

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.074

Volume 8, Issue 6, 1579-1585.

Research Article

ISSN 2277-7105

ETHNOBOTANICAL SURVEY IN APIACEAE PLANTS IN KABEERDHAM, CHHATTISGARH, INDIA

*Prachi Shrivastava

Department of Botany, Dr. C.V. Raman University, Kargi Road, Kota, Bilapsur (C.G.).

Article Received on 20 March 2019,

Revised on 10 April 2019, Accepted on 01 May 2019,

DOI: 10.20959/wjpr20196-15059

*Corresponding Author Prachi Shrivastava

Department of Botany, Dr. C.V. Raman University, Kargi Road, Kota, Bilapsur (C.G.).

ABSTRACT

A survey was conducted to document the ethnobotanical potential of Kabeerdham district in Apiaceae plants during 2019. This study report the result of an ethnobotanical survey on the uses of medicinal plants by inhabitants of Kawardha, the study was mainly focused on gathering information on traditional uses of plants from local peoples. The present study reviews the ethno medicinal uses of family Apiaceae reported from Kawardha. Out of 60 species reported from Kawardha 58 are found to be used medicinally. The main uses of the herbal drugs were as digestive antihelmintic febrifuge respiratory problems. Most commonly treated disorders by use Apiaceae herbal flora are

gastrointestinal tract and liver disorders (48%) cough cold and respiratory tract problems (71%) the plants parts frequently used are root (27%) followed by whole plants material (60%) leaf root fruit (30%) its is suggested to carry out similar studies for other families to explore the indigenous knowledge for the development and collectively document the scattered existing knowledge, a number of Indian medicinal plants have been used in the traditional system of Ayurveda. The result of this survey indicated that studied area is rich in medicinal plants to treat a wide spectrum of human ailments; therefore this work will also contribute towards the information for the new treatment through drugs and their utilizations.

KEYWORDS: Vegetable, Kabeerdham, Oil formation, Traditional Knowledge, Medicinal Uses, Ethnobotanical survey.

INTRODUCTION

The ethnobotanical study was conducted in different area of Kabeerdham district of Chhattisgarh India. The reports were documented and it has been found that 80 plants species are described in which different segments of plants are used for different intended purposes

by human being for example medicine, food, fodder, furniture, diner, cosmetics etc. Kabeerdham district is rich in biodiversity of Umbelliferae or Apiaceae plants it is a most basic plants of ethnobotany. Umbelliferae family has a multiple quality, he plants belong to this family are medicinal plant, ornamental plant, oil formation plant, carminative plant flavoring agent plant, insecticidal plants spice plants etc. Ethnobotany literally means the study of botany of the primeval race. This term was first applied by Harsh Berger in 1895 to the study of plants used by primitive man and plants. Later in 1962 Schulte interpreted ethnobotany as the study of relationship between people of primitive sociality and their plant environment (Sharma and Kumar, 2011).

The forest area is about 4.64% of the total area of Chhattisgarh 41 villages is found in Kabeerdham district. latitude 21 longitude 82 degree Soil black and red climate tropical or subtropical. Umbelliferae family plant represents the diverse plant part used included whole plants, leaves, stem, roots, tuber, bark, flowers, fruit and seeds. Traditional and ethnic fact gathered from such study has transact most significant role in the discovery of the natural resources. Umbelliferae plants were screened for polyacetylenic compound antiproliferative constituents in Umbelliferae plants. These plants are mostly medicinal flavoring agent insecticidal seductive oil formation it's tonic plant plays a very multiple role for the use for human society. The plants of this family are cosmopolitan in their distribution, however they are not found in arctic regions. They are very commonly found in northern temperate regions. In the tropical countries they are either found in the hilly tract or cultivated in the winter season. In our country the family is represented by several important species such as Corundum sativum, Cuminum cyminnum etc. Majority of the plants are annual, biennial herbs sometime shrub and under shrub are also found.

These plants have showed important source of medicine for human being since ancient times. The knowledge of use of medicinally important plant has been passed verbally from generation to generation over times and led to the discovery of a wide range of plant derived drugs. Ethnobotanical researches are conducted to prevent both loss of this knowledge and its destructive changes during transmission between Generations. This information is also collected and documented by ethnobotanical studies for further investigations in future. Documenting this information is useful for recording local culture traditions and gives us some of the important information necessary to protect our natural habitat (Mosaddegh, 2012).

MATERIALS AND METHODS

Sampling site: Kawardha Kabeerdham district

Present study was carried out in various baiga villages of Kabeerdham in India. A survey was undertaken to collect information from baiga people on the use and management of natural resources. The survey made in baiga dominated villages of plant family. The indigenous knowledge of local traditional healers and the natural resources used for various purposes were collected through questionnaire and personal interviews during field trips. The ethnomedicinal information was obtained from knowledgeable person, experienced people medicine men and heads and local inhabitants of the village, who have knowledge of plants for health and livelihood security (Sandey and Sharma, 2016).

Ethno botanical field work was operated in several tribal lush village of Kabeerdham data on uses were recorded in the field from experience people. Data has been collected by survey in all over Kawardha block, species images are taken in morning and evening schedule. Surveys were made in the kabeerdham block present in Maikal hills and near the sankri river (Nawaz, 2009).

RESULT AND DISCUSSION

The reports were documented of ethnobotany edible medicinal flavoring agent etc use of 50 plants species in Apiaceae family are described in which different parts of plants are used for different purposes for folklore traditional utilization resource by people etc. (Table). Plants species were recorded which are being used as vegetables, drinks, fruits, dry fruits, pickles, foods, chutney, medicinal use, food oil formation. Family wise distribution of 50 medicinal plants shows this family is most dominant families with 16 species each. Herb tree, shrub, climber medicinal are reported for each species. Botanical name, family name, local name, eaten part, medicinal use, ethnobotanical use and methods of use, administration and ailments treated are provided.

During the survey, 52 herbs belonging to 48 genera and 26 plant families showed to present medicinal uses (Table 1). The families which contributed with species included as folk medicines were: Lamiaceae (9 spp.), Asteraceae (8 spp.), Apiaceae (4 spp.), while the remaining 18 families had only one medicinal species. Different parts of medicinal plant species were used by indigenous people of this area as medicine. For curing ailments, the use of aerial plant parts was higher (85%) than the underground parts (15%). Among the aerial

parts, leaf was used in majority of cases (28 species). Leaves were used the most, constituting (25%) of the total uses. This was followed by fruits (19%), flowers (17%), roots (15%), seeds (12%), whole plants (8%), barks (2%) and gums (2%). Maximum use of leaves medicinal purpose indicates in apiaceae ither these plants are easily availability or they may have strong medicinal properties (Amiri et. al., 2012) Taxonomically dicotyledons plants were the most species rich and contribute 292 taxa belonging to 218 genera and 75 families, whereas monocotyledonous plants contribute 54 taxa belonging to 47 genera and 15 families. Among the monocotyledonous plants Aristida setacea, Apluda mutica, Heteropogon contortus and Perotis indica were collected from scrub savannas. Many species of plants enumerated in the Biodiversity Park are medicinally valuable resources, apiaceae family (Sukumaran and Parthiban, 2014).

A total of 26 Aromatic plants were propagated by using their seeds out of them some species of Aromatic plants were also introduced in developed form in the Herbal Garden. Mostly herbaceous plant seeds are grown in the field directly, but in the case of woody plants need for development of new plants by nursery method. When the new plantlets are capable to survive in the field are shifted to the field followed by proper care. All management strategies applied, which are needed for their successfully development of the new individuals of the Aromatic plants (Patel, 2015).

Table: Taxonomic details of plants and their edible use full parts.

S/N	Botanical name	Folk/local name	Habit	Part used	Ethnomedicinal Ethnobotnical importance
1	Anethum graveolens	soay	Herb	Seed	Carminative, digestive disorders, Antihypertensive
2	Ammi visnaga	Spairkai	Herb	Whole plant	Painful menstruation, kidney stones, cough, whooping cough, asthma, hypertension medicine
3	Ammi majus	Ajowain desi	Herb	Whole plants	Psoriasis, and leukoderma vitiligo
4	Apium leptophylum	Ajmoda	Herb	Flowers	Colic pain, useful in antinephritic, Antirheumatic
5	Apium graveolens	Karfas	Herb	Root	Analgesic, stimulant
6	Anthriscus nemorosa	Rosa	Herb	Fruit stem	Carminative, aromatic agent
7	Angelica galauca	Choru	Herb	Root	Infantile atrophy, stimulant, cardio active.
8	Angelica archangelica	lica	Herb	Root seed	Nervous system, resoiratory tract medicine
9	Anethum sowa	sowa	Herb	Fruit	The root are eaten vegetable
10	Bupleurum hamiltonii	toni	Herb	Aerial part	Used for fever, cough and influenza
11	Bunium cyllindricum	Dri	Herb	Fruit	Carminative
12	Bupleurum falcatum	catum	Herb	Whole plant	Anti-allergic, anti-inflammatory activity
13	Bunium persicum	Kala Zeera	Herb	Fruit	Abdominal pain, indigestion.
14	Bupleuram longicule	Cule	Herb	Root	Usefull in flatulence, liver troubles and

15 Bupleurum lanceeolatum 16 Bupleurum hamiltonii urum Herb Aerial parts Cough, used for fever. 17 Centella asiatica ghoptapre Herb Whole plant Steful in skin diseases, cuts and snake bites. 18 Carum carvi Zira siah Herb Fruit Flatulent colic spasmodic conditions 19 Coriandrum sativam Dhania Herb Leaf Carminative, stomachin and tonic, stimulant. 20 Carum carvi Shiajira herb seed Carminative, condiment, stomachin. 21 Centella asiatica Brahmi Herb Leaf Weed Blood purifier, local stimulant, antiphlogistic, tonic. 22 Cuminum stellatum atum Herb Seed Carminative, oli formation 23 Cuminum cyminum Zeera sufaid Herb Seed Carminative, oli formation 24 Cortia depressa tias Herb Flowers seed Knee and waist pain. 25 Chaerophyllum reflexum exum Herb Stem Urinary disorders, oil formation 26 Chaerophyllum villosum sum Herb Stem Urinary disorders, oil formation 27 Daucus carota Gager Herb Root Anticovulsion, expectorant 28 Dorema ammoniacum cum Herb Root Anticovulsion, expectorant 29 Eryngium billardierei gium Herb Root Use in constipation 30 Foeniculum vulgare Saunf Herb Leaf Seed leaf, sap 31 Ferula onopoda Hing Herb Seed leaf, sap 32 Ferula narnhex Hing Herb Stem Tonic 33 Ferula assas foetida Hing Herb Root Sexual tonic to encourage potency. 34 Ferula assas foetida Sasa Herb Root Root paste used for skin problems, toothache. 35 Ferula assas foetida Hing Herb Root Root paste used for skin problems, toothache. 36 Hydrocovyle javanica Sien Herb Root Root paste used for skin problems, tofinal parts Antiseptic, caminative use Herb Stem Indigestion Dysentery Seed Use for Cold, cough, sexual problems, tofinal parts Antiseptic, caminative use Lisaea heterocarpa Khar sefid Herb Stem Indigestion Dysentery Sien S						others fevers.
Second Press	15	Bupleurum lanceeolatum	ola	Herb	Root leaf	
Second Press	16	1	urum	Herb	Aerial parts	
18 Carum carvi	17	•	ghoptapre	Herb	•	Usefull in skin diseases, cuts and snake
Coriandrum sativam	18	Carum carvi	Zira siah	Herb	Fruit	
Carum carvi	19	Coriandrum sativam	Dhania	Herb	leaf	Carminative, stomachin and tonic,
Centella asiatica	20		G1 · · ·	1 1	1	
Cemelad astalatea	20	Carum carvi	Shiajira	nerb	seed	
23 Cuminum cyminum Zeera sufaid Herb seed Knee and waist pain. 24 Cortia depressa tias Herb Flowers seed Sedeative and stomachache. 25 Chaerophyllum reflexum sum Herb Stem Urinary disorders, oil formation 26 Chaerophyllum villosum sum Herb Leaf Cold, cough, pain caused by cold. 27 Daucus carota Gager Herb Root Burns, scalds 28 Dorema ammoniacum cum Herb Root Anticovulsion, expectorant 29 Eryngium billardierei gium Herb Root Use in Antidabetic 30 Foeniculum vulgare Saunf Herb Leaf seed Use in Antidabetic 31 Ferula oopoda Hing Herb Whole plant Used for cough, asthma, gastric problems, toothache. 32 Ferula narthex Hing Herb Leaf Analgesic, nervous stimulant 34 Ferula assa-foetida assa Herb Stem Tonic <t< td=""><td>21</td><td>Centella asiatica</td><td>Brahmi</td><td>Herb</td><td>Leaf weed</td><td></td></t<>	21	Centella asiatica	Brahmi	Herb	Leaf weed	
24 Cortia depressa tias Herb Flowers seed Sedeative and stomachache. 25 Chaerophyllum reflexum exum Herb Stem Urinary disorders, oil formation 26 Chaerophyllum villosum sum Herb Cold, cough, pain caused by cold. 27 Dacus carota Gager Herb Root Burns, scalds 28 Dorema ammoniacum cum Herb Root Anticovulsion, expectorant 29 Eryngium billardierei gium Herb Root Use in constipation 30 Foeniculum vulgare Saunf Herb Leaf seed Use in constipation 31 Ferula oopoda Hing herb Whole plant Use in Antidiabetic 32 Ferula narthex Hing Herb Whole plant Use for cough, asthma, gastric problems, toothache. 33 Ferula assa-foetida Hing Herb Root Sexual tonic to encourage potency. 35 Ferula assa-foetida assa Herb Stem Tonic <t< td=""><td>22</td><td>Cuminum stellatum</td><td></td><td>Herb</td><td>Seed</td><td>Carminative, oil formation</td></t<>	22	Cuminum stellatum		Herb	Seed	Carminative, oil formation
25Chaerophyllum reflexumexumHerbStemUrinary disorders, oil formation26Chaerophyllum villosumsumHerbLeafCold, cough, pain caused by cold.27Daucus carotaGagerHerbRootBurns, scalds28Dorema ammoniacumcumHerbRootAnticovulsion, expectorant29Eryngium billardiereigiumHerbRootUse in constipation30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbLeafAnalgesic, nervous stimulant34Ferula assa-foetidaassaHerbRootSexual tonic to encourage potency.35Ferula assa-foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaN	23	Cuminum cyminum	Zeera sufaid	Herb	seed	Knee and waist pain.
26Chaerophyllum villosumsumHerbLeafCold, cough, pain caused by cold.27Daucus carotaGagerHerbRootBurns, scalds28Dorema ammoniacumcumHerbRootAnticovulsion, expectorant29Eryngium billardiereigiumHerbRootUse in constipation30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbLeafAnalgesic, nervous stimulant34Ferula communiserulaHerbRootSexual tonic to encourage potency.35Ferula assa- foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantCough and cold44Prangos pabulariaIariaHerb	24	Cortia depressa	tias	Herb	Flowers seed	Sedeative and stomachache.
27Daucus carotaGagerHerbRootBurns, scalds28Dorema ammoniacumcumHerbRootAnticovulsion, expectorant29Eryngium billardiereigiumHerbRootUse in constipation30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbWhole plantUse for cough, asthma, gastric problems, toothache.33Ferula communiserulaHerbRootSexual tonic to encourage potency.35Ferula assa-foetidaHingHerbRootSexual tonic to encourage potency.36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella diversifoliaNateHerbRoot, fruitCarminative, indigestion45	25	Chaerophyllum reflexum	exum	Herb	Stem	Urinary disorders, oil formation
28Dorema ammoniacumcumHerbRootAnticovulsion, expectorant29Eryngium billardiereigiumHerbRootUse in constipation30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbWhole plantUsed for cough, asthma, gastric problems, toothache.33Ferula communiserulaHerbLeafAnalgesic, nervous stimulant34Ferula assa-foetidaHingHerbRootSexual tonic to encourage potency.35Ferula assa-foetidaHingHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabulariaIaria <td< td=""><td>26</td><td>Chaerophyllum villosum</td><td>sum</td><td>Herb</td><td>Leaf</td><td>Cold, cough, pain caused by cold.</td></td<>	26	Chaerophyllum villosum	sum	Herb	Leaf	Cold, cough, pain caused by cold.
29Eryngium billardiereigiumHerbRootUse in constipation30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbWhole plantUsed for cough, asthma, gastric problems, toothache.33Ferula communiserulaHerbLeafAnalgesic, nervous stimulant34Ferula assa- foetidaassaHerbRootSexual tonic to encourage potency.35Ferula assa- foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbRoot, fruitCarminative, indigestion <td< td=""><td>27</td><td>Daucus carota</td><td>Gager</td><td>Herb</td><td>Root</td><td>Burns, scalds</td></td<>	27	Daucus carota	Gager	Herb	Root	Burns, scalds
30Foeniculum vulgareSaunfHerbLeaf seedUse in Antidiabetic31Ferula oopodaHingherbSeed leaf, sapThe stem is boiled and used to kill intestinal worms.32Ferula narthexHingHerbWhole plantUsed for cough, asthma, gastric problems, toothache.33Ferula communiserulaHerbLeafAnalgesic, nervous stimulant34Ferula assa-foetidaHingHerbRootSexual tonic to encourage potency.35Ferula assa-foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsMiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation<	28	Dorema ammoniacum	cum	Herb	Root	Anticovulsion, expectorant
The stem is boiled and used to kill intestinal worms.	29	Eryngium billardierei	gium	Herb	Root	Use in constipation
Ferula oopoda Hing Herb Seed leaf, sap intestinal worms.	30	Foeniculum vulgare	Saunf	Herb	Leaf seed	Use in Antidiabetic
Ferula narthex Hing Herb Whole plant Used for cough, asthma, gastric problems, toothache. Analgesic, nervous stimulant Ferula assa- foetida Herb Herb Stem Tonic Herb Herb Herb Stem Tonic Heracleum canescens Herb Herb	21	Ferula oopoda	Hing	herb	Seed leaf, sap	The stem is boiled and used to kill
Ferula narmex Hing Herb Leaf Analgesic, nervous stimulant	31					intestinal worms.
33Ferula communiserulaHerbLeafAnalgesic, nervous stimulant34Ferula assa-foetidaHingHerbRootSexual tonic to encourage potency.35Ferula assa-foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbLeafFor use liver disorder47Torilis leptophyllaAtraHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation	32	Ferula narthex	Hing	Herb	Whole plant	
34Ferula assa- foetidaHingHerbRootSexual tonic to encourage potency.35Ferula assa- foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbLeafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation	33	Ferula communis	erula	Herb	Leaf	
35Ferula assa- foetidaassaHerbStemTonic36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation						
36Hydrocotyle javanicanicaherbWhole plantIndigestion, fever37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbLeafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation		Ü		_		ŭ i
37Heracleum canescenscleumHerbRootRoot paste used for skin problem.38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation		Ü				
38Heracleum candicansichflahHerbSeedUse for Cold, cough, sexual problems39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbLeafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachyspermum ammiAjowainHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation						<u> </u>
39Ligusticum thomsoniikorshidoneHerbAerial partsAntiseptic, carminative use40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation						•
40Lisaea heterocarpaKhar sefidHerbStemIndigestion41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation					1	
41Oenanthe javanicajavanicaHerbStemOil formation, indigestion42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation					•	
42Pimpinella diversifoliaNellaHerbWhole plantDysentery43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabulariaIariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation	L			_		
43Pimpinella acuminateNateHerbFruitCough and cold44Prangos pabulariaIariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation						
44Prangos pabularialariaHerbRoot, fruitCarminative, indigestion45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation		1 0				, ,
45Scandix pectin- venerisButiHerbAerial partsUse in Body pains, blood coagulation46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation		*				C
46Selium candolliicandoHerbleafUse in skin diseases.47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation		0 1			·	· ĕ
47Torilis leptophyllaAtraHerbLeafFor use liver disorder48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation	L	*				• 1
48Trachydium royleiMushenHerbLeafAntidote scorpion medicine use in49Trachyspermum ammiAjowainHerbSeedDiarrhea cholera, colic oil formation						
49 Trachyspermum ammi Ajowain Herb Seed Diarrhea cholera, colic oil formation		1 1 1				
		ž ž				
		, ,			1	

CONCLUSION

Apiaceae plants play an important role in daily life of the local people the Kabeerdham block depends largely on Apiaceae plants resources for their livelihood and possesses rich traditional knowledge system. The local people considering in terms of dietary nutrition, marginal income and even local health care. In this study we report that the data collected shows that these medicinal plants have been used to cure 48 types of ailments. The results of

the present study provide evidence that medicinal plants continue to play an important role in the healthcare system of this tribal community. The ethnobotanical medicinal survey revealed that the people from this area have significant herbal drugs knowledge. It has been used by the local ethnic communities like Gond, baiga, korku, muria and oraon in order, to earn good revenue for their livelihood, collect these medicinal plants in huge quantities and sell them in the local markets at the cheaper rate.

ACKNOWLEDGMENTS

Principal author acknowledge thanks to Prof. R. P. Dubey, Pro Vice Chancellor, Dr. C. V. Raman University, Kota, Bilaspur Chhattisgarh for providing the opportunity. Dr. Amit Sharma, Deptt. of Botany, Dr. C. V. Raman University, Kota, Bilaspur Chhattisgarh are gratefully acknowledged for their guidance and support.

REFERENCES

- 1. Amiri MS, Jabbarzadeh P, Akhondi M. An ethnobotanical survey of medicinal plants used by indigenous people in Zangelanlo district, Northeast Iran. J Med Plants Res., 2012; 6: 749–753.
- 2. Ghorbani A, Naghibi F, Mosaddegh M. Ethnobotany, ethnopharmacology and drug discovery. Iranian J Pharm Sci., 2006; 2: 109–118.
- 3. Khodayari H, Amani S, Amiri H. Ethnobotanical study of medicinal plants in different regions of Khuzestan province, 2015.
- 4. Mosaddegh M, Naghibi F, Moazzeni H, Pirani A, Esmaeili S. Ethnobotanical survey of herbal remedies traditionally used in Kohghiluyeh va Boyer Ahmad province of Iran. J ethnopharmacol, 2012; 141: 80–95.
- 5. Nawaz, A.H.M.M., Hossain, M., Karim, M., Khan, M., Jahan, R. and Rahmatullah, M., An ethnobotanical survey of Rajshahi district in Rajshahi division, Bangladesh. *American Eurasian Journal of Sustainable Agriculture*, 2009; *3*(2): 143-150.
- 6. Patel, D.K., Aromatic plants diversity showing their propagation by seeds for ex-situ conservation in herbal garden. *Journal of Pharmacognosy and Phytochemistry*, 2015; 3(5): 152-156.
- 7. Sandey, H. and Sharma, A., Study on ethnomedicinal plants of Achanakmar-Amarkantak Tiger reserve of Chhattisgarh. *J. Sci. Let*, 2016; *1*(3): 216-222.
- 8. Sharma, H. and Kumar, A., Ethnobotanical studies on medicinal plants of Rajasthan (India): A review. *Journal of Medicinal plants research*, 2011; *5*(7): 1107-1112.

9. Sukumaran, S. and Parthiban, B., Vascular plant diversity of Udayagiri fort, Kanyakumari district, Tamilnadu, India. *Bioscience Discovery*, 2014; *5*(2): 204-217.