

FINAL PROJECT REPORT Date: 29th February, 2016

Title: DOCUMENTATION, COLLECTION AND PRESERVATION OF BIODIVERSITY OF TEZPUR UNIVERSITY

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Submitted By

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INTRODUCTION

The understanding of the importance of biodiversity has developed in the 20 years since the report of the World Commission on Environment and Development (Brundtland Commission). Assam as a part of north-eastern region of India falls under Biodiversity Hotspot region. Hence, we have enormous scope for inventorization, documentation, conservation and protection of biodiversity.

In the present context the main concern is the human threats to biodiversity loss. Any form of anthropogenic activities impaired the balance to nature, however nature has its own resistance and resilience capacity to cope up stress within the carrying capacity. But the degree of disturbance is found to be higher than the carrying capacity then lead to imbalance nature or ecosystem.

Keeping, the usefulness and richness of the Biodiversity of TU, the present project was carried out to explore the diversity of the life forms. During 2014-2016, various field study was carried out in the campus. The specimens were identified in consultation with different authenticate literature.

TREE	87
SHRUBS	33
CLIMBER	15
HERBS AND GRASSES	61
BAMBOO	8
PALM	14
FERN	4
ORCHID	23
GYMNOSPERMS	10
Grand Total	255

SUMMARY OF THE RESULT:

Table 1: Summary of the plant species recorded during the project

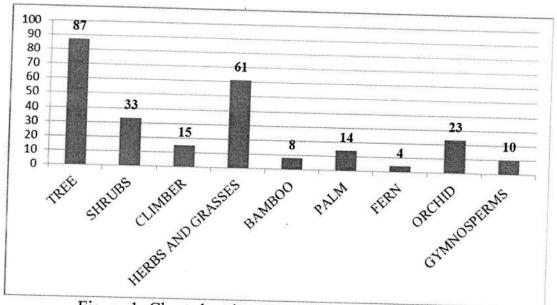


Figure 1: Chart showing different category of species.

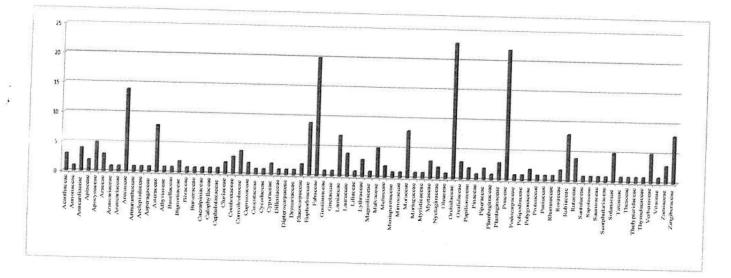


Figure 2: Chart showing Family wise species distribution.

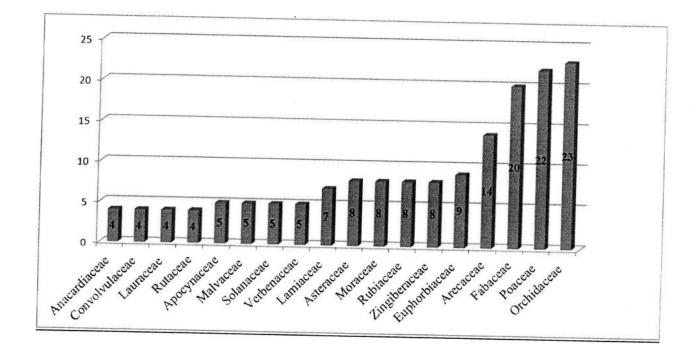
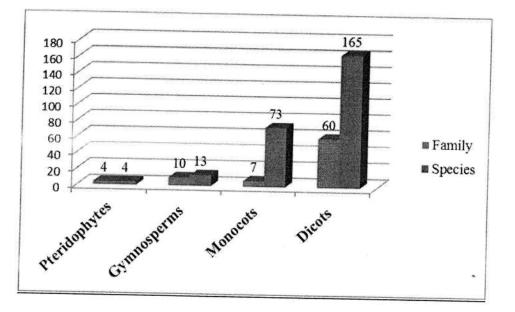
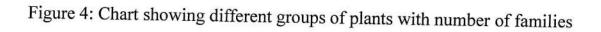


Figure 3: Chart showing dominant Family with representing species.





DETAILED LIST OF PLANT SPECIES RECORDED FROM TU CAMPUS DURING 2014-2016 UNDER TEZPUR UNIVERSITY BIODIVERSITY PROJECT

✓ TREE

Sl.	vernacular name	Scientific name	Family
No.	(Assamese)		-
1.	Acacia	Acacia crassicarpa A.Cunn.ex Benth.	Fabaceae
2.	Ku sandan	Adenanthera pavonina L.	Fabaceae
3.	Bel	Aegle marmelos (L.) Corr.	Rutaceae
4.	Sou Siris	Albizia chinensis (Osbeck) Merr.	Fabaceae
5.	Sirish	Albizia lebbeck (L.)Benth.	Fabaceae
6.	Sirish	Albizia procera (Roxb.)Benth.	Fabaceae
7.	Sationa	Alstonia scholaris (L.)R. Br.	Apocynaceae
8.	Kajubadam	Anacardium occidentale L.	Anacardiaceae
9.	Kodom	Anthocephalus cadamba (Roxb.)Miq.	Rubiaceae
10.	Sasi (Agarwood)	Aquilaria malaccensis Lamk.	Thymelaeaceae
11.	Christmas tree	Araucaria cookii R. Br. ex D. Don.	Araucariaceae
12.	Kothal	Artocarpus heterophylius Lam.	Moraceae
13.	Dewa/bohot	Artocarpus lacucha Hom.	Moraceae
14.	Kordoi	Averrhoa carambola L.	Oxalidaceae
15.	Mohanim	Azardirachta indica A. Juss.	Rutaceae
16.	Leteku	Baccaurea sapida (Roxb.) Muell.Arg.	Euphorbiaceae
17.	Ronga kanchan-	Bauhinia purpurea L.	Fabaceae
18.	Boga Kanchan-	Bauhinia variegata L.	Fabaceae
19.	Uriam	Bischofia javanica Bl.	Euphorbiaceae
20.	Sendur	Bixa orellana L.	Bixaceae
21.	Simalu	Bombax ceiba L.	Fabaceae
22.	Dhuna	Boswellia Serrata Roxb. ex Colebr.	Burseraceae
23.	Kuhir	Bridelia retusa (L.) A. Juss.	Euphorbiaceae
24.	Palas	Butea monosperma (Lam.) Taub.	Fabaceae
25.	Saah (Tea)	Camellia sinensis (L.O.) Kuntze	Theaceae
26.	Yellow Cassia	Cassia biflora L.	Fabaceae
27.	Sonaru	Cassia fistula L.	Fabaceae
28.	Radhachura	Cassia javanika L.	Fabaceae

29.		Cedrela toona Roxb.ex Willd.var. australis (F.Muell.)C.DC.	Meliaceae
30.		Cinnamomum tamala (Hamilt) Nees et Brem.	Lauraceae
31.		Cinnamomum verum J. Presl	Lauraceae
32.		Coffea arabica L.	Rubiaceae
33.	Sisu	Dalbergia sissoo Roxb.	Fabaceae
34.	Krishnachura	Delonix regia (Boj.ex Hook.)Raf.	Fabaceae
35.	Ow-tenga	Dillenia indica L.	Dilleniaceae
36.	Jalphai	Elaeocarpus floribundus Blume	
37.	Rudrakh	Elaeocarpus ganitrus Roxb. ex G.Don.	Elaeocarpaceae Elaeocarpaceae
38.	Amlokhi	Emblica officinalis Geartn.	
39.	Rakta madar	Erythrina indica Lam.	Euphorbiaceae Fabaceae
40.	Bor-goch	Ficus benghalensis L.	Moraceae
41.	Atha bor	Ficus elastica Roxb.	Moraceae
42.	Jagya Dimaru	Ficus glomerata Roxb.	
43.	Dimaru	Ficus hirta Bahl.	Moraceae
44.	Ahot	Ficus religiosa L.	Moraceae
45.	Kuji Thekera	Garcinia cowa Roxb.ex DC	Moraceae
46.	Bor Thekera	Garcinia pedunculata Roxb.	Cluusiaceae
47.	Gomari	Gmelina areborea Roxb. Ex Sm.	Cluusiaceae
48.	Silver Oak tree	Grevillea robusta <u>A.Cunn.</u> ex <u>R.Br.</u>	Verbenaceae
	Robor(Rubber)	Hevea brasiliensis	Proteaceae
49.		(Willd. ex A.Juss.) Mull.Arg.	Euphorbiaceae
50.	Ajar	Lagerstroemia speciosa (L.)Pers.	Lythraceae
51.	Jia/Jigar	Lannea coromandelica (Houtt.) Merr.	Anacardiaceae
52.	Soalu	Litsea monopetala (Roxb.) Pers.	Lauraceae
53.	Pokabandha	Macaranga denticulata (Blume) Mull. Arg.	Euphorbiaceae
		Mangifera indica L.	A 11
	~	Melia azedarach L.	Anacardiaceae
		Mesua ferrea L.	Meliaceae
		Michelia champaca L.	Calophyllaceae
	D 1 1	Michella champaca L. Mimusops elengi L.	Magnoliaceae
			Sapotaceae
		Moringa oleifera Lam.	Moringaceae
		Murraya paniculata L.	Rutaceae
61.	(indiffed)	Myristica fragrans Houtt.	Myristicaceae

62.		Oroxylum indicum (L.) Kurz	Bignoniaceae
63.	0	Pajanelia longifolia (Willd.)Schum.	Bignoniaceae
64.	Yellow Gul Mohar	Peltophorum inerme (Roxb.) Naves ex Fernandez-Villar	Fabaceae
65.	Madhuri aam	Psidium guajava L.	Myrtaceae
66.	Bonsom	Phoebe goalparensis Hutch.	Lauraceae
67.	Rakta Chandan	Pterocarpus santlalinus L.f.	Palilionaceae
68.	Naspoti (Pear)	Pyrus communis L.	Rosaceae
69.	Aapel (Apple)	Pyrus malus L.	Rosaceae
70.	Bilati sirish /Rain tree	Samanea saman (Jecq.)Merr.	Fabaceae
71.	Boga Chandan	Santalum album L.	Santalaceae
72.	Saal	Shorea robusta Gaertn.	Dipterocarpaceae
73.	Amora	Spondius pinnata (L.f.) Kurz.	Anacardiaceae
74.	Udal	Sterculia villosa Roxb.	Malvaceae
75.	Kharua	Streblus asper Lour.	Moraceae
76.	Kala-jamu	Syzygium cumini (L.) Skeels.	Myrtaceae
77.	Teteli (Tamarind)	Tamarindus indica L.	Fabaceae
78.	Segun	Tectona grandis L.f.	Verbenaceae
	Arjun	Terminalia arjuna Roth.	Combretaceae
	Silikha	Terminalia chebula (Gaertn.) Tetz.	Combretaceae
81.	Halakh	<i>Terminalia myriocarpa</i> Van Heurck & Müll. Arg.	Combretaceae
	Bogori	Ziziphus jujuba Mill.	Phompagas
	Robab tenga	Citrus decumana L	Rhamnaceae
84.	Sewali	Nyctanthes arbor-tristis L.	Rutaceae Oleaceae
35. I	Lemon Bay Rum	Pimenta racemosa (Mill.) J.W.Moore	
36. <i>I</i>	Ashok	Saraca asoca (Roxb)de Willde	Myrtaceae
37. 1	Karabi	Cascabela thevetia (L.) Lippold	Caesalpiniaceae

SHRUBS

Sl no	Vern name	Botanical name	Family

1.			
	Kosturi vendi	Abelmoschus manihot (L.) Medik.	Malvaceae
2.	Nephaphu	Chlerodendron kolebrookianum Walp.	Verbenaceae
3.	Duranta	Duranta erecta L.	Verbenaceae
4.	Elachi	Elettaria cardamomum (L.) Maton	Zingiberaceae
5.	Makhioti	Flemingia strobilifera (L.)W.T. Aiton.	Fabaceae
6.	Tagar	Gardenia jasminoides J.Ellis.	Rubiaceae
7.	Rose of Sharon	Hibiscus syriacus L.	Malvaceae
8.	Joba	Hibiscus rosa-synansia L.	Malvaceae
9.	Kutaj	Holarrhena antidysenterica Wall.	Apocynaceae
10.	Rangun	Ixora coccinea L.	Rubiaceae
11.	Juniperus	Juniperus chinensis L.	Cupressaceae
12.	May flower (White)	Lagerstroemia Indica (L.)Pers.	Lythraceae
13.	Chengamora	Lasia spinosa (L.).Thw.	Araceae
14.	Jetuka(Henna)	Lawsonia inermis L.	Lythraceae
15.	Mussaenda(Dark	Mussaenda erythrophylla Schum. &	Rubiaceae
	Pink)	Thonn.	
16.	Mussaenda	Museum da and 1 11 C 1	
	wiussaenua	Mussaenda erythrophylla Schum. &	Rubiaceae
	(dark red)	Thonn.	Rubiaceae
17.			Rubiaceae
	(dark red)	Thonn.	
	(dark red) Mussaenda	Thonn. Mussaenda philllipica A.Rich. var.	
17.	(dark red) Mussaenda (White)	Thonn. <i>Mussaenda phillipica</i> A.Rich. var. <i>aurora</i> Suilt.	Rubiaceae
17.	(dark red) Mussaenda (White)	Thonn. <i>Mussaenda phillipica</i> A.Rich. var. <i>aurora</i> Suilt. <i>Phlogacanthus thrysiformis</i> (Harsdow.)	Rubiaceae
17. 18.	(dark red) Mussaenda (White) Tita Phul	Thonn. <i>Mussaenda phillipica</i> A.Rich. var. <i>aurora</i> Suilt. <i>Phlogacanthus thrysiformis</i> (Harsdow.) Mabb	Rubiaceae

22.	Sarpagandha	Rauvolfia serpentina (L.) Benth. ex Kurz	Apocynaceae
23.	Era	Ricinus communis L.	Euphorbiaceae
24.	Thuja	Thuja orientalis L.	Cupressaceae
25.	Pachatia	Vitex negundo L.	Verbenaceae
26.	Arsagandha	Withania somnifera Dun.	Solanaceae
27.	Tarua Kadam	Acacia farnesiana (L.) Willd.	Mimosaceae
28.	Atlas	Annona reticulata L.	Annonaceae
29.	Akon	Calotropis gigantean (L.) R.Br.	Asclepiadaceae
30.	Dhatura	Datura stramonium L.	Solanaceae
31.	Dalim	Punica granatum L.	Puniaceae
32.	Bokphul	Sesbania grandiflora Benth.	Papilionaceae
33.	Kathana	<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schult.	Apocynaceae

✓ CLIMBERS

Sl no.	Vern name	Botanical name	Family
1.	Nagar lota /Amor lota	Mikania micrantha Kunth	Asteraceae
2.	Kunjalata	Ipomoea quamoclit L.	Convolvulaceae
3.		Ipomoea obscura (L.) Ker Gawl.	Convolvulaceae
4.		Ipomoea coccinea L.	Convolvulaceae
5.		Ipomoea pes-tigridis L.	Convolvulaceae
6.	Rabon nari	Cuscuta reflexa Roxb.	Cuscutaceae
7.	Vedailota	Paederia foetida L.	Rubiaceae
8.	Pan	Piper betel Blanco	Piperaceae
9.	Jaluk	Piper nigrum L.	Piperaceae
10.	Kagojphul/Bougainvillea	Bougainvillea spectabilis Willd.	Nyctaginaceae
11.	Harjora	Cissus quadrangularis L.	Vitaceae
12.	Aporajita	Clitoria ternatea L.	Fabaceae

13.	Satamul	Asparagus racemosus Willd.	Asperagaceae
14.	Saguni lota	Tinospora cordifolia (Willd.) Miers	Menispermaceae
15.	Pui Sak	Basella alba L.	Basellaceae

✓ HERBS AND GRASSES

Sl no.	Vern name	Botanical name	Family
1.	Boss	Acorus calamus L.	Araceae
2.		Alloteropsis cimicina (L.) Stapf	Poaceae
3.		Cyperus alternifolius L.	Cyperaceae
4.	Bon kopahi /kopahi bon	Anaphalis subdecurrens (DC.) Gamble	Asteraceae
5.	Torboura	Rumex crispus L.	Polygonaceae
6.	Bor Elachi	Aframomum melequeta (Rose) K.Sohum	Zingiberaceae
7.	Salkunwari	Aloe barbadensis Mill.,	Liliaceae
8.	Tora	Alpinia nigra (Gaertn.) Burtt	Zingiberaceae
9.	Kata Khutura	Amaranthus spinosus L.	Armaranthaceae
10.	Moran Elachi	Amomum aromaticum Roxb.	Zingiberaceae
11.	Kalmegh	Andrographis paniculata (Burm. f.) Wall. ex Nees	
12.		Apluda mutica L.	Poaceae
13.	Carpet grass	Axonopus compressus (Sw.) BeauvVern.	Poaceae
14.	Brahmi sak	Bacopa monnieri (L.) Penn	Scorphulariaceae
15.	Punanouba	Boerhavia diffusa	Nyctaginaceae
16.	Bor Manimuni	Centella asiatica(L.)Urban	Apiaceae
17.	Bon guti	Chrysopogon aciculatus (Retz.) Trin.	Poaceae
18.	Dhopattita	Clerodendrum infortunatum L.	Lamiaceae
19.	Halodhi	Curcuma domestica Valet.	Zingiberaceae
	(Turmeric)		
20.	Chitronala	Cymbopogon nardus (L.) Rendle	Poaceae
21.	Dubori bon	Cynodon dactylon (L.) Pers.	Poaceae
22.	Murphola bon	Cyperus rotundus L.	Cyperaceae
23.	Aegyptian grass	Dactyloctenium aegyptium (L.) Willd.	Poaceae
24.	Sira-bon	Digitaria setigera Roth apud R. & S. Vern.	Poaceae
25.	Kehraj	Eclipta prostrata L.	Asteraceae

26.	Indian	Eleusine indica (Linn.) Gaetn	Poaceae
	goosegrass		
27.	Helachi sak	Enhyhra fluctuans Lour.	Asteraceae
28.	Gakhiroti	Euphorbia hirta L.	Euphorbiaceae
29.	Gonchana	Homalomena aromatica (Roxb.) Schott	Araceae
30.	Machundari	Houttuynia cordata Thunb	Saururaceae
31.	Saru Manimuni	Hydrocotyle sibthorpioides Lamk.	Apiaceae
32.	Ulu kher/son kher	Imperata cylindrica (L.) Beauv	Poaceae
33.	Gathion	Kaempferia galanga L.	Zingiberaceae
34.	Durum	Leucas aspera (Willd.) Link	Lamiaceae
35.	Durun	Leucas plukenetii (Roth) Sprang.	Lamiaceae
36.	Kasidoria	Lindernia crustacea (L.) F.Muell.	Scrophulariaceae
37.	Podina	Mentha viridis L	Lamiaceae
38.	Bon Tulsi	Ocimum basilicum L.	Lamiaceae
39.	Tulsi	Ocimum sanctum L.	Lamiaceae
40.	Tengechi Tenga	Oxalis debilis H.B.K.	Oxalidaceae
41.	Tengechi Tenga	Oxalis corniculata L.	Oxalidaceae
42.	Lokosa-bon	Paspalum longifolium Roxb.	Poaceae
43.	Shinga Bon	Plantago erosa Wall.	Plantaginaceae
44.	Isobgul	Plantago ovata Forsk	Plantaginaceae
45.	Agyachit	Plumbago zeylanica L.	Plambaginaceae
46.	Patchouli	Pogostemon cablin	Lamiaceae
47.	Madhukhuleng	Polygonum microcephalum D.Don	Polygonaceae
48.	Kohua	Saccharum spontaneum L.	Poaceae
49.	Mitha pat	Scoparia dulcis L.	Plantaginaceae
50.	Konidhan	Setaria glauca (L.) P.Beauv.	Poaceae
51.	Nogahabi, Naginipat	Setaria palmifolia (Koen) Stapf	Poaceae
52.	Sonborial	Sida cordifolia L.	Malvaceae
53.	Loskosi	Solanum nigrum L.	Solanaceae
54.	Vekuri tita	Solanum viarum Dunal	Solanaceae
55.	Parbati Sak/ Khuhani Bon	Spilanthes paniculata Wall. Ex DC.	Asteraceae
56.	Chirata Tita	Swertia chirayita (Rox. Ex Flamming) Karsten.	Gentianaceae
57.		Tridax procumbens L.	Asteraceae
58.	Bhringraj	Wedelia chinensis Merr.	Asteraceae
59.	Aada (Ginger)	Zingiber officinale Rosc.	Zingiberaceae

60.	Barahu	Zingiber zerumbet (L.)J.E.Smith	Zingiberaceae
61.	Gondhoa bon	<i>Chromolaena odorata</i> (L.) R.M.King & H.Rob.	

✓ BAMBOO

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SL.No	Vernacular Name	Botanical Name	Family
1.	Bhaluka Baah	Bambusa balcooa Roxb.	Poaceae
2.	Kataha/ Kota/Ketua Baah	Bambusa bambos (L.)Vos [Bambusa arundinacea (Retz.)Willd.]	Poaceae
3.	Bijuli Baah	Bambusa pallida Munro.	Poaceae
4.	Jati Baah	Bambusa tulda Roxb.	Poaceae
5.	Budhabeli Baah	Bambusa ventricosa McClure	Poaceae
6.	Kalachi Baah	Bambusa vulgaris forma wamini (Brandis)Wen	Poaceae
7.	Sonali/ Halodhiya Baah	Bambusa vulgaris var. vittata A.C.Riviere	Poaceae
8.	Pahariya Jati Baah	Oxytenanthera parvifolia Brandis ex Gamble	Poaceae

✓ PALM

	Vernacular/ Local Name	Common Name	Family	Botanical name
1.	Momai Tamul	Areca Palm	Arecaceae	Chrysalidocarpus lutescens H.Wendl.

2.	Bottle palm		Arecaceae	<i>Hyophorbe lagenicaulis</i> (L.H. Bailey) H.E.Moore
3.	Triangular Palm		Arecaceae	Dypsis decaryi (Jum.) Beentje & J.Dransf.
4.	Royal palm		Arecaceae	<i>Roystonea regia</i> (Kunth.) O.F. Cook.
5.	Chinese palm		Arecaceae	<i>Livistona chinensis</i> (Jacq.) R.Br. ex Mart.
6.	Rhapis palm		Arecaceae	Rhapis excelsa (Thunb.) Henry
7.	Khejur	Phoenix palm	Arecaceae	Phoenix dactylifera L.
8.	Beetal nut		Arecaceae	Areca catechu L.
9.	Narikol	Coconut	Arecaceae	Cocos nucifera L.
10.	Tokou		Arecaceae	Livistona jenkinsiana Griff.
11.	Fishtail palm		Arecaceae	Caryota urens L.
12.	Foxtail Palm		Arecaceae	Wodyetia bifurcata A.K.Irvine
13.	Kentia palm		Arecaceae	Howea forsteriana (F.Muell.) Becc.
14.	Taal		Arecaceae	Borassus flabelifer L.

✓ GYMNOSPERMS

Sl No	Botanical Name	Family
1.	Agathis robusta (C.Moore ex F.Muell.) F.M.Bailey	Araucariaceae
2.	Cephalotaxus mannii Hook.f.	Cephalotaxaceae (VU)
3.	Cycas revoluta Thunb.	Cycadaceae (EN)
4.	Dioon spinulosum Dyer ex Eichl.	Zamiaceae (EN)
5.	Gnetum gnemon L.	Gnetaceae
6.	Pinus wallichiana A.B.Jacks.	Pinaceae
7.	Podocarpus macrophyllus (Thunb.)	Podocarpaceae

	Sweet	
8.	Taxus baccata L.	Taxaceae
9.	Zamia furfuracea L.f. ex Aiton	Zamiaceae (EN)
10.	Zamia portoricensis Urb.	Zamiaceae (EN)

✓ FERNS

SL.	Vernacular	Botanical Name	Family
No	Name		
1.	Dhekia	Drynaria quercifolia (L.)J. Sm.	Drynariaceae
2.	Dhelia sak	Diplazium esculentum (Retz.) Sw.	Athyriaceae
3.	Bih dhekia	Thelypteris palustris (A. Gray) Schott	Thelypteridaceae
4.		Microsorum pteropus (Blume) Copel.	Polipodiaceae

✓ ORCHIDS

SN	Botanical Name Family : Orchidaceae	Image
1.	Phaius tankervilleae (Banks) Blume	
2.	Dendrobium nobile Lindl.	

3.	Dendrobium aphyllum (Roxb.) C.E.C.Fisch.	
4.	Dendrobium moschatum (BuchHam.) Sw.	
5.	Dendrobium fimbriatum Hook.	
6.	<i>Vanilla planifolia</i> Jacks. ex Andrews	
7.	Pholidota imbricata (Roxb.) Lindl.	
8.	Pholidota articulata Lindl.	
9.	Eria flava Lindl.	

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10.	Flickingeria fugax (Rchb.f.) Seidenf.	
11.	Agrostophyllum planicaule (Wall. ex Lindl.) Rchb.f.	
12.	Cymbidium aloifolium (L.) Sw.	
13.	Acampe rigida (Buch Ham. ex Sm.) P.F. Hunt	
14.	Acampe papillosa (Lindl.) Lindl.	

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15.	Aerides williamsii R.Warner	
16.	Bulbophyllum careyanum (Hook.) Spreng.	
17.	Papilionanthe teres (Roxb.) Schltr.	
18.	Rhynchostylis retusa (L.) Blume	

19.	Aerides odoratum Reinw. ex Blume	
20.	Arundina graminifolia (D.Don) Hochr.	
21.	Phalaenopsis mannii Rchb.f.	
22.	Vanda coerulea Griff. Ex Lindl.	
23.	Spathoglottis plicata Blume	

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Sl. No.	Scientific name/ Family/ Common name/ Vernacular name/ Use
	Acacia crassicarpa A.Cunn. ex Benth. Family : Fabaceae
	Common name/ Vernacular name : Acacia
	Use: The gum, roots, leaves, bark. pods and seeds have been used by aboriginal Australians in decoction, poultice, tonics or inhalations for the treatment of a variety of ailments including diarrhoea, dysentery, sore eyes, colds, sore eyes and skin conditions. The sapwood is pale yellowish-
	brown and the heartwood golden-brown. The wood is strong and durable. It
1.	is used for construction, furniture, flooring, board and boat building. It appears suitable for pulping, but more study is required to confirm this use.
	Adenanthera pavonina L.
	Family : Fabaceae Common name/ Vernacular name : Ku sandan
	Use: Planted as a shade and ornamental tree. The tree is a natural pioneer.
	With its fast rate of growth and ability to fix atmospheric nitrogen, it can be
	used for land reclamation and to re-establish woodland The spreading
	crown of light, feathery foliage offers attractive shade and the tree is often
	planted for shade in coffee, clove and rubber plantations. the wood burns
-	readily, producing significant heat, and is used in both above- and below-
2.	ground ovens. The wood yields very good charcoal.
-	Aegle marmelos (L.) Corr.
	Family : Rutaceae Common name/ Vernacular name : Bel
3	Use: A very highly medicinal plants. Different parts are used for different health conditions. Problems of the female reproductive system like
	Leucorrhea, menstrual irregularities, vaginal hemorrhages etc. are also
	relieved with the use of Bilva along with other herbs.It also balances pitta
	related disorders in the body, effective in managing ulcers and infections.
	The ripe fruit has laxative properties and it also helps to treat constipation.
	Unripe fruit is also very effective in treating dysentery, diarrhoea and other
3.	gastro intestinal disorders.
	Albizia chinensis (Osbeck) Merr.
	Family : Fabaceae Common name/ Vernacular name : Sou Siris
	Use: It has an extensive root system and is planted for slope stabilization. As a fast growing, nitrogen-fixing tree legume, it is planted for soil
	improvement and remains important in the reforestation of degraded land.
4.	It is planted as a pioneer species in northern Thailand in reforestation

[projects to restore native woodland - it is planted in degraded woodland and
	open areas in a mix with various other species that all have the ability to
	grow fast; produce dense, weed-suppressing crowns; and attract seed-
	dispersing wildlife, particularly birds and bats. Used as a shade tree and
	weed suppressor in tea and coffee plantations.
	Albizia lebbeck (L.)Benth.
	Family : Fabaceae
	Common name/ Vernacular name : Siris
	Use: Used for amenity planting, wind-breaks, fire-breaks and the
	renabilitation of eroded and degraded soils. It is occasionally planted as a
2	shade tree in tea and coffee. Also planted for fuel-wood and gives excellent
5.	charcoal.
	Albizia procera (Roxb.)Benth.
	Family : Fabaceae
	Common name/ Vernacular name : Siris
	Use: Used for amenity planting, wind-breaks, fire-breaks and the
	rehabilitation of eroded and degraded soils. It is occasionally planted as a
	shade tree in tea and coffee. Also planted for fuel-wood and gives excellent
6.	charcoal.
0.	Alstonia scholaris (L.)R. Br.
	Family : Apocynaceae
	Common name/ Vernacular name : Sationa
	Use: The ripe fruits of the plant are used in syphilis and epilepsy. The milky
	juice has been applied to treat ulcers, bark is used in Ayurvedic medicine to
7.	treat fever, malaria, troubles in digestion, tumors, ulcers, asthma.
	Anacardium occidentale L.
	Family : Anacardiaceae
	Common name/ Vernacular name : Kajubadam
8.	Use: Good healthy fruit. Very popular dry fruit.
	Anthocephalus cadamba (Roxb.)Miq.
	Family : Rubiaceae
	Common name/ Vernacular name : Kodom
	Use: Leaves-astringent. The Ayurvedic Pharmacopoeia of India indicates
	the use of dried stembark in disorders of female genital tract and bleeding
	disorders. The dried bark contains alkaloids, steroids, reducing sugars and
0	also tannins
9.	(4.52%). The ether-soluble alkaloid of the bark shows antibacterial activity.
10	Aquilaria malaccensis Lamk.
10.	Family : Thymelaeaceae

[Common name/ Vernacular name : Soci (A reason a)		
	Common name/ Vernacular name : Sasi (Agarwood) Use: Economically very important plant. It is the major source of		
	agarwood, a resinous heartwood, used for perfume and incense.		
	Araucaria cookii R. Br. ex D. Don.		
	Family : Araucariaceae		
Common name/ Vernacular name : Christmas tree			
11.			
Artocarpus heterophylius Lam.			
Family : Fabaceae			
	Common name/ Vernacular name : Kothal		
12.	Use: A very healthy and popular fruit as well as very good timber.		
	Artocarpus lacucha Hom.		
	Family : Moraceae		
	Common name/ Vernacular name : Dewa/bohot		
13.	Use: Fruits are extremely eaten by monkey and other animals.		
	Averrhoa carambola L.		
	Family : Oxalidaceae		
	Common name/ Vernacular name : Star fruit/ Kordoi		
	Use: Star fruit contains good quantities of vitamin-C. Vitamin C is a		
	powerful natural antioxidant. 100 g of fresh fruit provides 34.7 mg or 57%		
	of daily-required levels of vitamin C. In general, consumption of fruits rich		
	in vitamin C helps the human body develop resistance against infectious		
	agents and scavenge harmful, pro-inflammatory free radicals from the		
	body.		
	It is also rich in antioxidant phyto-nutrient polyphenolic flavonoids. Some		
	of the important flavonoids present are quercetin, epicatechin, and gallic		
14. acid. Treated as one of the high valued ethnomedicinal plants.			
	Azardirachta indica A. Juss.		
	Family : Rutaceae		
	Common name/ Vernacular name : Margosa Tree/ Mohanim		
	Use: A very high valued medicinal plants. All parts of Neem tree used as		
	anthelmintic, anti-fungal, anti-diabetic, antibacterial, antiviral,		
	contraceptive and sedative. Neem tree is used in many medicinal treatment		
	like skin diseases, healthy hair, improve liver function, detoxify the blood,		
	Pest and disease control, fever reduction, dental treatments, cough, asthma,		
15.	ulcers, piles, intestinal worms, urinary diseases etc.		
	Baccaurea sapida (Roxb.) Muell.Arg.		
	Family : Euphorbiaceae		
16.	Common name/ Vernacular name : Leteku		

	Use: A very good fruit				
	Bauhinia purpurea L.				
	Family : Fabaceae				
	Common name/ Vernacular name : Ronga kanchan				
17.	Use: Ethno-botanically important plant and a good avenue plant.				
Bauhinia variegata L.					
	Family : Fabaceae				
	Common name/ Vernacular name : Boga Kanchan				
18.	Use: Ethno-botanically important plant and a good avenue plant.				
	Bischofia javanica Bl.				
	Family : Euphorbiaceae				
	Common name/ Vernacular name : Uriam				
	Use: Ethno-botanically important plant. The tree is used for reforestation				
	and is often intercropped in traditional agriculture. In India, it is considered				
19.	to be an excellent shade tree in coffee and cardamom plantations.				
	Bixa orellana L.				
	Family : Bixaceae				
	-				
Common name/ Vernacular name: Lipstick tree/Sendur					
	Use: A shrub or small tree originating from the tropical region of the Americas. North, Central and South American. The pulp of the fruit yields				
	a bright red dye, which has long been used both as a body point and the				
	a bright red dye, which has long been used both as a body paint and dye stuff for textiles or food. Indiana and the stuff for textiles or food in diana and the stuff for textiles or food.				
	stuff for textiles or food. Indigenous people still use the pulp for 'cosmetic				
	purposes', as hair dye or lip stick, hence the English common name 'Lipstick tree'.				
	Lipstick tice.				
20.					
20.	Bombax ceiba L.				
	Family : Malvaceae				
7	Common name/ Vernacular name : Red silk-cotton/ Simalu				
	Use: A very common cotton yielding plants. The roots are sweet, cooling,				
	stimulant, restorative, astringent, alternative, demulcent, emetic and tonic.				
	It is used in the treatment of diarrhea, dysentery, menorrhagia, styptic and				
	for wounds. The gum is cooling, astringent, stimulant, tonic and demulcent				
	in nature. It is useful in dysentery, hemoptysis, pulmonary tuberculosis,				
	influenza, burning sensation, menorrhagia and enteritis. Bark is				
	mucilaginous, demulcent, emetic and tonic. Used for healing wounds and to				
21	stop bleeding. Flowers are astringent and good for skin troubles and				
21.	haemorrhoids. Seeds are useful in treating gonorrhea and chronic cystitis.				
22	Boswellia Serrata Roxb. ex Colebr.				
22.	Family : Burseraceae				

	Common name/ Vernacular name : Dhuna		
	Use: Gum resin Commonly used in all households for smoking. Gum resin		
	extract used for medicinal purposes related to systemic and topical		
	inflammation. In Ayurveda, this herb is known as Salai guggal.		
	Bridelia retusa (L.) A. Juss.		
	Family : Euphorbiaceae		
Common name/ Vernacular name : Kuhir			
23.	Use: High valued ethno medicinal plants.		
	Butea monosperma (Lam.) Taub.		
	Family : Fabaceae		
	Common name/ Vernacular name : Palas		
	Use: High valued ethno medicinal plants and very popular plants used in		
24.	different traditional rituals in Assam.		
	Camellia sinensis (L.O.) Kuntze		
	Family : Theaceae		
	Common name/ Vernacular name : Tea tree/ Saah		
	Use: Very high valued Economically important plant. Leaves are used as		
25.	Tea.		
	Cassia biflora L.		
	Family : Fabaceae		
	Common name/ Vernacular name : Yellow Cassia		
26.	Use: Avenue plants.		
	Cassia fistula L.		
Family : Fabaceae			
	Common name/ Vernacular name : Golden shower/ Sonaru		
27.	Use: High valued ethno medicinal plants. Highly planted as avenue plants.		
	Cassia javanika L.		
	Family : Fabaceae		
	Common name/ Vernacular name : Radhachura		
28.	Use: Common and very popular avenue plants.		
	Cedrela toona Roxb.ex Willd.var. australis (F.Muell.)C.DC.		
	Family : Meliaceae		
	Common name/ Vernacular name : Bogipoma		
29.	Use: A good timber.		
	Cinnamomum tamala (Hamilt) Nees et Brem.		
	Family : Lauraceae		
	Common name/ Vernacular name : Bay Leaf /Tezpat		
	Use: Very high valued Economically important plant . A medicinal tree.		
30.	Leaves are used as common spice.		
50.	Louves are used as common spice.		

	Cinnamomum versus I D			
	Cinnamomum verum J. Presl			
	Family : Lauraceae			
	Common name/ Vernacular name : Dalchini			
21	Use: Very high valued Economically important plant . A medicinal tree.			
31.				
Coffea arabica L.				
	Family : Rubiaceae			
Common name/ Vernacular name : Coffee				
	Use: Very high valued Economically important plant. Seeds are used as			
32.	Coffee beverage worldwide.			
	Dalbergia sissoo Roxb.			
Family : Fabaceae				
	Common name/ Vernacular name : Sisoo			
33.	Use: An excellent timber tree.			
Delonix regia (Boj.ex Hook.)Raf.				
	Family : Fabaceae			
	Common name/ Vernacular name : Krishnachura			
34.	Use: Common and very popular avenue plants.			
	Dillenia indica L.			
	Family : Dilleniaceae			
	Common name/ Vernacular name : Elephant apple/ Ow-tenga			
Use: Highly used as ethno medicine. Commonly used in hai				
35.	Economically important plant. Favorite food of elephant.			
	Elaeocarpus floribundus Blume			
	Family : <i>Elaeocarpaceae</i>			
	Common name/ Vernacular name : Jalphai			
	Use: A good timber. Economically important plant as well as ethno-			
	medicinally important. Fruits are very popular for pickle.			
36.	j			
	Elaeocarpus ganitrus Roxb. ex G.Don.			
	Family : Elaeocarpaceae			
	Common name/ Vernacular name : Rudrakh			
	Use: Economic as well as ethno-medicinal plant. Seeds are commonly used			
	in rituals in India.			
37.	in maais in mara.			
	Emblica officinalis Geartn.			
	Family : Euphorbiaceae			
	Common name/ Vernacular name : Emblica/ Amlokhi			
	Use: Emblica exhibits strong antioxidant activity. It is one of the most			
38.	important plants in the traditional Ayurvedic medical system. A high			
	Presso in the traditional right vente incureal system. A mgn			

[
	valued economically important plant.				
	Erythrina indica Lam.				
	Family : Fabaceae				
Common name/ Vernacular name : Indian coral tree/ Rakta mad					
39.	Use: An important medicinal plant.				
	Ficus benghalensis L.				
	Family : Moraceae				
	Common name/ Vernacular name : Bor-goch				
40.	Use: Fruits are common food of birds. A very popular plants used in rituals.				
	Ficus elastica Roxb.				
	Family : Moraceae				
	Common name/ Vernacular name : Atha bor				
	Use: Fruits are common food of birds. A very popular avenue plants as well				
41.	as indoor plants.				
	Ficus glomerata Roxb.				
	Family : Moraceae				
	Common name/ Vernacular name : Jagya Dimaru				
	Use: An ethno medicinally important plant. Fruits are eaten by human also				
42.	good food of birds.				
	Ficus hirta Bahl.				
Family : Moraceae					
Common name/ Vernacular name : Mou Dimaru					
	Use: An ethno medicinally important plant. Fruits are eaten by human also				
43.	good food of birds.				
	Ficus religiosa L.				
	Family : Moraceae				
	Common name/ Vernacular name : Ahot				
	Use: Very common avenue tree. Highly religious.				
44.					
	Garcinia cowa Roxb.ex DC				
	Family : Clusiaceae				
	Common name/ Vernacular name : Kuji Thekera				
45.	Use: High valued medicinal plants. Endemic to NE India.				
	Garcinia pedunculata Roxb.				
	Family : Clusiaceae				
	Common name/ Vernacular name : Bor Thekera				
46.	Use: High valued medicinal plants. Endemic to NE India.				
47.	Gmelina areborea Roxb. Ex Sm.				

	Family : Verbenaceae			
	Common name/ Vernacular name : Gomari			
	Use: A very good timber.			
	Grevillea robusta A.Cunn. ex R.Br.			
	Family : Proteaceae			
	Common name/ Vernacular name : Silver Oak tree			
	Use: Commonly planted as a shade tree or street tree in tropical an			
	subtropical areas. Its timber is used for making furniture, and in Sri Lanka			
48.	and East Africa the tree is planted as a fuel wood species.			
	Hevea brasiliensis (Willd. ex A.Juss.) Mull.Arg.			
	Family : Euphorbiaceae			
	Common name/ Vernacular name : Robor(Rubber)			
	Use: The latex of this plant is the main source of Natural rubber. The plant			
49.	is having very high economic importance globally.			
	Lagerstroemia speciosa (L.)Pers.			
	Family : Lythraceae			
	Common name/ Vernacular name : Pride of India/ Queen's crape-myrtle/			
	Ajar			
	Use: Mostly grown in South East Asia, India and the Philippines. It is also			
	widely cultivated as an ornamental plant in tropical and subtropical areas.			
	The leaves are used widely in the Philippines, Taiwan, and Japan as a tea			
50. preparation.				
	Lannea coromandelica (Houtt.) Merr.			
	Family : Anacardiaceae			
	Common name/ Vernacular name : Indian Ash Tree /Jia / Jigar			
11022 / Sa	Use: Young leaves are eaten as vegetable. Bark is used in different			
51.	medicine.			
	Litsea monopetala (Roxb.) Pers.			
	Family : Lauraceae			
	Common name/ Vernacular name : Soalu			
50	Use: Used as timber. The seed core contains oil and is used for industrial			
52.	oil. Leaves are used for growing muga silkworm and as cattle fodder.			
	Macaranga denticulata (Blume) Mull. Arg.			
	Family : Euphorbiaceae			
50	Common name/ Vernacular name : Pokabandha			
53.	Use: Medicinally important.			
	Mangifera indica L.			
	Family : Anacardiaceae			
54.	Common name/ Vernacular name : Mango/ Aam			

	Use: Called as the king of fruit. A very high valued commercially important			
	plant.			
	Melia azedarach L.			
	Family : Meliaceae			
	Common name/ Vernacular name : chinaberry tree, Pride of Indi Ghora-neem			
55.				
55.	Use: High valued Medicinal Plant and a good timber. Mesua ferrea L.			
	Family : Calophyllaceae			
	Common name/ Vernacular name : Indian rose chestnut, Cobra's			
	saffron/ Nahor			
56.	Use: Medicinally important as well as avenue plant.			
001	Michelia champaca L.			
	Family : Magnoliaceae			
	Common name/ Vernacular name : Champak/ Titasopa			
57.	Use: A very high valued timber. Commercially very important.			
	Mimusops elengi L.			
	Family : Sapotaceae			
	Common name/ Vernacular name : Bullet wood tree/ Bokul			
58.	Use: Good Timber and medicinal plant. Fruits are eaten directly.			
	Moringa oleiifera Lam.			
	Family : Moringaceae			
	Common name/ Vernacular name : Sajina			
59.	Use: Medicinal Tree. Commercially important.			
	Murraya exotica L.			
	Family : Rutaceae			
	Common name/ Vernacular name : Pora amlokhi			
60.	Use: Medicinal Tree. Ethnobotanically important.			
	Myristica fragrans Houtt.			
	Family : Myristicaceae			
	Common name/ Vernacular name : Nutmeg / Jaifol			
61.	Use: High valued medicinal plant. Commercially important.			
	Oroxylum indicum (L.) Kurz			
	Family : Bignoniaceae			
	Common name/ Vernacular name : Vatkgila/Tokuna			
62.	Use: High valued medicinal plant.			
	Pajanelia longifolia (Willd.)Schum.			
6	Family : Bignoniaceae			
63.	Common name/ Vernacular name : Khaura goch			

	Use: Fodder
	Peltophorum inerme (Roxb.) Naves ex Fernandez-Villar
	Family : Fabaceae
	Common name/ Vernacular name : Yellow Gul Mohar
64.	Use: Avenue plant.
	Psidium guajava L.
	Family : Myrtaceae
	Common name/ Vernacular name : Guava/ Madhuri aam
65.	Use: Fruits commercially very important.
	Phoebe goalparensis Hutch.
	Family : Lauraceae
	Common name/ Vernacular name : Bonsom
66.	Use: Very important timber.
	Pterocarpus santlalius L.f.
	Family : Papilionaceae
	Common name/ Vernacular name : Red Chandal/ Rakta Chandan
	Use: Commercially as well as botanically very significant. An Endangered
67.	species as per IUCN Red Data list.
	Pyrus communis L.
	Family : Rosaceae
	Common name/ Vernacular name : Pear / Naspoti
	Use: Fruits are sold commercially.
68.	
	Pyrus malus L.
	Family : Rosaceae
	Common name/ Vernacular name : Apple / Aapel
	Use: Fruits are sold commercially.
69.	soor rando are sora commerciariy.
	Samanea saman (Jecq.)Merr.
	Family : Fabaceae
	Common name/ Vernacular name : Rain tree/ Bilati sirish
70.	Use: Avenue tree.
	Santalum album L.
	Family : Santalaceae
	Common name/ Vernacular name : White Chandal/ Boga Chandan
	Use: Commercially as well as botanically very significant. An Endangered
71.	species as per IUCN Red Data list.
	Shorea robusta Gaertn.
72.	Family : Dipterocarpaceae
12.	i anny . Dipterocal paceae

	Common name/ Vernacular name : Saal				
	Use: Commercially very important. Very high quality timber.				
	Spondius pinnata (L.f.) Kurz.				
	Family : Anacardiaceae				
	Common name/ Vernacular name : Amora				
73.					
Sterculia villosa Roxb.					
	Family : Malvaceae				
	Common name/ Vernacular name : Udal				
	Use: Seeds and Rots are eaten and commercially sold.				
74.					
2	Streblus asper Lour.				
	Family : Moraceae				
	Common name/ Vernacular name : Kharua				
	Use: Medicinally important. Stems are used as tooth brush by the				
75.	community.				
	Syzygium cumini (L.) Skeels.				
Family : Myrtaceae					
	Common name/ Vernacular name : Jamun/ Kola-jamu				
76.	Use: Fruits medicinally important. Sold commercially.				
	Tamarindus indica L.				
Family : Fabaceae					
	Common name/ Vernacular name : Tamarind/ Teteli				
77.	Use: Medicinally very significant. Fruits sold commercially.				
	Tectona grandis L.f.				
	Family : Verbenaceae				
	Common name/ Vernacular name : Segun				
78.	Use: Commercially very important. A high quality timber.				
	Terminalia arjuna Roth.				
	Family : Combretaceae				
	Common name/ Vernacular name : Arjun				
	Use: Medicinally very very important. Bark is extremely significant for the				
79.	production of different medicine.				
	Terminalia chebula (Gaertn.) Tetz.				
	Family : Combretaceae				
	Common name/ Vernacular name : Silikha				
	Use: Medicinally very very important. Fruit is extremely significant for the				
80.	production of different medicine.				
81.	Terminalia myriocarpa Van Heurck & Müll. Arg.				

	Family : Combretaceae
	Common name/ Vernacular name : Halakh
	Use: Very good timber. Commercially very important.
	Zizyphus mauritiana Lamk.
	Family : Rhamnaceae
	Common name/ Vernacular name : Bogori
82.	Use: Fruits are used to produce pickles and eaten directly.

Date: 27 04/16.

То The Finance Officer ' TU

Sub: Submission of UC/SE of project-reg.

Sir.

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With reference to the subject cited above, this is to inform you that the project titled 'documentation, collection and preservation of TU Biodiversity' funded by Tezpur University has been completed. The total sanctioned amount was Rs. 214755/- and expenditure of Rs. 138955/- has been incurred during the project.

Now, I am submitting herewith the UC/SE for the project. Therefore, you are requested to certify the UC/SE so that we can close the project.

This is for your kind perusal and necessary action please.

Thanking you

With best regards

Dr. Ashalata Devi Asstt. Prof. & PI Dept. of Env. Sc. Encl:

- 1. copy of UC/SE
- 2. sanction letter
- 3. letter of Dean R&D reg. fund head.

Title of the project: documentation, collection and preservation of TU Biodiversity

Total sanctioned amount = Rs. **214755.00**

Statement of Expenditure

SI.	Items	Amount (Rs.)	Expenditure	Balance
No.		Sanctioned		
1	Herbarium Sheets	5000.00	5000	Nil
2	Family Covers	2000.00	2000	Nil
3	Herbarium Cabinet	96000.00	60685	35315.00
4	Insect Showcase Cabinet [RI- 64-01]	14062.00	4796	9266.00
5	Insect Box. [RI-61-01]	4275.00	1560	2715.00
6	Insect collecting Net [RI -69- 01]	422.00	Nil	422.00
15	Chemicals	25651.00	15675	9976.00
7	Glassware	24090.00	12155	11935.00
8	Equipment	33255.00	30843	2412.00
9	Other Consumables	10000.00	6241	3759.00
		214755.00	138955.00	75800.00

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Signature of PI