergularia daemia</i> (Forssk.) Chiov. Local Name-Utaran (Climber)	Apocynaceae	Leaves are given orally to retain placenta
19	<i>Phoenix dactylifera</i> L. Local Name-Date palm (Tree)	Arecaceae	Seeds along with clove in wet flour given orally to retain placenta
20	<i>Ricinus communis</i> L. Local Name-Erandi (Shrub)	Euphorbiaceae	Leaves are given orally to retain placenta
21	<i>Striga angustifolia</i> (D. Don.) C. J. Saldanha Local Name-Taukala (Herbs)	Orobanchaceae	Seeds used in Pranayradhan (Sexual stimulation) i.e. anestrus condition
22	<i>Tectona grandis</i> L. f. Local Name-Sag (Tree)	Lamiaceae	Root along with jaggery is given to cure anestrus condition Seeds are given orally to retain placenta
23	<i>Tragia involucrata</i> L. Local Name-Aagya (Herbs)	Euphorbiaceae	Root is given along with jawar cake to cure anestrus condition Leaves paste recommended Uterine prolapsed
24	<i>Tridax procumbens</i> L. Local Name-Kamarmodi, Alguja (Herbs)	Asteraceae	Whole plant paste is applied to cure Uterine prolapsed
25	<i>Triticum aestivum</i> L. Local Name-Gahu (Herbs)	Poaceae	Sprouted grains are given to cure anestrus condition



Fig. 1 Photo plate : Medicinal plants used to treat various reproductive diseases of livestock in Jalgaon (J) & Sangrampur Tahsil

- a. *Colocasia gigantea* (Blume) Hook f. b. *Datura innoxia* Mill. c. *Dendrocalamus strictus* (Roxb.) Nees
d. *Hibiscus cannabinus* L. e. *Mimosa pudica* L. f. *Phoenix dactylifera* L.
g. *Pergularia daemia* (Forssk.) Chiov. h. *Striga angustifolia* (D. Don.) C. J. Saldanha i. *Tectona grandis* L.f.

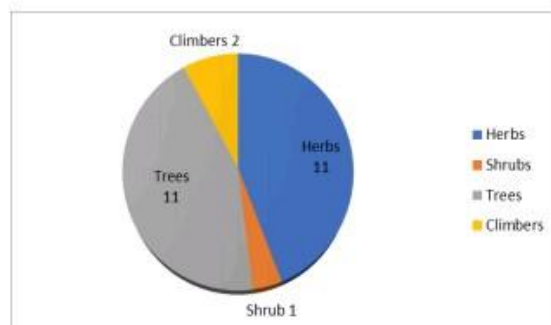


Fig. Pie Diagram: Shows habit diversity of Medicinal Plant species

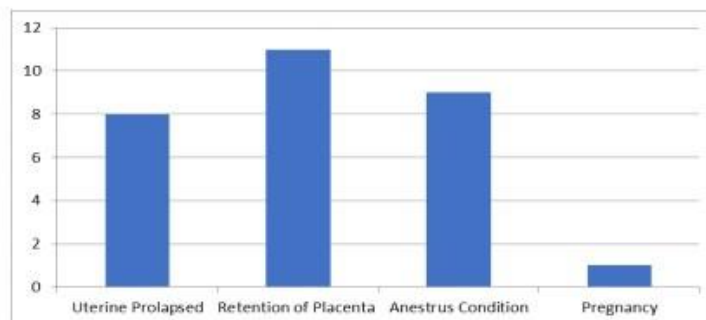


Figure: I Shows disorders and Number of Plant Species used by local people

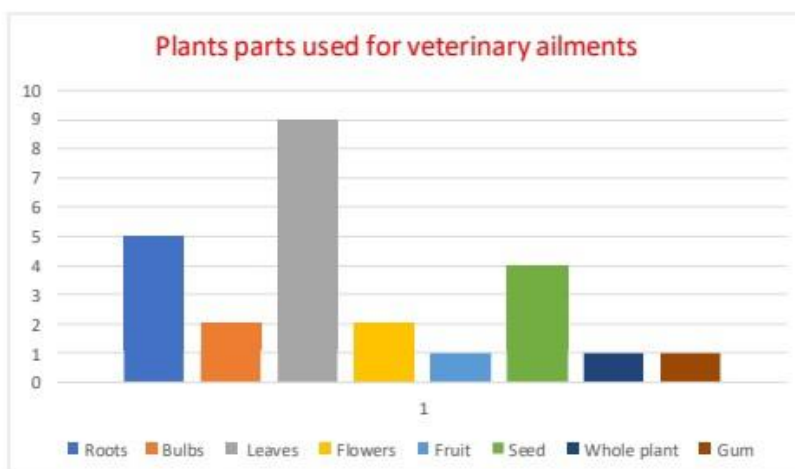


Figure: II Shows plants parts used for veterinary ailments.

Out of which plant's parts used for reproductive ailments were roots 5, bulbs 2, leaves 9, flowers 2, fruit 1, seed 4, whole plant 1 and other plant material as a gum 1 (Fig. 5). Disorders and Number of Plant Species used by local people are shown in Fig.4. Different herbal medicines are used by local herbal practitioners to treat their livestock in different regions of our country but some used herbal ingredients are common in many regions. Reproductive disorders are very dangerous and becoming worldwide health problem in livestock. Rather than synthetic drugs the herbal medicine play very effective role in reproductive ailments.

CONCLUSION

Medicinal herbs are used by the Ambabarva indigenous population to heal their livestock. 25

medicinal plants were used by the herbal healers to treat ailments related to reproduction. While the knowledge and applications of these plants have been mostly lost, farmers in isolated communities and (Adhivasi) folk men have managed to retain our ancient knowledge of ethno-veterinary treatment. Oral transmission is typically used to pass it on from generation to generation. Research into ethno-veterinary medicines has a wide range of opportunities. Important medicinal plants include *Pergularia daemia*, *Madhuca longifolia*, and *Hibiscus cannabinus* are beneficial for helping placenta retention. Most commonly used plants to treat anestrus conditions include *Tectona grandis*, *Tragia involucrata*, *Triticum aestivum*, *Ficus benghalensis*, and others. *Tragia involucrata*, *Morus alba*, and *Cyphostemma setosum* are used to treat uterine prolapses. The current work makes a significant contribution to preventing the extinction of

knowledge based on native flora. This information is extremely valuable and has to be shared widely in order to preserve and propagate medicinal plant species.

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