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(IV) Host plants of Forest Parasitic Angiosperms of Odisha, India: Boon and Bane

Parasitic angiosperms are plants that derive their nutrients by connecting to and extracting resources from host plants (Sahu et al., 2018). These unique plants have evolved to thrive in various environments, including forests, where they play complex roles in shaping ecosystem dynamics (Mishra et al., 2022; Mahendru et al., 2022). Odisha, a state in eastern India, is home to a diverse range of flora, including parasitic plants (Lyngdoh et al., 2023). They have medicinal and ecological values (Lyngdoh et al., 2023), Understanding the relationships between parasitic plants and their hosts is essential to understand plant-plant relationship (Tesitel et al., 2021; Bouwmeester et al., 2021). Despite their significant medicinal importance (Jaiswal et al., 2021) and ecological role, the host plants of parasitic angiosperms in India, particularly in Odisha, remain largely undocumented. Therefore, an attempt has been made to enumerate the host plants of parasitic angiosperms of Odisha state through field survey. Present study aims to bridge this knowledge gap by identifying and documenting the host plants of forest parasitic angiosperms in Odisha state, providing valuable insights into the ecological interactions and conservation implications of these fascinating plants.

Present study was conducted in selected districts of Odisha state to identify and document the host plants of forest parasitic angiosperms. The study was carried out during 2023-2025 in Angul, Cuttack, Deogarh, Dhenkanal, Kalahandi, Keonjhar, Khordha, Mayurbhanj, Nayagarh, Puri, Sambalpur, and Sundargarh districts. The surveys were carried out in different seasons to ensure comprehensive data collection. Selected parasitic plants were identified using standard botanical keys and taxonomic literature by the authors (Sahu et al., 2018). Host plants were identified using morphological characteristics, and their identities were confirmed using botanical keys and flora books (Saxena and Brahmam, 1994-1996). The herbarium specimen of Cassytha filiformis L. (APRFH 70), Cuscuta reflexa Roxb. (APRFH 161), Dendrophthoe falcata (L.f.) Ettingsh. (APRFH 48), Macrosolen globosus (Roxb.) Tiegh. (APRFH 79), Scurrula parasitica L. (APRFH 49), and Viscum articulatum Burm.f. (APRFH 159) were submitted to the Herbarium unit of Ambika Prasad Research Foundation, Odisha, India.

The present study revealed a diverse range of host plants associated with forest parasitic angiosperms in Odisha state, India. A total of 6 parasitic plant species were selected, belonging to 4 families. The most common parasitic plant species encountered in study areas were Cassytha filiformis, Cuscuta reflexa, and Dendrophthoe falcata (Table 1). 72 host plants of these parasitic species were noted down (Table 1). The most common host trees were Mangifera indica, Shorea robusta, and Madhuca longifolia (Table 1). It was noticed that overgrowth of parasitic plants slows down the growth of host trees. The medicinal uses of selected parasitic angiosperms have ethnomedicinal uses. C. filiformis stem paste is used to cure joint pain in Mayurbhani district while D. falcata leaves are used to repel the stomach worm by the tribal communities of Sundargarh. Hence, they have medicinal uses as well as ecological threats, if overpopulation happened. The preference of parasitic plants for certain host species may be influenced by factors such as host plant chemistry, morphology, and nutritional status. The findings of present study have implications for forest management and conservation. Parasitic plants can have significant impacts on host plant populations, and their presence can be used as an indicator of forest health. Further research is needed to fully understand the ecological roles of parasitic plants in forest ecosystems and to develop effective management strategies.

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The present study provides a comprehensive documentation of the host plants of forest parasitic plants in Odisha, India. The findings highlight the diversity of host-parasite relationships in forest ecosystems and emphasize the importance of considering these interactions in forest management and conservation strategies. The study contributes to our understanding of the complex relationships between parasitic plants and their hosts, and provides valuable insights for future research on the medicinal and ecological roles of parasitic plants in forest ecosystems. Overall, this study demonstrates the significance of parasitic plants in forest ecosystems and highlights the need for continued research on these fascinating angiosperms.

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Table 1: Host plants of selected forest Parasitic plants

Plant name	Districts	Host plant
Cassytha filiformis L. (Lauraceae)	Angul	Chromolaena odorata, Clerodendrum infortunatum, Azadirachta indica, Lantana camara and Vachellia nilotica.
Plate 1e	Cuttack	Ipomoea carnea, Trewia nudiflora, Chromolaena odorata, Azadirachta indica, Calotropis gigantea, Glycosmis pentaphylla, Anacardium occidentale, Anogeissus acuminata, Benkara malabarica, Dalbergia sissoo, Simarouba glauca, Pithecellobium dulce, Hugonia mystax and Bauhinia acuminata.
	Deogarh	Aegle marmelos, Ipomoea carnea Clerodendrum infortunatum and Chromolaena odorata.
	Dhenkanal Kalahandi	Chromolaena odorata, Woodfordia fruticosa and Vitex negundo. Vachellia nilotica, Calotropis gigantea, Aegle marmelos, Anogeissus acuminata, Mangifera indica, Lantana camara, Chromolaena odorata and Azadirachta indica.
	Keonjhar	Mangifera indica, Anogeissus acuminata, Vachellia nilotica, Samanea saman, Rubus elliptica, Tamarindus indica, Azadirachta indica, Albizia lebbeck, Streblus asper and Vitex negundo.
	Khordha	Ziziphus mauritiana, Anogeissus acuminata, Bougainvillea spectabilis, Vitex negundo, Lantana camara, Combretum roxburghii, Carissa spinarum, Azadirachta indica, Jatropha gossypiifolia and Vachellia nilotica.
	Mayurbhanj	Ziziphus mauritiana, Vitex negundo, Chromolaena odorata, Mimosa pudica, Ipomoea carnea, Senna occidentalis, Phyllanthus reticulatus, Diospyros melanoxylon and Clerodendrum infortunatum.
	Nayagarh	Azadirachta indica, Chromolaena odorata, Alangium salvifolium, Mikania micrantha, Bougainvillea spectabilis, Anogeissus acuminata, Ipomoea carnea and Vachellia nilotica.
	Puri	Eugenia roxburghii, Casuarina equisetifolia and Mikania micrantha
	Sambalpur Sundargarh	Vitex negundo and Chromolaena odorata. Vitex negundo, Mallotus philippensis, Alstonia scholaris, Shorea robusta, Schleichera oleosa, Ziziphus mauritiana, Woodfordia fruticosa and Cucurbita species.
Cuscuta reflexa Roxb. (Convolvulaceae)	Angul	Chromolaena odorata, Clerodendrum infortunatum, Azadirachta indica, Lantana camara and Vachellia nilotica.
Plate 1b	Cuttack	Anogeissus acuminata, Anacardium occidentale, Benkara malabarica, Dalbergia sissoo, Lantana camara, Mangifera indica, Mikania micrantha and Mangifera indica.
	Deogarh	Ziziphus mauritiana, Vitex negundo,Chromolaena odorata, Mimosa pudica, Sida acuta, Diospyros melanoxylon and Clerodendrum infortunatum.
	Dhenkanal	Dalbergia sissoo, Senna occidentalis, Sida acuta, Ageratum conyzoides, Chromolaena odorata and Lantana camara.
	Kalahandi	Vachellia nilotica, Calotropis gigantea, Aegle marmelos, Anogeissus acuminata, Shorea robusta, Chromolaena odorata and Clerodendrum infortunatum.
	Kendrapara	Vitex negundo, Ricinus communis, Ziziphus mauritiana, Terminalia catappa, Calotropis gigantea, Ipomoea carnea, Glycosmis pentaphylla, Clerodendrum infortunatum, Streblus asper, Jatropha gossypiifolia, Mikania micrantha, Senna siamea, Mimosa pudica, Acacia auriculiformis, Acanthus ilicifolius, Vigna mungo and Azadirachta indica.
	Keonjhar	Vitex negundo, Mangifera indica, Anogeissus acuminata, Vachellia nilotica and Samanea saman.
	Khordha	Agretum conyzoides, Azadirachta indica, Calotropis gigentia, Carissa spinarum, Combretum roxburghii, Crotalaria pallida, Jatropha gossypiifolia, Lantana camara and Vachellia nilotica.



Plant name	Districts	Host plant
•	Mayurbhanj	Ziziphus maruntiana, Anogeissus acuminata, Bougainvillea
		spectabilis, Vitex negundo, Lantana camara, Combretum roxburghii,
		Azadirachta indica, Chromolaena odorata and Jatropha gossypiifolia.
	Nayagarh	Azadirachta indica, Chromolaena odorata, Alangium salvifolium, Mikania
		micrantha, Bougainvillea spectabilis, Vachellia nilotica and Azadirachta
		indica.
	Puri	Casuarina equisetifolia, Lantana camara, Mikania micrantha,
	Cl	Anogeissus acuminata and Clerodendrum infortunatum.
	Sundargarh	Anogeissus acuminata, Chromolaena odorata, Cucurbita species, Mallotus philippensis, Shorea robusta, Syzygium cumini, Glochidion
		lanceolarium, Vitex negundo, Alstonia scholaris, Annona squamosa and Bougainvillea spectabilis.
Dendrophthoe falcata (L.f.)	Angul	Mangifera indica, Tectona grandis and Madhuca longifolia.
Ettingsh.	Cuttack	Mangifera indica, Petitoria grandis and Madridea fongiloria. Mangifera indica, Bombax ceiba, Ficus religiosa, Ficus benghalensis,
(Loranthaceae)	Outtaok	Holoptelea integrifolia, Shorea robusta and Tectona grandis.
Plate 1c	Deogarh	Shorea robusta.
Tate 10	Dhenkanal	Madhuca longifolia, Diospyros melanoxylon, Shorea robusta,
		Mangifera indica and Tectona grandis.
	Kalahandi	Diospyros melanoxylon, Madhuca longifolia, Buchanania lanzan,
		Mangifera indica, Schleichera oleosa, Lannea coromandelica and
	Keonjhar	Shorea robusta.
	Reonjilai	Mangifera indica, Shorea robusta, Tectona grandis, Careya arborea, Diospyros melanoxylon and Bombax ceiba.
	Khordha	Mangifera indica and Bombax ceiba.
	Maurbhanj	Shorea robusta, Buchanania lanzan, Madhuca longifolia, Diospyros
	Madibilarij	melanoxylon, Vachellia leucophloea, Anogeissus latifolia, Vitex
		negundo, Terminalia bellirica, and Croton roxburghii.
	Nayagarh	Mangifera indica & Ficus religiosa
	Puri	Mangifera indica and Eucalyptus citriodora.
	Sambalpur	Shorea robusta, Mangifera indica, Madhuca longifolia, Diospyros
	Gambaipai	melanoxylon, Buchanania lanzan and Tectona grandis.
	Sundargarh	Shorea robusta, Buchanania lanzan, Lagerstroemia parviflora,
	Gariaargarri	Terminalia bellirica, Careya arborea, Xylia xylocarpa, Madhuca
		longifolia and Bombax ceiba.
Macrosolen globosus (Roxb.)	Sundargarh	Madhuca longifolia
Tiegh.	-	
(Loranthaceae)		
	Considerate	
Scurrula parasitica L.	Sundargarh	Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros
Scurrula parasitica L. (Loranthaceae)	Sundargam	Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia
· ·	Sundargam	
(Loranthaceae)	Sundargam	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia
(Loranthaceae)	Ü	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis.
(Loranthaceae)	Ü	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros
(Loranthaceae) Plate 1d	Mayurbhanj	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f.	Mayurbhanj Angul Cuttack Deogarh	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi Keonjhar	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca longifolia, Careya arborea and Bombax ceiba.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi Keonjhar Mayurbhanj	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca longifolia, Careya arborea and Bombax ceiba. Diospyros melanoxylon, Madhuca longifolia, Shorea robusta and Buchanania lanzan.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi Keonjhar	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca longifolia, Careya arborea and Bombax ceiba. Diospyros melanoxylon, Madhuca longifolia, Shorea robusta and Buchanania lanzan. Alangium salviifolium, Diospyros melanoxylon, Madhuca longifolia and
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi Keonjhar Mayurbhanj Nayagarh	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca longifolia, Careya arborea and Bombax ceiba. Diospyros melanoxylon, Madhuca longifolia, Shorea robusta and Buchanania lanzan. Alangium salviifolium, Diospyros melanoxylon, Madhuca longifolia and Mangifera indica.
(Loranthaceae) Plate 1d Viscum articulatum Burm.f. (Santalaceae)	Mayurbhanj Angul Cuttack Deogarh Dhenkanal Kalahandi Keonjhar Mayurbhanj	melanoxylon, Buchanania lanzan, Schleichera oleosa, Woodfordia fruticosa and Acacia auriculiformis. Mangifera indica, Madhuca longifolia, Shorea robusta, Diospyros melanoxylon, Buchanania lanzan and Schleichera oleosa. Madhuca longifolia and Mangifera indica. Mangifera indica and Shorea robusta. Shorea robusta and Buchanania lanzan. Shorea robusta, Mangifera indica, Diospyros melanoxylon, Tectona grandis and Madhuca longifolia. Madhuca longifolia, Diospyros melanoxylon, Syzygium cumini, Buchanania lanzan, Mangifera indica, Schleichera oleosa and Shorea robusta. Diospyros melanoxylon, Mangifera indica, Shorea robusta, Madhuca longifolia, Careya arborea and Bombax ceiba. Diospyros melanoxylon, Madhuca longifolia, Shorea robusta and Buchanania lanzan. Alangium salviifolium, Diospyros melanoxylon, Madhuca longifolia and

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Plate 1: Host plants of selected parasitic plants; a) Viscum articulatum on Diospyros melanoxylon, b) Cuscuta reflexa on Acanthus ilicifolius, c) Dendrophthoe falcata on Buchanania lanzan, d) Scurrula parasitica on Shorea robusta, e) Cassytha filiformis on Benkara malabarica

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