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# Few Ethano-Botanical Medicinal Plants from Toranmal Plateau, Maharashtra, India

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*Abstract:* A survey has done on medicinal plants of Toranmal Plateau of Nandurbar district, Maharashtra, India, when data was collected, attention given to the specific diseases of human being. Some common diseases like allergy, arthritis, asthma, blood purifier, body pain, boils, bone fracture, and brain tonic etc. are very common. About 37 plant species are found to be used by tribal people in the Toranmal plateau to cure above diseases.

*Index Terms:* Enter Toranmal plateau, Maharashtra, medicinal plants, specific diseases.

## I. INTRODUCTION

Toranmal plateau is a part of Nandurbar which is the newly constituted district in the state of Maharashtra (Anonymous, 2010; Bankar V. V. & P.P. Sharma. 2016). As much as 65% of the population of the district is tribal. Satpuda Mountain is a range of hills in central India. The range rises in eastern Gujarat state near the Arabian Sea coast, running east through the border of Maharashtra and Madhya Pradesh to the east till Chhattisgarh. Satpuda Range, range of hills, part of the Deccan plateau, western India. The hills stretch for some 560 miles (900 km) across the widest part of peninsular India, through Maharashtra and Madhya Pradesh states. The district can be divided into hilly tracts and undulating pain areas. The hillocks of Satpuda are flat-topped and plain. Highest elevation is recorded at Toranmal hills rising up to 3373 ft. with a lake on its top. Very small part of Narmada basin is towards the west. The name of Satpuda is given because of the seven folds forms the watershed between Narmada (north) Tapti (south) rivers.

Toranmal Plateau is one of the important plateaus in mid Satpuda in northern Maharashtra. This plateau forms a table land and summit covering about 41 Sq.Km. area at 1155-meter altitude (AMSL). It lies in western Satpuda Mountain which is a horst block between Narmada graban on north and Tapi in the south. Because of its scenic beauty it has a long historical background. The total plateau summit area covers 41 Sq. Km. and extend between 21 ° 54' North to 21 ° 61' latitude and 74° 26' to 74 °34' East longitude. This is one of the best hill stations and famous tourist resort in North Western Maharashtra, (Anonymous, 2010).

# II. MATERIAL METHODS

The data presented is based on personal interviews and observations of informants (Anonymous, 1988-2008). The indigenous knowledge of local people regarding plants was gathered by intensive ethnobotanical explorations. The area visited annually for 4-5 times for covering different villages and hamlets of study area and each visit lasted for about 5-6 days. During the field investigation, for plant collection and documentation of data, the informant accompanied the author/s. Sometimes more than one informant was included in the team. Each use of the plant has been confirmed and verified during different visits to different localities in the region and even with the same informants on different occasions. The uses were considered valid if at least 2 informants had similar remarks about the uses of the plant. During the field work 2-3 voucher specimens of each useful plant and plant part used in medicine were collected and numbered. The voucher specimens were made mostly at flowering or fruiting stage according the standard methods (Jain & Rao, 1976). Their description, uses and other details were recorded in the field book and in ethnobotany data sheets, which is based on (Jain 1995). Collected plant specimens were identified with the help of keys to families, genera and species provided in standard floras (Patil, 2003), (Cooke 1958,1967), (Sharma et al. 1996), (Singh et al. 2000 & 2001) (Bankar 2016) etc.

### III. RESULT AND DISCUSSION

Total 37 angiosperm species used for treating different diseases of human being have been recorded. Out of the 37 plant species one species is used for allergy, five used for arthritis. three used for asthma, six for blood purifier, two for body pain, nine for boils, eight for bone fracture, three used for brain tonic are recorded. Maximum number of species used for treating blood purifier, boils, bone fracture, and brain tonic diseases are from family

Fabaceae which is followed by Malvaceae, Solanaceae, Euphorbiaceae.

Table. I. Description of plants

Disease	<b>Botanical name</b>	Local name	Family	Dose and Body Part used
ALLERGY	Emblica officinalis	Avala	Euphorbiaceae	Fruits punctured by niddle and soaked in sugar solution for 15 days then eaten fruit per day regularly for 30 days to strength immunity.
ARTHHRITIS	Cuscuta reflexa	Amarvel	Cuscutceae	Paste of whole plant applied externally on joints.
	Euphrobia tirucalli	Euphorbiaceae	Sher	Latex applied externally on joints to reduce pain.
	Indigofera trifolia	Fabaceae	Vekari	Seed paste warmed and applied over joints for 10- 15 days to treat arthritic pain.
	Ipomoea carnea	Convolvulaceae	Beshram	Leaves warmed and wrapped over joints
	Semecarpus anacardi	Anacardiaceae	Bibba	30-40ml extract of bark with pinch of black pepper powder taken twice a day for 15 days.
ASTHAMA	Aerva lanata	Amaranthaceae	Kapuri-madhuri'	Dry leaves/ flowers smoked like cigarette thrice a day till cure
	Solanum nigrum	Solanaceae	Kangni	One tea cup extract of handful leaves with cooking oil drops taken orally once a day for 21 days.
	Withania somnifera	Solanaceae	Ashwagandha	30-40ml of roots extract with sugar taken twice a day for 7-8 days
BLOOD PURIFIER	Dolichandrone falcate	Bignoniaceae	Medhsing	half cup of leaf extract taken once a day 15 days
	Hemidesmus indicus	Periplocaceae	Anantmul	1-2 gm root powder taken with water or milk as a blood Purifier
	Madhuca longifolia	Sapotaceae	Mohwa	20-30 ml extract of inner bark is taken once in a week for 5 weeks.
	Mimosa hamata	Fabaceae	Arati	Seed extract with sugar about one tea cup taken once a day for 15 days.
	Sida cordata	Malvaceae	Bala	Half tea cup extract of whole plant taken once a day for 15 days.
	Abrus precatorius	Fabaceae,	Gunj	20-30ml extract of handful leaves given once a day for 10 days or leaves eaten raw.
BODY PAIN	Careya arborea	Lecythidaceae	Kumbhi	40-50 ml extract of handful fresh stem bark, twice a day for 3-4 days.
	Flacourtia indica	Flacourtiaceae	Tambat	one tea cup extract of stem bark taken orally twice a day three days.
BOILS	Alangium salvifolium	Alangiaceae	Ankul	Inner bark paste is applied for treating cuts. Boils: Root paste is applied externally on boils for 15 days.
	Bauhinia racemosa	Fabaceae	Apata	20-30ml of stem bark extract taken twice a day for 2-3 days.
	Capparis decidua	Capparaceae	Nepti	Leaves are made into paste which is applied on

				boils.
	Cleome viscosa	Capparaceae,	Pivalitilvan	Seed paste applied on boils which avoids pus formation.
	Hibiscus rosa- sinensis	Malvaceae	Jasvand	Leaf paste with pinch of termeric powder, applied externally on boils until cure.
	Melia azedarach	Meliaceae	Bakam limb'	Leaf paste applied on boils daily thrice until cure.
	Nicotiana tabacum	Solanaceae	Tambakhu	Leaves crushed with ghee and applied externally until cure.
	Sesbania sesban	Fabaceae	Shevari	Leaf juice applied until cure.
	Trigonella foenum- graecum	Fabaceae	Methi	Boil seeds paste applied externally twice a day until cure.
BONE FRACTURE	Aegle marmelos	Rutaceae	Bel	20-25 ml of bark extract twice a day until cure.
	Caesalpinia bonduc	Fabaceae	Sagargoata	Leaf paste is applied externally and bandaged by using bamboo strips and cotton cloth.
	Cissus quadrangularis	Vitaceae	Kandvel	Plant paste is applied over fractured arm and tied the same as plaster is being done by using bamboo strips, jute thread and cotton cloth. Same is kept for 15-20 days.
	Dodonea viscosa	Sapindaceae	Dedoni	Paste of leaves with turmeric powder in 2:1 proportion mixed with coconut oil and applied, then bandaged by using bamboo strips and cotton cloth as a plaster.
	Grewia hirsute	Tiliaceae	Khirmid	Inner stem bark with pinch of black pepper powder crushed to make paste, taken 1-2gm twice a day until cure.
	Lannea coromandelica	Anacardiaceae	Shimti	Fruits paste is applied and bark is used as a bandage (as a plaster).
	Sterculia urens	Sterculiaceae	Kahandol	1-2gm of stem bark powder taken with milk thrice a day till cure.
	Vanda tessellates	Orchidaceae	Marad	One tea cup juice of leaves and roots with <i>Piper</i> <i>nigrum</i> seeds powder taken orally daily thrice for 7 days (or) applied externally with eggs and red lime powder (Jaju in local language) on factored part and bind with bamboo sticks.
BRAIN TONIC	Bacopa monnieri	Scorphulariaceae	Brahmi	Whole plant extract with honey given 20-30 ml regularly for good memory.
	Cannabis sativa	Cannabaceaee	Aphu	1 gm dry leaf powder taken with water twice a day for 15 days
	Centella asiatica	Apiaceae	Brahmi	20-30ml leaf extract with sugar given regularly for good memory.

#### REFERENCES

- Anonymous "Toranmal Toranmal Maharashtra, Toranmal Hill Station India". Maharashtratourism.net. Retrieved 2010-09-27.
- Anonymous (1988-2008). The wealth of India: A dictionary of Indian Raw Materials and Industrial products. Raw materials Vol-I-XI, CSIR, New Delhi.
- Bankar V. V. & P.P. Sharma. (2016). Ethno-musico-botanical studies from Toranmal region, Nandurbar District, Maharashtra, India. *The South Asian Academic Research*
- Bankar V. V. & P.P. Sharma. (2016). Traditional Knowledge of wild Plants Used in Toranmal Region of Nandurbar district Maharashtra, India. *Int. Journ. Of Institutional Pharmacy and Life Sciences.* Vol 6:1. 260-267.
- Bankar V. V. & P.P. Sharma. (2016). Utilitarian Aspects of Some Plant Resources from Toranmal plateau, Nandurbar District, Maharashtra, India. *Scholars World*, *Chronicle*. Vol .3: 57-63.
- Cook. T. (1967). *The flora of the presidency of Bombay*, Vol IIII., (Reprinted Under the authority of the Government of India) Botanical Survey of India.
- Cooke T. (1901-1908), *The flora of the presidency of Bombay* London vol-2, Repr. Ed. 1958 vol-3, Govt. of India.
- Jain S.K. & Rao R.R., (1976), A Handbook of Field & Herbarium Methods, New Delhi.
- Jain, S. K. (Ed). (1995). *A Manual of Ethnobotany* (Second Edition). Scientific Pub., Jodhpur.
- Patil, D.A., 2003. Flora of Dhule & Nandurbar District, Maharashtra. Bishen Singh, Mahendra Pal Singh, Dehradun, India.
- Sharma B.D., S. Karthikeyan & N.P. Singh, (1996), Flora of Maharashtra state Monocotyledons, BSI, Calcutta.
- Singh N.P. & Karthikeyan S., (2000), *Flora of Maharashtra state Dicotyledons* Volume 1, BSI, Calcutta.
- Singh N.P., Lakshminarasimhan P., Karthikeyan S. & Prasanna P.V., (2001), *Flora of Maharashtra state Dicotyledons* Volume 2, BSI, Calcutta. Special Issue VI: 21-29.

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