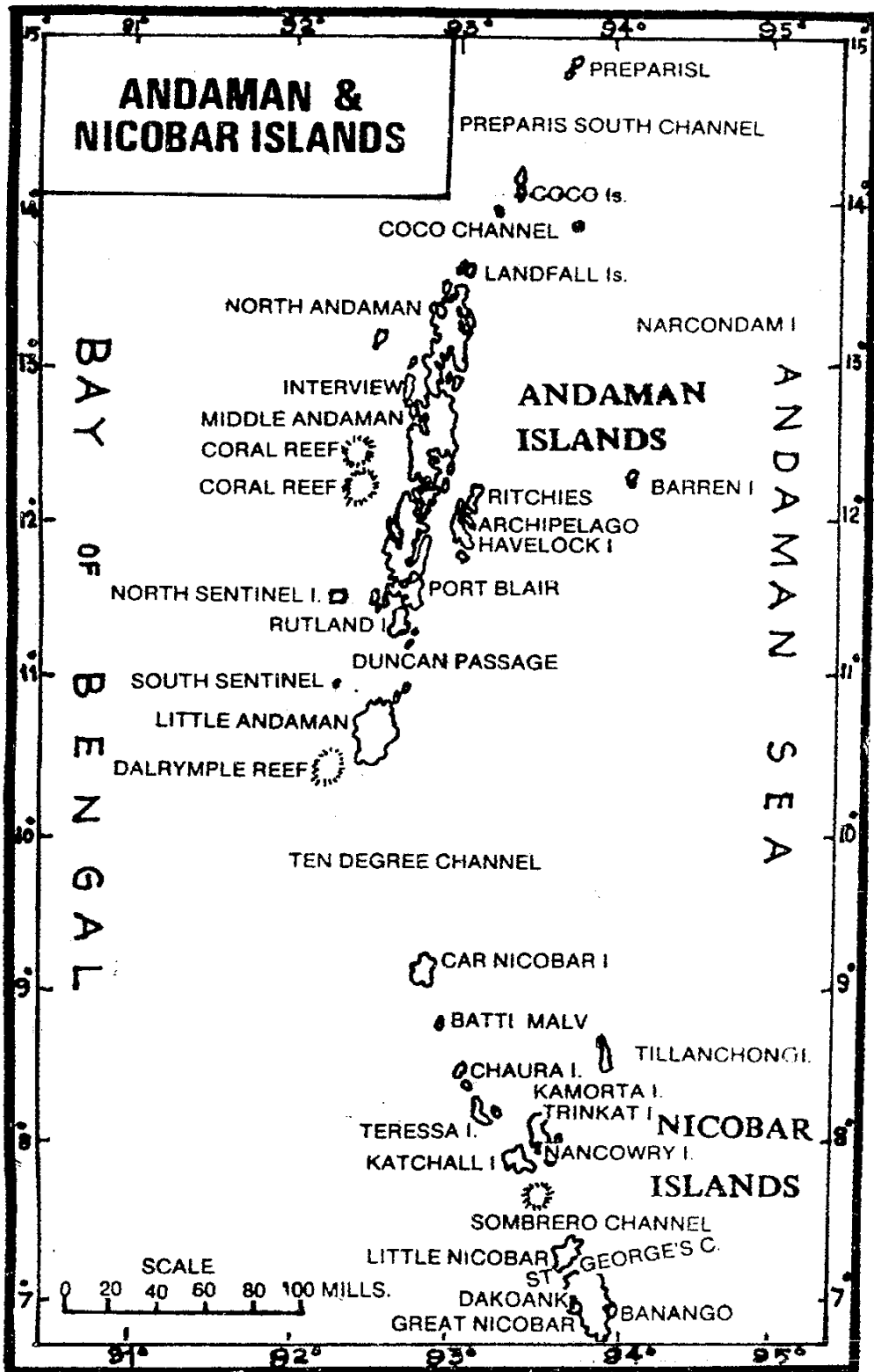
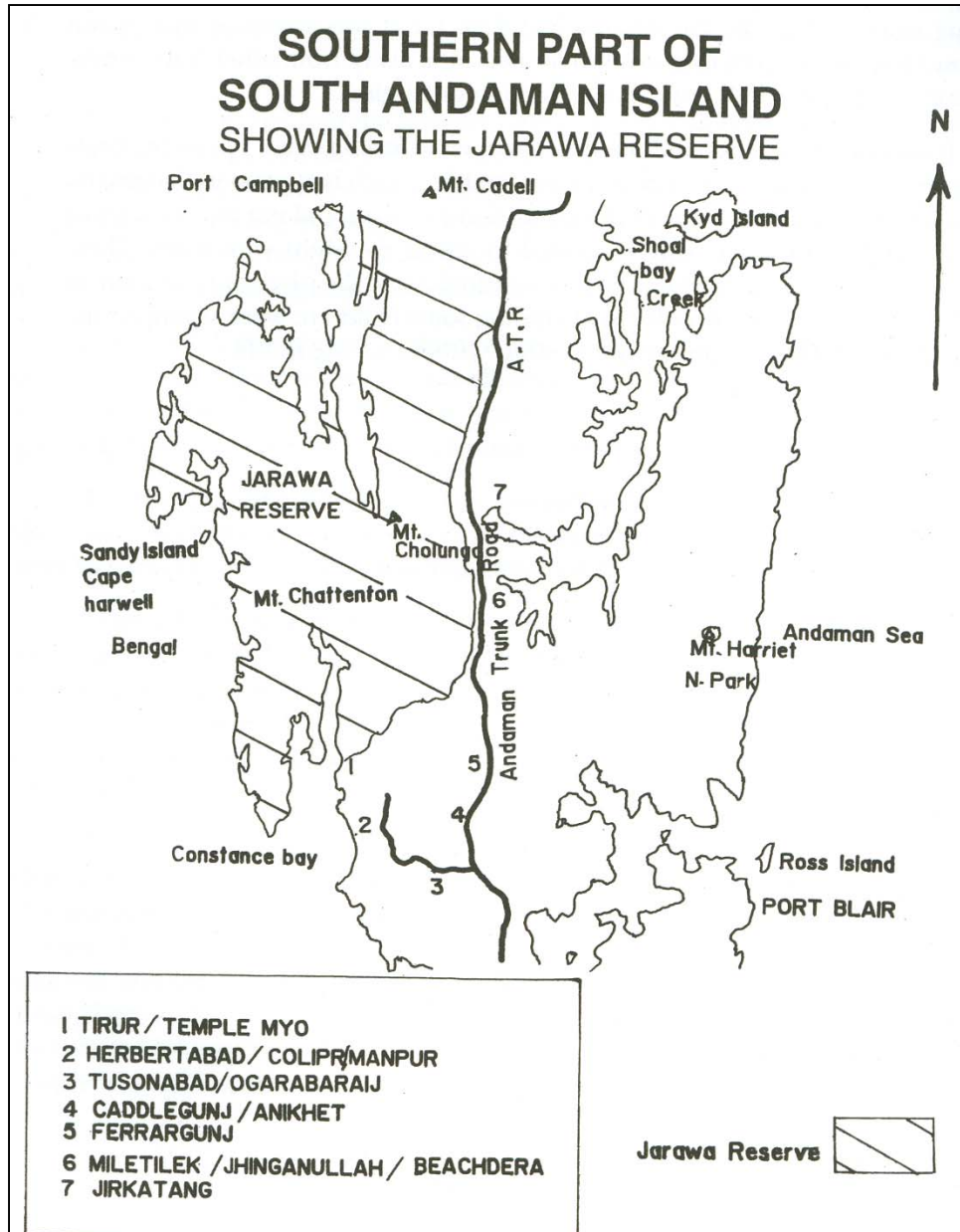


MAP 1



MAP 2



Not to Scale

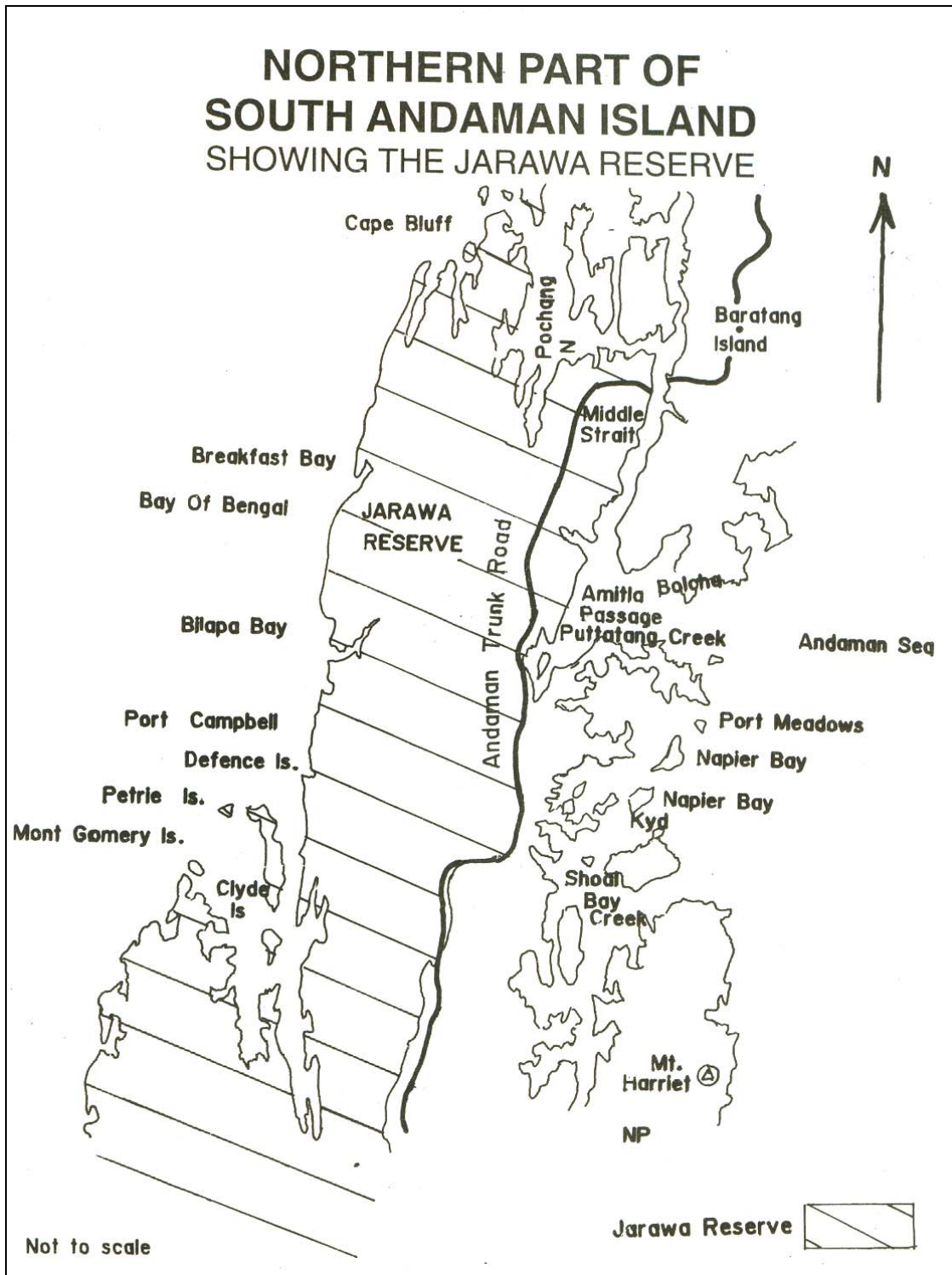
Source:

Mukhopadhyay K, R.K.Bhattacharya & B.N. Sarkar (Editors), 2002.

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OURS WITH THEM THEIRS WITH US

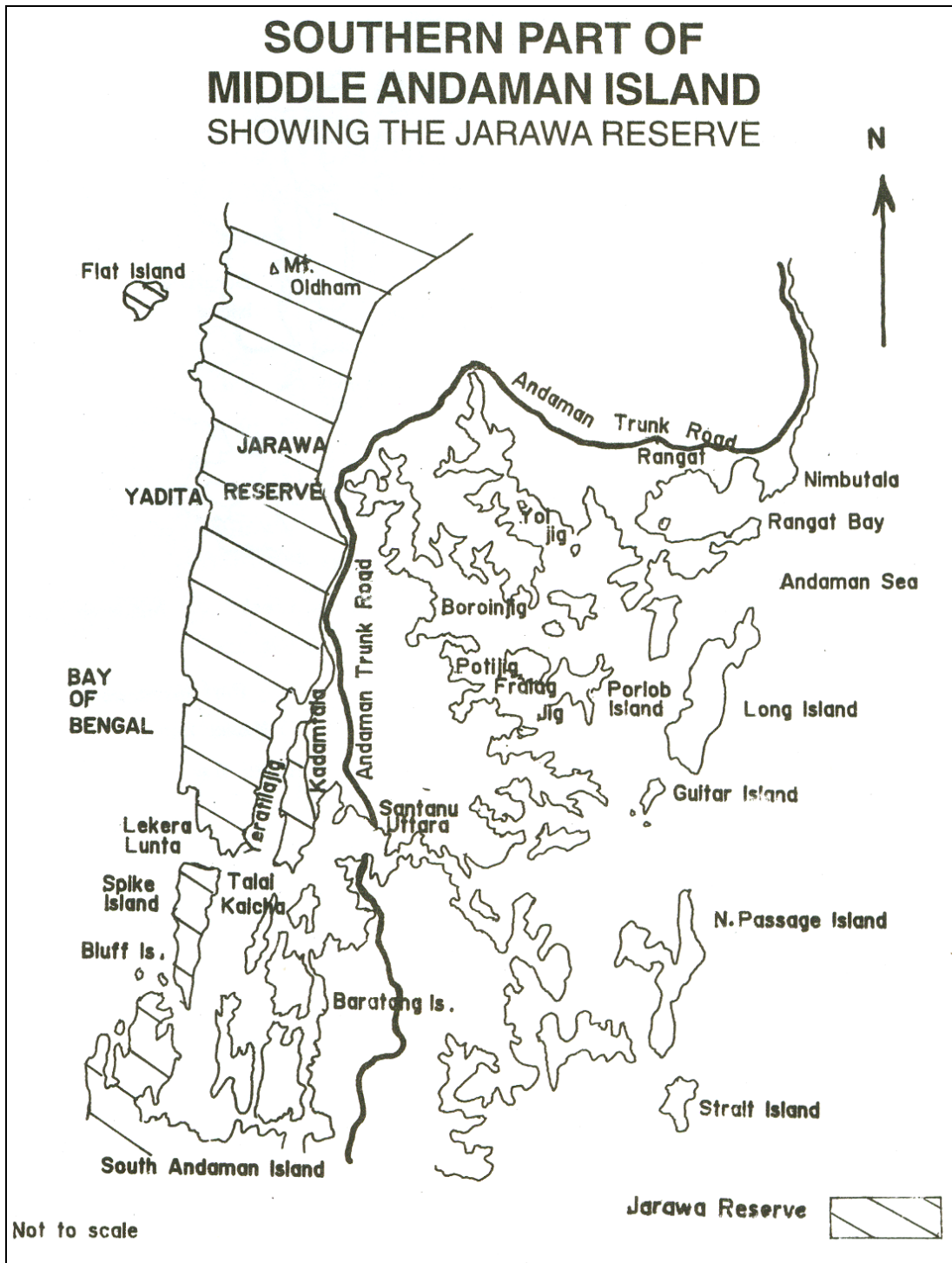
MAP 3



Source: Mukhopadhyay K, R.K.Bhattacharya & B.N. Sarkar (Editors), 2002.

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MAP 4



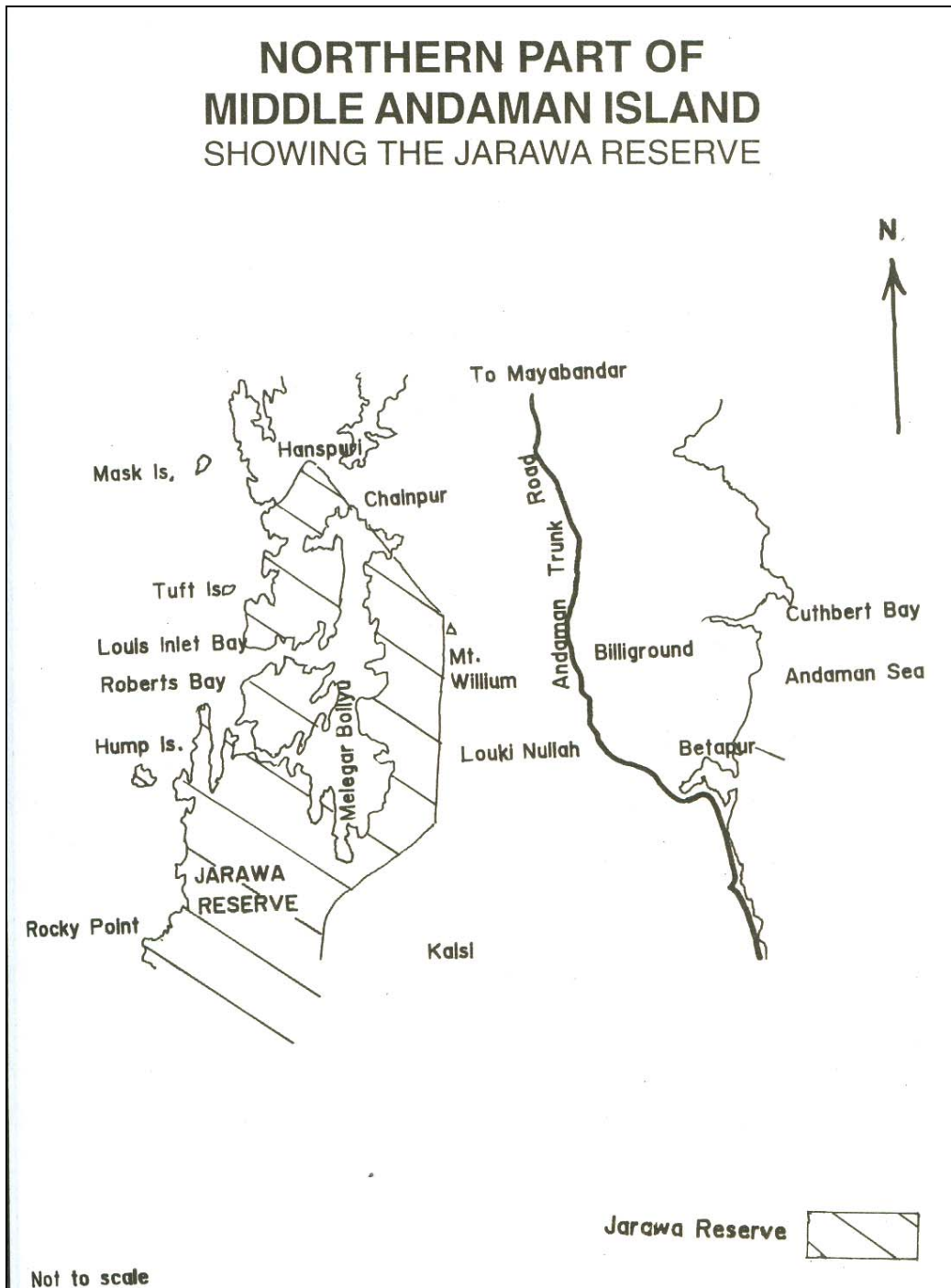
Source:

Mukhopadhyay K, R.K.Bhattacharya & B.N. Sarkar (Editors), 2002.

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MAP 5



Source:

Mukhopadhyay K, R.K.Bhattacharya & B.N. Sarkar (Editors), 2002.

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Appendix

Table 5.1: Quantity assessment on broad scale of edible plant species

(3.2) I.R

Sl No.	Species	Phase 1	Phase 2	Phase 3	Edible part
1	<i>Alstonia scholaris</i> (Chatian)	Adequate	Adequate	-	Fruit
2	<i>Amomum aculeatum</i> (J/haldi)	-	-	Adequate	Fruit
3	<i>Anthocephalus chinensis</i>	-	-	Adequate	Fruit
4	<i>Artabotrys speciosus</i>	-	Adequate	Adequate	Pulp
5	<i>Artocarpus chaplasha</i> (Toung-Peinne)	Adequate	Adequate	Plenty	Fruit
6	<i>Artocarpus lakoocha</i> (Lakuch)	Adequate	Adequate	-	Fruit
7	<i>Baccaurea ramiflora</i> (Khatta phal)	Adequate	Adequate	Plenty	Fruit
8	<i>Calamus andamanicus</i>	Plenty	Plenty	Plenty	Fruit
9	<i>Caryota mitis</i> (Maripatti)	-	-	Plenty	Tender shoot
10	<i>Cycas rumphii</i> (Arguna)	Adequate	Adequate	Plenty	Fruit
11	<i>Desmos cochinchinensis</i>	--	--	Scarce	Fruit
12	<i>Dioscorea bulbifera</i>	Adequate	Adequate	Plenty	Tuber
13	<i>Dioscorea pentaphylla</i>	Adequate	Adequate	Plenty	Tuber
14	<i>Dioscorea vexans</i>	Adequate	Adequate	Plenty	Tuber
15	<i>Dioscorea glabra</i>	Adequate	Adequate	Plenty	Tuber
16	<i>Dillenia andamanica</i>	--	--	Scarce	Fruit
17	<i>Dinochloa andamanica</i>	Adequate	Adequate	Adequate	Tendershoot
18	<i>Diospyros andamanica</i> (Tendu)	Adequate	Adequate	Plenty	Fruit
19	<i>Diploclisia glaucescens</i>	-	Adequate	Adequate	Fruit
20	<i>Dolichandrone speathacea</i>	--	Adequate	--	Fruit
21	<i>Donax cannaeformis</i>	Adequate	--	--	Fruit
22	<i>Dracantomelon dao</i>	Adequate	--	--	Fruit
23	<i>Elaeagnus latifolia</i> (Khata phal)	-	-	Adequate	Fruit
24	<i>Entada pursetha</i>	Adequate	Adequate	Adequate	Kernel
25	<i>Ficus racemosa</i>	Adequate	--	--	Fruit
26	<i>Garcinia kawa</i> (Cauphala)	-	-	Adequate	Fruit
27	<i>Garcinia Xanthochymus</i> (Lal phal)	-	-	Adequate	Fruit
28	<i>Garcinia microstigma</i>	--	Plenty	--	Fruit
29	<i>Garcinia speciosa</i>	--	Plenty	--	Fruit
30	<i>Mangifera andamanica</i> (Jungli aam)	Adequate	Adequate	Plenty	Fruit
31	<i>Manilkara littoralis</i>	--	--	Plenty	Fruit
32	<i>Mimusops elengi</i>	--	--	Plenty	Fruit
33	<i>Mimusops littoralis</i> (Sea mohua)	Adequate	Adequate	Adequate	Fruit
34	<i>Musa sapientum</i> (J/kela)	-	-	Plenty	Fruit
35	<i>Myristica spp.</i> (Jaiphal)	Adequate	Plenty	-	Fruit
36	<i>Nypa fruticans</i> (Dhani phal)	Plenty	Plenty	Plenty	Nut
37	<i>Oroxylum indicum</i>	--	Adequate	--	Fruit
38	<i>Pandanus andamanensis</i> (Keora)	Adequate	Adequate	Plenty	Fruit

39	<i>Parishia insignis</i> (Red Dhoop)	--	--	Adequate	Fruit
40	<i>Phoenix paludosa</i> (J/khajur)	-	-	Adequate	Fruit
41	<i>Phrynium pubnerve</i>	--	Adequate	Adequate	Fruit
42	<i>Pinanga costata</i> (Kumba)	Adequate	Adequate	Plenty	Tender shoot
43	<i>Pinanga kuhlii</i>	--	--	Adequate	Tendershoot
44	<i>Pinanga manii</i>	--	--	Adequate	Tendershoot
45	<i>Piper betle</i> (Wild Pan)	Plenty	Plenty	-	Leaves
46	<i>Pometia pinnata</i> (Thitkandu)	Adequate	Adequate	Plenty	Fruit
47	<i>Prunus martabanica</i>	--	Adequate	--	Fruit
48	<i>Rubus moluccanus</i>	--	Adequate	--	Fruit
49	<i>Sideroxylon longepetiolatum</i> (Lamba patti)	Adequate	Adequate	Adequate	Fruit
50	<i>Spondias mangifera</i> (Ambara)	-	-	Adequate	Fruit
51	<i>Spondias pinnata</i>	--	--	Adequate	Fruit
52	<i>Sterculia rubiginosa</i>	--	--	Adequate	Seed
53	<i>Terminalia catappa</i>	Adequate	Adequate	Adequate	Nut
54	<i>Terminalia procera</i> (Badam)	Adequate	Adequate	Plenty	Fruit
55	<i>Zimonia americana</i>			Scarce	Fruit

Table 5.2: Plants used by Jarawas for Medicinal Purposes

3.6 I.R

S. No.	Name of Species	Jarawa Name if known	Parts used
1.	<i>Ageratum conyzoides</i> L. (Asteraceae)	Aaktel	Tender shoot tide or on neck for fever and throat pain.
2.	<i>Amomum aculeatum</i> Roxb. (Zingiberaceae)	Uiyaw	Leaf and stem tied around chest for cough and fever; Leaf juice applied on scar
3.	<i>Angiopteris lygodiifolia</i> Roscut. (Angiopteridaceae)	-	Fronds worn around chest for cough and cold.
4.	<i>Chromolaena odorata</i> (L.) R.M. King & Robins (Asteraceae)	-	Leaves used as coagulant, particularly very effective on leech-bite.
5.	<i>Dracaena angustifolia</i> Roxb. (Agavaceae)	Tidba	Bark of twig peeled off and the latter used to clean genitals during menstruation period
6.	<i>D. brachyphylla</i> Kurz (Agavaceae)	-	-do-
7.	<i>D. pachyphylla</i> Kurz (Agavaceae)	-	-do-
8.	<i>Knema andamanica</i> (Warb.) de wilde (Myristicaceae)	Oro, Aurw	Bark and leaf coagulant

9.	<i>Myristica andamanica</i> <i>Hook.f.</i> (Myristicaceae)	Oro	Leaf and twig used as garland when sick, Leaves used to stop bleeding.
10.	<i>Pandanus andamanensis</i> <i>Kurz</i> (Pandanaceae)	Thadow/Paliyu	Tied to the body for body pain.
11.	<i>Piper betle L.</i> (Piperaceae)	Intoto	Leaf wrapped around body for pain
12.	<i>Pseuduvaria prainii</i> (<i>King.</i>) <i>Merr.</i> (Annonaceae)	Hoomal	Leaves wrapped around body for cough and fever
13.	<i>Syzygium samarangense</i> (<i>Bl.</i>) <i>Merr. & Perry</i> (Myrtaceae)	-	Leaf wrapped around head in fever.
14.	<i>Thottea tomentosa (Bl.)</i> <i>Ding Hou</i> (Aristolochiaceae)	Udupet	Whole plant worn around chest, head and waist for remedy of cough and fever
15.	<i>Trichosanthes bracteata</i> (<i>Lamk.</i>) <i>Voigt.</i> (Cucurbitaceae)	Urubethe	Whole plant wrapped around throat for throat infection

Table 5.3: Plants used for Construction of Huts by Jarawas

3.7 I.R

S. No.	Name of Species Plants for shelter	Jarawa Name if known	Parts used
1.	<i>Antidesma velutinum</i> Tul. (Euphorbiaceae)	-	Stem for house post.
2.	<i>Areca triandra</i> Roxb. (Arecaceae)	Tulu	-do-
3.	<i>Baccaurea ramiflora</i> Lour. (Euphorbiaceae)	Keen	-do-
4.	<i>Calamus andamanicus</i> Kurz (Arecaceae)	Ottang	Leaf for thatching
5.	<i>C. grandis</i> Kurz (Arecaceae)	Totanahi	-do-
6.	<i>C. longisetus</i> Griff. (Arecaceae)	-	-do-
7.	<i>C. pseudorivalis</i> Becc. (Arecaceae)	Tiele	-do-
8.	<i>C. viminalis</i> Willd. (Arecaceae)	Totanahi	-do-
9.	<i>Caryota mitis</i> Lour. (Arecaceae)	Indau	-do-
10.	<i>Daemonorops kurzianus</i> Hook. f. (Arecaceae)	-	-do-
11.	<i>Knema andamanica</i> (Warb.) de Wilde (Myristicaceae)	Oro, Aurw.	Stem for house post.
12.	<i>Lagerstroemia hypoleuca</i> kurz (Lythraceae)	Leiya	-do-
13.	<i>Leea indica</i> (Burm.f.) Merr. (Leeaceae)	Ele	-do-
14.	<i>L. macrophylla</i> Roxb. ex Hornem (Leeaceae)	Elea	-do-
15.	<i>Licuala peltata</i> Roxb. (Arecaceae)	Popo	Leaf for thatching.
16.	<i>L. macrophylla</i> Roxb. ex Hornem (Arecaceae)	-	-do-
17.	<i>Musa sapientum</i> L. (Musaceae)	Chone	-do-
18.	<i>Mussaenda macrophylla</i> Wall. (Rubiaceae)	Bukhala	Stem for house post.
19.	<i>Nypa fruitcans</i> Wurmb. (Arecaceae)	Thuiya	Leaf for thatching.
20.	<i>Rinorea bengalensis</i> (Wall.) O. Kuntze (Violaceae)	-	Stem for house post.

Table 5.4: Plants used for adornment by Jarawas

3.8 -I.R

S. No.	Name of Species	Jarawa Name (if known)	Parts used
1.	(i). <u>Ornamentation (Head Band, Necklace, Garland, Armlet) :</u>		
2.	<i>Acacia auriculiformis</i> A. cunn. (Mimosaceae)	Dema	Flowers.
3.	<i>Adenanthera pavonina</i> L. (Mimosaceae)	-	Flowers.
4.	<i>Amomum aculeatum</i> Roxb. (Zingiberaceae)	Uiyaw	Leaf.
5.	<i>Anaxogorea luzonensis</i> A. Grey (Annonaceae)	-	Flowers.
6.	<i>Artabotrys speciosus</i> Kurz ex Brum f. (Annonaceae)	Thewagelib	Fruits used in garlands.
7.	<i>Barringtonia asiatica</i> (L.) Kurz (Lecythidaceae)	Mangyanw	Flowers.
8.	<i>B. racemosa</i> (L.) Spreng (Lecythidaceae)	Mangyanw	Flowers.
9.	<i>Bombax insigne</i> Wall. (Bombacaceae)	Didu	Flowers.
10.	<i>Caesalpinia crista</i> L. (Caesalpiniaceae)	-	Flowers.
11.	<i>Calophyllum inophyllum</i> L. (Clusiaceae)	-	Flowers.
12.	<i>Canavalia cathartica</i> Thou. (Fabaceae)	-	Flowers.
13.	<i>Cassia alata</i> (Caesalpiniaceae)	-	Flowers.
14.	<i>Cerbera manghas</i> L. (Apocynaceae)	Hokotat	Flowers.
15.	<i>Chonemorpha fragrans</i> (Moon.) Alst. (Apocynaceae)	-	Flowers.
16.	<i>Codiocarpus andamanicus</i> (Kurz)	-	Flowers
17.	<i>Howard</i> (Icacinaceae)		
18.	<i>Combretum latifolium</i> Bl. (Combretaceae)	Inettoa	Fruit.
19.	<i>Cymbidium aloefolium</i> (L.) Sw. (Orchidaceae)	-	Flowers

20.	<i>Cynometra ramiflora</i> (Frost.) Seem (Caesalpiniaceae)	Antang	Flowers tied as garlands.
21.	<i>Dendrobium crumenatum</i> Sw. (Orchidaceae)	Taon	Flowers.
22.	<i>D. formosum</i> Roxb. (Orchidaceae)	-	Flowers.
23.	<i>D. secundum</i> (Bl.) Lindl. (Orchidaceae)	-	Flowers.
24.	<i>Derris trifoliata</i> Lamk. (Fabaceae)	-	Flowers.
25.	<i>Dipterocarpus griffithii</i> Miq. (Dipterocarpaceae)	Wathoa	Flower, flowering time indicate the advent of the honey – gathering season.
26.	<i>D. incanus</i> Roxb. (Dipterocarpaceae)	Aluk	-do-
27.	<i>D. turbinatus</i> Gaertn.f. (Dipterocarpaceae)	-	-do-
28.	<i>Donax cannaeformis</i> (Forst F.)	Leedan	Flowers
29.	<i>K. Schum.</i> (Marantaceae)		
30.	<i>Erythrina variegata</i> L. (Fabaceae)	Leura	Flowers.
31.	<i>Fagraea racemosa</i> Jack. ex Wall. (Loganiaceae)	Viseag	Flowers.
32.	<i>Globba pauciflora</i> King ex Baker. (Zingiberaceae)	Thitangalo	Flowers used in head band, Waist band & necklace.
33.	<i>Guettarda speciosa</i> L. (Rubiaceae)	-	Flowers.
34.	<i>Hernandia peltata</i> Meissn. (Hernandiaceae)	-	Flowers.
35.	<i>Hibiscus tiliaceus</i> L. (Malvaceae)	Horpo / Togay	Flowers.
36.	<i>Hoya parasitica</i> Wall. (Asclepiadaceae)	Occhum	Flowers.
37.	<i>Ipomoea pes-carpae</i> (L.) R.Br. (Convolvulaceae)	-	Flowers.
38.	<i>Ixora finlaysoniana</i> Wall . ex G. Don. (Rubiaceae)	Oha	Flowers.
39.	<i>I. grandifolia</i> Zoll. & Morr. (Rubiaceae)	-	Flowers.

40.	<i>Lagerstroemia hypoleuca</i> Kurz (Lythraceae)	Leiya	Flowers.
41.	<i>Licuala peltata</i> Roxb. (Arecaceae)	Popo	Leaf dissected and worn.
42.	<i>L. spinosa</i> Wurmbr. (Arecaceae)	-	-do-
43.	<i>Macranga peltata</i> (Roxb.) Muell.- Arg. (Euphorbiaceae)	Aludan	Flowers.
44.	<i>M. tanarius</i> (L.) Muell.- Arg. (Euphorbiaceae)	-	Flowers.
45.	<i>Memecylon andamanicum</i> King (Memecylaceae)	-	Flowers.
46.	<i>Mikania cordata</i> (Asteraceae)	-	Flowers
47.	<i>Musa sapientum</i> L. (Musaceae)	Chone	Tender leaf finely dissected and worn.
48.	<i>M. textilis</i> Nees. (Musaceae)	Chone	Flowers and tender leaves used in girdles.
49.	<i>Mussaenda macrophylla</i> Wall. (Rubiaceae)	Bukhala	Flowers and leaves.
50.	<i>Nypa fruticans</i> Wurmbr. (Arecaceae)	Thuiya	Leaf dissected and worn.
51.	<i>Ochna intigerrima</i> (Lour.) Merr. (Ochnaceae)	Hopenana	Flowers
52.	<i>Otanthera celebica</i> Bl. (Melastomataceae)	Kukuma	Flowers.
53.	<i>Pavetta indica</i> L. (Rubiaceae)	-	Flowers.
54.	<i>Pinanga manii</i> Becc. (Arecaceae)	Thulug	Flowers
55.	<i>P. kuhlii</i> Bl. (Arecaceae)	Tulug	Inflorescence.
56.	<i>Pisonia umbellifera</i> (Forst.) Seem (Nyctaginaceae)	-	Flowers.
57.	<i>Pseuduvaria prainii</i> (King.) Merr. (Annonaceae)	Homal	Tender leaves.
58.	<i>Rauvolfia sumatrana</i> (Apocynaceae)	Teepod	Flowers.
59.	<i>Sophora tomentosa</i> L. (Fabaceae)	-	Flowers.
60.	<i>Strongylodon ruber</i> Vogel (Fabaceae)	-	Flowers.

61.	<i>Syzygium samarangense</i> (Bl.) Merr. & Perry (Myrtaceae)	-	Flowers.
62.	<i>Tabernaemontana crispa</i> Roxb. (Apocynaceae)	Tahween	Flowers.
63.	<i>Thespesia populnea</i> Corra (Malvaceae)	-	Flowers
(ii) Sea weeds as Ornaments :			
64.	<i>Caulerpa racemosa</i> (Turn.) (Chlorophyceae)	Aale	Whole plant used as necklace.
65.	<i>Halimeda opuntia</i> (Turn.) Lamour (Chlorophyceae)	Aale	Whole plant used as necklace
66.	<i>Sargassum wightii</i> Grew. (Phaeophyceae)	Aale	Whole plant used as necklace.
67.	<i>Amphiroa anceps</i> (Lamk.) Decsne. (Rhodophyceae)	Pilobaha	Plant used in necklace making.

Table 5.5: Plants used for various other purposes

3.10 I.R

S. No.	Name of Species	Jarawa name (if known)	Parts used
	(i). Bows and Arrows:		
1.	<i>Ancistrocladus tinctorius</i> (Lour.) Merr. (Ancistrocladaceae)	-	Bark fibre for bowstring.
2.	<i>Anodendron manubrium</i> Merr. (Apocynaceae)	-	Bark fibre for bowstring.
3.	<i>Areca triandra</i> Roxb. (Arecaceae)	Tulu	Stem for arrow.
4.	<i>Calamus andamanicus</i> Kurz (Arecaceae)	Otaang	Stem.
5.	<i>Desmos dasymaschalus</i> (Bl.) Safford (Annonaceae)	-	Bark for bowstring.
6.	<i>Dinochloa scandens</i> (Bl. Ex Nees.) O. Kuntze (Poaceae)	-	Arrow form stem.
7.	<i>Ficus scandens</i> Roxb. (Moraceae)	Wetho	-
8.	<i>Murraya paniculata</i> (L.) Jack (Rutaceae)	-	Wooden spear and arrow from stem.
9.	<i>Oxytenanthera nigrociliata</i> Monro (Poaceae)	-	Stem for arrow.
10.	<i>Polyalthia parkinsonii</i> Hutch. (Annonaceae)	-	Bow string from bark.
11.	<i>Sageraea elliptica</i> (A.Dc.) Hook.f. & Thomson (Annonaceae)	Thotanbad tang	Stem for bow.
	(ii). Chest Guard (Kekad)		
12.	<i>Planchonia valida</i> (Bl.) Bl. (Lecythidaceae)	Wonebo	Bark.
13.	<i>Polyalthia parkinsonii</i> Hutch. (Annonaceae)	-	Bark.
14.	<i>Sterculia villosa</i> Roxb. (Sterculiaceae)	Tahat	Bark.
	(iii). Basket :		
15.	<i>Calamus palustris</i> Griff. (Arecaceae)	-	Strip of stem.
16.	<i>C. pseudorivalis</i> Becc. (Arecaceae)	Tiele	-do-
17.	<i>Korthalsia laciniosa</i> Mart. (Arecaceae)	Bagatho	-do-

18.	<i>Licuala peltata</i> Roxb. (Arecaceae)	Popo	Leaf spread inside basket.
	(iv). Rope/Cordage/Fibre		
19.	<i>Anodendron manubrium</i> Merr. (Apocynaceae)	-	Bark strip as rope.
20.	<i>Antidesma velutinum</i> Tul. (Euphorbiaceae)	-	-do-
21.	<i>Calamus longisetus</i> Griff. (Arecaceae)	-	Strip of stem for string.
22.	<i>C. pseudorivalis</i> Becc. (Arecaceae)	Tiele	-do-
23.	<i>Combretum latifolium</i> Bl. (Combretaceae)	Inetoa	Stem as rope.
24.	<i>Dendrobium aphyllum</i> (Orchidaceae)	-	Thread from stem fiber.
25.	<i>D. formosum</i> Roxb. (Orchidaceae)	Taan	Thread from stem fiber.
26.	<i>D. secundum</i> (Orchidaceae)	-	Thread from stem fiber.
27.	<i>Desmos dasymaschalus</i> (Bl.) Safford (Annonaceae)	-	Bark strip as rope.
28.	<i>Hibiscus tiliaceus</i> L. (Malvaceae)	Harpo	Bark strip as belt for carrying babies.
29.	<i>Planchonia valida</i> Bl. (Lecythidaceae)	-	Bark strip for cordage.
30.	<i>Pterocymbium tinctorium</i> (Balancho) Merr. (Sterculiaceae)	-	Bark strip as rope.
31.	<i>Sterculia villosa</i> Roxb. (Sterculiaceae)	Tahat	-do-
	(v). Pone (Torch)		
32.	<i>Canarium euphyllum</i> Kurz (Burseraceae)	Pone	Resin powder wrapped in leaf, tied at the end of the stick and burnt while moving at night.
33.	<i>Licuala peltata</i> Roxb. (Arecaceae)	Popo	Leaf for wrapping resin powder as above.
	(vi). Narcotics		
34.	<i>Nicotiana tabacum</i> L. (Solanaceae)	Chukha	Leaf (acquired habit).
	(vii). Stimulant		

35.	<i>Piper betle</i> L. (Piperaceae)	Intoto	Leaf.
	(viii). Water during emergency		
36.	<i>Calamus andamanicus</i> Kurz (Arecaceae)	Ottang	Stem juice.
	(ix). Utensils		
37.	<i>Areca triandra</i> Roxb. (Arecaceae)	Tulu	Spathe.
	(x). Mat/Bed Sheet		
38.	<i>Dracaena angustifolia</i> Roxb. (Agabaceae)	Chikbag	Stem.
39.	<i>Licuala peltata</i> Roxb. (Arecaceae)	Popo	Leaf.
40.	<i>Pterospermum acerifolium</i> Willd. Daeue (Sterculiaceae)	Dau	Leaf.
	(xi). Mosquito repellent		
41.	<i>Canarium euphyllum</i> Kurz (Burseraceae)	Tamboaho	Resin burnt Absorbent.
42.	<i>Areca triandra</i> Roxb. (Arecaceae)	Tulu	Pith.
43.	<i>Pterospermum acerifolium</i> Wild. Daeue (Sterculiaceae)	Dau	Leaves (Women sit on leaves during menstruation period).
	(xii). Brush		
44.	<i>Pongamia pinnata</i> (L.) Pierre (Fabaceae)	Aichun	Twig used sometimes for cleaning teeth.
	(xiii). Playball		
45.	<i>Cerbera manghas</i> L. (Apocynaceae)	Hokokat	Fruit.
	(xiv). Sustaining fire		
46.	<i>Canarium euphyllum</i> Kurz (Burseraceae)	Tamboaho	Resin.
	(xv). Trap		
47.	<i>Plecosperrum andamanicum</i> King (Moraceae)		Twig spread on ground to trap pigs
	(xvi) Oro (Dye)		
48.	<i>Myristica andamanica</i> Hook.f. (Myristicaceae)	Oro	Stem juice for making dye.

Table 5.6: Animals used by the Jarawas

3.11 – I.R

(Availability status: Abundant A; Common C; Occasional O)

A. Animal as Food						
S. No.	Name of animal	Group	Common name	Family	Consumed by	Availability status
1.	<i>Sus scrofa andamanensis</i>	Mammal	Wild pig	Suidae	Roasting, Boiling	C
2.	<i>Dugong dugon</i>		Sea cow	Dugongidae	?	O
3.	<i>Dendrocygna javanica</i>	Aves	Lesser whistling teal	Anatidae	Roasting	C
4.	<i>Nattapus coromandelianus</i>		Cotton teal	"	"	C
5.	<i>Psittacula alexandri</i>		Redbreasted parakeet	Psittacidae	"	C
6.	<i>Psittacula eupatria</i>		Alexandrine parakeet	"	"	C
7.	<i>Chalcophaps indica</i>		Emerald dove	Columbidae	"	C
8.	<i>Ducula aenea</i>		Green Imperial pigeon	"	"	C
9.	<i>Ducula bicolor</i>		Pied Imperial pigeon	"	"	C
10.	<i>Amaurornis phoenicurus</i>		White breasted waterhen	Rallidae	"	C
11.	<i>Varanus salvator andamanensis</i>	Reptilia	Andaman water monitor	Varanidae	Roasting	C
12.	<i>Chelonia mydas</i>		Green sea turtle	Cheloniidae	Boiling, eggs-boiling	C
13.	<i>Lepidochelys olivacea</i>		Olive Ridley turtle	"	"	C
14.	<i>Thryssa baelama</i>	Pisces	Baelama Anchory	Engraulididae	Roasting/ Boiling	A
15.	<i>Thryssa setirostris</i>		Longjaw thryssa	"	"	C
16.	<i>Thryssa malabarica</i>		Malabar thryssa	"	"	C
17.	<i>Chanos chanos</i>		Milk-fish	Chanidae	"	A
18.	<i>Arius macronotocanthus</i>		-	Ariidae	"	O
19.	<i>Arius sumatranus</i>		-	"	"	C
20.	<i>Arius thalassinus</i>		Giant marine cat-fish	"	"	C
21.	<i>Strongylura strongylura</i>		Roundtail needle fish	Belonidae	"	C
22.	<i>Tylosurus crocodiles</i>		Giant Longtom	"	"	C
23.	<i>Tylosurus gigantea</i>		-	"	"	C
24.	<i>Hemiramphus far</i>		Black-barred halfbeak	Hemiramphidae	"	C
25.	<i>Hemiramphus tukai</i>		Lutkei halfbeak	"	"	C
26.	<i>Hyporamphus limbatus</i>		Valencienne's halfbeak	Hemiramphidae	Roasting/ Boiling	C
27.	<i>Hyporamphus dussumieri</i>		Dussumier's halfbeak	"	"	C
28.	<i>Zenarchopterus gilli</i>		-	"	"	C

S. No.	Name of animal	Group	Common name	Family	Consumed by	Availability status
29.	<i>Lates calcarifer</i>		Giant seaperch	Centropomidae	"	C
30.	<i>Megalops cyprinoides</i>		Indo-Pacific Tarpon	Megalopidae	"	C
31.	<i>Plotosus lineatus</i>		Striped cat-fish eel	Plotosidae	"	A
32.	<i>Cociella crocodila</i>		-	Platycephalidae	"	C
33.	<i>Platycephalus indicus</i>		Indian flat-head	"	"	C
34.	<i>Epinephelus malabaricus</i>		Malabar reefcod	Serranidae	"	A
35.	<i>Epinephelus ongus</i>		-	"	"	C
36.	<i>Epinephelus fuscoguttatus</i>		Brown-marbled grouper	"	"	C
37.	<i>Terapon jarbua</i>		Jarbua terapon	Teraponidae	"	C
38.	<i>Terapon puta</i>		Small-scaled banded grunter	"	"	C
39.	<i>Pelates quadrilineatus</i>		Four-lined terapon	"	"	C
40.	<i>Sillago sihama</i>		Silver sillago	Sillaginidae	"	A
41.	<i>Carangoides caeruleopinnatus</i>		Bluefin kingfish	Carangidae	"	A
42.	<i>Carangoides malabaricus</i>		Malabar trevally	"	"	C
43.	<i>Selaroides leptolepis</i>		Yellow stripe trevally	"	"	C
44.	<i>Trachinotus blochii</i>		Snubnose pampano	"	"	C
45.	<i>Megalaspis cordyla</i>		Hardtail scad	"	"	C
46.	<i>Ambassis bruensis</i>		-	Ambassidae	"	O
47.	<i>Ambassis commersoni</i>		Commerson's glassy perchlet	"	"	C
48.	<i>Ambassis dussumieri</i>		-	"	"	O
49.	<i>Gazza minuta</i>		Toothed pony fish	Leiognathidae	"	A
50.	<i>Leiognathus bindus</i>		Orangefin pony fish	"	"	C
51.	<i>Leiognathus blochii</i>		Bloch's pony fish	"	"	A
52.	<i>Leiognathus berbis</i>		Lined pony fish	"	"	C
53.	<i>Leiognathus dussumieri</i>		Dussumier's pony fish	"	"	C
54.	<i>Leiognathus equulus</i>		Common pony fish	"	"	C
55.	<i>Leiognathus fasciatus</i>		Striped pony fish	Leiognathidae	Roasting/ Boiling	A
56.	<i>Leiognathus splendens</i>		Splendid pony fish	"	"	C
57.	<i>Leiognathus longipinis</i>		Smithurst's pony fish	"	"	C
58.	<i>Secutor insidiator</i>		Pugnose ponyfish	"	"	C
59.	<i>Lutjanus biguttatus</i>		Two spot banded snapper	Lutjanidae	"	A
60.	<i>Lutjanus eherebergi</i>		-	"	"	O
61.	<i>Lutjanus malabaricus</i>		Malabar red snapper	"	"	C
62.	<i>Lutjanus argentimaculatus</i>		Mangrove red-snapper	"	"	A
63.	<i>Lutjanus russelli</i>		Russell's snapper	Lutjanidae	"	A
64.	<i>Lutjanus johnii</i>		John's snapper	"	"	C
65.	<i>Lutjanus sebae</i>		Emperor red-snapper	"	"	C
66.	<i>Lobotes surinamensis</i>		Brown Tripletail	Lobotidae	"	O
67.	<i>Nemipterus bleekeri</i>		Bleeker's thread fin-bream	Nemipteridae	"	C
68.	<i>Nemipterus japonicus</i>		Japanese thread fin-bream	"	"	C
69.	<i>Nemipterus mesoprion</i>		Redfilament thread fin-bream	"	"	A
70.	<i>Scatophagus argus</i>		Spotted butterfish	Scatophagidae	"	A

S. No.	Name of animal	Group	Common name	Family	Consumed by	Availability status
71.	<i>Toxotes chatareus</i>		Archer fish	Toxotidae	”	C
72.	<i>Toxotes jaculator</i>		”	”	”	C
73.	<i>Gerres filamentosus</i>		Whipfin mojarra	Gerridae	”	C
74.	<i>Gerres poeti</i>		Silvery mojarra	”	”	C
75.	<i>Gerres oyena</i>		Common mojarra	”	”	C
76.	<i>Gerres oblongus</i>		Oblong mojarra	”	”	C
77.	<i>Gereomorpha setifer</i>		Black-tipped mojdrra	”	”	C
78.	<i>Plectrorhinchus gibbosus</i>		-	Haemulidae	”	C
79.	<i>Monodactylus argenteus</i>		Silver-batfish	Monodactylidae	”	C
80.	<i>Upeneus sulphureus</i>		Yellow goatfish	Mullidae	”	C
81.	<i>Upeneus tragula</i>		Darkband goatfish	”	”	C
82.	<i>Upeneus vittatus</i>		Yellow striped goat fish	”	”	C
83.	<i>Mulloidides vanicolensis</i>		-	”	”	C
84.	<i>Mulloidides flavolineatus</i>		Slender gold band goat fish	”	”	C
85.	<i>Parupeneus barberinus</i>		Goat fish	Mullidae	Roasting/ Boiling	C
86.	<i>Parupeneus bifasciatus</i>		”	”	”	C
87.	<i>Drepane punctata</i>		Spotted drepane	Drepanidae	”	C
88.	<i>Crenimugil crenilabis</i>		Mullet	Mugilidae	”	C
89.	<i>Liza melinoptera</i>		Mullet	”	”	C
90.	<i>Liza vaigiensis</i>		Diamond-scale grey mullet	”	”	C
91.	<i>Liza craniata</i>			”	”	O
92.	<i>Liza parsia</i>		Gold spot mullet	”	”	A
93.	<i>Liza subviridis</i>		Greenback grey mullet	”	”	A
94.	<i>Liza tade</i>		Tade grey mullet	”	”	A
95.	<i>Valamugil buchanani</i>		Buchanan’s blue-tail mullet	”	”	C
96.	<i>Valamugil cunnesius</i>		Long fin mullet	”	”	A
97.	<i>Valamugil seheli</i>		Blue spot grey mullet	”	”	C
98.	<i>Acanthurus mata</i>		Convict surgeon fish	Acanthuridae	”	C
99.	<i>Acanthurus triostegus</i>		Surgeon fish	”	”	C
100.	<i>Acanthurus lineatus</i>		”	”	”	C
101.	<i>Acanthurus xanthopterus</i>		Cuvier’s surgeon fish	”	”	C
102.	<i>Siganus canaliculatus</i>		White spotted spinefoot	Siganidae	”	C
103.	<i>Siganus argenteus</i>		-	”	”	O
104.	<i>Siganus javus</i>		Streaky spinefoot	”	”	C
105.	<i>Etroplus suratensis</i>		-	Cichlidae	”	C
106.	<i>Rhinecanthus rectangulus</i>		File fish	Balistidae	”	C
107.	<i>Rhinecanthus aculeatus</i>		”	”	”	C
108.	<i>Glossogobius giuris</i>		-	Gobiidae	”	C
109.	<i>Polynemus indicus</i>		Indian thread fin	Polynemidae	”	C
110.	<i>Polynemus plebius</i>		Common thread fin	”	”	C
111.	<i>Eleutheronema tetradactylum</i>		Four finger thread fin	”	”	C
112.	<i>Halichoeres hortulanus</i>		-	Labridae	”	C
113.	<i>Channa punctatus</i>		Snake head fish	Channidae	”	C

S. No.	Name of animal	Group	Common name	Family	Consumed by	Availability status
114.	<i>Butis butis</i>		-	Eleotridae	Roasting / Boiling	A
115.	<i>Eleotris fusca</i>		-	“	“	A
116.	<i>Ophioeleotris aporos</i>		-	“	“	O
117.	<i>Ophiocara porocephala</i>		-	“	“	O
118.	<i>Scarus ghobban</i>		Flame parrot fish	Scaridae	“	A
119.	<i>Scarus rubroviolaceus</i>		Parrot fish	“	“	O
120.	<i>Sphyraena flavicauda</i>		Short-jawed barracuda	Sphyraenidae	“	O
121.	<i>Sphyraena obtusata</i>		Obtuse barracuda	“	“	O
122.	<i>Geloina erosa</i>	Mollusca	Geloina clam	Corbiculidae	Boiling	A
123.	<i>Batissa violacea</i>		Violet clam	”	”	A
124.	<i>Trochus niloticus</i>		Top shell	Trochidae	”	C
125.	<i>Turbo brunneus</i>		Brown Pacific turban	Turbinidae	”	C
126.	<i>Turbo argyrostoma</i>		Silver mouth turban`	”	”	C
127.	<i>Tridacna maxima</i>		Elongated giant clam	Tridacnidae	”	C
128.	<i>Tridacna squamosa</i>		Fluted giant clam	”	”	C
129.	<i>Lambis lambis</i>		Common spider conch	Strombidae	”	C
130.	<i>Lambis chiragra</i>		Chiragra spider conch	”	”	C
131.	<i>Trachycardium elongatum</i>		Elongate cockle	Cardiidae	”	C
132.	<i>Anadara granosa</i>		Granular ark	Arcidae	”	C
133.	<i>Nerita articulata</i>			Neritidae	”	A
134.	<i>Nerita polita</i>		Polish nerit	Neritidae	”	A
135.	<i>Nerita albicilla</i>		Ox-palate nerit	”	”	A
136.	<i>Nerita undata</i>		Waved nerit	”	”	A
137.	<i>Nerita costata</i>		Costate nerit	”	”	A
138.	<i>Thais hippocastanum</i>		Chestnut rock shell	Muricidae	”	A
139.	<i>Thais tuberosa</i>		Tuberoso rockshell	”	”	A
140.	<i>Saccostrea cucullata</i>		Hooded oyster	Ostridae	”	A
141.	<i>Peteliioda saccharina</i>		Sugar limpet	Acmaeidae	”	C
142.	<i>Acanthopleura spiniger</i>		Spiny chiton	Chitonidae	”	C
143.	<i>Cypraea tigris</i>		Tiger cowry	Cypraeidae	”	C
144.	<i>Cassis cornuta</i>		Horned helmet	Cassidae	”	O
145.	<i>Hapalochlaena maculosa</i>		Octopus	Octopodidae	”	O
146.	<i>Lamellidens marginalis</i>		Freshwater mussel	Unionidae	Boiling	O
147.	<i>Turbo cinereus</i>		Lunella turban	Turbinidae	“	A
148.	<i>Pleuroploca trapizium</i>		Horse conch	Fasciolaridae	“	O
149.	<i>Panulirus versicolor</i>	Crustacea	Spiny lobster	Panuliridae	Boiling	C
150.	<i>Palaemon debilis</i>		Prawn	Palaemonidae	”	C
151.	<i>Penaeus semisulcatus</i>		”	Penaeidae	”	C
152.	<i>Penaeus indicus</i>		”	”	”	A
153.	<i>Metapenaeus coniger</i>		”	”	”	C
154.	<i>Metapenaeus dobsoni</i>		”	”	”	C
155.	<i>Metapenaeus affinis</i>		Prawn	Penaeidae	Boiling	C
156.	<i>Metapenaeus brevicornis</i>		”	”	”	C

S. No.	Name of animal	Group	Common name	Family	Consumed by	Availability status
157.	<i>Scylla serrata</i>		Giant Mud Crab	Portunidae	''	C
158.	<i>Uca dussumieri</i>		Fidler Crab	Ocypodidae	''	A
159.	<i>Thalamita crenata</i>		Swimming Crab	Portunidae	''	C
160.	<i>Thalamita prymna</i>		''	''	''	C
161.	<i>Sesarma taeniolata</i>		Marsh Crab	Grapsidae	''	C
162.	<i>Sesarma bidens</i>		''	''	''	C
163.	<i>Charybdis orientalis</i>		Swimming Crab	Portunidae	''	C
164.	<i>Megopis sulcipennis</i>	Insecta: <i>Coleoptera</i>	Longicorn beetle	Cerambycidae	Grub-Roasting /Raw	C
165.	<i>Gnaphaloryx opacus</i>		Stag beetle	Lucanidae	Grub-Roasting	C
166.	<i>Macrolinus andamanensis</i>		Flat bark beetle	Passalidae	''	C

Format for Report Writing on basis of study of Jarawas of Andaman Islands [*Suggested by Shri S.A. Awaradi, Director (TW)*]

Introduction and objective of study to be written on the basis of :

- (i) Order dated 9.4.2001, of Hon'ble High Court of Kolkata in W.P. No. 48 of 1999.
- (ii) Notification of Ministry of Home Affairs constituting the Expert Committee on Jarawas in pursuance of Order of the High Court.
- (iii) A & N Administration's Orders issued in connection with surveys / studies by multi-disciplinary Composite Groups in accordance with decision of Expert Committee.

People and place of study:

- (i) Jarawas of South Andaman and Middle Andaman Island.
- (ii) Location: - Local / Jarawa names ; latitudes & longitudes of places at which Jarawas were studied / surveyed.
- (iii) areas / territories (latitude & longitude) surveyed for plant and animal resources
- (iv) Period of study / survey (from _____ to _____)
- (v) General account of people and the areas.

Problems / issues for study / survey

- (a) Five questions as raised in the order dated 9.4.2001 of High Court for the sudden change in the behaviour of the Jarawas:
 - (i) *The desire of Jarawas to accept the civilized way of life.*

Or

(ii) *shortage of food in their habitat*

Or

(iii) *need to obtain occasional medical help*

Or

(iv) *failure to provide protection against poaching and encroachments resulting in shrinkage of their territory*

Or

(v) *Other reasons*

(b) Parameters of study / survey to address the research problems / issues.

(I) ACCEPTANCE OF CIVILIZED WAY OF LIFE

(i) *The following could be the indicators of the acceptance of civilized way of life: -*

(a) Dress (b) Food (c) Non hostile attitude (d) Spread of Non hostile attitude to South Andaman Island (e) Cultural traits.

(ii) *Answer to the following would be relevant for the acceptance of civilized way of life:*

(a) Have they accepted the co-existence with non-tribals?

(b) Have they accepted the territorial division between their territory and that under the active occupation of non-tribal villagers?

(c) Why do they plunder villager's farms and houses even now.

(iii) *Extent of acceptance could be understood by finding answers to the following:*

(a) acceptance by only few people

(b) acceptance by particular age group

(c) acceptance in a specific situation (name such situations)

- (d) acceptance by all in the specific situation only
- (e) acceptance by the all in all the situations
- (f) sex-wise difference in extent of acceptance in all above cases

(II) SHORTAGE OF FOOD

- (i) Shortage of food could be assessed by investigating the following sub-issues:
 - (a) Nutritional status of Jarawas
 - (b) Identification of animal and plant food items in Jarawa Forest
 - (c) Availability and accessibility of such animal & plant food items.
 - (d) Extent of utilization of such items by Jarawas.
 - (e) Shortage / adequate / plenty of these items for Jarawas.
 - (f) Diversification of utilization of food items naturally available.
 - (g) Quantity / extent of consumption of foreign (outside) food items.

(III) OCASSIONAL MEDICAL HELP

- (i) The following aspects would be relevant to the Health and Medical Care for the Jarawas:
 - (a) Morbidity / disease pattern in different months / seasons.
 - (b) Etiology of diseases (causes of diseases).
 - (c) Diseases occurring prior to outsiders contact.
 - (d) Morbidity and mortality due to diseases occurred prior to outsiders contact.
 - (e) Ethno-medicine and its extent of efficacy.
 - (f) New Diseases due to contact with outsiders their morbidity and mortality.
 - (g) Preventive measures for aboriginal and new diseases.
 - (h) Curative measures for aboriginal and new diseases.

- (i) Promotive measures for aboriginal and new diseases.
- (j) Module of Health delivery system for Jarawa.

(IV) FAILURE TO PROVIDE PROTECTION AGAINST POACHING AND ENCROACHMENT.

- (a) The existence and extent of poaching and encroachment.

(V) OTHER REASONS FOR SUDDEN CHANGE IN BEHAVIOUR OF JARAWAS.

Research Methodology / Research techniques.

- (i) Description of methodology / techniques followed in the study / survey.
- (ii) Limitation, if any, in the methodology / techniques and reasons therein.

Observations

- (i) Description of data / information gathered referring to the tables / charts / diagrams etc.
- (ii) Interpretation of data.
- (iii) Inferences and findings with riders, if any.

Conclusions

- (i) Answers to the problems set out in the beginning of study.
- (ii) Effects caused or likely to cause on Jarawas due to their sudden change of behaviour in respect of their :
 - (a) biological and cultural identity
 - (b) Self reliance and self sustainability as a community.

Recommendations with reasons thereto for :

- (i) Isolation of Jarawas as a community.
- (ii) Assimilation of Jarawas with mainstream society.
- (iii) Assistance for peaceful co-existence without loss of cultural and biological identity.

Programmes with feasibility to implement the recommendation made in respect of :

- (i) Health
 - (ii) Nutrition
 - (iii) Food resources
 - (iv) Biological identity
 - (v) Cultural identity
 - (vi) measures against exploitation by non-Jarawas and
 - (vii) other aspects.
-

Discussed in a meeting with the Members of the Expert Committee held on 04.04.2002 and 05.04.2002. (Suggested by Dr. S.B. Chakravarthy, Dy. Director , Anthropological Survey of India, Port Blair)

"Framework for writing the report on the Jarawa fieldwork by the Composite teams."

I **Introduction**

- (i) Historical background of the region in general, Jarawa region in particular.
 - (ii) The place - habitat / location, flora / fauna Hinterland linkages, villages, *mohallah* etc.
 - (iii) The people -Population demography, the immediate neighbours and their interactions.
 - (iv) Tools and Techniques - Data collections
2. Ecology and resources - Present condition and total inventory.
 3. Material and culture - House, dress, ornaments, hunting implements, utensils etc.
 4. Family, marriage and kingship - Size and type of family, marriage pattern, kingship network.
 5. Economic activities - Types of activities in details (major, minor identification and optimal use of resources, division of labour-age, sex, band seasonal variations choices and compulsions.
 6. Food & Hygiene - Access to food, distribution of food health and nutrition interfamily, intrafamily, interterritory, Hygiene practices, nutritional status, fertility, mortality, morbidity, sterility, life expectancy acceptance to medical facilities, folk medicinal practices.
 7. Social control (customary laws) - Decision making within the community, resource utilization, food distribution, cultural identity, territorial integrity etc.
 8. Cosmology and related - prohibitive aspects, prescriptive aspects, promotional aspects etc.

- 9 World as perceived by the Jarawa - Traditional perspectives vis-à-vis modern ideas.
 - 10 Impact of Contact - Nature and context of contact, historical aspect of contact regional spread in contact, peripheral or enduring nature, degree of impact in different spheres.
 - 11 Summing up - Continuity and change.
 - 12 Appendices :
 - (i) Tabular information
 - (ii) Encounters and experience in the field
 - (iii) Schedules and questionnaires
 - (iv) Glossary
 - (v) Index
 - (vi) Bibliography
-

Proposed Amendment of A&N Islands (Protection Aboriginal Tribes) Regulation – 1956.

In principal Regulation, under Section 8, the Sub Section (4) shall be substituted after sub-section (3) as under:

The person or the persons who possess the direct or indirect control over person or persons or over the carriage, carrier, motorized or otherwise vehicle or vessels or over any machine and whose act of commission or omission is likely to result or has resulted in reaching to the aboriginal tribe or tribal reserve directly or indirectly the foreign material, the material which is not indigenous to the tribal reserve or in photography, videography of aboriginal tribe or in removal of their body part or tissue or in display or exhibition or publication of photography, videography of aboriginal tribal or/their belongings or in bringing members of aboriginal tribes in physical contact with the persons other than the members of the aboriginal tribe without the permission of Lt. Governor shall be punishable with imprisonment of three years extendable upto five years and fine of Rs. 10,000/- extendable upto Rs. 25,000/-.

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