



FLORAL WEALTH OF MANDARGIRI HILLS

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INTRODUCTION

Twenty-first century is witness of advanced sciences in every aspects of life. Researchers are working in molecular levels and developing nano-technologies, still, the Indigenous Traditional Knowledge (ITK) has its own importance. The recent COVID-19 pandemic taught us the limitations of advanced sciences. Hence, we have to think about our rich ITK on food and medicinal bio-wealth. Therefore, documentation and conservation actions on ITK are needed. There are number of conservation studies and schemes that have been initiated by the government. In this context, the State Medicinal Plant Board (SMPB) of Odisha has been establishing a Medicinal Plant Conservation Development Area (MPCDA) in association with Angul Forest Division, Odisha and National Medicinal Plant Board (NMPB), New Delhi at Mandargiri hills in Angul district, Odisha. The area is famous for numbers of sacred groves which are rich in their medicinal wealth. The team of Ambika Prasad Research Foundation (APRF) surveyed the area in February 2022 and listed the available plant wealth (Plate 3). The survey results reveal that about 215 plant species were enumerated in the month of February 2022 (Table 1; Plate 1-2). The most common medicinal plant species among the enumerated are *Pterocarpus marsupium* (Bija), *Terminalia bellirica* (Bahada), *Terminalia chebula* (Harida), *Naringi crenulata* (Behenta), *Saraca asoca* (Ashoka), *Santalum album* (Chandan), *Strychnos potatorum* (Kataka), *Dalbergia latifolia* (Pahadi sissoo), *Gloriosa superba* (Agnisikha), *Helicteres isora* (Modimodika), *Drimia indica* (Bana piaja), *Hemidesmus indicus* (Anantamula), *Ichnocarpus frutescens* (Shyama lata), *Cryptolepis buchananii* (Dudhi nai), *Andrographis paniulata* (Chireita), *Wattakaka volubilis* (Dugdihika) etc. It was observed that further monthly exploration works are needed to enumerate the actual plant wealth of Mandargiri hills and their ecological, medicinal and socio-cultural significances.

Table 1: Floral wealth of Mandargiri hills, Angul, Odisha

Plant name	Family	Local Name	Medicinal	Economical	Ecological	Food	SC	Others
<i>Abrus precatorius</i>	Fabaceae	Kaicha	✓					
<i>Abutilon indicum</i>	Malvaceae	Pedipedika	✓					
<i>Acacia auriculiformis</i>	Fabaceae	Akasia						✓
<i>Acalphya indica</i>	Euphorbiaceae	Indramaricha	✓				✓	
<i>Achyranthes aspera</i>	Amaranthaceae	Apamarga	✓					
<i>Adiantum caudatum</i>	Pteridaceae	Dodhali			✓			
<i>Aegle marmelos</i>	Rutaceae	Bela	✓	✓	✓	✓	✓	✓
<i>Aerva lanata</i>	Amaranthaceae	Paunsia	✓					
<i>Aganosma caryophyllata</i>	Apocynaceae	Bana malati	✓		✓			
<i>Agave americana</i>	Asparagaceae	Muruga			✓			
<i>Ageratum conyzoides</i>	Asteraceae	Pokasunga	✓					✓
<i>Alangium salviifolium</i>	Cornaceae	Ankula	✓		✓	✓		
<i>Albizia procera</i>	Fabaceae	Dhala sirisa		✓	✓			
<i>Alstonia venenata</i>	Apocynaceae	Bagmari	✓		✓			
<i>Alternanthera sessilis</i>	Amaranthaceae	Madaranga	✓					
<i>Anacardium occidentale</i>	Anacardiaceae	Kaju	✓	✓		✓	✓	
<i>Andrographis paniculata</i>	Acanthaceae	Chireita	✓	✓	✓			
<i>Annona squamosa</i>	Annonaceae	Aata		✓		✓	✓	

<i>Anogeissus latifolia</i>	Combretaceae	Dhaura		✓	✓		✓	
<i>Antidesma acidum</i>	Phyllanthaceae	Matha saga	✓	✓	✓	✓		
<i>Antidesma buniis</i>	Phyllanthaceae	Katha marmuri	✓	✓	✓	✓		
<i>Aristida setacea</i>	Poaceae	Ghodalanji			✓			
<i>Aristolochia indica</i>	Aristolochiaceae	Pana airi, Hansa lata	✓		✓		✓	
<i>Artocarpus heterophyllus</i>	Moraceae	Panasa	✓	✓	✓	✓	✓	
<i>Asparagus racemosus</i>	Asparagaceae	Satabari	✓	✓	✓			
<i>Aspidopterys indica</i>	Malpighiaceae	Dhala atundi	✓					
<i>Atylosia scarabaeoides</i>	Fabaceae	Bana kolatha	✓		✓	✓		
<i>Azadirachta indica</i>	Meliaceae	Nimba	✓	✓	✓	✓	✓	
<i>Baliospermum montanum</i>	Euphorbiaceae	Danti	✓		✓			
<i>Bambusa arundinacea</i>	Poaceae	Kanta Baunsa		✓	✓			
<i>Bambusa bambos</i>	Poaceae	Baunsa	✓		✓			
<i>Bambusa tulda</i>	Poaceae	Baunsa	✓	✓	✓	✓		
<i>Bauhinia acuminata</i>	Fabaceae	Kanchana	✓			✓	✓	
<i>Bauhinia purpurea</i>	Fabaceae	Kuler	✓	✓		✓		
<i>Bauhinia vahlii</i>	Fabaceae	Siali	✓	✓	✓	✓	✓	
<i>Bauhinia variegata</i>	Fabaceae	Rakta kanchana	✓	✓	✓	✓	✓	
<i>Bixa orellana</i>	Bixaceae	Kumkum	✓	✓	✓	✓	✓	

<i>Boerhaavia diffusa</i>	Nyctaginaceae	Punarva	✓			✓		
<i>Bombax ceiba</i>	Malvaceae	Simili	✓		✓			
<i>Breynia retusa</i>	Phyllanthaceae	Jajan	✓		✓	✓		
<i>Bridelia retusa</i>	Phyllanthaceae	Kasi	✓		✓	✓		✓
<i>Bridelia tomentosa</i>	Phyllanthaceae	Ghanta	✓		✓			
<i>Bryophyllum pinnatum</i>	Crassulaceae	Amarpoi	✓				✓	
<i>Buchanania lanzan</i>	Anacardiaceae	Chara	✓	✓	✓	✓		
<i>Butea superba</i>	Fabaceae	Lata palash	✓		✓		✓	
<i>Calamus latifolius</i>	Arecaceae	Beta		✓	✓	✓		
<i>Calotropis gigantea</i>	Apocynaceae	Arakha	✓	✓	✓		✓	
<i>Capparia brevispina</i>	Capparaceae	Kantei	✓			✓		
<i>Careya arborea</i>	Lecythidaceae	Kumbhi	✓		✓			
<i>Casearia elliptica</i>	Flacourtiaceae	Khakada			✓			
<i>Cassia fistula</i>	Fabaceae	Sunari	✓	✓	✓		✓	
<i>Cassine glauca</i>	Celastraceae	Mokha	✓		✓			
<i>Celastrus paniculatus</i>	Celastraceae	Kujuri	✓	✓	✓			
<i>Ceropegia candelabrum</i>	Apocynaceae	-	✓		✓			
<i>Ceropegia hirsuta</i>	Apocynaceae	Pharbhaghaga	✓		✓			
<i>Chloroxylon swietenia</i>	Rutaceae	Bheru	✓	✓	✓			
<i>Chromolaena odorata</i>	Asteraceae	Badi pokasunga	✓					✓

<i>Cipadessa baccifera</i>	Meliaceae	Nahalbeli	✓		✓			
<i>Cissampelos pareira</i>	Menispermaceae	Akanbindhi	✓	✓	✓	✓	✓	
<i>Cleistanthus collinus</i>	Phyllanthaceae	Karada	✓		✓			
<i>Clerodendrum infortunatum</i>	Lamiaceae	Kumuti	✓		✓			
<i>Cocculus hirsutus</i>	Menispermaceae	Dahadahiya	✓		✓			
<i>Combretum roxburghii</i>	Combretaceae	Atundi	✓		✓			
<i>Commelina benghalensis</i>	commelinaceae	Kanasiri	✓		✓	✓		
<i>Corchorus aestuans</i>	Tiliaceae	Bananalita	✓		✓			
<i>Cryptolepis buchanani</i>	Apocynaceae	Dudhi nai	✓		✓			
<i>Curculigo orchioides</i>	Amaryllidaceae	Talamuli	✓		✓			
<i>Cuscuta reflexa</i>	Convolvulaceae	Nirmuli	✓		✓			
<i>Cynodon dactylon</i>	Poaceae	Duba ghasa	✓	✓	✓		✓	
<i>Dalbergia lanceolaria</i>	Fabaceae	Kala sisoo		✓	✓			
<i>Dalbergia latifolia</i>	Fabaceae	Pahadi sisoo		✓	✓			
<i>Dalbergia sissoo</i>	Fabaceae	Sisoo		✓	✓			
<i>Dendrophthoe falcata</i>	Loranthaceae	Madang			✓			
<i>Dioscorea bulbifera</i>	Dioscoreaceae	Pita alu	✓		✓	✓		
<i>Dioscorea glabra</i>	Dioscoreaceae	Karba alu	✓		✓	✓		
<i>Dioscorea oppositifolia</i>	Dioscoreaceae	Pani alu	✓		✓	✓		
<i>Dioscorea wallichii</i>	Dioscoreaceae	Suta alu	✓		✓	✓		

<i>Diospyros melanoxylon</i>	Ebenaceae	Kendu	✓	✓	✓	✓	✓	✓
<i>Diospyros montana</i>	Ebenaceae	Halda			✓			
<i>Diplocyclos palmatus</i>	Cucurbitaceae	Sibalingi	✓		✓			
<i>Drimia indica</i>	Liliaceae	Bana piaja	✓		✓			
<i>Dunbaria rotundifolia</i>	Fabaceae	-	✓		✓			
<i>Ecbolium viride</i>	Acanthaceae	Ishwara jata	✓		✓			
<i>Ehretia laevis</i>	Boraginaceae	Masania	✓	✓		✓		✓
<i>Emilia sonchifolia</i>	Asteraceae	Sarkara	✓		✓			
<i>Eranthemum nervosum</i>	Acanthaceae	Gulsham	✓		✓			
<i>Erythrina variegata</i>	Fabaceae	Paladhua	✓		✓			
<i>Euphorbia hirta</i>	Euphorbiaceae	Chitakutei	✓		✓			
<i>Evolvulus alsinoides</i>	Convolvulaceae	Sankhapuspi	✓		✓			
<i>Evolvulus nummularius</i>	Convolvulaceae	Bichhamalia	✓		✓			
<i>Ficus benghalensis</i>	Moraceae	Bara	✓		✓		✓	
<i>Ficus religiosa</i>	Moraceae	Aswasta	✓		✓		✓	✓
<i>Ficus tinctoria</i>	Moraceae	Jhirang	✓		✓			✓
<i>Flacourtia indica</i>	Salicaceae	Baincha	✓		✓	✓		
<i>Gardenia latifolia</i>	Rubiaceae	Katarang			✓	✓		
<i>Glochidion lanceolarium</i>	Phyllanthaceae	Khakada	✓		✓			
<i>Glochidion zeylanicum</i>	Phyllanthaceae	Kalchia	✓		✓			

<i>Gloriosa superba</i>	Colchicaceae	Angnisikha	✓		✓		✓	
<i>Glycosmis pentaphylla</i>	Rutaceae	Chauli	✓		✓			
<i>Gmelina arborea</i>	Lamiaceae	Gambhari		✓	✓			
<i>Gouania leptostachya</i>	Rhamnaceae	Raktapichuli	✓		✓			
<i>Grewia disperma</i>	Tiliaceae	Mirga chara	✓		✓			
<i>Grewia tiliifolia</i>	Tiliaceae	Dhaman	✓		✓			
<i>Grona triflora</i>	Fabaceae	Kuradia	✓		✓			
<i>Gymnema sylveste</i>	Asclepiadaceae	Gudmari	✓	✓	✓			
<i>Haldina cordifolia</i>	Rubiaceae	Kuruma			✓			
<i>Helicteres isora</i>	Malvaceae	Modimodika	✓		✓			
<i>Hemidesmus indicus</i>	Asclepiadaceae	Anantamula	✓	✓	✓			
<i>Hemigraphis latebrosa</i>	Acanthaceae	Bareng phul	✓		✓			
<i>Holarrhena pubescens</i>	Apocynaceae	Kurei	✓		✓			
<i>Huberantha cerasoides</i>	Annonaceae	Champati	✓		✓	✓		
<i>Hybanthus enneaspermus</i>	Violaceae	Madanamastaka	✓		✓			
<i>Ichnocarpus frutescens</i>	Apocynaceae	Shyama lata	✓	✓	✓		✓	
<i>Indigofera cassioides</i>	Fabaceae	Girli	✓	✓	✓	✓	✓	
<i>Indigofera linnaei</i>	Fabaceae	Latahai	✓		✓			
<i>Ipomoea hederacea</i>	Convolvulaceae	Panikoda	✓		✓			
<i>Ipomoea obscura</i>	Convolvulaceae	-	✓		✓			

<i>Ipomoea sepiaria</i>	Convolvulaceae	Lata kalama	✓		✓			
<i>Jacquemontia paniculata</i>	Convolvulaceae	-	✓		✓			
<i>Jatropha gossypiiifolia</i>	Euphorbiaceae	Baigaba	✓		✓			
<i>Justicia procumbens</i>	Acanthaceae	Pitpapada	✓		✓			
<i>Kleinhovia hospita</i>	Sterculiaceae	Bola			✓			
<i>Lagerstroemia parviflora</i>	Lythraceae	Siddha			✓			
<i>Lannea coromandelica</i>	Anacardiaceae	Mai	✓		✓	✓		
<i>Lantana camara</i>	Verbenaceae	Putus						✓
<i>Leonotis nepetifolia</i>	Lamiaceae	Kanta siddha	✓		✓			
<i>Lepidagathis fasciculata</i>	Acanthaceae	Rasna	✓		✓			
<i>Mangifera indica</i>	Anacardiaceae	Amba	✓	✓	✓	✓	✓	
<i>Melia azedarach</i>	Meliaceae	Mahanimba	✓		✓			
<i>Melochia corchorifolia</i>	Malvaceae	Telpuri	✓		✓			
<i>Mesosphaerum suaveolens</i>	Lamiaceae	Bana tulsi	✓		✓			
<i>Meyna spinosa</i>	Rubiaceae	Sarla saga	✓		✓	✓		
<i>Millettia pinnata</i>	Fabaceae	Karanja	✓	✓			✓	✓
<i>Mimosa pudica</i>	Fabaceae	Lajakuli	✓		✓			✓
<i>Mimosa rubicaulis</i>	Fabaceae	Kirkichi kanta	✓		✓			
<i>Mimusops elengi</i>	Sapotaceae	Baula	✓		✓	✓		
<i>Morinda tinctoria</i>	Rubiaceae	Aachu	✓		✓			

<i>Morus alba</i>	Moraceae	Tut koli	✓	✓	✓	✓		
<i>Mucuna pruriens</i>	Fabaceae	Baidanka	✓		✓			
<i>Murraya koenigii</i>	Rutaceae	Bhrusanga patra	✓	✓	✓	✓	✓	
<i>Murraya paniculata</i>	Rutaceae	Kamini	✓		✓			✓
<i>Naringi crenulata</i>	Rutaceae	Behenta	✓		✓	✓		
<i>Neolamarckia cadamba</i>	Rubiaceae	Kadamba			✓		✓	
<i>Nyctanthes arbor-tristis</i>	Oleaceae	Ganga-siuli	✓	✓	✓		✓	
<i>Ochna obtusa</i>	Ochnaceae	Bhuinchampa	✓		✓			
<i>Ocimum gratissimum</i>	Lamiaceae	Ram tulsi	✓		✓			
<i>Ocimum sanctum</i>	Lamiaceae	Tulsi	✓	✓	✓	✓	✓	
<i>Olex scandens</i>	Olacaceae	Bhadabhadalia	✓	✓	✓			
<i>Oldenlandia corymbosa</i>	Rubiaceae	Badipoda	✓		✓			
<i>Oplismenus burmannii</i>	Poaceae	Kougodia			✓			
<i>Passiflora foetida</i>	Passifloraceae	Gandhatamala	✓		✓	✓		
<i>Peltophorum pterocarpum</i>	Fabaceae	Radha chuda						✓
<i>Pennisetum pedicellatum</i>	Poaceae	Bajri			✓			
<i>Pentanema indicum</i>	Asteraceae	Bana sebati			✓			
<i>Petalidium barlerioides</i>	Acanthaceae	Drakappa			✓			
<i>Phoenix acaulis</i>	Aracaceae	Bhuin khajuri	✓		✓	✓		
<i>Phoenix sylvestris</i>	Aracaceae	Khajuri	✓	✓	✓	✓		

<i>Phyllanthus amarus</i>	Phyllanthaceae	Bhuin amla	✓		✓			
<i>Phyllanthus reticulatus</i>	Phyllanthaceae	Jojangi	✓		✓			
<i>Plumeria alba</i>	Apocynaceae	Katha champa	✓				✓	
<i>Polyalthia longifolia</i>	Annonaceae	Debadaru						✓
<i>Polyalthia suberosa</i>	Annonaceae	Gua koli	✓		✓			
<i>Polygala crotalarioides</i>	Polygalaceae	Ajhaduagada	✓		✓			
<i>Protium serratum</i>	Burseraceae	Nimbura mai	✓		✓			
<i>Pterocarpus marsupium</i>	Fabaceae	Piasala , Bija	✓	✓	✓			
<i>Pterospermum acerifolium</i>	Malvaceae	Muchukunda	✓		✓			
<i>Pterospermum xylocarpum</i>	Sterculiaceae	Giringa	✓		✓			
<i>Rungia pectinata</i>	Acanthaceae	Sankha saga	✓		✓	✓		
<i>Santalum album</i>	Santalaceae	Chandan	✓				✓	
<i>Saraca asoca</i>	Fabaceae	Ashoka	✓				✓	
<i>Schleichera oleosa</i>	Sapindaceae	Kusuma	✓		✓	✓	✓	
<i>Scoparia dulcis</i>	Plantaginaceae	Khelapapada						
<i>Semecarpus anacardium</i>	Anacardiaceae	Bhalia	✓		✓	✓		✓
<i>Senegalia pennata</i>	Fabaceae	Dantari			✓			
<i>Shorea robusta</i>	Dipterocarpaceae	Sala	✓	✓	✓	✓	✓	
<i>Sida acuta</i>	Malvaceae	Bajramuli	✓		✓			
<i>Sida cordata</i>	Malvaceae	Bisiripi	✓		✓			

<i>Simarouba glauca</i>	Simaroubaceae	Laxmidaru	✓					✓
<i>Smilax perfoliata</i>	Smilacaceae	Muturi	✓		✓	✓		
<i>Smilax zeylanica</i>	Smilacaceae	Muturi	✓		✓	✓		
<i>Solanum torvum</i>	Solanaceae	Bhejibaigana	✓		✓	✓		
<i>Solena amplexicaulis</i>	Cucurbitaceae	Bana kunduri	✓		✓	✓		
<i>Soymida febrifuga</i>	Meliaceae	Rohini		✓	✓			
<i>Spermacoce articularis</i>	Rubiaceae	Solaganthi	✓		✓			
<i>Spermacoce ocymoides</i>	Rubiaceae	-	✓		✓			
<i>Spondias pinnata</i>	Anacardiaceae	Ambada	✓	✓	✓	✓		
<i>Stachytarpheta indica</i>	Verbenaceae	Jalajali	✓		✓			
<i>Stephania japonica</i>	Menispermaceae	Sondhimali	✓		✓			
<i>Sterculia urens</i>	Malvaceae	Genduli	✓		✓			
<i>Streblus asper</i>	Moraceae	Sahada	✓		✓	✓	✓	
<i>Strychnos potatorum</i>	Strychnaceae	Kataka	✓		✓			
<i>Synedrella nodiflora</i>	Asteraceae	-	✓		✓			
<i>Syzygium cumini</i>	Mrytaceae	Jamun	✓	✓	✓	✓		
<i>Tamarindus indica</i>	Fabaceae	Tentuli	✓	✓	✓	✓	✓	✓
<i>Tectona grandis</i>	Lamiaceae	Saguan						✓
<i>Terminalia bellirica</i>	Combretaceae	Bahada	✓	✓	✓			
<i>Terminalia chebula</i>	Combretaceae	Harida	✓	✓	✓			

<i>Terminalia elliptica</i>	Combretaceae	Asana	✓		✓			
<i>Tiliacora acuminata</i>	Menispermaceae	Kalajati nai	✓		✓			
<i>Tinospora cordifolia</i>	Menispermaceae	Giloy	✓	✓	✓			
<i>Tinospora crispa</i>	Menispermaceae	Giloy	✓	✓	✓			
<i>Tinospora sinensis</i>	Menispermaceae	Bada giloy	✓	✓	✓			
<i>Tridax procumbens</i>	Asteraceae	Bisalyakarani	✓	✓	✓	✓	✓	
<i>Triumfetta pentandra</i>	Malvaceae	Jatajatia	✓		✓			
<i>Urena lobata</i>	Malvaceae	Bilakapasias	✓		✓			
<i>Vernonia cinerea</i>	Asteraceae	Pokasunga	✓		✓			
<i>Wattakaka volubilis</i>	Apocynaceae	Dugdhika	✓		✓			
<i>Wedelia chinensis</i>	Asteraceae	Kasaraj	✓		✓			
<i>Woodfordia fruticosa</i>	Lythraceae	Dhatiki	✓	✓	✓	✓		
<i>Wrightia arborea</i>	Apocynaceae	Dada kurei	✓		✓			
<i>Wrightia tinctoria</i>	Apocynaceae	Pita keruan	✓		✓			
<i>Xylia xylocarpa</i>	Fabaceae	Kangada			✓			
<i>Ziziphus mauritiana</i>	Rhamnaceae	Bara koli	✓	✓	✓	✓		
<i>Ziziphus oenoplia</i>	Rhamnaceae	Kantei koli	✓	✓	✓	✓		
<i>Ziziphus rugosa</i>	Rhamnaceae	Chun koli	✓		✓			

(SC: Socio-cultural)

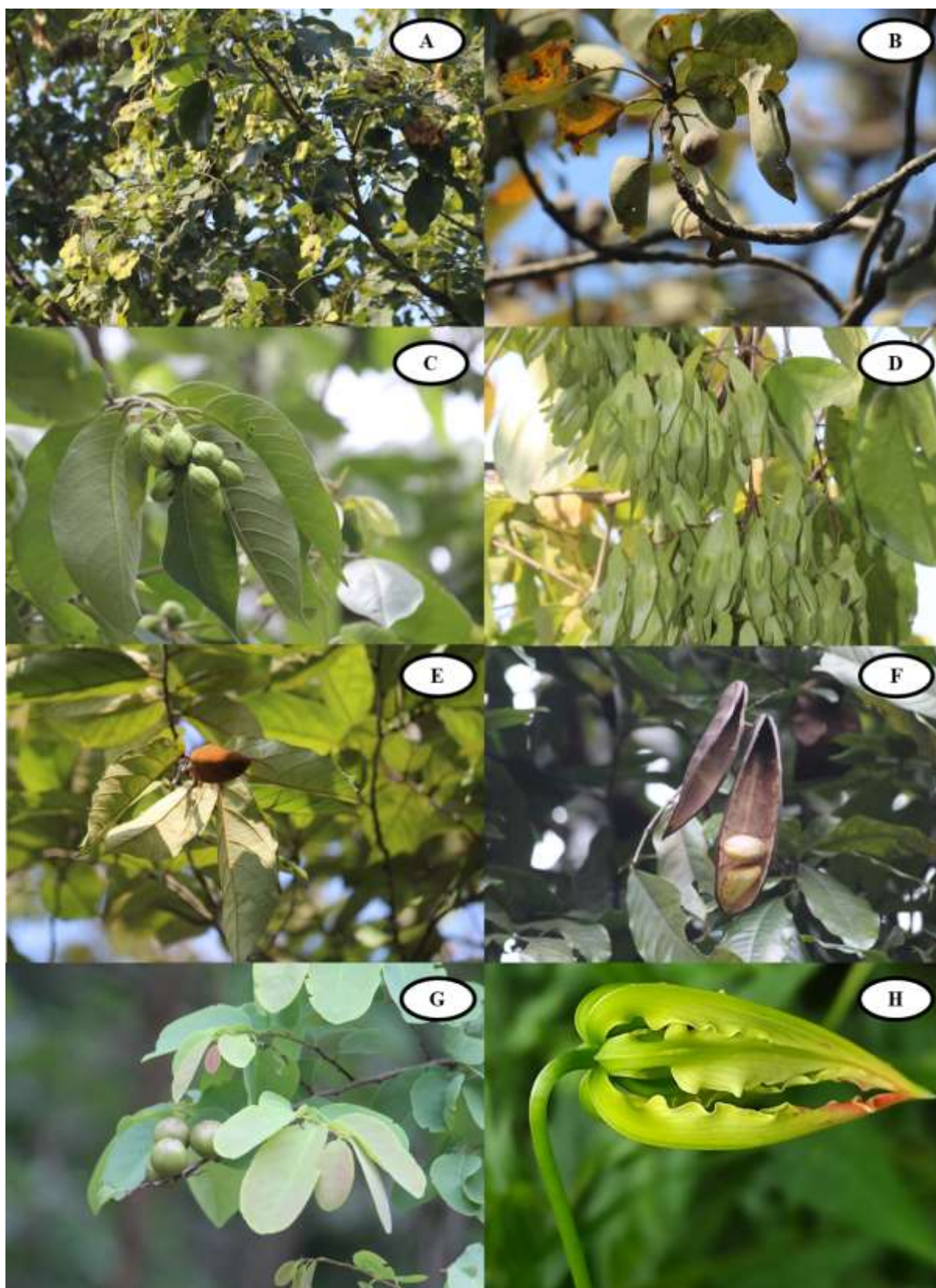


Plate 1: Common medicinal plants of Mandargiri hills, Angul, Odisha A) *Pterocarpus marsupium*, B) *Terminalia bellirica*, C) *Terminalia chebula*, D) *Aspidopterys indica*, E) *Pterospermum xylocarpum*, F) *Saraca asoca*, G) *Cleistanthus collinus*, H) *Gloriosa superba*

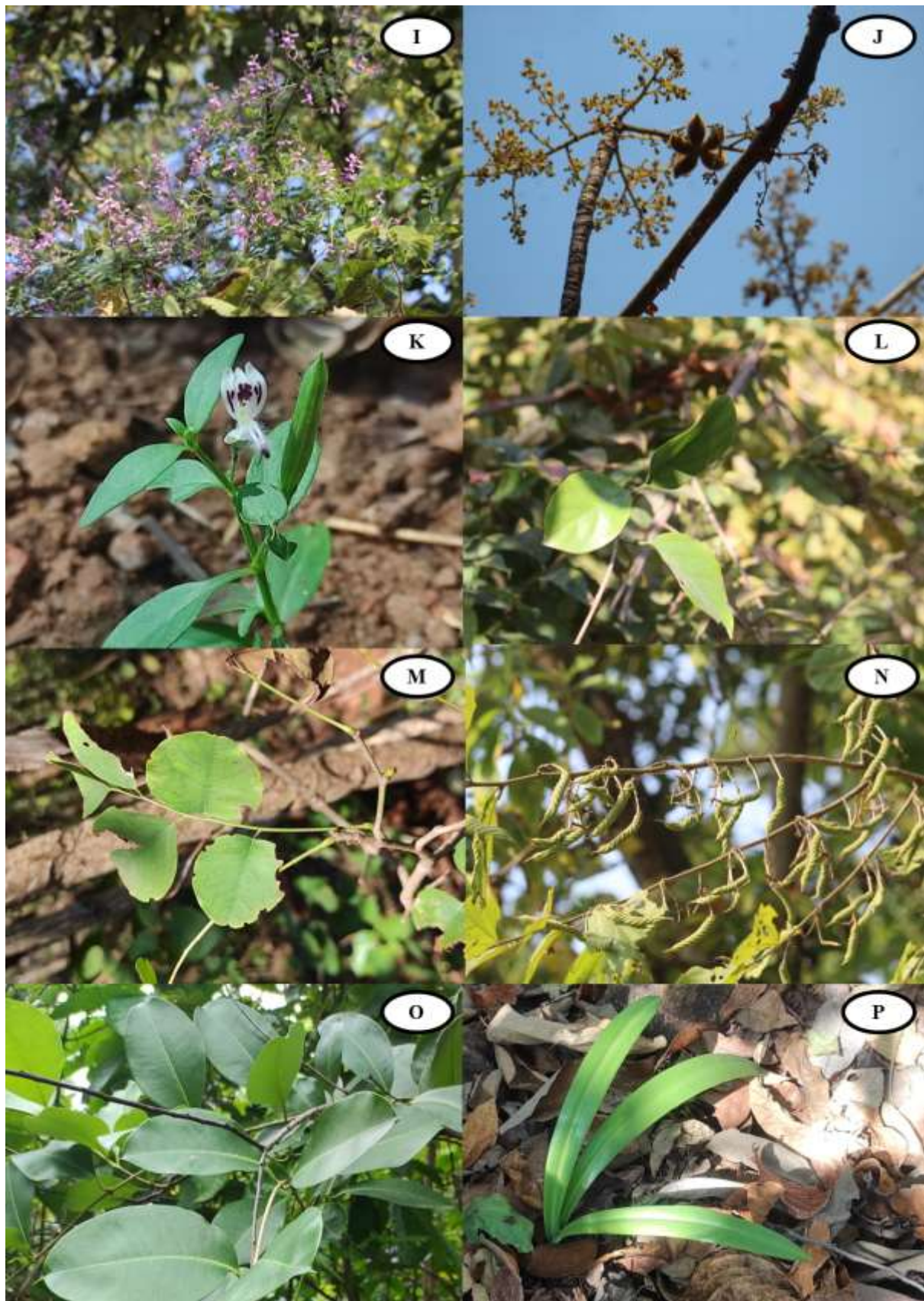


Plate 2: I) *Indigofera cassioides*, J) *Sterculia urens*, K) *Andrographis paniculata*, L) *Wattakaka volubilis*, M) *Dalbergia latifolia*, N) *Helicteres isora*, O) *Cryptolepis buchanani*, P) *Drimia indica*



Plate 3: Survey works and enumeration of medicinal plants at Mandargiri hills, Angul, Odisha

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