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Table 1. Taxa, local name, habitats, altitudinal range, life form, nativity, threat status, part used and indigenous uses of ethnomedicinal plants used in skin diseases in Pangri Valley

| Family/Taxa | Local Name | Habitats | Altitudinal range (m) | Life Form | Nativity | Threat Status (as per RED LIST & RED DATA BOOK) | Uses | Parts used | Mode of Preparation | Representative no. |
|--|----------------|--------------|-----------------------|-----------|--|---|---|--|--|----------------------------------|
| Apiaceae Lindl. | | | | | | | | | | |
| <i>Bupleurum falcatum</i> L. | Banchog | VII | 2,800–3,800 | H | Europe to Caucasus | - | Cuts, boils. | Fresh leaves and seeds | Paste of leaves | <i>Poushali Dey 336135</i> (LWG) |
| <i>Carum carvi</i> L. | Gurnu or Gyaju | I, II, IV, V | 2,800–3,800 | H | Temp. Eurasia | - | It is used to treat infections and itching (13) (23) | Seeds | Desi ghee is used to roast powdered seeds. To treat a skin illness, the preparation is applied to the skin daily for a week. | <i>Poushali Dey 335943</i> (LWG) |
| <i>Ferula jaeschkeana</i> Vatke | Kurash | I, IV | 2800-3500 | H | N. Pakistan to Central Asia and Himalaya | - | The rhizomes, both fresh and dried, are used to treat burns, boils, cuts, and chronic wounds. To treat some illnesses, rhizome paste is applied directly to the skin. (14) (19) | Rhizome, root, resin | Paste of rhizomes | <i>Poushali Dey 335905</i> (LWG) |
| <i>Heracleum candicans</i> Wall. ex DC. | Pudadei, Dundu | V | 2000-5000 | H | N. Pakistan to China (W. Sichuan, N. & Central Yunnan) | - | Leukoderma and wounds are cleaned and healed using fresh rhizome paste. (17) (22) | Fresh and dried rhizomes, roots, Whole plant | Grounded root paste is used in snake bite | <i>Poushali Dey 345772</i> (LWG) |
| Araceae Juss. | | | | | | | | | | |
| <i>Arisaema flavum</i> (Forssk.) Schott | Kida alu, Bang | II, VIII | 2000-2500 | H | NE. Tropical Africa to S. Central China | - | Insecticide, cuts and wounds (2) (17) | Bulb/tubers | Bulbs are crushed and applied on cuts and wounds | <i>Poushali Dey 336057</i> (LWG) |
| Asteraceae Bercht. & J. Presl | | | | | | | | | | |
| <i>Arctium lappa</i> L. | Naklikuth | I, III | 2500-3500 | H | Temp. Eurasia | - | Burns (17) | Roots | - | <i>Poushali Dey 345770</i> (LWG) |

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|--|--------------------------|-----------------------|-----------|----|---|----|---|-------------------------------------|---|----------------------------------|
| <i>Artemisia parviflora</i> Roxb. ex D.Don | Shambarbooti | V, VI | 2000-2800 | H | Pakistan to China and Myanmar | - | It is used for cuts and wounds (18) | Aerial parts | Paste of leaves | <i>Poushali Dey 319078</i> (LWG) |
| <i>Inula racemosa</i> Hook.f. | Manuruta, Manu, Manukuth | I, II, IV | 2000-2700 | H | Afghanistan to Central China | - | It is used to cure boils, skin eruption, blisters (13) (18) | Roots | Paste of roots. For seven days, a paste made from root powder and ghee is applied twice daily. Until the water turns brownish-red, chopped dried roots are cooked in water at a low temperature. To treat boils, take one scoop of the decoction every day. | <i>Poushali Dey 345779</i> (LWG) |
| <i>Dolomiaea macrocephala</i> DC. ex Royle | Guggal | VIII | 3000-4000 | H | W. & Central Himalaya | - | On cuts and skin eruptions, root powder is used. | Roots | Root Powder | <i>Poushali Dey 335942</i> (LWG) |
| <i>Lactuca dissecta</i> D.Don | Dudhil | V | 2000-2400 | H | Arabian Peninsula, Afghanistan to Indian Subcontinent | - | It is used to cure cuts and burns (10) | Roots | Powdered form is taken orally | <i>Poushali Dey 335969</i> (LWG) |
| <i>Taraxacum sect. Taraxacum</i> F.H.Wigg. | Kanphul | II, III, V | 2000-4000 | H | Alabama, to West Himalaya | LC | It is used to cure boils, blisters and wounds (13) (17) (23) | Flowers | Boils are treated with a two-day course of equal parts flower decoction and water. | <i>Poushali Dey 319059</i> (LWG) |
| Balsaminaceae A. Rich. | | | | | | | | | | |
| <i>Impatiens sulcata</i> Wall. | Halva | I, III, IV, V | 2000-4000 | H | NE. Pakistan to Himalaya and S. Tibet | - | Urticaria, eczema, pimples (17) | seed and leaves | Paste | <i>Poushali Dey 336162</i> (LWG) |
| Berberidaceae Juss. | | | | | | | | | | |
| <i>Berberis aristata</i> DC. | Kiamal | I, II, III, IV, V, VI | 2100-3000 | Sh | Himalaya to S. Tibet and Central India | LC | It is used to cure boils (17) (19) | Root and barks | - | <i>Poushali Dey 336086</i> (LWG) |
| <i>Berberis asiatica</i> Roxb. ex DC. | Kahamil | IV, VIII | 2000-2500 | Sh | W. & Central Himalaya to NW. India and Myanmar | - | It is applied on pimples | Ripened fruits and aerial part | Fruit paste | <i>Poushali Dey 345792</i> (LWG) |
| <i>Berberis lycium</i> Royle | Kasmal | I, II, III, IV, V, VI | 2100-2500 | Sh | E. Afghanistan to Central Himalaya and NW. India | LC | Wounds (7) (11) | Roots, Leaves, Stems and Decoctions | Baberine, Berbericine hydroiodide, Berberine-chloroform, Chenabine, Gilgitine, Kara-koramine, Palmitine chloroform along with oxyberberine, Punjabine, Secobisbenzylisoquinolinescompounds are isolated | <i>Poushali Dey 336087</i> (LWG) |
| <i>Podophyllum hexandrum</i> Royle | Ban kakri | I | 2000-4000 | H | NE. Afghanistan to Central China | - | It is used as a paste on cuts and wounds to promote tissue regeneration. (17) | Roots and fruits | Used in powdered form | <i>Poushali Dey 345793</i> (LWG) |

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|--|-----------|-------------------|-----------|---------|--|----|--|-------------------------|---|----------------------------------|
| Betulaceae Gray | | | | | | | | | | |
| <i>Betula utilis</i> D.Don | Bhojpatra | I,II,III,IV | 2800-4500 | T | Afghanistan to N. & Central China | LC | It is used to treat burns, cuts & wounds healing, antiseptic, hemostasis (14) (17) | Bark, Twig, leaf | - | <i>Poushali Dey 345778</i> (LWG) |
| Boraginaceae Juss. | | | | | | | | | | |
| <i>Arnebia benthamii</i> (Wall. ex G.Don) I.M.Johnst | Ratanjot | II, VIII | 3300-4000 | H | NE. Pakistan to W. & Central Himalaya | - | On burns and cuts, powder is applied as a paste. Boils and wounds. (17) (19) | Roots | Paste | <i>Poushali Dey 345791</i> (LWG) |
| Brassicaceae Burnett. | | | | | | | | | | |
| <i>Lepidium apetalum</i> Willd. | | I,II | 2100-2600 | H | E. Europe to Temp. Asia | - | Skin pigmentation, wound healing or wound closure in vivo (3) (17) | Whole plant | - | <i>Poushali Dey 319065</i> (LWG) |
| Cannabaceae Martinov | | | | | | | | | | |
| <i>Cannabis sativa</i> L. | Bhang | I, II, III, IV, V | 2000-3200 | H | SE. European Russia to Xinjiang and Pakistan | - | Leukoderma, pimples, boils, cuts & wounds (9) (17) | Roots and Leaves | Crush and apply paste | <i>Poushali Dey 335921</i> (LWG) |
| Caprifoliaceae Juss. | | | | | | | | | | |
| <i>Morina coulteriana</i> Royle | Tinglaa | II | 3000-3600 | H | Afghanistan to Central Asia and W. Himalaya | - | Abscesses | Root | - | <i>Poushali Dey 345726</i> (LWG) |
| <i>Morina longifolia</i> Wall. ex DC. | Tinglaa | I, II | 3200-3800 | H | N. Pakistan to Himalaya and S. Tibet | - | Boils, wounds, burns (17) | Root | - | <i>Poushali Dey 336153</i> (LWG) |
| Caryophyllaceae Juss. | | | | | | | | | | |
| <i>Stellaria media</i> (L.) Vill. | Kokuwa | I, VII | 2400-4500 | H | Temp. Eurasia, N. & NE. Tropical Africa | LC | Burns, boils and wounds (18) | Leaves | On burn wounds, the plant's leaf paste is also administered. | <i>Poushali Dey 335955</i> (LWG) |
| Convolvulaceae Juss. | | | | | | | | | | |
| <i>Cuscuta reflexa</i> Roxb. | Amarbel | I, III | 2000-2400 | Climber | Afghanistan to Indo-China, Jawa | LC | Burns, itching, wounds (17) | Seed, stem, Whole plant | The stem's methanol extract has antibacterial action, and the plant's | <i>Poushali Dey 336026</i> (LWG) |

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| | | | | | | | | | whole extract is regarded as antiviral and analgesic. | |
| Cupressaceae Gray | | | | | | | | | | |
| <i>Juniperus communis</i> L. | Bathathri, Bethda, Bithal | I, II, VI | 2800-3500 | Sh | Subarctic & Temp. Northern Hemisphere | LC | It is used to treat boils, skin itching and infections, skin ailments. (13) (23) (17) | Leaf | Regular massage with heartwood oil is thought to be useful in treating infections, boils, and skin itching. | <i>Poushali Dey 345787</i> (LWG) |
| Ericaceae Durande | | | | | | | | | | |
| <i>Rhododendron campanulatum</i> D.Don | Shargal, kashmiripatta | I, II, III, IV | 2800-3800 | Sh | Himalaya to S. Tibet | - | It is used to treat boils (19) | Root, leaf, flower, twig | - | <i>Poushali Dey 345786</i> (LWG) |
| Fabaceae Lindle. | | | | | | | | | | |
| <i>Desmodium venustum</i> Steud. | Kathi | II, IV, V, VII, VIII | 2000-3000 | Sh | Mexico | - | Snakebite | Leaves | - | <i>Poushali Dey 336009</i> (LWG) |
| <i>Medicago falcata</i> L. | Kathoama | III, VIII | 2800-4500 | H | Europe to Mongolia and Indian Subcontinent | - | Wound healing (23) | Aerial part | For the goal of mending wounds and injuries, aerial parts paste is administered. | <i>Poushali Dey 335932</i> (LWG) |
| Geraniaceae Juss. | | | | | | | | | | |
| <i>Geranium nepalense</i> Sweet | Lalijar | I, II, III, IV | 2100-3500 | H | E. Afghanistan to Korea and Indo-China, N. Sumatera | - | Cuts and wounds. Eczema and itching (1) (17) | Whole Plant | Mix powder with turmeric powder and mustard oil & apply | <i>Poushali Dey 336016</i> (LWG) |
| <i>Geranium wallichianum</i> D.Don ex Sweet | | I, II, III, IV | 2100-3500 | H | E. Afghanistan to Himalaya and Tibet | LC | Cuts, boils | | - | <i>Poushali Dey 336119</i> (LWG) |
| Lamiaceae Martinov | | | | | | | | | | |
| <i>Ajuga integrifolia</i> Buch-Ham. ex D.Don | Neel kanthi | I, VII | 2000-2500 | H | NE. & E. Tropical Africa, Arabian Pen. Afghanistan to W. New Guinea | - | Cuts, burns and b boils | Root, Whole plant | - | <i>Poushali Dey 336065</i> (LWG) |
| <i>Hyssopus officinalis</i> L. | Tiyanku | IV | 2000-3500 | Sh | Europe, Medit. to Iran | - | It is applied on boils, skin eruptions (13) (23) | Flowers and leaves | Flower and leaf paste | <i>Poushali Dey 345790</i> (LWG) |
| <i>Lamium album</i> L. | Banbuti | I, III, V | 2000-2400 | H | E. Europe to Temp. Asia | - | Roots is applied on the burns and cuts | Root | Paste of root | <i>Poushali Dey 336062</i> (LWG) |
| <i>Mentha longifolia</i> (L.) L. | Manshoii | I, II, III, IV, V | 2100-4000 | H | Macaronesia, Temp. Eurasia to S. Africa | LC | Applied to burst the boils for pus removal and to kill maggots on a | Leaves | Leaves paste | <i>Poushali Dey 319093</i> (LWG) |

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|---|------------------------|---------------------------------|-----------|---------|--|----|---|--|--|----------------------------------|
| | | | | | | | wound. (17) (18) | | | |
| <i>Origanum vulgare</i> L. | Marua, Jangliajwain | II, III, IV, V | 2100-3500 | H | Afghanistan, Albania, Algeria, Altay, Austria, Azores, Baleares, Baltic States | - | It is applied to boils, cut, fire burns, weeping eczema (18) | Leaves and stems | 2-3 black pepper fruits and a paste of leaves and terminal shoots (<i>Piper nigrum</i>) | <i>Poushali Dey 336084</i> (LWG) |
| <i>Thymus linearis</i> Benth. | Sunauni, Ban ajwain | II, III, IV, V | 2500-4000 | H | N. Iran to Xinjiang and Himalaya | - | antiseptic agent | Whole plant | - | <i>Poushali Dey 336013</i> (LWG) |
| Liliaceae Juss. | | | | | | | | | | |
| <i>Fritillaria cirrhosa</i> D.Don | | I, III, VI | 3000-4600 | H | Pakistan to Central China | - | burns | Bulb / root | - | <i>Poushali Dey 345794</i> (LWG) |
| Orchidaceae Juss. | | | | | | | | | | |
| <i>Dactylorhiza hatagirea</i> (D.Don) Soó | Hathpanja | I, II, IV, V, VI | 2800-4000 | H | Mongolia to Himalaya | - | It is used for cuts, healing of wounds and burns (16) (22) | Roots | Tuber paste. For 2-3 days, a fresh rhizome paste is applied twice daily to wounds in order to promote healing. | <i>Poushali Dey 345784</i> (LWG) |
| <i>Malaxis muscifera</i> (Lindl.) Kuntze | Rishabhak/ Jeevak | II, IV, V | 2500-3600 | H | Pakistan to S. Central China | VU | Paste is used in burns (16) | Pseudobulb | - | <i>Poushali Dey 335975</i> (LWG) |
| Pinaceae Spreng. ex F.Rudolphi | | | | | | | | | | |
| <i>Cedrus deodara</i> (Roxb. ex D.Don) G.Don | Devdar | I, II, III, IV | 2000-2800 | T | NE. Afghanistan to W. Nepal and NW. India (Morni Hills) | LC | It is used to cure boils, infections and itching (13) (19) | Leaves, wood | Oil extracted | <i>Poushali Dey 336049</i> (LWG) |
| <i>Pinus wallichiana</i> A.B.Jacks. | Chii or Kail | I, II, IV, V, VI, VII, VIII | 2000-3600 | T | NE. Aghanistan to China (NW. Yunnan) | LC | It is used to cure boils (1) | Stem bark | Apply resin externally | <i>Poushali Dey 335905</i> (LWG) |
| Plantaginaceae Juss. | | | | | | | | | | |
| <i>Plantago major</i> L. | Carrata, Therma | V | 2000-2800 | H | Temp. Eurasia to Arabian Peninsula, Macaronesia, N. & S. Africa | LC | It is used for cuts, wounds, burns, boils & oozing pus (1) (8) (13) | Whole plant, leaves, root, seed | Crush and/or grind & apply paste. To remove boils, mustard oil-coated, slightly warmed leaves are left on the boils overnight. It is supposed to reduce both pain and edema. | <i>Poushali Dey 335901</i> (LWG) |
| Polygonaceae Juss. | | | | | | | | | | |
| <i>Koenigia alpina</i> (All.) T.M.Schust. & Reveal | Chuodh | I, II, III, IV, V, VII, VIII | 2100-3500 | H | Temp. Eurasia | - | Haemostasis, wounds | Stem, leaves | To treat lip and gum cracks, raw tender stems are consumed. | <i>Poushali Dey 335933</i> (LWG) |
| <i>Fallopia pterocarpa</i> (Wall. ex Meisn.) Holub | Todhi | V | 2000-2400 | Climber | Himalaya | - | Cuts and wounds are treated with a paste produced from fresh leaves. | Leaves | - | <i>Poushali Dey 335934</i> (LWG) |

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|--|-------------------|--------------|-----------|---|--|----|--|------------------|---|----------------------------------|
| <i>Rumex nepalensis</i> Spreng. | Ubbal | V, VI | 2000-3500 | H | Cameroon to Eritrea and S. Africa, Arabia Peninsula, Madagascar, SE. Europe to China, Jawa | - | Boils, It is used to heal wounds (17) | Leaves | As an ant allergy treatment, leaves are crushed and put to wounds. | <i>Poushali Dey 335907</i> (LWG) |
| Ranunculaceae Juss. | | | | | | | | | | |
| <i>Caltha palustris</i> L. | Shomalap | I, III | 2000-2800 | H | Temp. & Subarctic Northern Hemisphere | LC | When boils, cuts and eruption of pimples appear, leaves are applied to the affected area. | Leaves | once a day for 10 to 15 days used for massage. | <i>Poushali Dey 336034</i> (LWG) |
| <i>Clematis grata</i> Wall. | Bharani | V | 2000-2400 | H | E. Afghanistan to Himalaya, Nansei- shoto to Taiwan | - | Eruption of pimples and boils can be treated with leaves. (18) | Leaves | Leaves paste | <i>Poushali Dey 345764</i> (LWG) |
| <i>Delphinium</i> <i>cashmerianum</i> Royle | | I, III, IV | 2700-4800 | H | NE. Pakistan to Himalaya and Tibet | - | It is used to treat cuts and wounds (19) | Whole plant | - | <i>Poushali Dey 345795</i> (LWG) |
| <i>Delphinium</i> <i>vestitum</i> Wall. ex Royle | | V | 2700-4700 | H | N. Pakistan to S. Tibet and Nepal | - | It is used to treat cuts, wounds and burns (17) | | - | <i>Poushali Dey 345782</i> (LWG) |
| <i>Ranunculus laetus</i> Wall. ex Royle | Jaldaru, Mingo | V | 2800-3800 | H | Morocco, Europe to Turkey, Central Asia. | - | Paste is applied on cuts and burns. Fresh roots are grounded and the paste is applied on wounds overnight. | Leaves, roots | Paste of leaves | <i>Poushali Dey 336084</i> (LWG) |
| Rosaceae Juss. | | | | | | | | | | |
| <i>Potentilla</i> <i>atrosanguinea</i> G.Lodd. | Dori | II, VI, VIII | 3000-3600 | H | Himalaya to Tibet | - | Wounds and Injuries (17) | | - | <i>Poushali Dey 336059</i> (LWG) |
| <i>Fragaria nubicola</i> (Lindl. ex Hook.f.) Lacaita | Ancholu | I, II, IV, V | 2100-4000 | H | Afghanistan to Tibet and N. India | - | Snakebite | Tuber | - | <i>Poushali Dey 345776</i> (LWG) |
| <i>Prunus armeniaca</i> L. | Cheer | I, II, III | 2100-2800 | T | Central Asia to N. & Central China | DD | Massage oil (17) | Seed, Fruit | - | <i>Poushali Dey 336018</i> (LWG) |

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|--|-------------------------|----------------------|-----------|----|---|----|--|--------------------------------|--|----------------------------------|
| <i>Rosa macrophylla</i> Lindl. | Gulab | I, II, IV, V | 2100-3200 | Sh | Afghanistan to S. Central China | - | Skin diseases can be treated using seeds. To soften the face, seed paste is used. | Seeds and fruits | Seed paste | <i>Poushali Dey 345723</i> (LWG) |
| Sapindaceae Juss. | | | | | | | | | | |
| <i>Aesculus indica</i> (Wall. ex Cambess.) Hook. | Khanor | I, VI | 2000-2500 | T | Afghanistan, Assam, East Himalaya, Nepal, Pakistan, West Himalaya | LC | skin fissures, wounds | Bark, Fruit, Root, Seed | - | <i>Poushali Dey 345781</i> (LWG) |
| Saxifragaceae Juss. | | | | | | | | | | |
| <i>Bergenia ciliata</i> (Haw.) Sternb. | Shapdochi, Sadpottar | I, IV, V | 2100-2500 | H | W. Himalaya to SW. Nepal | LC | Cuts, wounds and boils, Skin disease (21) | Stem, leaves | - | <i>Poushali Dey 336068</i> (LWG) |
| Scrophulariaceae Juss. | | | | | | | | | | |
| <i>Verbascum thapsus</i> L. | JangliTamaku | III, V | 2000-3200 | H | Azores, Europe to Siberia and Himalaya | LC | Sunburns and boils (13) (17) (18) | Flower and leaves | Applying a paste made of flowers and leaves in mustard oil. | <i>Poushali Dey 335953</i> (LWG) |
| Solanaceae Juss. | | | | | | | | | | |
| <i>Datura stramonium</i> L. | Datura | I, III, V | 2000-2200 | H | Texas to Central America, Caribbean | - | Softening of the boils (18) | Seeds | seeds are ground to powdered form | <i>Poushali Dey 336053</i> (LWG) |
| <i>Solanum nigrum</i> L. | <i>Makoi</i> | IV, VIII | 2000-2800 | H | Temp. Eurasia, Macaronesia, N. & NE. Tropical Africa | - | It is used to treat boils, sores, ulcer in mouths (17) | Fruit, seed, leaf | - | <i>Poushali Dey 335910</i> (LWG) |
| Urticaceae Juss. | | | | | | | | | | |
| <i>Urtica dioica</i> L. | Aahan, Ain | I, II, III, IV, V | 2000-2800 | H | Afghanistan to West Himalaya | LC | It is used to treat cuts, boils & wound healing, injuries (17) (21) | - | - | <i>Poushali Dey 345796</i> (LWG) |
| Violaceae Batsch | | | | | | | | | | |
| <i>Viola biflora</i> L. | Banafsha | I, III, VII | 2700-3500 | H | Temp. & Subalpine Northern Hemisphere to N. Sumatera | - | Antiseptic, psoriasis, Leukoderma, skin disease (17) | Leaf, flower, root, seed | - | <i>Poushali Dey 345797</i> (LWG) |

Abbreviations used: T=tree; Sh=shrub; H=Herb; I=Shady moist; II=Dry; III=Degraded; IV=Rocky; V=Bouldary; VI= Riverine; VII=Moist alpine slope and VIII=Dry alpine slope; DD= DATA DEFICIENT; LC= LEAST CONCERN; U= VULNERABLE

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