

# **A catalogue of conserved Colocasia accessions at ICAR-CIARI, Port Blair**

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# Introduction

Root and tuber crops are the third important food crops of humankind after cereals and grain legumes, have a remarkable position in the food security of the populations due to its high calorific value and carbohydrate content. Their capacity to grow under rain fed conditions as well as sustainability against the drought condition is considered remarkable.

Andaman and Nicobar Island is a chain of 572 Islands stretched from North to South located about 1200 km of mainland India on longitude 93<sup>0</sup>-94<sup>0</sup> East and latitude 6<sup>0</sup> -17<sup>0</sup> north. Out of these, thirty-eight islands only are inhabited. About 50% of the population is directly dependent of Agriculture & Allied Activities. Only about 6% of the non-forested land in the islands i.e., about 50,000 ha was used for agriculture purposes of which 10561 ha under field crops and 29774 ha under plantation crops. Devastating Tsunami in 2004 has further damaged permanently about 9% (4206 ha) of pre-Tsunami Agriculture Land. Now, half of the agriculture land is used for coconut plantation, 10% is for areca nut and 20% for Fruits, Vegetables and Root Crops and 20% is for Paddy Cultivation. Islands enjoys tropical humid climate and receive rainfall of 3000 mm commencing from May-January and receive both Southwest and Northwest monsoon. The average mean temperature varies from 23° C to 32° C with 70- 90% humidity.

Andaman and Nicobar Islands holds a rich genetic diversity of tropical root and tuber crops viz. Aroids, Yams, and several minor tuber crops. Tubers and aroids are the secondary foods for the settlers but constitute the important diets of the native Nicobari, Onge and Jarawa tribes. The commonly cultivated tropical tuber crops in Andaman & Nicobar Islands are Cassava (*Manihot esculenta*), Sweet potato (*Ipomoea batatas*), Elephant foot yam (*Amorphophallus paeoniifolius*), Taro (*Colocasia esculenta* var. *antiquorum*), Bunda (*Colocasia esculenta* var. *esculenta*), Tannia (*Xanthosoma sagittifolium* and Greater yam (*Dioscorea alata*). Among these, the Greater Yam locally called *Nicobari Aloo* or *Matti aloo* and *Ratalu* is a preferred tuber among the local people, but cultivated in isolated pockets in tribal and non-tribal areas. Whereas, taro is widely cultivated throughout the Islands and the leaves, tubers, stem are used by all Island communities. In Nicobar, it is also used as staple food alongside Greater yam.



A centre of AICRP on Tuber Crops functioning at ICAR-CIARI, Port Blair since the year 2000 has contributed to introduction of improved varieties of tuber crops, improved production, and protection techniques in the Islands besides the extensive collection and utilization of local accessions of different tuber crops. The centre has collected about thirty-five unique types of Colocasia from the remote places of Islands and established the conservatory at ICAR-CIARI, Port Blair.

This catalogue document the morphological and tuber traits of twenty-eight conserved Colocasia accessions at ICAR-CIARI, Port Blair which will be useful for the crop improvement and production of these crops to enhance food security in Islands. The collections included the collections from Andaman and Nicobar group of Islands and two released varieties which are known for their growth, yield, and quality under Island conditions. The accessions are characterised for number of distinguishing traits using standard descriptors prescribed for Colocasia at the Horticulture Farm of ICAR-CIARI, Sippighat, Port Blair. The pictorial documentation of the leaves, growth habit and tuber traits such as shape and cormel production levels were depicted in this catalogue.

# Colocasia

## Taxonomic Information

<b>Kingdom</b>	<i>Plantae</i> - Plants
<b>Subkingdom</b>	<i>Tracheobionta</i> - Vascular plants
<b>Superdivision</b>	<i>Spermatophyta</i> - Seed plants
<b>Division</b>	<i>Magnoliophyta</i> - Flowering plants
<b>Class</b>	<i>Liliopsida</i> - Monocotyledons
<b>Subclass</b>	<i>Arecidae</i>
<b>Order</b>	<i>Arales</i>
<b>Family</b>	<i>Araceae</i>
<b>Genus</b>	<i>Colocasia</i> Schott
<b>Species</b>	<i>Colocasia esculenta</i> L. var. <i>antiquorum</i> <i>Colocasia esculenta</i> L. var. <i>esculenta</i>







## AB-1

Accession name/ number	AB-1
Place of collection	Car Nicobar
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	97.33
Growth Habit	non-fasciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large(>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Sinuate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	87.67
Petiole basal ring colour	Pink
Sheath Length	High (>20 cm)
Plant Span	narrow(<50cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	14.00
Weight of Cormels per plant (g)	169.33
Corm Weight per plant (g)	286.67
Total yield per plant (g)	456.00







## LPB T1

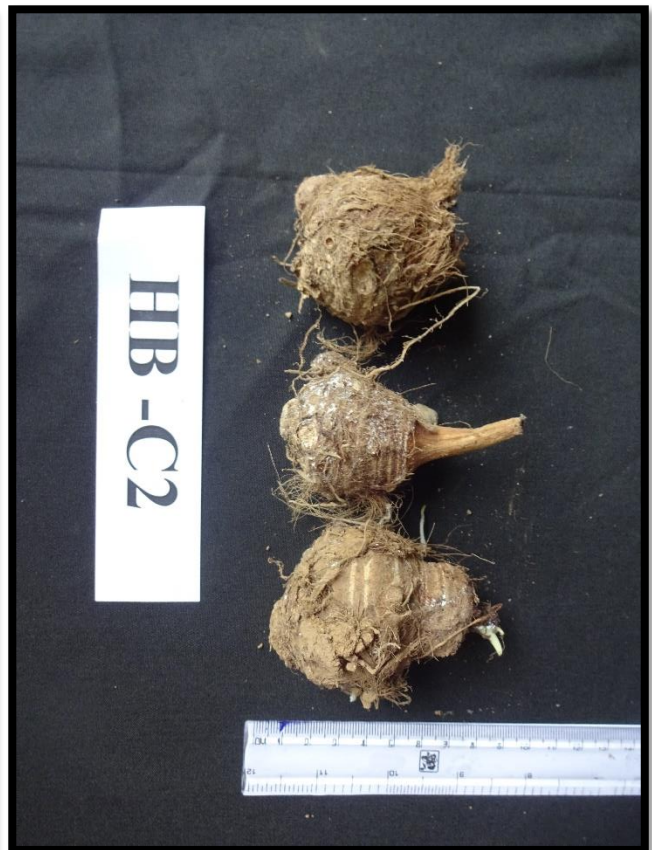
<b>Accession name/ number</b>	LPB T1
<b>Place of collection</b>	Lal Pahar, Chouldari, South Andaman
<b>Year of collection</b>	2020
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	87.00
<b>Growth Habit</b>	non-faciate
<b>Plant Type</b>	Spreading
<b>Position of Leaf</b>	Erect apex down
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large(>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Dark Green
<b>Leaf main vein Colour</b>	Purple
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Entire
<b>Shape of leaf Tip</b>	Slightly Round
<b>Petiole colour</b>	Blackish Purple
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	79.67
<b>Petiole basal ring colour</b>	Purple
<b>Sheath Length</b>	High (>20 cm)
<b>Plant Span</b>	medium(50-100cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Large
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	8.66
<b>Weight of Cormels per plant (g)</b>	252.67
<b>Corm Weight per plant (g)</b>	245.00
<b>Total yield per plant (g)</b>	497.67



## HB C -1 (IC-0623836)

Accession name/ number	HB C -1 (IC-0623836)
Place of collection	Rabindra nagar
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	91.00
Growth Habit	non-faciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Many (>10)
Leaf Length	Medium(14-18cm)
Leaf Width	Medium(10-12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Purple
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Intermediate
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	85.67
Petiole basal ring colour	Purple
Sheath Length	Medium(10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	22.00
Weight of Cormels per plant (g)	542.00
Corm Weight per plant (g)	335.33
Total yield per plant (g)	877.33





## HB C-2 (IC-0623838)

<b>Accession name/ number</b>	HB C-2 (IC-0623838)
<b>Place of collection</b>	VK Pur, South Andaman
<b>Year of collection</b>	2015
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	87.67
<b>Growth Habit</b>	non-Faciate
<b>Plant Type</b>	Erect
<b>Position of Leaf</b>	Cup shaped
<b>Leaf Number</b>	Many (>10)
<b>Leaf Length</b>	Medium(14-18cm)
<b>Leaf Width</b>	Medium(10-12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Green
<b>Leaf main vein Colour</b>	Purple
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Undulate
<b>Shape of leaf Tip</b>	Intermediate
<b>Petiole colour</b>	Light Green
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	82.33
<b>Petiole basal ring colour</b>	Pink
<b>Sheath Length</b>	Medium(10-20cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Medium
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	25.33
<b>Weight of Cormels per plant (g)</b>	578.00
<b>Corm Weight per plant (g)</b>	428.33
<b>Total yield per plant (g)</b>	1006.33





## HB-1

<b>Accession name/ number</b>	HB-1
<b>Place of collection</b>	Harminder Bay, Little Andaman
<b>Year of collection</b>	2013
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	86.70
<b>Growth Habit</b>	non-faciate
<b>Plant Type</b>	Spreading
<b>Position of Leaf</b>	Cup shaped
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large(>12cm)
<b>Cross-section Area</b>	Extra Large
<b>Leaf Colour</b>	Green
<b>Leaf main vein Colour</b>	Green
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Green
<b>Leaf blade margin pattern</b>	Undulate
<b>Shape of leaf Tip</b>	Intermediate
<b>Petiole colour</b>	Light Green
<b>Petiole Junction colour</b>	Green
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	76.12
<b>Petiole basal ring colour</b>	Green
<b>Sheath Length</b>	High (>20 cm)
<b>Plant Span</b>	medium(50-100cm)
<b>Number of stolons</b>	None
<b>Petiole junction pattern</b>	Medium
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	16.11
<b>Weight of Cormels per plant (g)</b>	184.00
<b>Corm Weight per plant (g)</b>	218.33
<b>Total yield per plant (g)</b>	402.33

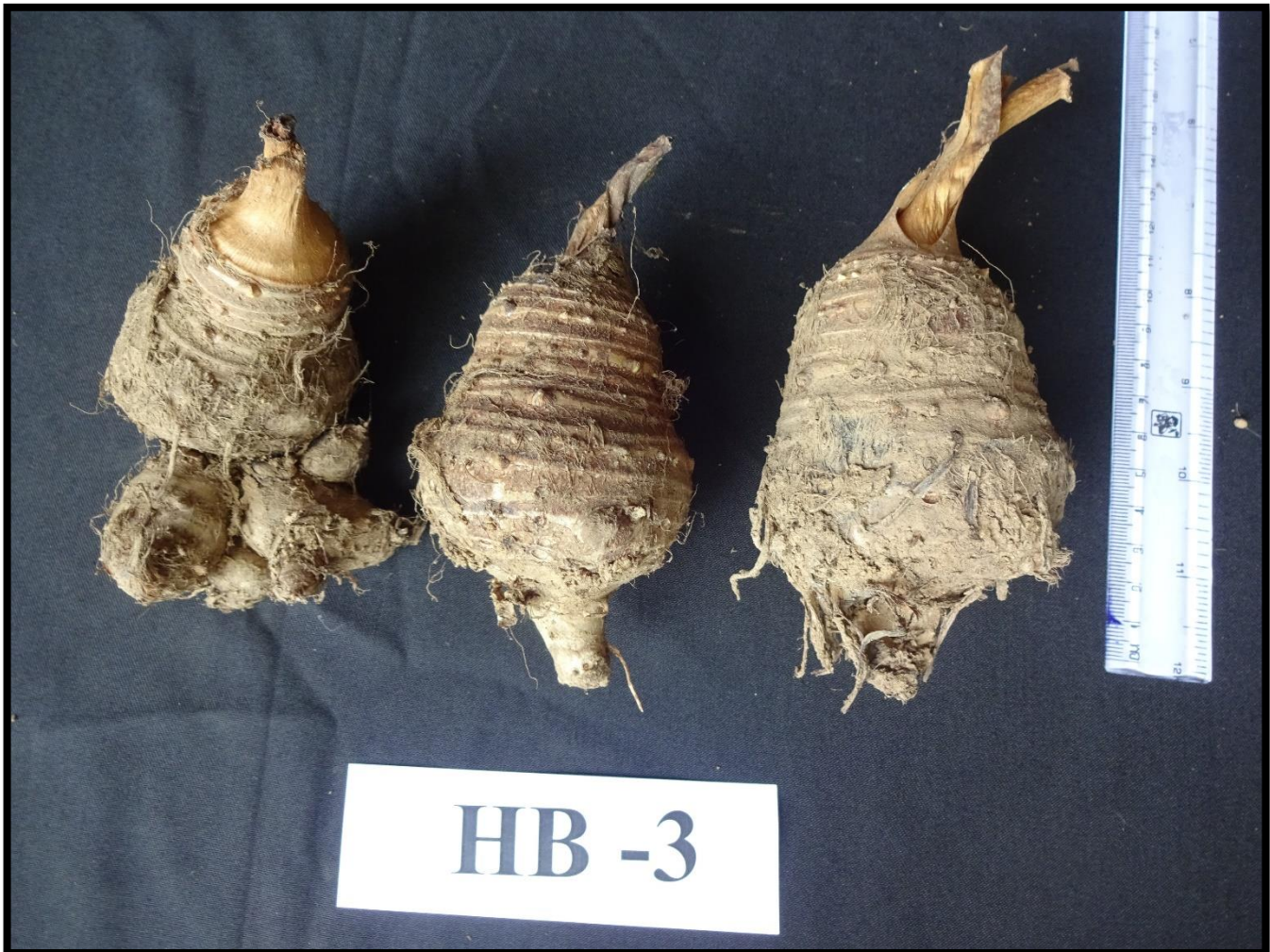




## HB-2

Accession name/ number	HB-2	
Place of collection	Harminder Bay, Little Andaman	
Year of collection	2013	
<b>Plant morphological traits</b>		
Plant Height (cm)		78.62
Growth Habit	non-faciate	
Plant Type	Erect	
Position of Leaf	Cup shaped	
Leaf Number	Few (5-10)	
Leaf Length	Large (>18cm)	
Leaf Width	Large(>12cm)	
Cross-section Area	Extra Large	
Leaf Colour	Green	
Leaf main vein Colour	Green	
Leaf vein Pattern	Y Type	
Leaf blade colour	Green	
Leaf blade margin pattern	Undulate	
Shape of leaf Tip	Intermediate	
Petiole colour	Light Green	
Petiole Junction colour	Green	
Petiole bent at lamina Junction	Low	
Petiole Length (cm)	68.6	
Petiole basal ring colour	Green	
Sheath Length	High (>20 cm)	
Plant Span	medium(50-100cm)	
Number of stolons	None	
Petiole junction pattern	Medium	
<b>Tuber and tuber yield traits</b>		
Number of Cormels per plant	8.00	
Weight of Cormels per plant (g)	288.00	
Corm Weight per plant (g)	208.67	
Total yield per plant (g)	496.67	





## HB-3

Accession name/ number	HB-3
Place of collection	Harminder Bay, Little Andaman
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	55.80
Growth Habit	Faciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Few (5-10)
Leaf Length	Medium(14-18cm)
Leaf Width	Medium(10-12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Yellowish
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	82.03
Petiole basal ring colour	Pink
Sheath Length	Medium(10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	22.66
Weight of Cormels per plant (g)	348.00
Corm Weight per plant (g)	283.00
Total yield per plant (g)	631.00





## HB-4

<b>Accession name/ number</b>	HB-4
<b>Place of collection</b>	Harminder Bay, Little Andaman
<b>Year of collection</b>	2013
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	90.67
<b>Growth Habit</b>	non- Faciate
<b>Plant Type</b>	Spreading
<b>Position of Leaf</b>	Erect apex down
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large (>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Dark Green
<b>Leaf main vein Colour</b>	Purple
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Undulate
<b>Shape of leaf Tip</b>	Slightly Round
<b>Petiole colour</b>	Purple
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	86.30
<b>Petiole basal ring colour</b>	Purple
<b>Sheath Length</b>	Medium(10-20cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Medium
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	15.44
<b>Weight of Cormels per plant (g)</b>	219.67
<b>Corm Weight per plant (g)</b>	279.33
<b>Total yield per plant (g)</b>	499.00





**CARI RT1 (IC-0623834)**

<b>Accession name/ number</b>	CARI RT1 (IC-0623834)
<b>Place of collection</b>	Dhasarathpur, Middle Andaman
<b>Year of collection</b>	2014
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	95.67
<b>Growth Habit</b>	non-faciate
<b>Plant Type</b>	Spreading
<b>Position of Leaf</b>	Erect apex down
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large(>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Dark Green
<b>Leaf main vein Colour</b>	Purple
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Entire
<b>Shape of leaf Tip</b>	Slightly Round
<b>Petiole colour</b>	Blackish Purple
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	86.33
<b>Petiole basal ring colour</b>	Purple
<b>Sheath Length</b>	High (>20 cm)
<b>Plant Span</b>	medium(50-100cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Large
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	11.44
<b>Weight of Cormels per plant (g)</b>	280.00
<b>Corm Weight per plant (g)</b>	340.33
<b>Total yield per plant (g)</b>	620.33





## DT-1 (IC-0623837)

Accession name/ number	DT-1 (IC-0623837)
Place of collection	Keralapuram, North and Middle Andaman
Year of collection	2014
<b>Plant morphological traits</b>	
Plant Height (cm)	87.67
Growth Habit	non-Faciate
Plant Type	Spreading
Position of Leaf	Cup shaped
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	82.47
Petiole basal ring colour	Purple
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	30.33
Weight of Cormels per plant (g)	321.67
Corm Weight per plant (g)	177.33
Total yield per plant (g)	499.00





## DT-2

<b>Accession name/ number</b>	DT-2
<b>Place of collection</b>	Diglipur, North and Middle Andaman
<b>Year of collection</b>	2012
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	78.67
<b>Growth Habit</b>	non-Faciate
<b>Plant Type</b>	Spreading
<b>Position of Leaf</b>	Cup shaped
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large (>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Green
<b>Leaf main vein Colour</b>	Green
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Green
<b>Leaf blade margin pattern</b>	Undulate
<b>Shape of leaf Tip</b>	Pointed
<b>Petiole colour</b>	Light Green
<b>Petiole Junction colour</b>	Green
<b>Petiole bent at lamina Junction</b>	Intermediate
<b>Petiole Length (cm)</b>	62.15
<b>Petiole basal ring colour</b>	Green
<b>Sheath Length</b>	High (>10-20 cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Medium
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	14.67
<b>Weight of Cormels per plant (g)</b>	204.67
<b>Corm Weight per plant (g)</b>	371.00
<b>Total yield per plant (g)</b>	575.67

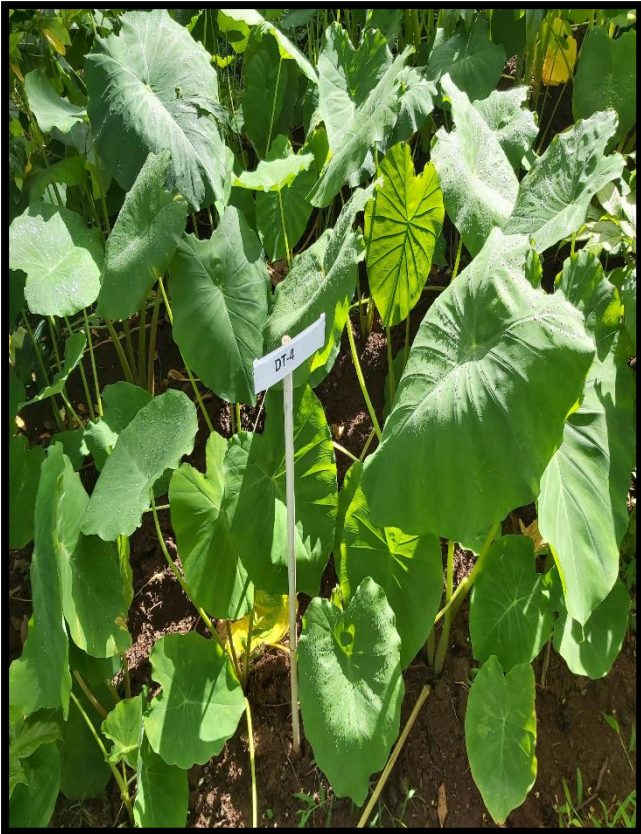




## DT-3

<b>Accession name/ number</b>	DT-3
<b>Place of collection</b>	Diglipur, North and Middle Andaman
<b>Year of collection</b>	2012
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	66.40
<b>Growth Habit</b>	Faciate
<b>Plant Type</b>	Erect
<b>Position of Leaf</b>	Cup shaped
<b>Leaf Number</b>	Many (>10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large (>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Green
<b>Leaf main vein Colour</b>	Green
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Sinuate
<b>Shape of leaf Tip</b>	Pointed
<b>Petiole colour</b>	Light Green
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	61.07
<b>Petiole basal ring colour</b>	Purple
<b>Sheath Length</b>	High (>10-20 cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Medium
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	34.00
<b>Weight of Cormels per plant (g)</b>	231.00
<b>Corm Weight per plant (g)</b>	144.33
<b>Total yield per plant (g)</b>	375.33





## DT-4

Accession name/ number	DT-4
Place of collection	Diglipur, North and Middle Andaman
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	88.33
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Dark Green
Leaf main vein Colour	Purple
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Purple
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	71.40
Petiole basal ring colour	Purple
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	16.67
Weight of Cormels per plant (g)	283.33
Corm Weight per plant (g)	482.33
Total yield per plant (g)	765.67





## BL-1

Accession name/ number	BL-1
Place of collection	Car Nicobar
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	113.33
Growth Habit	non-faciate
Plant Type	Spreading
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large(>12cm)
Cross-section Area	Medium
Leaf Colour	Dark Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Sinuate
Shape of leaf Tip	Pointed
Petiole colour	Reddish Purple
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	106.00
Petiole basal ring colour	Purple
Sheath Length	High (>20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	13.66
Weight of Cormels per plant (g)	271.67
Corm Weight per plant (g)	802.00
Total yield per plant (g)	1073.67





## HL-1

Accession name/ number	HL-1
Place of collection	Havelock, South Andaman
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	93.00
Growth Habit	Faciate
Plant Type	Spreading
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Green
Leaf main vein Colour	Yellow
Leaf vein Pattern	V Type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Round
Petiole colour	Light Green
Petiole Junction colour	Yellow
Petiole bent at lamina Junction	High
Petiole Length (cm)	89.67
Petiole basal ring colour	Green
Sheath Length	High (>10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	None
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	10.33
Weight of Cormels per plant (g)	223.00
Corm Weight per plant (g)	403.00
Total yield per plant (g)	626.00





## Diglipur- B-1

Accession name/ number	Diglipur- B-1
Place of collection	Diglipur, North and Middle Andaman
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	76.00
Growth Habit	non-Faciate
Plant Type	Spreading
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Dark Green
Leaf main vein Colour	Green
Leaf vein Pattern	V Type
Leaf blade colour	Green
Leaf blade margin pattern	Sinuate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Green
Petiole bent at lamina Junction	Low
Petiole Length (cm)	67.00
Petiole basal ring colour	Green
Sheath Length	High (>10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	24.44
Weight of Cormels per plant (g)	207.33
Corm Weight per plant (g)	137.00
Total yield per plant (g)	344.33







## Diglipur Round

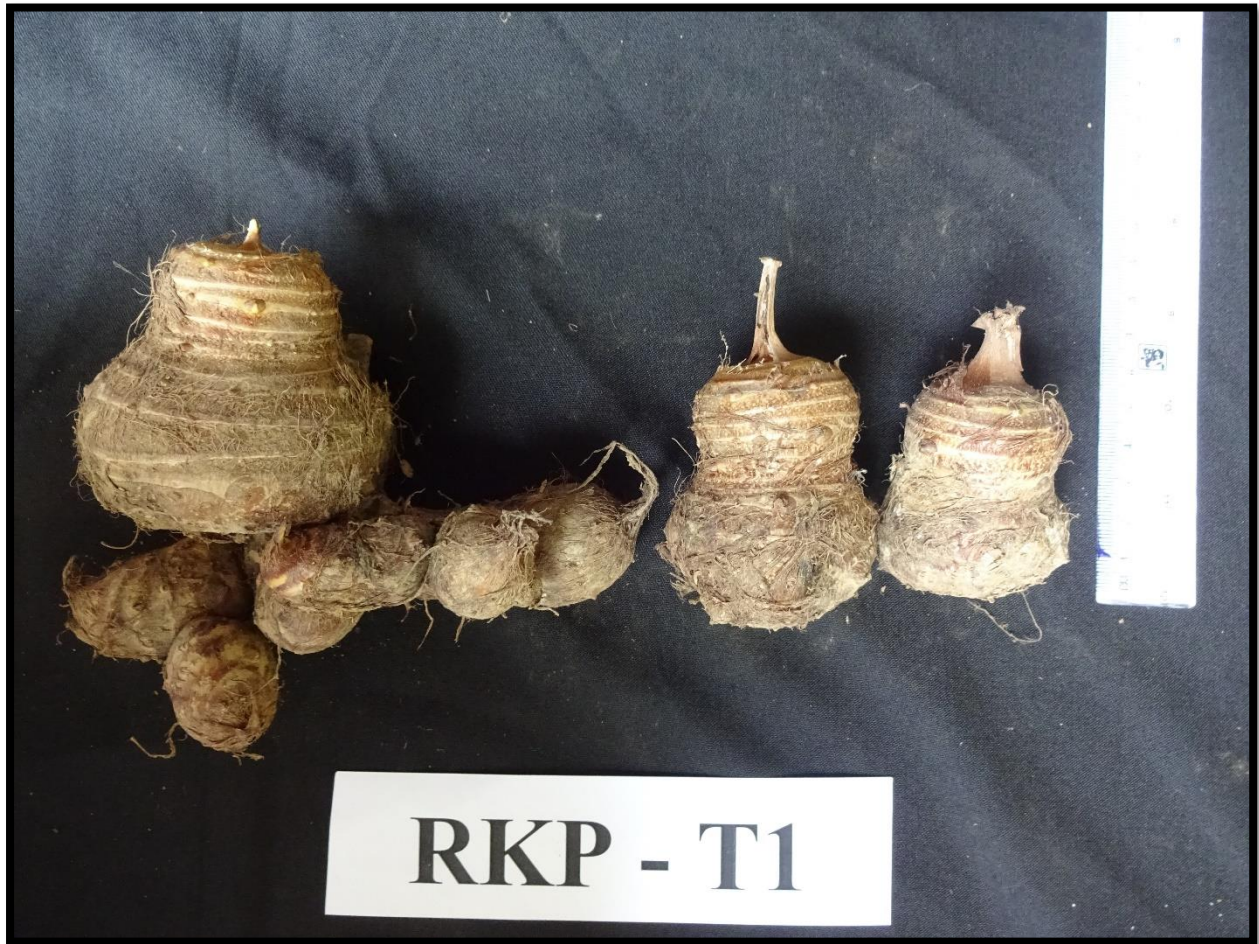
Accession name/ number	Diglipur Round
Place of collection	Diglipur, North and Middle Andaman
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	103.00
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Many (>10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Dark Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Sinuate
Shape of leaf Tip	Intermediate
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	97.00
Petiole basal ring colour	Purple
Sheath Length	High (>10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	14.33
Weight of Cormels per plant (g)	262.00
Corm Weight per plant (g)	454.33
Total yield per plant (g)	716.33





## Rangat Local

<b>Accession name/ number</b>	Rangat Local
<b>Place of collection</b>	Rangat, North and Middle Andaman
<b>Year of collection</b>	2013
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	75.90
<b>Growth Habit</b>	non-Faciate
<b>Plant Type</b>	Erect
<b>Position of Leaf</b>	Erect apex down
<b>Leaf Number</b>	Few (5-10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large (>12cm)
<b>Cross-section Area</b>	Extra Large
<b>Leaf Colour</b>	Dark Green
<b>Leaf main vein Colour</b>	Purple
<b>Leaf vein Pattern</b>	V Type
<b>Leaf blade colour</b>	Green
<b>Leaf blade margin pattern</b>	Sinulate
<b>Shape of leaf Tip</b>	Pointed
<b>Petiole colour</b>	Purple
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Intermediate
<b>Petiole Length (cm)</b>	70.93
<b>Petiole basal ring colour</b>	Purple
<b>Sheath Length</b>	High (>10-20 cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Large
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	13.67
<b>Weight of Cormels per plant (g)</b>	222.67
<b>Corm Weight per plant (g)</b>	267.33
<b>Total yield per plant (g)</b>	490.00





## RKP-T1

Accession name/ number	RKP-T1
Place of collection	RK Pur, Little Andaman
Year of collection	2017
<b>Plant morphological traits</b>	
Plant Height (cm)	72.30
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Many (>10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Yellowish
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Sinuate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	67.37
Petiole basal ring colour	Pink
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	17.33
Weight of Cormels per plant (g)	142.67
Corm Weight per plant (g)	170.33
Total yield per plant (g)	313.00





## RKP-C-1

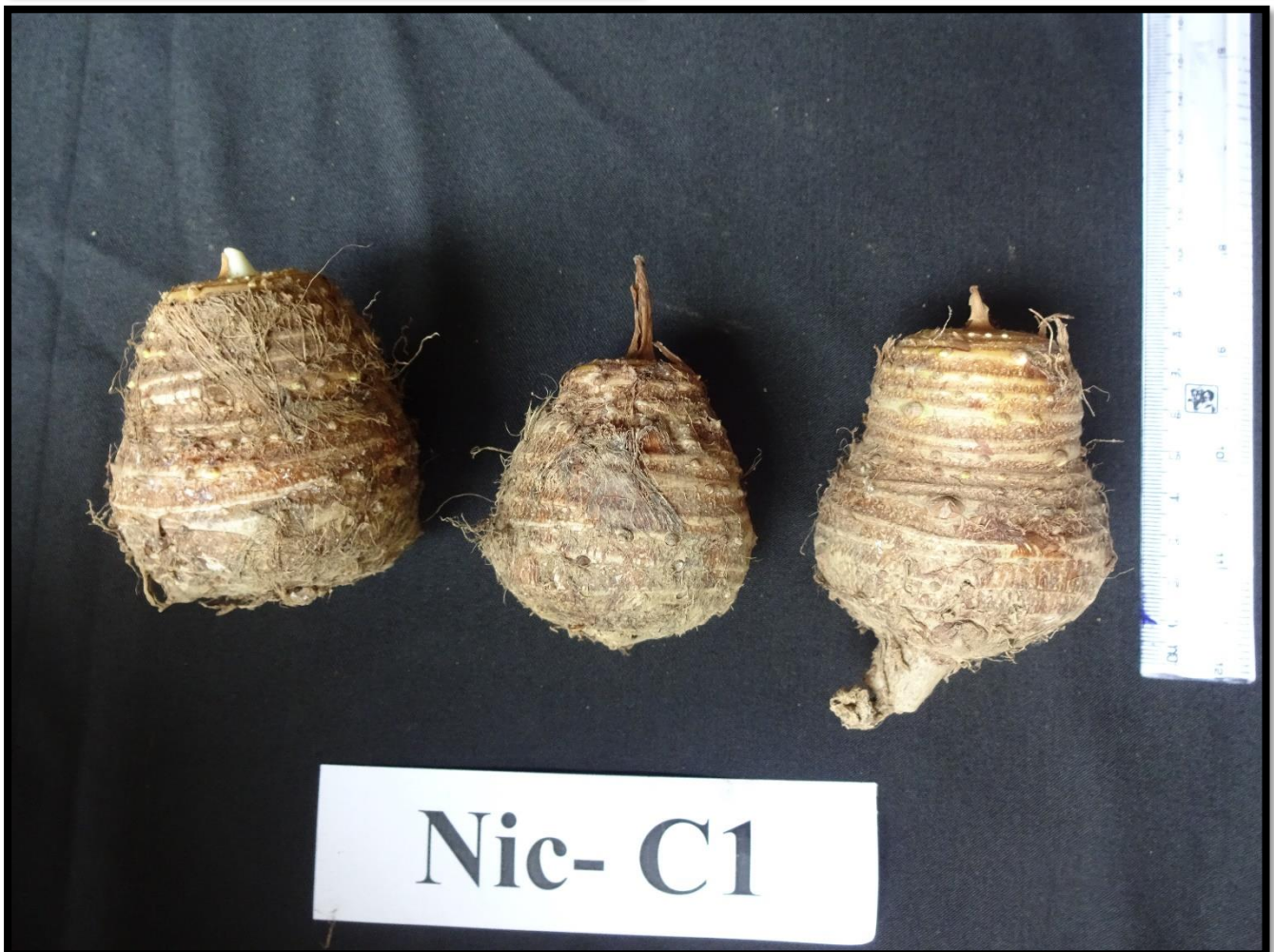
Accession name/ number	RKP-C-1
Place of collection	RK Pur, Little Andaman
Year of collection	2017
<b>Plant morphological traits</b>	
Plant Height (cm)	97.17
Growth Habit	Faciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Many (>10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Slightly Round
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	90.80
Petiole basal ring colour	Purple
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	16.13
Weight of Cormels per plant (g)	222.33
Corm Weight per plant (g)	231.00
Total yield per plant (g)	453.33





## L1 T1

Accession name/ number	L1 T1
Place of collection	Long Island
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	91.23
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Cup shaped
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Purple
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Light Green
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Low
Petiole Length (cm)	75.97
Petiole basal ring colour	Pink
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	17.00
Weight of Cormels per plant (g)	211.33
Corm Weight per plant (g)	216.00
Total yield per plant (g)	427.33





## NIC-C-1 (IC-0623835)

<b>Accession name/ number</b>	NIC-C-1 (IC-0623835)
<b>Place of collection</b>	Chuckchucka, Car Nicobar
<b>Year of collection</b>	2013
<b>Plant morphological traits</b>	
<b>Plant Height (cm)</b>	84.53
<b>Growth Habit</b>	non-Faciate
<b>Plant Type</b>	Erect
<b>Position of Leaf</b>	Cup shaped
<b>Leaf Number</b>	Many (>10)
<b>Leaf Length</b>	Large (>18cm)
<b>Leaf Width</b>	Large (>12cm)
<b>Cross-section Area</b>	Medium
<b>Leaf Colour</b>	Dark Green
<b>Leaf main vein Colour</b>	Green
<b>Leaf vein Pattern</b>	Y Type
<b>Leaf blade colour</b>	Purple
<b>Leaf blade margin pattern</b>	Sinuate
<b>Shape of leaf Tip</b>	Pointed
<b>Petiole colour</b>	Green
<b>Petiole Junction colour</b>	Purple
<b>Petiole bent at lamina Junction</b>	Low
<b>Petiole Length (cm)</b>	82.53
<b>Petiole basal ring colour</b>	Pink
<b>Sheath Length</b>	High (>10-20 cm)
<b>Plant Span</b>	Narrow (< 50 cm)
<b>Number of stolons</b>	(1-5)
<b>Petiole junction pattern</b>	Large
<b>Tuber and tuber yield traits</b>	
<b>Number of Cormels per plant</b>	12.44
<b>Weight of Cormels per plant (g)</b>	272.67
<b>Corm Weight per plant (g)</b>	240.00
<b>Total yield per plant (g)</b>	512.67

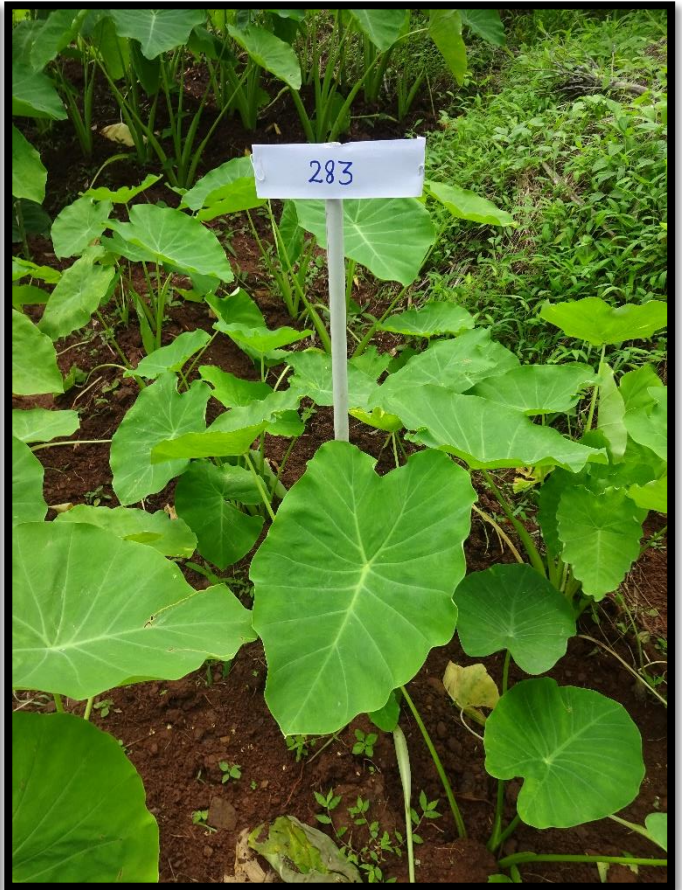




## C 262 (IC-630975)

Accession name/ number	C 262 (IC-630975)
Place of collection	Katchal Island, Nicobar
Year of collection	2019
<b>Plant morphological traits</b>	
Plant Height (cm)	73.60
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Dark Green
Leaf main vein Colour	Purple
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Purple
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	94.57
Petiole basal ring colour	Purple
Sheath Length	High (>10-20 cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	12.00
Weight of Cormels per plant (g)	284.33
Corm Weight per plant (g)	418.67
Total yield per plant (g)	703.00







## C-283 (IC-630980)

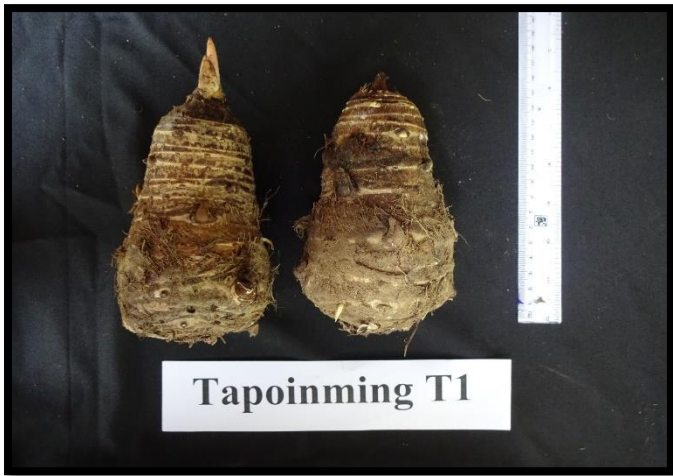
Accession name/ number	C-283 (IC 630980)
Place of collection	Terrasa Island, Nicobar
Year of collection	2019
<b>Plant morphological traits</b>	
Plant Height (cm)	51.52
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	V type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Green
Petiole Junction colour	Green
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	49.42
Petiole basal ring colour	Green
Sheath Length	Medium(10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	17.33
Weight of Cormels per plant (g)	191.00
Corm Weight per plant (g)	233.00
Total yield per plant (g)	424.00





## C 20/23

Accession name/ number	C 20/23
Place of collection	South Andaman
Year of collection	2020
<b>Plant morphological traits</b>	
Plant Height (cm)	62.84
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Medium
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	V type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Greenish purple
Petiole Junction colour	Purple
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	51.2
Petiole basal ring colour	Green
Sheath Length	Medium(10-20cm)
Plant Span	Narrow (< 50 cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	19.77
Weight of Cormels per plant (g)	294.00
Corm Weight per plant (g)	266.67
Total yield per plant (g)	560.67





## T 1 (Tapoinming)

Accession name/ number	T 1 (Tapoinming)
Place of collection	Car Nicobar
Year of collection	2013
<b>Plant morphological traits</b>	
Plant Height (cm)	122.42
Growth Habit	non-Faciate
Plant Type	Erect
Position of Leaf	Erect apex down
Leaf Number	Many (>10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Pointed
Petiole colour	Green
Petiole Junction colour	Green
Petiole bent at lamina Junction	Low
Petiole Length (cm)	95.76
Petiole basal ring colour	Green
Sheath Length	High (>10-20 cm)
Plant Span	medium(50-100cm)
Number of stolons	(1-5)
Petiole junction pattern	Medium
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	17.33
Weight of Cormels per plant (g)	142.67
Corm Weight per plant (g)	170.33
Total yield per plant (g)	313.00





## Sree Kiran

Accession name/ number	Sree Kiran
Place of collection	ICAR-CTCRI, Thiruvananthapuram
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	92.14
Growth Habit	non-Faciate
Plant Type	Spreading
Position of Leaf	Cup shaped
Leaf Number	Many (>10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Undulate
Shape of leaf Tip	Slightly Round
Petiole colour	Green
Petiole Junction colour	Green
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	75.46
Petiole basal ring colour	Green
Sheath Length	High (>10-20 cm)
Plant Span	medium(50-100cm)
Number of stolons	None
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	19.87
Weight of Cormels per plant (g)	304.67
Corm Weight per plant (g)	266.00
Total yield per plant (g)	570.67





## Sree Rashmi

Accession name/ number	Sree Rashmi
Place of collection	ICAR-CTCRI, Thiruvananthapuram
Year of collection	2012
<b>Plant morphological traits</b>	
Plant Height (cm)	54.67
Growth Habit	non-Faciate
Plant Type	Spreading
Position of Leaf	Cup shaped
Leaf Number	Few (5-10)
Leaf Length	Large (>18cm)
Leaf Width	Large (>12cm)
Cross-section Area	Extra Large
Leaf Colour	Green
Leaf main vein Colour	Green
Leaf vein Pattern	Y Type
Leaf blade colour	Green
Leaf blade margin pattern	Entire
Shape of leaf Tip	Slightly Round
Petiole colour	Green
Petiole Junction colour	Green
Petiole bent at lamina Junction	Intermediate
Petiole Length (cm)	41.54
Petiole basal ring colour	Green
Sheath Length	Medium(10-20cm)
Plant Span	medium(50-100cm)
Number of stolons	None
Petiole junction pattern	Large
<b>Tuber and tuber yield traits</b>	
Number of Cormels per plant	20.71
Weight of Cormels per plant (g)	212.67
Corm Weight per plant (g)	201.33
Total yield per plant (g)	414.00